superior conj	7600 May 07 03:26	19° 8 49'17	-1°52'25	morning set	7601 Apr 03 04:22	6° Ƴ 02'36	
minimum elong	7600 May 07 08:59	20° 8 13'55	1°52'01	max. Earth dist.	7601 Apr 11 14:26	19° Ƴ 24'30	1.43128 AU
	7600 May 12 18:38	Π °0					
evening rise	7600 May 17 15:13	9° Ⅱ 00'02		superior conj	7601 Apr 18 08:56	0° 8 34'50	
asc. node	7600 May 21 15:23	16° ∏ 24'07		minimum elong	7601 Apr 18 11:57	0° 8 47'30	2°08'42
	7600 May 29 20:08	0.20 0.20	10015122		7601 Apr 18 00:38	0°8	
evening max el	7600 Jun 02 18:49	4°5544'36	18°15'33	evening rise	7601 Apr 30 09:30	21° 8 25'40	
retrograde	7600 Jun 09 21:53 7600 Jun 12 06:17	8°519'16		4.	7601 May 05 06:03	0°Ⅱ 5°Ⅱ35'20	
evening set inferior conj	7600 Jun 12 06:17 7600 Jun 19 10:33	7° © 56'43 3° © 14'43	1°45'03	asc. node	7601 May 08 12:27 7601 May 17 06:56	17° II 48'47	18°05'35
minimum elong	7600 Jun 19 10.33	3°908'18	1°44'01	evening max el retrograde	7601 May 17 06.36 7601 May 23 19:53	21° II 10'39	18 03 33
min. Earth dist.	7600 Jun 22 20:13	0° © 20'21	0.59188 AU	evening set	7601 May 26 11:37	20° I 37'03	
mm. Earth dist.	7600 Jun 23 06:19	30°R∏	0.59100110	inferior conj	7601 Jun 01 23:40	15° Ⅱ 34'47	2°41'19
desc. node	7600 Jun 25 16:57	28° Ⅱ 13'33		minimum elong	7601 Jun 02 02:34		2°40'33
morning rise	7600 Jun 26 17:42	27° I I36'01		min. Earth dist.	7601 Jun 05 02:08	12° Ⅲ 31′06	0.61432 AU
direct	7600 Jul 03 00:55	25° Ⅱ 47'30		morning rise	7601 Jun 08 15:23	9° Ⅱ 34'49	
	7600 Jul 13 07:06	0 \circ \odot		desc. node	7601 Jun 12 13:59	7° Ⅱ 39'50	
morning max el	7600 Jul 17 09:52	3° 5 36'38	27°27'31	direct	7601 Jun 15 08:13	7° Ⅱ 16'44	
	7600 Aug 05 17:16	$0^{\circ}\Omega$		morning max el	7601 Jun 29 13:34	15° Ⅱ 16′22	27°54'23
morning set	7600 Aug 17 15:53	22° Ω 46'43			7601 Jul 11 13:00	0 \circ \odot	
asc. node	7600 Aug 17 14:44	22° Ω 40'41			7601 Jul 29 06:30	$0^{\circ}\Omega$	
	7600 Aug 21 00:53	0° ™		morning set	7601 Aug 01 18:58	7° Ω 03′23	
max. Earth dist.	7600 Aug 24 05:11	6° m 59'31	1.31710 AU	asc. node	7601 Aug 04 11:45	12° Ω 41'49	
	5 (00) 21 15 5 (00 10110	1005100	max. Earth dist.	7601 Aug 07 13:52	19° Ω 20'49	1.31985 AU
superior conj	7600 Aug 24 17:56	8° Mp 10'10			7(01 4 00 04 10	220 0 5 1112	0046120
minimum elong	7600 Aug 24 15:41	7° Mp 57'42	1°07'03	superior conj	7601 Aug 09 04:18	22°Ω51'12 22°Ω40'48	0°46'30 0°46'04
evening rise	7600 Aug 31 12:18 7600 Sep 03 21:04	22° ™ 59'33 0° ₽		minimum elong	7601 Aug 09 02:24 7601 Aug 12 10:13	0°m)	0 46 04
desc. node	7600 Sep 03 21:04 7600 Sep 21 15:59	0 = 29° £ 52'06		evening rise	7601 Aug 12 10:13	7° Mp 42'45	
desc. node	7600 Sep 21 13:37	0°M		evening rise	7601 Aug 27 11:27	/ 11√42 43 0° <u>Ω</u>	
evening max el	7600 Sep 29 05:13	8°M25'56	26°11'53	desc. node	7601 Sep 08 13:04	° – 16° ≏ 51'19	
retrograde	7600 Oct 13 03:36	15°M31'01		evening max el	7601 Sep 10 20:32	19° £ 13'11	24°48'41
evening set	7600 Oct 19 15:34	13°M49'06		retrograde	7601 Sep 24 16:46	26° ≙ 11'34	
min. Earth dist.	7600 Oct 23 18:19	11°M14'30	0.58882 AU	evening set	7601 Sep 30 03:16	25° ≏ 05'12	
inferior conj	7600 Oct 26 22:44	8°M51'56	-4°52'05	min. Earth dist.	7601 Oct 05 07:43	22° ≏ 20'09	0.56940 AU
minimum elong	7600 Oct 27 05:20	8°M39'34	4°50'42	inferior conj	7601 Oct 08 02:05	20° ≏ 32'31	-5°27'44
morning rise	7600 Nov 03 21:22	4°M22'26		minimum elong	7601 Oct 08 04:45	20° ≏ 28'11	5°27'32
direct	7600 Nov 06 04:24	4°M04'38		morning rise	7601 Oct 16 08:27	16° ≏ 25'44	
asc. node	7600 Nov 13 14:11	7°M22'59		direct	7601 Oct 18 21:43	16° ≏ 07'26	
morning max el	7600 Nov 14 06:15	8°M00'16	18°28'12	morning max el	7601 Oct 28 05:23	20° £ 32'11	19°20'02
	7600 Nov 28 09:31	0° ⊀ ⁷		asc. node	7601 Oct 31 11:13	24° £ 07'22	
morning set	7600 Nov 30 06:15	3° ∡ ³34′07			7601 Nov 04 13:41	0°M	
superior conj	7600 Dec 09 05:36	20° ∡ '38'15	1°05'45	morning set	7601 Nov 14 07:28 7601 Nov 20 07:39	17° M 59'41 0° √	
minimum elong	7600 Dec 09 03:36 7600 Dec 09 09:07	20° x '38 13 20° x '54'31	1°05'24		7001 NOV 20 07.39	0 x ·	
minimum ciong	7600 Dec 14 09:46	0°る	1 03 24	superior conj	7601 Nov 22 09:45	4° ∡ 105'58	1°26'00
max. Earth dist.	7600 Dec 16 16:28	3° る 58'59	1.40365 AU	minimum elong	7601 Nov 22 12:33	4° × 719'36	1°25'51
desc. node	7600 Dec 18 15:04	7° る 18'31		max. Earth dist.	7601 Nov 28 22:16	16° ∡ ¹24'38	1.38202 AU
evening rise	7600 Dec 21 00:12	11° る 18'17		evening rise	7601 Dec 02 16:00	23° х ¹05′29	
	7601 Jan 01 20:55	0° ≈		desc. node	7601 Dec 05 12:06	27° ∡ 758'45	
evening max el	7601 Jan 24 15:22	29° ≈ 46′12	23°40'43		7601 Dec 06 16:54	0°ರ	
	7601 Jan 24 20:56	0°) €			7601 Dec 26 16:41	0° ≈	
retrograde	7601 Feb 04 10:18	6°) €07'53		evening max el	7602 Jan 07 04:34	13° ≈ 32′26	24°58'22
evening set	7601 Feb 09 13:24	3° ¥ 59'57		retrograde	7602 Jan 19 00:08	20° ≈ 24′09	
asc. node	7601 Feb 09 13:23	4°) €00'01		evening set	7602 Jan 24 16:07	18° ≈ 02'49	
	7601 Feb 13 04:17	30°R≈	10.404.6	asc. node	7602 Jan 27 10:26	15°≈11'32	0 (551 (177
inferior conj	7601 Feb 14 23:53	27°≈33'01	1°42'46	min. Earth dist.	7602 Jan 29 04:18	12°≈59'55	0.67716 AU
minimum elong	7601 Feb 14 21:51	27°≈39'59	1°42'07	inferior conj	7602 Jan 30 06:09	11°≈35'00	0°55'31
min. Earth dist. morning rise	7601 Feb 14 09:22 7601 Feb 20 06:15	28°≈22'35 21°≈28'33	0.68228 AU	minimum elong morning rise	7602 Jan 30 04:51 7602 Feb 04 17:51	11°≈39'16 5°≈37'45	0°55'05
direct	7601 Feb 20 06:13 7601 Feb 24 09:34	21 ≈28 33 19°≈52'15		direct	7602 Feb 04 17.31 7602 Feb 08 08:27	3 ≈3743 4°≈22'57	
morning max el	7601 Mar 04 13:20	24°≈32'14	20°44'51	morning max el	7602 Feb 15 15:10	8°≈26'33	19°37'18
B VI	7601 Mar 09 08:47	0° ∀		greatest brilliancy	7602 Feb 28 10:06	25°≈10'58	-0.7m
desc. node	7601 Mar 16 14:32	9°)(44'31		desc. node	7602 Mar 03 11:31	29° ≈ 44'19	
	7601 Mar 30 06:27	0° Y			7602 Mar 03 15:41	0° ℋ	

morning set	7602 Mar 13 01:38	14° ∺ 21'21		asc. node	7603 Jan 14 07:30	25°₹36'55	
B 4 F	7602 Mar 23 02:48	0° Υ	1 44555 433	morning rise	7603 Jan 20 03:47	19°る45'47	
max. Earth dist.	7602 Mar 25 02:54	3° Y 10′01	1.44577 AU	direct	7603 Jan 23 07:10	18°₹49'37	10045106
	T(00) (00 10 00	1000015110	2000110	morning max el	7603 Jan 30 00:23	22° る 29'15	18°45'06
superior conj	7602 Mar 29 13:28	10° Υ 15'12			7603 Feb 05 03:48	0°≈	
minimum elong	7602 Mar 29 10:16	10° Y 02'19	2°09'14	desc. node	7603 Feb 18 08:29	20°≈02'14	
	7602 Apr 10 13:38	0°8		morning set	7603 Feb 20 13:24	23°≈29'38	
evening rise	7602 Apr 12 07:55	2° 8 57'46			7603 Feb 24 17:00	0° ∀	
asc. node	7602 Apr 25 09:30	24° 8 18'19		max. Earth dist.	7603 Mar 07 20:01	17°) €24'54	1.45361 AU
	7602 Apr 29 17:54	0° Π					
evening max el	7602 Apr 30 20:10	1° Ⅱ 09'34	18°14'32	superior conj	7603 Mar 08 22:24	19° ∺ 08'19	
retrograde	7602 May 07 05:30	4° ∐ 33'22		minimum elong	7603 Mar 08 13:25	18°) ₹33'05	1°49'10
evening set	7602 May 10 04:11	3° ∏ 47'07			7603 Mar 15 19:49	0° Υ	
	7602 May 14 17:53	30° ₹ 8		evening rise	7603 Mar 24 07:02	13° Y 31′10	
inferior conj	7602 May 16 04:06	28° 8 26'15		greatest brilliancy	7603 Mar 31 07:17	24° Y 47'30	-0.9m
minimum elong	7602 May 16 05:50	28° 8 21'25			7603 Apr 03 14:11	0°8	
min. Earth dist.	7602 May 18 17:24	25° 8 35'36	0.63550 AU	asc. node	7603 Apr 12 06:33	12° 8 23'56	
morning rise	7602 May 22 06:14	22° 8 14'30		evening max el	7603 Apr 14 07:44	14° 8 40'12	18°41'44
direct	7602 May 29 00:44	19° 8 35'38		retrograde	7603 Apr 20 22:25	18° 8 18'46	
desc. node	7602 May 30 11:00	19° 8 42'06		evening set	7603 Apr 24 04:14	17° 8 18'50	
morning max el	7602 Jun 11 22:03	27° 8 37'19	27°43'26	inferior conj	7603 Apr 29 19:49	11° 8 41'10	3°24'57
	7602 Jun 14 04:13	Π $^{\circ}0$		minimum elong	7603 Apr 29 20:09	11° 8 40'10	3°24'52
	7602 Jul 05 06:37	0 \circ \odot		min. Earth dist.	7603 May 01 17:54	9° 8 20'13	0.65356 AU
morning set	7602 Jul 16 15:03	20° © 57'10		morning rise	7603 May 05 11:24	5° 8 24'32	
	7602 Jul 21 01:03	$\mathfrak{O}^{\circ}\mathfrak{O}$		direct	7603 May 12 01:01	2° 8 37'01	
max. Earth dist.	7602 Jul 21 16:46	1° Ω 22'46	1.32719 AU	desc. node	7603 May 17 08:00	4° 8 06'17	
asc. node	7602 Jul 22 08:46	2° Ω 47'30		morning max el	7603 May 25 08:26	10° 8 28'52	26°59'16
				•	7603 Jun 09 18:10	Π $^{\circ}0$	
superior conj	7602 Jul 24 11:24	7° Ω 18'31	0°21'26		7603 Jun 27 18:22	0 \circ \odot	
minimum elong	7602 Jul 24 10:23	7° Ω 13′03	0°21'08	morning set	7603 Jun 30 01:13	4° © 19'46	
evening rise	7602 Jul 31 11:03	22° Ω 24'33		max. Earth dist.	7603 Jul 04 10:10	12° © 56'52	1.33930 AU
<i>5</i>	7602 Aug 04 02:35	0° m)					
evening max el	7602 Aug 23 07:56	29° m) 29'44	23°10'49	superior conj	7603 Jul 08 13:06	21° © 26'16	-0°07'04
<i>y</i>	7602 Aug 23 20:37	0∘ ⊽		minimum elong	7603 Jul 08 13:29	21°528'16	
desc. node	7602 Aug 26 10:08	2° ₽ 11'03		behind sun begin	7603 Jul 08 08:22	21°501'28	0 0, 02
retrograde	7602 Sep 05 17:54	6° £ 12'28		behind sun end	7603 Jul 08 18:36	21°955'05	
evening set	7602 Sep 09 16:27	5° Ω 38'29		asc. node	7603 Jul 09 05:46	22° © 53'45	
min. Earth dist.	7602 Sep 16 16:59	2° £ 25'03	0.55454 AU	use. Houe	7603 Jul 12 14:16	0°Ω	
inferior conj	7602 Sep 18 09:44	1° Ω 25'44		evening rise	7603 Jul 15 21:30	6° Ω 59'14	
minimum elong	7602 Sep 18 05:12	1° ⊆ 32'20		evening rise	7603 Jul 28 05:14	0° m)	
minimum clong	7602 Sep 20 22:05	30°RM)	3 213)	evening max el	7603 Aug 05 00:18	9° Mp 51'35	21°35'00
morning rise	7602 Sep 26 20:09	27° Mp 35'03		desc. node	7603 Aug 13 07:11	15° M) 19'22	21 33 00
direct	7602 Sep 29 19:39	27° mp 13'55		retrograde	7603 Aug 17 08:43	15° Mp 58'56	
direct	7602 Oct 07 20:23	0° ⊽		evening set	7603 Aug 17 08:43	15° Mp 43'49	
morning may al	7602 Oct 07 20:23	0 = 2° ₽ 18'18	20024106	inferior conj	•	11° Mp 44'46	1022116
morning max el asc. node		2 = 1616 11° ⊆ 50'30	20 34 00		7603 Aug 29 04:20	11° Mp 57'48	
asc. node	7602 Oct 18 08:14 7602 Oct 28 07:03	0°M		minimum elong min. Earth dist.	7603 Aug 28 19:01	-•	4 1937 0.54737 AU
marning got		2°M39'28			7603 Aug 29 02:05	11° Mp 47'55	0.54757 AU
morning set	7602 Oct 29 14:16	2 11639 28		morning rise	7603 Sep 06 16:29 7603 Sep 10 05:22	7° Mp 53'53	
	7(02.) 0(.02.17	100 M 00146	1027141	direct		7° Mp 26'39	22007140
superior conj	7602 Nov 06 02:17	18°M08'46 18°M16'24		morning max el asc. node	7603 Sep 22 14:51 7603 Oct 05 05:14	13° Mp 17'58 0° ⊆ 19'06	22°07'40
minimum elong	7602 Nov 06 03:47			asc. node			
max. Earth dist.	7602 Nov 11 05:39		1.36153 AU	. ,	7603 Oct 05 00:50	0° ™	
	7602 Nov 12 02:04	0° ⊀ ⁷		morning set	7603 Oct 14 00:24	17° Ω 27'33	
evening rise	7602 Nov 15 03:28	5° 🖈 44'57			7603 Oct 19 21:59	0°M	
desc. node	7602 Nov 22 09:08	18° ₹ 29'45			5 (02 0 . 21 02 25	20M 25100	1044440
	7602 Nov 29 13:04	0°る		superior conj	7603 Oct 21 03:27	2°M36'00	
evening max el	7602 Dec 20 17:27	27° る 17'56	26°06'42	minimum elong	7603 Oct 21 03:36	2°M36'44	
	7602 Dec 23 17:29	0° ≈		max. Earth dist.	7603 Oct 24 19:44	10°M14'51	1.34418 AU
retrograde	7603 Jan 02 09:09	4°≈29'09		evening rise	7603 Oct 29 06:49	19° M 07'33	
evening set	7603 Jan 08 13:48	1°≈57'31			7603 Nov 04 03:22	0° ₹	
	7603 Jan 10 15:04	30°Ŗる	0.550	desc. node	7603 Nov 09 06:11	8° ∡ 746'36	
min. Earth dist.	7603 Jan 12 19:13	27° る 29'17	0.66827 AU		7603 Nov 23 15:40	0° ろ	
inferior conj	7603 Jan 14 08:29	25° る 33'50	0°00'50	evening max el	7603 Dec 03 06:33	10° ろ 56'30	26°58'14
minimum elong	7603 Jan 14 08:28	25° る 33'55	0°00'55	retrograde	7603 Dec 16 12:34	18° ろ 15'51	
transit middle	7603 Jan 14 08:28	25° る 33'55	0°00'55	evening set	7603 Dec 23 04:29	15° る 39'06	
transit begin	7603 Jan 14 05:36	25° る 42'46		min. Earth dist.	7603 Dec 27 03:57		0.65582 AU
transit end	7603 Jan 14 11:19	25° る 25'04		inferior conj	7603 Dec 29 04:47	9° る 25'19	-1°00'27

minimum elong	7603 Dec 29 06:32	9° ට 20'17	0°59'36	min. Earth dist.	7604 Dec 09 04:14	25° ∡ ¹40'09	0.64002 AU
asc. node	7604 Jan 01 04:32	6° ප 12'18	0 0 0 0 0 0	inferior conj	7604 Dec 11 16:34	23° × 103'31	
morning rise	7604 Jan 04 09:44	3°₹48'50		minimum elong	7604 Dec 11 20:28	22° × 753'22	
direct	7604 Jan 07 03:50	3° ප 07'35		morning rise	7604 Dec 18 08:53	17° ∡ 741'43	
morning max el	7604 Jan 13 14:53	6° る 34'20	18°09'23	asc. node	7604 Dec 18 01:34	17° ∡ ⁴49'33	
C	7604 Jan 29 17:35	0° ≈		direct	7604 Dec 20 19:58	17° ∡ 11'25	
morning set	7604 Feb 01 05:48	4°≈05'01		morning max el	7604 Dec 27 07:56	20° х 34′50	17°50'49
desc. node	7604 Feb 05 05:28	10° ≈ 33'07			7605 Jan 03 11:05	8°0	
				morning set	7605 Jan 13 02:17	16° පි 03'01	
superior conj	7604 Feb 16 03:53	27° ≈ 59'32	-1°12'58		7605 Jan 21 08:53	0° ≈	
minimum elong	7604 Feb 15 19:30	27° ≈ 26′34	1°11'53	desc. node	7605 Jan 22 02:28	1° ≈ 12'47	
	7604 Feb 17 10:30	0° ∀					
max. Earth dist.	7604 Feb 18 15:16	1° 升 52'51	1.45411 AU	superior conj	7605 Jan 26 00:45	7° ≈ 38'56	-0°28'03
evening rise	7604 Mar 03 08:07	23° ℋ 13'56		minimum elong	7605 Jan 25 21:35	7° ≈ 26′05	0°27'30
	7604 Mar 07 16:46	0 ° $\mathbf{\gamma}$		max. Earth dist.	7605 Jan 31 10:19	16° ≈ 18'38	1.44726 AU
greatest brilliancy	7604 Mar 15 17:13	12° Ƴ 18'13	-0.7m		7605 Feb 09 04:34	0°) €	
evening max el	7604 Mar 27 15:31	28° Ƴ 15'46	19°25'56	evening rise	7605 Feb 10 20:14	2° ∺ 32'35	
asc. node	7604 Mar 29 03:36	29° Ƴ 40'48			7605 Mar 01 06:54	0 ° $\mathbf{\gamma}$	
	7604 Mar 29 12:43	0°8		evening max el	7605 Mar 10 18:12	11° Y 53'42	20°25'06
retrograde	7604 Apr 03 19:20	2° 8 20'20		asc. node	7605 Mar 16 00:39	15° Y 55′26	
evening set	7604 Apr 07 08:58	1° 8 05'56		retrograde	7605 Mar 18 17:44	16° Ƴ 33'16	
	7604 Apr 08 17:22	30° ₹ Υ		evening set	7605 Mar 22 16:16	15° Y 03'51	
inferior conj	7604 Apr 12 19:26	25° Y 13′00	3°21'48	inferior conj	7605 Mar 28 00:13	8° Y 57'36	
minimum elong	7604 Apr 12 18:32	25° Y 15'57	3°21'42	minimum elong	7605 Mar 27 22:27	9° Ƴ 03'37	
min. Earth dist.	7604 Apr 14 02:21	23° Y 31'48	0.66760 AU	min. Earth dist.	7605 Mar 28 17:01	8° Y 00′13	0.67721 AU
morning rise	7604 Apr 18 03:45	18° Y 55'47		morning rise	7605 Apr 02 04:25	2° Y 42'05	
direct	7604 Apr 24 07:41	16° Y 11'44		direct	7605 Apr 07 19:39	0° Υ 11'20	
desc. node	7604 May 03 05:00	20° Y 20'46		morning max el	7605 Apr 19 03:11	6° Y 57'29	24°25'27
morning max el	7604 May 06 18:15	23°Y38'10	25°49'57	desc. node	7605 Apr 20 01:58	7° Y 56′24	
	7604 May 12 10:10	8°0		. ,	7605 May 07 01:25	0° 8	
. ,	7604 Jun 02 03:06	0°II		morning set	7605 May 24 22:57	28° 8 42'57	
morning set max. Earth dist.	7604 Jun 11 21:29 7604 Jun 15 16:18	16°Ⅲ59'17 24°Ⅲ04'57	1.35616 AU	max. Earth dist.	7605 May 25 16:32	0°П 5°П11'09	1.37682 AU
max. Earm dist.	/004 Juli 13 10.18	24 Д0437	1.55010 AU	max. Earm dist.	7605 May 28 14:19	э ш 11 09	1.57062 AU
	7604 Jun. 18 17:22	0.00					
	7604 Jun 18 17:22	0ಂತಾ		superior coni	7605 Jun 04 13:13	1 ♀○ ₩ 11'∩♀	1°00'12
superior coni			-0°37'51	superior conj	7605 Jun 04 13:13	18° Ⅱ 11'08 18° Ⅲ 31'15	
superior conj	7604 Jun 21 06:46	5°506'23		superior conj minimum elong	7605 Jun 04 17:24	18° Ⅲ 31'15	
minimum elong	7604 Jun 21 06:46 7604 Jun 21 08:59	5°506'23 5°517'32		minimum elong	7605 Jun 04 17:24 7605 Jun 10 13:33	18° ∏ 31'15 0° ©	
minimum elong asc. node	7604 Jun 21 06:46 7604 Jun 21 08:59 7604 Jun 25 02:46	5°906'23 5°917'32 12°955'55		minimum elong	7605 Jun 04 17:24 7605 Jun 10 13:33 7605 Jun 11 23:47	18°∏31'15 0°© 2°©50'23	
minimum elong	7604 Jun 21 06:46 7604 Jun 21 08:59 7604 Jun 25 02:46 7604 Jun 29 04:35	5°\$06'23 5°\$17'32 12°\$55'55 21°\$19'46		minimum elong	7605 Jun 04 17:24 7605 Jun 10 13:33 7605 Jun 11 23:47 7605 Jun 13 05:53	18° I 31'15 0°© 2°©50'23 5°©19'57	
minimum elong asc. node evening rise	7604 Jun 21 06:46 7604 Jun 21 08:59 7604 Jun 25 02:46 7604 Jun 29 04:35 7604 Jul 03 12:26	5°\$06'23 5°\$17'32 12°\$55'55 21°\$19'46 0°\$	0°37'32	minimum elong asc. node evening rise	7605 Jun 04 17:24 7605 Jun 10 13:33 7605 Jun 11 23:47 7605 Jun 13 05:53 7605 Jun 27 16:16	18°∏31'15 0°© 2°©50'23 5°©19'57 0°Ω	1°08'38
minimum elong asc. node evening rise	7604 Jun 21 06:46 7604 Jun 21 08:59 7604 Jun 25 02:46 7604 Jun 29 04:35 7604 Jul 03 12:26 7604 Jul 17 04:22	5°\$06'23 5°\$17'32 12°\$55'55 21°\$19'46 0°\$ 20°\$46'39	0°37'32	minimum elong asc. node evening rise evening max el	7605 Jun 04 17:24 7605 Jun 10 13:33 7605 Jun 11 23:47 7605 Jun 13 05:53 7605 Jun 27 16:16 7605 Jun 29 21:20	18° I 31'15 0°© 2°©50'23 5°©19'57	1°08'38
minimum elong asc. node evening rise	7604 Jun 21 06:46 7604 Jun 21 08:59 7604 Jun 25 02:46 7604 Jun 29 04:35 7604 Jul 03 12:26	5°\$06'23 5°\$17'32 12°\$55'55 21°\$19'46 0°\$	0°37'32	minimum elong asc. node evening rise	7605 Jun 04 17:24 7605 Jun 10 13:33 7605 Jun 11 23:47 7605 Jun 13 05:53 7605 Jun 27 16:16	18° II 31'15 0° S 2° S50'23 5° S19'57 0° N 2° N 25'40	1°08'38
minimum elong asc. node evening rise evening max el retrograde	7604 Jun 21 06:46 7604 Jun 21 08:59 7604 Jun 25 02:46 7604 Jun 29 04:35 7604 Jul 03 12:26 7604 Jul 17 04:22 7604 Jul 27 21:36	5°\$06'23 5°\$17'32 12°\$55'55 21°\$19'46 0°\$1 20°\$146'39 26°\$03'29	0°37'32	asc. node evening rise evening max el retrograde	7605 Jun 04 17:24 7605 Jun 10 13:33 7605 Jun 11 23:47 7605 Jun 13 05:53 7605 Jun 27 16:16 7605 Jun 29 21:20 7605 Jul 08 22:03	18°II31'15 0°S 2°S50'23 5°S19'57 0°A 2°A25'40 6°A52'54	1°08'38
minimum elong asc. node evening rise evening max el retrograde evening set	7604 Jun 21 06:46 7604 Jun 21 08:59 7604 Jun 25 02:46 7604 Jun 29 04:35 7604 Jul 03 12:26 7604 Jul 17 04:22 7604 Jul 27 21:36 7604 Jul 29 20:01	5°506'23 5°517'32 12°555'55 21°519'46 0°N 20°N46'39 26°N03'29 25°N53'56	0°37'32 20°13'20	asc. node evening rise evening max el retrograde evening set	7605 Jun 04 17:24 7605 Jun 10 13:33 7605 Jun 11 23:47 7605 Jun 13 05:53 7605 Jun 27 16:16 7605 Jun 29 21:20 7605 Jul 08 22:03 7605 Jul 10 20:01	18° II 31'15 0° 55 2° 550'23 5° 519'57 0° N 2° N 25'40 6° N 52'54 6° N 41'43	1°08'38 19°11'16
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minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	7604 Jun 21 06:46 7604 Jun 21 08:59 7604 Jun 25 02:46 7604 Jun 29 04:35 7604 Jul 03 12:26 7604 Jul 17 04:22 7604 Jul 27 21:36 7604 Jul 29 20:01 7604 Jul 30 04:14 7604 Aug 07 22:49 7604 Aug 07 15:37 7604 Aug 09 12:46 7604 Aug 16 10:02 7604 Aug 20 16:11 7604 Sep 03 05:02 7604 Sep 08 21:45 7604 Sep 21 02:13 7604 Sep 26 09:51 7604 Oct 04 10:21 7604 Oct 04 09:20 7604 Oct 06 18:27 7604 Oct 10 10:16 7604 Oct 11 12:09	5°\$06'23 5°\$17'32 12°\$55'55 21°\$19'46 0°\$\Omega\$29 26°\$\Omega\$3'56 25°\$\Omega\$5'51 22°\$\Omega\$6'29 20°\$\Omega\$5'54 17°\$\Omega\$44'47 17°\$\Omega\$33 23°\$\Omega\$42'05 0°\$\Omega\$12'20 0°\$\Omega\$29 20°\$\Omega\$17'54	0°37'32 20°13'20 -2°37'54 2°35'25 0.54970 AU 23°52'29 1°39'21 1°39'20	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	7605 Jun 04 17:24 7605 Jun 10 13:33 7605 Jun 11 23:47 7605 Jun 13 05:53 7605 Jun 27 16:16 7605 Jun 29 21:20 7605 Jul 08 22:03 7605 Jul 10 20:01 7605 Jul 17 01:16 7605 Jul 19 05:17 7605 Jul 19 05:17 7605 Jul 22 02:25 7605 Jul 23 02:20 7605 Jul 27 11:36 7605 Aug 01 13:59 7605 Aug 10 21:38 7605 Aug 10 21:38 7605 Aug 15 17:57 7605 Sep 03 08:22 7605 Sep 07 23:13 7605 Sep 17 21:26 7605 Sep 18 20:40 7605 Sep 18 18:50 7605 Sep 20 00:25	18° II 31'15 0° 50 2° 550'23 5° 519'57 0° 10 2° 125'40 6° 125'40 6° 125'40 6° 125'40 6° 137'59 30° 120 2° 133'36 0° 137'59 30° 120 2° 135'49 0° 10 8° 14'57 26° 544'58 0° 1 3° 15'49 0° 10 8° 148'37 17° 105'57 0° 12 2° 1208'04 1° 15'55'59 4° 140'41	1°08'38 19°11'16 -0°40'53 0°40'18 0.56118 AU 25°33'56
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.	7604 Jun 21 06:46 7604 Jun 21 08:59 7604 Jun 25 02:46 7604 Jun 29 04:35 7604 Jul 03 12:26 7604 Jul 17 04:22 7604 Jul 27 21:36 7604 Jul 29 20:01 7604 Jul 30 04:14 7604 Aug 07 22:49 7604 Aug 07 15:37 7604 Aug 09 12:46 7604 Aug 16 10:02 7604 Aug 20 16:11 7604 Sep 03 05:02 7604 Sep 08 21:45 7604 Sep 21 02:13 7604 Sep 26 09:51 7604 Oct 04 10:21 7604 Oct 04 09:20 7604 Oct 06 18:27 7604 Oct 11 22:09 7604 Oct 26 03:14	5°\$06'23 5°\$17'32 12°\$55'55 21°\$19'46 0°\$\Omega\$29 26°\$\Omega\$3'56 25°\$\Omega\$55'51 22°\$\Omega\$6'29 20°\$\Omega\$59'54 17°\$\Omega\$44'47 17°\$\Omega\$33 23°\$\Omega\$42'05 0°\$\Omega\$19'54 17°\$\Omega\$12'20 0°\$\Omega\$217'54 17°\$\Omega\$12'33 22°\$\Omega\$19'57 0°\$\Omega\$3\Omega\$19'57 0°\$\Omega\$3\Omega\$19'57 0°\$\Omega\$3\Omega\$19'57 0°\$\Omega\$3\Omega\$19'57	0°37'32 20°13'20 -2°37'54 2°35'25 0.54970 AU 23°52'29 1°39'21 1°39'20	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	7605 Jun 04 17:24 7605 Jun 10 13:33 7605 Jun 11 23:47 7605 Jun 13 05:53 7605 Jun 27 16:16 7605 Jun 29 21:20 7605 Jul 08 22:03 7605 Jul 10 20:01 7605 Jul 17 01:16 7605 Jul 19 07:04 7605 Jul 19 05:17 7605 Jul 22 02:25 7605 Jul 23 02:20 7605 Jul 27 11:36 7605 Aug 01 13:59 7605 Aug 10 21:38 7605 Aug 10 21:38 7605 Aug 15 17:57 7605 Sep 03 08:22 7605 Sep 07 23:13 7605 Sep 17 21:26 7605 Sep 18 20:40 7605 Sep 18 18:50 7605 Sep 20 00:25 7605 Sep 25 22:11	18° II 31'15 0° 50 2° 550'23 5° 519'57 0° 10 2° 125'40 6° 125'40 6° 125'40 6° 125'40 6° 137'59 30° 120° 137'59 30° 120° 14'57 26° 544'57 26° 544'58 0° 10 3° 157'49 0° 10 8° 10 48'37 17° 10 05'57 0° 12 2° 120'020	1°08'38 19°11'16 -0°40'53 0°40'18 0.56118 AU 25°33'56 1°31'03 1°30'52
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.	7604 Jun 21 06:46 7604 Jun 21 08:59 7604 Jun 25 02:46 7604 Jun 29 04:35 7604 Jul 03 12:26 7604 Jul 17 04:22 7604 Jul 27 21:36 7604 Jul 29 20:01 7604 Jul 30 04:14 7604 Aug 07 22:49 7604 Aug 07 15:37 7604 Aug 09 12:46 7604 Aug 16 10:02 7604 Aug 20 16:11 7604 Sep 03 05:02 7604 Sep 08 21:45 7604 Sep 21 02:13 7604 Sep 26 09:51 7604 Oct 04 10:21 7604 Oct 04 09:20 7604 Oct 06 18:27 7604 Oct 10 10:16 7604 Oct 11 22:09 7604 Oct 26 03:14 7604 Oct 26 03:14	5°\$06'23 5°\$17'32 12°\$55'55 21°\$19'46 0°\$\Omega\$29 26°\$\Omega\$3'56 25°\$\Omega\$55'51 22°\$\Omega\$6'29 20°\$\Omega\$55'54 17°\$\Omega\$44'47 17°\$\Omega\$33 23°\$\Omega\$42'05 0°\$\Omega\$19'57 0°\$\Omega\$19'57 0°\$\Omega\$19'57 0°\$\Omega\$19'57	0°37'32 20°13'20 -2°37'54 2°35'25 0.54970 AU 23°52'29 1°39'21 1°39'20 1.33091 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	7605 Jun 04 17:24 7605 Jun 10 13:33 7605 Jun 11 23:47 7605 Jun 13 05:53 7605 Jun 27 16:16 7605 Jun 29 21:20 7605 Jul 08 22:03 7605 Jul 10 20:01 7605 Jul 17 01:16 7605 Jul 19 07:04 7605 Jul 19 05:17 7605 Jul 22 02:25 7605 Jul 23 02:20 7605 Jul 27 11:36 7605 Aug 01 13:59 7605 Aug 10 21:38 7605 Aug 15 17:57 7605 Sep 03 08:22 7605 Sep 07 23:13 7605 Sep 17 21:26 7605 Sep 18 20:40 7605 Sep 18 18:50 7605 Sep 20 00:25 7605 Sep 25 22:11 7605 Oct 02 07:54	18° II 31'15 0° 50 2° 50'23 5° 50'9'57 0° N 2° N25'40 6° N52'54 6° N41'43 3° N58'26 2° N30'37 2° N33'36 0° N37'59 30° R5 27° 5044'57 26° 5044'58 0° N 3° N57'49 0° M 8° M48'37 17° M05'57 0° 50 2° \$\textit{20}\$0'04 1° \$\textit{25}\$7'59 4° \$\textit{24}\$0'11 17° \$\textit{220'20}} 0° IL	1°08'38 19°11'16 -0°40'53 0°40'18 0.56118 AU 25°33'56 1°31'03 1°30'52
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	7604 Jun 21 06:46 7604 Jun 21 08:59 7604 Jun 25 02:46 7604 Jun 29 04:35 7604 Jul 03 12:26 7604 Jul 17 04:22 7604 Jul 27 21:36 7604 Jul 29 20:01 7604 Jul 30 04:14 7604 Aug 07 22:49 7604 Aug 09 12:46 7604 Aug 09 12:46 7604 Aug 16 10:02 7604 Sep 03 05:02 7604 Sep 08 21:45 7604 Sep 21 02:13 7604 Sep 26 09:51 7604 Oct 04 10:21 7604 Oct 04 10:21 7604 Oct 10 10:16 7604 Oct 11 22:09 7604 Oct 26 03:14 7604 Oct 26 22:48 7604 Nov 14 18:52	5°\$06'23 5°\$17'32 12°\$55'55 21°\$19'46 0°\$\Omega\$29 26°\$\Omega\$3'56 25°\$\Omega\$55'51 22°\$\Omega\$6'29 20°\$\Omega\$55'54 17°\$\Omega\$44'47 17°\$\Omega\$33 23°\$\Omega\$42'05 0°\$\Omega\$19'57 0°\$\Omega\$2"\Delta\$19'57 0°\$\Omega\$2"\Delta\$19'57 0°\$\Omega\$24"\Zenta\$17'14	0°37'32 20°13'20 -2°37'54 2°35'25 0.54970 AU 23°52'29 1°39'21 1°39'20 1.33091 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	7605 Jun 04 17:24 7605 Jun 10 13:33 7605 Jun 11 23:47 7605 Jun 13 05:53 7605 Jun 27 16:16 7605 Jun 29 21:20 7605 Jul 08 22:03 7605 Jul 10 20:01 7605 Jul 17 01:16 7605 Jul 19 07:04 7605 Jul 19 05:17 7605 Jul 22 02:25 7605 Jul 23 02:20 7605 Jul 27 11:36 7605 Aug 01 13:59 7605 Aug 10 21:38 7605 Aug 10 21:38 7605 Aug 15 17:57 7605 Sep 03 08:22 7605 Sep 07 23:13 7605 Sep 17 21:26 7605 Sep 18 20:40 7605 Sep 18 20:40 7605 Sep 18 18:50 7605 Sep 20 00:25 7605 Sep 25 22:11 7605 Oct 02 07:54 7605 Oct 13 00:17	18° \$\Pi\$31'15 0°\$\Sigma 2°\$\Sigma50'23 5°\$\Sigma50'25'40 6°\$\A52'54 6°\$\A1'43 3°\$\A58'26 2°\$\A30'37 2°\$\A33'36 0°\$\A37'59 30°\$\R\$\Sigma 27°\$\Sigma44'57 26°\$\Sigma44'57 26°\$\Sigma44'57 26°\$\Sigma44'57 0°\$\Pi\$ 8°\$\Pi\$48'37 17°\$\Pi\$05'57 0°\$\Pi\$ 2°\$\Displaysigma50'04 1°\$\Displaysigma57'59 4°\$\Displaysigma60'04 18°\$\Pi\$08'00	1°08'38 19°11'16 -0°40'53 0°40'18 0.56118 AU 25°33'56 1°31'03 1°30'52
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	7604 Jun 21 06:46 7604 Jun 21 08:59 7604 Jun 25 02:46 7604 Jun 29 04:35 7604 Jul 03 12:26 7604 Jul 17 04:22 7604 Jul 27 21:36 7604 Jul 29 20:01 7604 Jul 30 04:14 7604 Aug 07 22:49 7604 Aug 07 15:37 7604 Aug 09 12:46 7604 Aug 16 10:02 7604 Aug 20 16:11 7604 Sep 03 05:02 7604 Sep 08 21:45 7604 Sep 21 02:13 7604 Sep 26 09:51 7604 Oct 04 10:21 7604 Oct 04 10:21 7604 Oct 04 09:20 7604 Oct 10 10:16 7604 Oct 11 22:09 7604 Oct 26 03:14 7604 Oct 26 22:48 7604 Nov 14 18:52 7604 Nov 22 10:41	5°\$06'23 5°\$17'32 12°\$55'55 21°\$19'46 0°\$\Omega\$29 26°\$\Omega\$3'56 25°\$\Omega\$55'51 22°\$\Omega\$6'29 20°\$\Omega\$55'54 17°\$\Omega\$44'47 17°\$\Omega\$13'33 23°\$\Omega\$42'05 0°\$\Omega\$17'54 17°\$\Omega\$12'20 0°\$\Omega\$2"\Omega\$17'54 17°\$\Omega\$18'04 17°\$\Omega\$12'33 22°\$\Omega\$19'57 0°\$\Omega\$2"\Omega\$19'57 0°\$\Omega\$2"\Omega\$17'14 0°\$\omega\$3	0°37'32 20°13'20 -2°37'54 2°35'25 0.54970 AU 23°52'29 1°39'21 1°39'20 1.33091 AU	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	7605 Jun 04 17:24 7605 Jun 10 13:33 7605 Jun 11 23:47 7605 Jun 13 05:53 7605 Jun 27 16:16 7605 Jun 29 21:20 7605 Jul 08 22:03 7605 Jul 10 20:01 7605 Jul 17 01:16 7605 Jul 19 07:04 7605 Jul 19 05:17 7605 Jul 22 02:25 7605 Jul 23 02:20 7605 Jul 27 11:36 7605 Aug 01 13:59 7605 Aug 10 21:38 7605 Aug 10 21:38 7605 Aug 15 17:57 7605 Sep 03 08:22 7605 Sep 07 23:13 7605 Sep 17 21:26 7605 Sep 18 20:40 7605 Sep 18 20:40 7605 Sep 18 18:50 7605 Sep 20 00:25 7605 Sep 25 22:11 7605 Oct 02 07:54 7605 Oct 13 00:17 7605 Oct 21 15:23	18° \$\Pi\$ 31'15 0° \$\Sigma\$ 2° \$\Sigma 50'23 5° \$\Sigma 19'57 0° \$\Omega\$ 2° \$\Omega 25'40 6° \$\Omega 52'54 6° \$\Omega 41'43 3° \$\Omega 58'26 2° \$\Omega 30'37 2° \$\Omega 33'36 0° \$\Omega 37'59 30° \$\Omega 59'44'57 26° \$\Sigma 44'57 26° \$\Sigma 44'57 26° \$\Sigma 44'57 26° \$\Sigma 44'57 0° \$\Omega 57'49 0° \$\Omega 58'04 1° \$\Omega 57'59 4° \$\Omega 40'41 17° \$\Omega 20'20 0° \$\Omega 18° \$\Omega 60'00 0° \$\ne\$	1°08'38 19°11'16 -0°40'53 0°40'18 0.56118 AU 25°33'56 1°31'03 1°30'52 1.32203 AU
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minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	7604 Jun 21 06:46 7604 Jun 21 08:59 7604 Jun 25 02:46 7604 Jun 29 04:35 7604 Jul 03 12:26 7604 Jul 17 04:22 7604 Jul 27 21:36 7604 Jul 29 20:01 7604 Jul 30 04:14 7604 Aug 07 22:49 7604 Aug 07 15:37 7604 Aug 09 12:46 7604 Aug 16 10:02 7604 Aug 20 16:11 7604 Sep 03 05:02 7604 Sep 08 21:45 7604 Sep 21 02:13 7604 Sep 26 09:51 7604 Oct 04 10:21 7604 Oct 04 10:21 7604 Oct 04 09:20 7604 Oct 10 10:16 7604 Oct 11 22:09 7604 Oct 26 03:14 7604 Oct 26 22:48 7604 Nov 14 18:52 7604 Nov 22 10:41	5°\$06'23 5°\$17'32 12°\$55'55 21°\$19'46 0°\$\Omega\$29 26°\$\Omega\$3'56 25°\$\Omega\$55'51 22°\$\Omega\$6'29 20°\$\Omega\$55'54 17°\$\Omega\$44'47 17°\$\Omega\$13'33 23°\$\Omega\$42'05 0°\$\Omega\$17'54 17°\$\Omega\$12'20 0°\$\Omega\$2"\Omega\$17'54 17°\$\Omega\$18'04 17°\$\Omega\$12'33 22°\$\Omega\$19'57 0°\$\Omega\$2"\Omega\$19'57 0°\$\Omega\$2"\Omega\$17'14 0°\$\omega\$3	0°37'32 20°13'20 -2°37'54 2°35'25 0.54970 AU 23°52'29 1°39'21 1°39'20 1.33091 AU	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	7605 Jun 04 17:24 7605 Jun 10 13:33 7605 Jun 11 23:47 7605 Jun 13 05:53 7605 Jun 27 16:16 7605 Jun 29 21:20 7605 Jul 08 22:03 7605 Jul 10 20:01 7605 Jul 17 01:16 7605 Jul 19 07:04 7605 Jul 19 05:17 7605 Jul 22 02:25 7605 Jul 23 02:20 7605 Jul 27 11:36 7605 Aug 01 13:59 7605 Aug 10 21:38 7605 Aug 10 21:38 7605 Aug 15 17:57 7605 Sep 03 08:22 7605 Sep 07 23:13 7605 Sep 17 21:26 7605 Sep 18 20:40 7605 Sep 18 20:40 7605 Sep 18 18:50 7605 Sep 20 00:25 7605 Sep 25 22:11 7605 Oct 02 07:54 7605 Oct 13 00:17 7605 Oct 21 15:23	18° \$\Pi\$ 31'15 0° \$\Sigma\$ 2° \$\Sigma 50'23 5° \$\Sigma 19'57 0° \$\Omega\$ 2° \$\Omega 25'40 6° \$\Omega 52'54 6° \$\Omega 41'43 3° \$\Omega 58'26 2° \$\Omega 30'37 2° \$\Omega 33'36 0° \$\Omega 37'59 30° \$\Omega 59'44'57 26° \$\Sigma 44'57 26° \$\Sigma 44'57 26° \$\Sigma 44'57 26° \$\Sigma 44'57 0° \$\Omega 57'49 0° \$\Omega 58'04 1° \$\Omega 57'59 4° \$\Omega 40'41 17° \$\Omega 20'20 0° \$\Omega 18° \$\Omega 60'00 0° \$\ne\$	1°08'38 19°11'16 -0°40'53 0°40'18 0.56118 AU 25°33'56 1°31'03 1°30'52 1.32203 AU

evening max el	7607 Sep 22 03:02	0°M26'46	25°39'18	evening max el	7608 Sep 02 16:02	10° ≙ 58'40	24°07'58
retrograde	7607 Oct 06 01:30	7°M30'21		desc. node	7608 Sep 02 15:27	10° ≏ 57'15	
evening set	7607 Oct 12 04:06	6°M03'06		retrograde	7608 Sep 16 09:39	17° ≏ 51'54	
min. Earth dist.	7607 Oct 16 15:20	3°M26'19	0.58018 AU	evening set	7608 Sep 21 05:20	17° ჲ 00'43	
inferior conj	7607 Oct 19 17:18	1°M16'20		min. Earth dist.	7608 Sep 27 02:49	14° ≏ 05'18	0.56238 AU
minimum elong	7607 Oct 19 22:45	1°M06'42	5°10'12	inferior conj	7608 Sep 29 12:00	12° ≏ 37'07	
	7607 Oct 21 13:29	30°Ŗ Ω		minimum elong	7608 Sep 29 11:48	12° ≏ 37'27	5°31'28
morning rise	7607 Oct 27 19:45	26° ≏ 56'58		morning rise	7608 Oct 07 20:26	8° ≏ 38'03	
direct	7607 Oct 30 04:38	26° ≏ 39'26		direct	7608 Oct 10 13:31	8° ≏ 18'52	
	7607 Nov 06 22:04	0°M		morning max el	7608 Oct 20 12:29	12° ≏ 59'46	19°48'42
morning max el	7607 Nov 07 18:23	0°M46'23	18°47'30	asc. node	7608 Oct 25 13:42	18° ≏ 53'59	
asc. node	7607 Nov 08 16:42	1°M42'39			7608 Nov 01 08:57	0°M	
morning set	7607 Nov 24 03:08	27°M00'26		morning set	7608 Nov 07 07:01	11°M33'01	
	7607 Nov 25 15:47	0° ∡ 7			7(00) 17 02 21	270 M 21120	1021156
	7(07 D 02 1(-27	120.727120	1015126	superior conj	7608 Nov 15 02:31	27°M21'29	1°31'56
superior conj	7607 Dec 02 16:37 7607 Dec 02 19:57	13° 尽 37'29 13° 尽 53'14	1°15'26 1°15'09	minimum elong	7608 Nov 15 04:48 7608 Nov 16 10:37	27° M 32'49 0° ₹	1°31'51
minimum elong	7607 Dec 02 19:37 7607 Dec 09 19:38	15 x · 33 14 26° x ⁷ 40′18	1.39445 AU	max. Earth dist.		0 x . 8° x 751′02	1.37312 AU
max. Earth dist.	7607 Dec 19 19:38 7607 Dec 11 17:18	26° メ '4018	1.39443 AU	evening rise	7608 Nov 21 01:22 7608 Nov 24 19:31	15° × 43'31	1.3/312 AU
evening rise	7607 Dec 11 17:18	3°る32'30		desc. node	7608 Nov 24 19.31 7608 Nov 29 14:31	24° 🗷 03'38	
desc. node	7607 Dec 13 17:30	3°る230		desc. Hode	7608 Nov 29 14.31 7608 Dec 03 04:37	24 メ ・03 38	
desc. node	7607 Dec 30 16:46	0°≈			7608 Dec 24 07:04	0°≈	
evening max el	7608 Jan 17 21:43	0 ∞ 22°≈57'08	24°14'27	evening max el	7608 Dec 24 07:04 7608 Dec 30 10:50	6°≈44'20	25°29'04
retrograde	7608 Jan 29 03:53	22 ≈37 08 29°≈33'27	24 142/	retrograde	7609 Jan 11 15:42	13°≈45'23	23 27 04
evening set	7608 Feb 03 12:17	27°≈19'41		evening set	7609 Jan 17 13:42	11°≈19'31	
asc. node	7608 Feb 04 15:53	26°≈14'58		asc. node	7609 Jan 21 12:56	7°≈00'54	
min. Earth dist.	7608 Feb 08 04:48	21°≈56'41	0.68052 AU	min. Earth dist.	7609 Jan 21 22:22	6°≈31'05	0.67384 AU
inferior conj	7608 Feb 09 00:07	20°≈51'34	1°23'42	inferior conj	7609 Jan 23 04:57	4°≈52'51	0°33'12
minimum elong	7608 Feb 08 22:20	20°≈57'35	1°23'05	minimum elong	7609 Jan 23 04:08	4°≈55'30	0°32'57
morning rise	7608 Feb 14 08:27	14° ≈ 49'42			7609 Jan 27 11:52	30°R₹	
direct	7608 Feb 18 06:07	13° ≈ 22'50		morning rise	7609 Jan 28 19:35	28° る 58'59	
morning max el	7608 Feb 26 00:12	17° ≈ 46′21	20°14'16	direct	7609 Feb 01 05:16	27° る 52'22	
C	7608 Mar 06 20:05	0°) €			7609 Feb 06 06:25	0°≈	
desc. node	7608 Mar 10 16:57	5°) 32′01		morning max el	7609 Feb 08 05:12	1°≈44'16	19°13'01
morning set	7608 Mar 24 21:06	26°) 53′16		greatest brilliancy	7609 Feb 21 12:48	19° ≈ 31'18	-0.7m
	7608 Mar 26 21:17	$0^{\circ}\mathbf{Y}$		desc. node	7609 Feb 25 13:55	25° ≈ 40′21	
max. Earth dist.	7608 Apr 03 19:21	12° Y 29'44	1.43810 AU		7609 Feb 28 09:31	0° ∀	
				morning set	7609 Mar 03 21:41	5°) 24′56	
superior conj	7608 Apr 09 18:12	22° Y 09'36	-2°11'15	max. Earth dist.	7609 Mar 17 10:07	26°) 29'48	1.44999 AU
minimum elong	7608 Apr 09 18:55	22° Y 12'37	2°11'17		7609 Mar 19 15:21	$0^{\circ}\Upsilon$	
	7608 Apr 14 11:09	9° 8					
evening rise	7608 Apr 22 12:18	13° 8 47'36		superior conj	7609 Mar 20 13:04	1° Y 26'02	
	7608 May 02 00:35	Π $^{\circ}0$		minimum elong	7609 Mar 20 06:54	1° Y 01'37	2°03'16
asc. node	7608 May 02 14:55	0° ∏ 57′20		evening rise	7609 Apr 04 00:56	24° Y 54'12	
evening max el	7608 May 09 23:36	10° ∏ 48'30	18°07'14		7609 Apr 07 02:58	0° 8	
retrograde	7608 May 16 09:50	14° ∏ 09′23		asc. node	7609 Apr 19 11:58	19° 8 25'36	
evening set	7608 May 19 04:33	13° Ⅱ 30'36		evening max el	7609 Apr 23 12:28	24° 8 14'21	18°24'02
inferior conj	7608 May 25 10:58		2°57'22	retrograde	7609 Apr 29 22:53	27° 8 42'33	
minimum elong	7608 May 25 13:26		2°56'49	evening set	7609 May 03 00:39	26° 8 50'27	202010.4
min. Earth dist.	7608 May 28 08:28	5° Ⅱ 19'42 2° Ⅱ 14'41	0.62357 AU	inferior conj	7609 May 08 20:35	21° 8 22'18	3°20'04
morning rise	7608 May 31 20:35 7608 Jun 05 12:42	2 д1441 30° қ		minimum elong min. Earth dist.	7609 May 08 21:43 7609 May 11 03:29	21° 8 19'00 18° 8 42'49	3°19'53 0.64365 AU
desc. node	7608 Jun 06 16:22	29° 8 48'51		morning rise	7609 May 14 17:51	15° 8 08'09	0.04303 AU
direct	7608 Jun 07 15:12	29° 8 46'02		direct	7609 May 21 11:08	13 8 08 09	
direct	7608 Jun 09 19:09	0° Ⅱ		desc. node	7609 May 24 13:23	12° 8 54'34	
morning max el	7608 Jun 21 17:37	7° Ⅱ 48'13	27°54'10	morning max el	7609 Jun 04 02:57	20° 8 22'29	27°28'20
morning max ci	7608 Jul 08 17:32	7 11 40 13	2/ 5410	morning max ci	7609 Jun 12 09:14	0°II	21 20 20
	7608 Jul 25 11:06	0°Ω			7609 Jul 01 19:23	0ಂ ತಾ	
morning set	7608 Jul 25 15:35	0° Ω 22'44		morning set	7609 Jul 09 07:47	14° 5 03'49	
asc. node	7608 Jul 29 14:13	8° Ω 34'58		max. Earth dist.	7609 Jul 14 02:06	23°5641'44	1.33177 AU
max. Earth dist.	7608 Jul 31 02:57	11° Ω 51'36	1.32235 AU	asc. node	7609 Jul 16 11:12	28°541'14	
		552250				. =	
superior conj	7608 Aug 02 05:06	16° Ω 23'30	0°36'21	superior conj	7609 Jul 17 10:08	0° Ω 43'07	0°09'45
minimum elong	7608 Aug 02 03:30	16° Ω 14'51	0°35'58	minimum elong	7609 Jul 17 09:39	0° Ω 40'32	0°09'33
Į.	7608 Aug 08 10:48	0° mp		behind sun begin	7609 Jul 17 05:15	0° Ω 17'02	
evening rise	7608 Aug 09 01:35	1° m 19'22		behind sun end	7609 Jul 17 14:04	1° Ω 04'04	
	7608 Aug 24 16:06	0∘ ⊽			7609 Jul 17 02:03	$0^{\circ}\Omega$	

evening rise	7609 Jul 24 12:58	15° Ω 58'46		evening rise	7610 Jul 08 22:14	0° Ω 27'59	
evening rise	7609 Jul 31 12:13	0° m)		evening rise	7610 Jul 08 16:51	0° Ω	
evening max el	7609 Aug 15 04:31	21° Mp 13'10	22°28'59		7610 Jul 26 09:04	0° m)	
desc. node	7609 Aug 20 12:30	25° m) 25'16		evening max el	7610 Jul 28 01:08	1° mp 45'27 20°58'00	
retrograde	7609 Aug 28 05:13	27° m/42'39		desc. node	7610 Aug 07 09:33	7° m/28'19	
evening set	7609 Aug 31 12:43	27° mp 18'32		retrograde	7610 Aug 08 17:50	7° m 32'47	
min. Earth dist.	7609 Sep 08 11:24		0.55048 AU	evening set	7610 Aug 10 22:58	7° m) 21'09	
inferior conj	7609 Sep 09 12:48	23° m) 13'07		inferior conj	7610 Aug 20 05:23	3° m/23'59 -3°41'50	
minimum elong	7609 Sep 09 05:31	23° M) 23'26		minimum elong	7610 Aug 19 20:11	3°m/37'00 3°39'04	
morning rise	7609 Sep 18 00:10	19° m) 24'49	5 021.	min. Earth dist.	7610 Aug 20 20:36	3° mp 02'26 0.54714 A	ΔIJ
direct	7609 Sep 21 05:19	19° m) 01'22		min. Darvir Gige.	7610 Aug 27 00:38	30°R Ω	•
morning max el	7609 Oct 02 17:43	24° M) 24'56	21°11'46	morning rise	7610 Aug 28 17:42	29° Ω 27'19	
morning max or	7609 Oct 07 17:11	0° ⊽	21 11 10	direct	7610 Sep 01 13:22	28° Ω 56′05	
asc. node	7609 Oct 12 10:42	° − 6° ₽ 57'59		ancer	7610 Sep 06 21:20	0° m	
morning set	7609 Oct 12 15:30	26° ⊆ 17'27		morning max el	7610 Sep 14 11:59	5° m 06'45 22°51'46	
morning set	7609 Oct 24 10:08	0°M		asc. node	7610 Sep 29 07:41	25° m/42'03	
	7007 001 24 10.00	0 110		ase. Hode	7610 Oct 01 14:52	ე° 亞	
superior conj	7609 Oct 29 23:06	11°MJ35'56	1°40'18	morning set	7610 Oct 07 17:32	° – 11° ≏ 07'26	
minimum elong	7609 Oct 30 00:01	11°M40'40	1°40'20	morning set	7010 000 07 02.20	11 =07 20	
max. Earth dist.	7609 Nov 03 11:31	20°M45'43	1.35376 AU	superior conj	7610 Oct 14 03:01	26° ≙ 10'37 1°41'32	
evening rise	7609 Nov 07 14:14	28°M42'50	1.55570 AO	minimum elong	7610 Oct 14 03:01 7610 Oct 14 02:38	26° 2 08'33 1°41'34	
evening rise	7609 Nov 07 14:14 7609 Nov 08 06:42	28 11 6 42 30 0° √		minimum ciong	7610 Oct 14 02:38 7610 Oct 15 22:13	0°M	
4 4-				Double diet			
desc. node	7609 Nov 16 11:32	14° ₹ 29'40		max. Earth dist.	7610 Oct 17 05:25		W
	7609 Nov 26 10:11	0°る	26021105	evening rise	7610 Oct 21 23:04	12°M20'06	
evening max el	7609 Dec 13 00:01	20°₹29'05	26°31'05		7610 Oct 31 13:48	0° ∡ 7	
retrograde	7609 Dec 25 22:13	27°る44'07		desc. node	7610 Nov 03 08:33	4° ₹38'35	
evening set	7610 Jan 01 08:01	25° ⋜ 09'40			7610 Nov 21 15:40	0° 궁	
min. Earth dist.	7610 Jan 05 10:53	20° ප් 56'13	0.66346 AU	evening max el	7610 Nov 25 12:50	4°る01'14 27°13'13	
inferior conj	7610 Jan 07 05:01	18° ろ 49'47		retrograde	7610 Dec 08 22:55	11° る 21'07	
minimum elong	7610 Jan 07 05:41	18° る 47'47	0°24'00	evening set	7610 Dec 15 19:01	8° ろ 43'59	
asc. node	7610 Jan 08 09:59	17° 云 24'00		min. Earth dist.	7610 Dec 19 16:06	5° 전 04'41 0.64954 A	٨U
morning rise	7610 Jan 13 04:10	13° ろ 06'20		inferior conj	7610 Dec 21 22:01	2° ප 36'26 -1°28'06	
direct	7610 Jan 16 03:28	12° る 16'50		minimum elong	7610 Dec 22 00:39	2° る 29'10 1°26'53	
morning max el	7610 Jan 22 16:59	15° る 49'19	18°27'52		7610 Dec 24 09:28	30° Ŗ∡ 7	
	7610 Feb 02 06:24	0° ≈		asc. node	7610 Dec 26 07:02	28° ∡ ¹20'32	
morning set	7610 Feb 11 21:05	15° ≈ 09'57		morning rise	7610 Dec 28 07:39	27° ∡ ¹06′06	
desc. node	7610 Feb 12 10:54	16° ≈ 04'53		direct	7610 Dec 30 22:30	26° ⋌ ³30′00	
	7610 Feb 21 06:05	0° ∀			7611 Jan 06 11:27	0° る	
				morning max el	7611 Jan 06 09:01	29° ₹ 153′58 17°59′24	
superior conj	7610 Feb 27 18:05	10° ₩ 11'54	-1°35'55	morning set	7611 Jan 24 02:00	26° る 22'36	
minimum elong	7610 Feb 27 08:29	9° ∺ 34'16	1°34'55		7611 Jan 26 06:30	0° ≈	
max. Earth dist.	7610 Feb 28 05:10		1.45480 AU	desc. node	7611 Jan 30 07:52	6° ≈ 40'04	
	7610 Mar 12 08:57	0 ° Υ					
evening rise	7610 Mar 15 14:14	5° Ƴ 04'59		superior conj	7611 Feb 07 04:12	19° ≈ 18'49 -0°54'13	
greatest brilliancy	7610 Mar 25 03:21	20° Ƴ 07'56	-0.8m	minimum elong	7611 Feb 06 21:50	18° ≈ 53'29 0°53'18	
	7610 Mar 31 16:54	$_{0\circ}$ 8		max. Earth dist.	7611 Feb 11 00:50	25°≈25'08 1.45208 A	١U
asc. node	7610 Apr 06 09:01	7° 8 12'08			7611 Feb 13 22:57	0° ∀	
evening max el	7610 Apr 06 22:39	7° 8 47'37	18°58'28	evening rise	7611 Feb 23 08:17	14° ¥ 33'36	
retrograde	7610 Apr 13 17:53	11° 8 35'50			7611 Mar 05 10:39	0° Υ	
evening set	7610 Apr 17 03:00	10° 8 29'38		greatest brilliancy	7611 Mar 09 10:03	5° Υ 56′21 -0.6m	
inferior conj	7610 Apr 22 16:01	4° 8 45'01	3°25'14	evening max el	7611 Mar 21 04:18	21° Y 24'02 19°49'20	
minimum elong	7610 Apr 22 15:48	4° 8 45'44	3°25'11	asc. node	7611 Mar 24 06:05	24° Y '04'27	
min. Earth dist.	7610 Apr 24 07:27	2° 8 40'28	0.66010 AU	retrograde	7611 Mar 28 15:52	25° Ƴ 42'57	
	7610 Apr 26 14:24	30° ₹Ƴ		evening set	7611 Apr 01 09:06	24° Y '22'13	
morning rise	7610 Apr 28 04:08	28° Ƴ 27'49		inferior conj	7611 Apr 06 18:10	18° Y 23'05 3°16'39	
direct	7610 May 04 14:01	25° Ƴ 40'46		minimum elong	7611 Apr 06 16:52	18° Y 27′28 3°16′29	
desc. node	7610 May 11 10:25	28° Ƴ 09'37		min. Earth dist.	7611 Apr 07 18:53	17° Y ′00′23 0.67222 A	١U
	7610 May 13 21:27	0° 8		morning rise	7611 Apr 12 00:21	12° Y ′06′09	
morning max el	7610 May 17 13:23	3° 8 23'05	26°32'21	direct	7611 Apr 17 23:01	9° Y 26'57	
Ç	7610 Jun 06 16:55	0°II		desc. node	7611 Apr 28 07:25	15° Ƴ 01'57	
morning set	7610 Jun 22 12:31	27° Ⅱ 08'55		morning max el	7611 Apr 29 23:03	16° Υ 38'26 25°15'15	
<i>5</i>	7610 Jun 24 00:29	0°9		<i>5</i> +-	7611 May 11 01:06	0°8	
max. Earth dist.	7610 Jun 26 14:59		1.34597 AU		7611 May 30 15:44	0°II	
Zarar dibt.	20 11.09		, 110	morning set	7611 Jun 05 01:30	9° П 26'49	
superior conj	7610 Jul 01 08:44	14°939'26	-0°19'55	max. Earth dist.	7611 Jun 08 17:10	16° Д 08'27 1.36455 А	ΑU
minimum elong	7610 Jul 01 09:51	14°935'12		Durin dist.	,011.001 00 17.10	1.50-55 F	
asc. node	7610 Jul 03 08:12	18°945'56	3 17 70	superior conj	7611 Jun 14 22:04	28° Д 05'28 -0°51'14	
asc. nouc	7010 Jul 03 00.12	10 -10 00		superior conj	/011 Juli 17 22.04	20 <u>11</u> 0320 -0 3114	

	7611 1 15 01 00	2001120127	0050147		7(12 M 27 22 22	100 T 51154	1022102
minimum elong	7611 Jun 15 01:08	28° Ⅱ 20'37 0° ©	0°50'4/	superior conj	7612 May 27 22:32	10° I I51'54	
	7611 Jun 15 21:07			minimum elong	7612 May 28 03:26	11° Ⅱ 14'59 28° Ⅱ 29'36	1°21'27
asc. node	7611 Jun 20 05:13 7611 Jun 23 03:13	8°945'23 14°940'57		evening rise	7612 Jun 06 01:09 7612 Jun 06 02:15	28° II 29'36 28° II 35'00	
evening rise	7611 Jul 23 03:13	14 3 40 37		asc. node	7612 Jun 06 02:13	28 п 3300 0° 9	
evening max el	7611 Jul 10 10:47	12° Ω 58'58	19°44'26	evening max el	7612 Jun 22 08:39	0 55 24°556'16	18°51'16
retrograde	7611 Jul 20 10:38	12 δί 38 38 17° Ω 54'17	19 44 20	retrograde	7612 Jun 30 18:22	24 \$36 16 29°\$05'25	18 31 10
evening set	7611 Jul 20 10.38 7611 Jul 22 07:14	17 δί 34 17 17° Ω 44'48		evening set	7612 Jul 02 18:29	29 503 23 28°552'09	
desc. node	7611 Jul 25 06:37	16°Ω53'35		inferior conj	7612 Jul 10 21:11	28 \$32 09 24° \$33'41	0°04'54
inferior conj	7611 Jul 31 04:24	10 δι 33 33	1947'40	minimum elong	7612 Jul 10 21:11 7612 Jul 10 21:23	24 \$33 41 24° \$33'20	0°04'43
minimum elong	7611 Jul 30 23:27	$13^{\circ} \Omega 50'10$		transit middle	7612 Jul 10 21:23	24°S33'20	0°04'43
min. Earth dist.	7611 Jul 30 23.27 7611 Aug 02 08:39	$13^{\circ} \Omega 20^{\circ} 10^{\circ}$ $12^{\circ} \Omega 21'34$	0.55344 AU	transit iniquie	7612 Jul 10 21:23	24°939'43	0 0443
morning rise	7611 Aug 02 08:39 7611 Aug 08 13:31	9° Ω 17'24	0.33344 AU	transit end	7612 Jul 11 00:56	24 \$3943 24°\$26'56	
direct	_	9 δι 17 24 8° Ω 30'41		desc. node	7612 Jul 11 00:36 7612 Jul 11 03:42	24 \$20 30 24°\$21'57	
	7611 Aug 13 03:45	8 8€3041 15° Ω 24'42	24927!11		7612 Jul 11 03:42 7612 Jul 14 00:25	24 \$21 37 22°\$19'26	0.56927 ATT
morning max el	7611 Aug 27 01:00	0° m)	24 3/11	min. Earth dist.		19° © 31'54	0.56827 AU
aga mada	7611 Sep 07 15:58			morning rise	7612 Jul 18 20:52		
asc. node	7611 Sep 16 04:41	14° Mp 56'03		direct	7612 Jul 24 08:08	18°5519'49	26011152
morning set	7611 Sep 21 14:15	25° m 57'51		morning max el	7612 Aug 07 15:17	25° © 45'47	26°11'52
	7611 Sep 23 11:20	0∘ ⊽			7612 Aug 11 14:56	$\Omega^{\circ}\Omega$	
	7(11.0 20.11.41	100 0 57122	1027121	,	7612 Aug 30 19:13	0° Mp	
superior conj	7611 Sep 28 11:41	10° £ 57'33	1°36'31	asc. node	7612 Sep 02 01:41	4° Mp 31'17	
minimum elong	7611 Sep 28 10:16	10° £ 49'51	1°36'26	morning set	7612 Sep 05 01:06	10° m 42'53	
max. Earth dist.	7611 Sep 30 07:21	14° £ 55'03	1.32649 AU				
evening rise	7611 Oct 05 18:29	26° £ 26'07		superior conj	7612 Sep 11 22:51	25° m 48'47	1°25'55
	7611 Oct 07 12:56	0° M ₊		minimum elong	7612 Sep 11 20:48	25° m 37'26	1°25'40
desc. node	7611 Oct 21 05:36	24°M23'06		max. Earth dist.	7612 Sep 12 15:12	27° m 19'11	1.31954 AU
	7611 Oct 24 22:32	0° ∡ ¹			7612 Sep 13 20:23	0∘ ত	
evening max el	7611 Nov 07 23:57	17° ∡ 09'53	27°28'43	evening rise	7612 Sep 18 21:23	10° ≙ 51'25	
retrograde	7611 Nov 21 17:13	24° ∡ ¹27'41			7612 Sep 28 18:33	0°M₊	
evening set	7611 Nov 28 19:21	21° ∡ ¹56'32		desc. node	7612 Oct 07 02:41	13°M32'27	
min. Earth dist.	7611 Dec 02 12:13	18° ∡ °48′05	0.63240 AU	evening max el	7612 Oct 20 07:06	29° M 41'59	27°12'21
inferior conj	7611 Dec 05 05:19	16° ∡ ¹06'54			7612 Oct 20 14:48	0°⊀	
minimum elong	7611 Dec 05 10:09	15° ∡ 54′52	2°33'55	retrograde	7612 Nov 03 04:00	6° ≯ 53'50	
morning rise	7611 Dec 12 02:52	10° ∡ 52'37		evening set	7612 Nov 10 05:21	4° ⋌ ³39'27	
asc. node	7611 Dec 13 04:05	10° ∡ ³34'19		min. Earth dist.	7612 Nov 13 21:51	1° ≯ 754'25	0.61271 AU
direct	7611 Dec 14 11:36	10° ∡ ′26′02			7612 Nov 16 02:22	30°RM	
morning max el	7611 Dec 21 02:20	13° ₹ ′50'48	17°48'14	inferior conj	7612 Nov 16 23:42	29°M12'49	
	7612 Jan 01 06:16	0° ප		minimum elong	7612 Nov 17 06:23	28°M58'10	3°41'35
morning set	7612 Jan 06 08:33	8° る 49'13		morning rise	7612 Nov 24 09:37	24°M17'45	
desc. node	7612 Jan 17 04:51	27° る 22'06		direct	7612 Nov 26 15:19	23°M57'02	
				asc. node	7612 Nov 29 01:08	24°M21'58	
superior conj	7612 Jan 18 11:18	29° る 28'28		morning max el	7612 Dec 03 17:39	27°M31'10	17°55'27
minimum elong	7612 Jan 18 10:21	29° る 24'30	0°08'58		7612 Dec 05 23:15	0°⊀	
behind sun begin	7612 Jan 18 02:27	28° る 51'49		morning set	7612 Dec 19 10:12	22° ≯ 10'11	
behind sun end	7612 Jan 18 18:15	29° る 57'08			7612 Dec 23 17:21	0°₹	
	7612 Jan 18 18:56	0° ≈					
max. Earth dist.	7612 Jan 24 18:16	9° ≈ 42'02	1.44230 AU	superior conj	7612 Dec 29 20:19	10° ප 52'47	
evening rise	7612 Feb 02 19:10	23°≈52'13		minimum elong	7612 Dec 29 22:50	11° ろ 03'44	0°30'29
	7612 Feb 06 19:24	0° ∀		desc. node	7613 Jan 03 01:51	18° る 07'37	
	7612 Feb 27 18:55	0° Υ		max. Earth dist.	7613 Jan 06 08:04		1.42660 AU
evening max el	7612 Mar 03 04:31	5° Y 01'54	20°54'07		7613 Jan 10 07:18	0° ≈	
asc. node	7612 Mar 10 03:11	9° Ƴ 47'44		evening rise	7613 Jan 12 14:31	3° ≈ 39'30	
retrograde	7612 Mar 11 14:21	9° Ƴ 58'51			7613 Jan 30 04:51	0° ∀	
evening set	7612 Mar 15 16:55	8° Y 23′08		evening max el	7613 Feb 13 23:39	18°) 41′59	22°08'58
inferior conj	7612 Mar 21 00:29	2° Y 11'53		retrograde	7613 Feb 23 11:30	24° ℋ 19'44	
minimum elong	7612 Mar 20 22:28	2° Υ 18'49		asc. node	7613 Feb 25 00:16	24°) €07'41	
min. Earth dist.	7612 Mar 21 11:43		0.67994 AU	evening set	7613 Feb 28 00:47	22° ∺ 28'48	
	7612 Mar 22 15:04	30° ₹ ₩		inferior conj	7613 Mar 05 08:47	16° ₩ 08'12	
morning rise	7612 Mar 26 03:47	25° ¥ 57'18		minimum elong	7613 Mar 05 06:30	16° 升 16′10	2°26'47
direct	7612 Mar 31 13:05	23° ∺ 34'07		min. Earth dist.	7613 Mar 05 07:36		0.68338 AU
	7612 Apr 11 07:45	$\mathbf{\gamma}$ 00		morning rise	7613 Mar 10 12:02	9°) 57′35	
morning max el	7612 Apr 11 07:59	0° Y 00′35	23°47'12	direct	7613 Mar 15 07:15	7° ∺ 55′20	
desc. node	7612 Apr 14 04:24	3° Y 04'33		morning max el	7613 Mar 24 19:02	13°) € 30′03	22°18'11
	7612 May 03 21:33	9° 8		desc. node	7613 Apr 01 01:23	21°) 57'54	
morning set	7612 May 16 17:13	20° 8 42'16			7613 Apr 07 00:24	$0^{\circ}\mathbf{\Upsilon}$	
max. Earth dist.	7612 May 20 13:04	27° 8 21'06	1.38623 AU		7613 Apr 26 19:59	9° 8	
	7612 May 22 00:47	$\Pi^{\circ}0$		morning set	7613 Apr 27 06:24	0° 8 42'15	

7615 Mar 24 10:41

 $0^{\circ}\Upsilon$

7614 Mar 31 13:05

 $0^{\circ}\Upsilon$

max. Earth dist.	7615 Mar 28 02:10	5° Ƴ 45'19	1.44400 AU		7616 Feb 06 02:25	0° ≈	
				desc. node	7616 Feb 20 16:17	21° ≈ 39'32	
superior conj	7615 Apr 01 22:56	13° Y 33'05	-2°10'27	morning set	7616 Feb 23 22:13	26° ≈ 43'36	
minimum elong	7615 Apr 01 20:48	13° Ƴ 24'28	2°10'27		7616 Feb 26 00:31	0° ∀	
	7615 Apr 11 22:08	0°8		max. Earth dist.	7616 Mar 09 18:35	19° ¥ 56′29	1.45288 AU
evening rise	7615 Apr 15 11:06	5° 8 59'08					
asc. node	7615 Apr 27 17:24	26° 8 13'09		superior conj	7616 Mar 11 10:04	22° ∺ 31'31	-1°54'07
	7615 Apr 30 09:29	$\Pi^{\circ}0$		minimum elong	7616 Mar 11 01:38	21° ¥ 58′22	1°53'30
evening max el	7615 May 03 16:10	3° Ⅱ 50′05	18°12'04		7616 Mar 16 03:46	0 ° Υ	
retrograde	7615 May 10 01:30	7° Ⅱ 12'48		evening rise	7616 Mar 26 13:47	16° Ƴ 41'22	
evening set	7615 May 12 23:06	6° Ⅱ 28'35			7616 Apr 03 19:28	0°8	
inferior conj	7615 May 19 00:35	1° Ⅱ 10′32	3°09'24	asc. node	7616 Apr 13 14:27	14° 8 25'26	
minimum elong	7615 May 19 02:32	1° Ⅱ 05'11	3°09'03	evening max el	7616 Apr 16 04:11	17° 8 20'07	18°36'35
	7615 May 20 02:05	30° ₹8		retrograde	7616 Apr 22 17:30	20° 8 55'34	
min. Earth dist.	7615 May 21 16:08	28° 8 16'30	0.63247 AU	evening set	7616 Apr 25 22:14	19° 8 57'43	
morning rise	7615 May 25 04:34	24° 8 59'56		inferior conj	7616 May 01 14:51	14° 8 22'35	3°24'07
direct	7615 May 31 23:17	22° 8 23'17		minimum elong	7616 May 01 15:23	14° 8 20'58	3°24'02
desc. node	7615 Jun 01 18:48	22° 8 25'23		min. Earth dist.	7616 May 03 15:16	11° 8 56'21	0.65113 AU
	7615 Jun 14 11:49	$\Pi^{\circ}0$		morning rise	7616 May 07 07:49	8° 8 06'27	
morning max el	7615 Jun 14 22:13	0° Ⅱ 25'51	27°47'21	direct	7616 May 13 22:35	5° 8 19'17	
	7615 Jul 06 13:41	0 \circ \odot		desc. node	7616 May 18 15:49	6° 8 30'19	
morning set	7615 Jul 19 10:36	23° © 35'55		morning max el	7616 May 27 08:21	13° 8 13'24	27°07'38
	7615 Jul 22 13:47	$0^{\circ}\Omega$			7616 Jun 09 20:27	Π $^{\circ}0$	
max. Earth dist.	7615 Jul 24 14:50	4° Ω 18′00	1.32574 AU		7616 Jun 28 04:41	0	
asc. node	7615 Jul 24 16:39	4° Ω 27'37		morning set	7616 Jul 01 22:26	7° © 03'37	
				max. Earth dist.	7616 Jul 06 09:41	15° © 55'41	1.33720 AU
superior conj	7615 Jul 27 05:01	9° Ω 51′29	0°25'29				
minimum elong	7615 Jul 27 03:50	9° Ω 45'05	0°25'09	superior conj	7616 Jul 10 07:41	24° © 02'34	-0°02'33
evening rise	7615 Aug 03 03:44	24° Ω 54'31		minimum elong	7616 Jul 10 07:49	24° © 03'19	0°02'38
	7615 Aug 05 13:51	O° Mp		behind sun begin	7616 Jul 10 02:16	23° © 34'09	
	7615 Aug 23 22:21	0∘ ट		behind sun end	7616 Jul 10 13:21	24°532'30	
evening max el	7615 Aug 26 11:17	2° £ 39'45	23°25'45	asc. node	7616 Jul 10 13:39	24°534'02	
desc. node	7615 Aug 28 17:52	4° ≏ 42'02			7616 Jul 13 03:07	0 $^{\circ}\Omega$	
retrograde	7615 Sep 08 23:52	9° ≏ 26'01		evening rise	7616 Jul 17 14:29	9° Ω 30'32	
evening set	7615 Sep 13 03:52	8° ≏ 48'00			7616 Jul 28 07:15	0° m	
min. Earth dist.	7615 Sep 19 20:55	5° £ 39'39	0.55633 AU	evening max el	7616 Aug 07 02:24	12°M 58'31	21°48'37
inferior conj	7615 Sep 21 18:26	4° £ 32′29		desc. node	7616 Aug 14 14:55	18° Mp 12'04	
minimum elong	7615 Sep 21 15:01	4° £ 37'32	5°26'06	retrograde	7616 Aug 19 15:32	19° m 12'01	
morning rise	7615 Sep 30 04:25	0° ≙ 40'03		evening set	7616 Aug 22 09:28	18° m 55'04	
direct	7615 Oct 03 02:03	0° £ 19'34		min. Earth dist.	7616 Aug 31 05:53	~	0.54790 AU
morning max el	7615 Oct 13 17:06	5° £ 17'43	20°21'37	inferior conj	7616 Aug 31 14:13	14° m 54'51	
asc. node	7615 Oct 20 16:09	13° ≙ 49'23		minimum elong	7616 Aug 31 05:12	15° Mp 07'28	4°32'41
	7615 Oct 29 18:20	0°M		morning rise	7616 Sep 09 02:11	11° m 05'10	
morning set	7615 Nov 01 07:23	5° ™ 08'47		direct	7616 Sep 12 13:00	10°Mp39'01	
				morning max el	7616 Sep 24 17:15	16° m 23'14	21°52'41
superior conj	7615 Nov 08 21:11	20°M42'38	1°36'25		7616 Oct 05 05:45	0∘ ⊽	
minimum elong	7615 Nov 08 22:53	20°M51'17	1°36'23	asc. node	7616 Oct 06 13:09	2° Ω 11'38	
To all the	7615 Nov 13 13:47	0° ∡ 7	1 26445 433	morning set	7616 Oct 15 17:08	19° Ω 55'43	
max. Earth dist.	7615 Nov 14 05:39	1°×716'19	1.36445 AU		7616 Oct 20 11:16	0°M	
evening rise	7615 Nov 18 02:14	8° × 30'01			7(1(0) + 22 21 15	50 m 06124	1041127
desc. node	7615 Nov 24 16:53	20° メ 06'31 0°る		superior conj	7616 Oct 22 21:15	5°M06'24	
	7615 Nov 30 19:17		25057125	minimum elong	7616 Oct 22 21:35	5°M08'11	1°41'41
evening max el	7615 Dec 23 17:01	29° る 55'58	25°57'25	max. Earth dist.	7616 Oct 26 18:34	13°M08'35	1.34656 AU
	7615 Dec 23 18:41	0°≈		evening rise	7616 Oct 31 03:28	21°M46'38	
retrograde	7616 Jan 05 06:12	7°≈05'10		1 1	7616 Nov 04 13:20	0° ⊼ ¹	
evening set	7616 Jan 11 08:56	4°≈34'54	0.66001 ATT	desc. node	7616 Nov 10 13:54	10° ₹ 25'39	
min. Earth dist.	7616 Jan 15 15:21	0°≈01'21	0.66981 AU	avanir 1	7616 Nov 23 14:47	0°る 12° ス 26124	26051150
000 m-J-	7616 Jan 15 15:47	30°Rる		evening max el	7616 Dec 05 06:13	13°る36'24 20°る54'49	26°51'58
asc. node	7616 Jan 16 15:25	28°る46'07	0°00'25	retrograde	7616 Dec 18 10:27		
inferior conj	7616 Jan 17 02:52	28°ろ10'10	0°09'35	evening set	7616 Dec 25 00:48	18°る18'36	0.65700 ATT
minimum elong	7616 Jan 17 02:37	28°♂10'58	0°09'34	min. Earth dist.	7616 Dec 29 01:10	14°る19'33	0.65788 AU
transit middle	7616 Jan 17 02:37	28°♂10'58	0°09'34	inferior conj	7616 Dec 31 00:13	12° ろ 03'02	
transit begin	7616 Jan 17 00:20	28°る18'08		minimum elong	7616 Dec 31 01:41	11° る 58'48	0°50'04
transit end	7616 Jan 17 04:54	28°る03'48		asc. node	7617 Jan 02 12:29	9° る 16'05	
morning rise	7616 Jan 22 20:52	22°る20'28		morning rise	7617 Jan 06 03:36	6° る 24'33	
direct morning max el	7616 Jan 26 01:48 7616 Feb 01 20:35	21° る 21'45 25° る 04'21	18°51'48	direct morning max el	7617 Jan 08 23:00 7617 Jan 15 10:26	5°る41'14 9°る09'12	18°13'38
morning max er	70101°CU U1 20.33	25 00421	10 2140	morning max er	1011 Jall 13 10.20	9 00912	10 13 30

	7617 Jan 30 00:50	0° ≈		direct	7617 Dec 23 16:03	19° ∡ ¹48'04	
	7617 Jan 30 00.30 7617 Feb 03 10:10	0 ≈ 7°≈05'42			7617 Dec 23 16.03 7617 Dec 30 03:22	23° х 11'13	17952120
morning set desc. node	7617 Feb 03 10:10 7617 Feb 06 13:15	7 ≈03 42 12°≈08'37		morning max el	7617 Dec 30 03:22 7618 Jan 04 13:33	23 メ 11 13	17 32 30
desc. node	7617 Feb 17 18:35	0° \		morning set	7618 Jan 16 02:53	18° る 52'48	
	7017160 17 10.33	υ Λ		morning sec	7618 Jan 22 17:48	0°≈	
superior conj	7617 Feb 18 14:46	1° ₩ 19'19	-1°19'20	desc. node	7618 Jan 24 10:14	2°≈47'09	
minimum elong	7617 Feb 18 05:52	0° H 44'22	1°18'15	dese. Hode	7010 Juli 24 10.14	2 /0/47 07	
max. Earth dist.	7617 Feb 20 13:53	4°) (24'11	1.45450 AU	superior conj	7618 Jan 29 08:28	10° ≈ 49'12	-0°34'55
evening rise	7617 Mar 06 17:48	26°) (30'29	1.13 130 110	minimum elong	7618 Jan 29 04:27	10°≈33'02	
e vennig 1150	7617 Mar 08 23:33	0°Υ		max. Earth dist.	7618 Feb 03 09:28	18°≈52'30	
greatest brilliancy	7617 Mar 18 10:29	14° Υ 37'35	-0.7m		7618 Feb 10 12:05	0°) €	
8	7617 Mar 29 15:42	0°8		evening rise	7618 Feb 14 07:02	5°) 50′39	
evening max el	7617 Mar 30 12:42	0° 8 55'22	19°18'20	<i>5</i>	7618 Mar 02 09:19	$0^{\circ}\Upsilon$	
asc. node	7617 Mar 31 11:31	1° 8 50'38		evening max el	7618 Mar 13 16:12	14° Ƴ 32'52	20°15'25
retrograde	7617 Apr 06 14:00	4° 8 55'12		asc. node	7618 Mar 18 08:37	18° Ƴ 15'39	
evening set	7617 Apr 10 02:28	3° 8 42'54		retrograde	7618 Mar 21 12:24	19° Ƴ 06'48	
•	7617 Apr 13 21:11	30° ŖƳ		evening set	7618 Mar 25 09:33	17° Ƴ 39'32	
inferior conj	7617 Apr 15 13:30	27° Y 52'09	3°23'06	inferior conj	7618 Mar 30 17:43	11° Y 34'59	3°09'31
minimum elong	7617 Apr 15 12:46	27° Y 54'31	3°23'00	minimum elong	7618 Mar 30 16:03	11° Y 40'37	3°09'14
min. Earth dist.	7617 Apr 16 22:36	26° Ƴ 04'44	0.66581 AU	min. Earth dist.	7618 Mar 31 12:29	10° Ƴ 31'10	0.67607 AU
morning rise	7617 Apr 20 22:43	21° Y 34'56		morning rise	7618 Apr 04 22:20	5° Ƴ 19'07	
direct	7617 Apr 27 04:21	18° Ƴ 49'46		direct	7618 Apr 10 15:32	2° Y 46'04	
desc. node	7617 May 05 12:50	22° Y 30'14		morning max el	7618 Apr 22 03:29	9° Ƴ 38'57	24°38'36
morning max el	7617 May 09 18:19	26° Ƴ 20'31	26°01'30	desc. node	7618 Apr 22 09:49	9° Ƴ 55'07	
	7617 May 13 03:24	0°8			7618 May 08 05:20	0° 8	
	7617 Jun 03 10:28	$\Pi^{\circ}0$			7618 May 27 02:12	$\Pi^{\circ}0$	
morning set	7617 Jun 14 21:04	19° Ⅱ 50′07		morning set	7618 May 28 01:42	1° Ⅱ 42'54	
max. Earth dist.	7617 Jun 18 17:35	27° Ⅲ 07′09	1.35343 AU	max. Earth dist.	7618 May 31 16:39	8° Ⅱ 12'16	1.37360 AU
	7617 Jun 20 05:08	0ංම					
				superior conj	7618 Jun 07 11:08	20° Ⅱ 57'37	-1°04'31
superior conj	7617 Jun 24 02:45	7° 5 47'13	-0°33'05	minimum elong	7618 Jun 07 15:01	21° Ⅱ 16'31	1°03'58
minimum elong	7617 Jun 24 04:40	7° 9 56'57	0°32'49		7618 Jun 12 01:10	0 \circ \odot	
asc. node	7617 Jun 27 10:39	14° © 36'58		asc. node	7618 Jun 14 07:42	4° 9 32'45	
evening rise	7617 Jul 01 22:14	23° © 53'33		evening rise	7618 Jun 16 00:36	7° 9 57'14	
	7617 Jul 04 22:30	$0^{\circ}\Omega$			7618 Jun 28 09:19	$0^{\circ}\Omega$	
evening max el	7617 Jul 20 04:28	23° Ω 47'05	20°24'14	evening max el	7618 Jul 02 19:35	5° Ω 19'15	19°19'08
retrograde	7617 Jul 31 03:46	29° Ω 11'45		retrograde	7618 Jul 12 02:05	9° £ 53′32	
desc. node	7617 Aug 01 12:00	29° Ω 07'12		evening set	7618 Jul 13 23:25	9° Ω 42'57	
evening set	7617 Aug 02 03:29	29° Ω 01'53		desc. node	7618 Jul 19 09:05	7° Ω 33'26	
inferior conj	7617 Aug 11 07:42	25° Ω 04'32		inferior conj	7618 Jul 22 13:16	5° Ω 34'14	
minimum elong	7617 Aug 10 23:49	25° Ω 16'00		minimum elong	7618 Jul 22 10:42	5° Ω 38'28	
min. Earth dist.	7617 Aug 12 16:03		0.54876 AU	min. Earth dist.	7618 Jul 25 05:09	3° Ω 49'36	0.55893 AU
morning rise	7617 Aug 19 19:22	20° Ω 57'52		morning rise	7618 Jul 30 19:12	0° £ 54′04	
direct	7617 Aug 23 22:48	20° Ω 20'56	22026146		7618 Aug 03 19:37	30°R≌	
morning max el	7617 Sep 06 08:13	26° Ω 50'48	23°36'46	direct	7618 Aug 04 18:23	29° 9 57'55	
1-	7617 Sep 09 09:41	0°M)			7618 Aug 05 17:08	0° Ω	25910150
asc. node	7617 Sep 23 10:09	21°№09'21 0° <u>മ</u>		morning max el	7618 Aug 18 21:01	7° Ω 06'06	25-19/50
morning sat	7617 Sep 27 21:54 7617 Sep 30 04:41	0 ≗ 4° £ 46'15		asc. node	7618 Sep 04 15:41 7618 Sep 10 07:08	0° Mp 10° Mp 33'12	
morning set	7017 Sep 30 04.41	T ==4013		morning set	7618 Sep 14 16:17	10 lip 35 12 19° mp 35'03	
superior conj	7617 Oct 07 03:28	19° ≏ 46'50	1°40'06	morning set	7618 Sep 19 11:17	0∘ ⊽	
minimum elong	7617 Oct 07 03:28 7617 Oct 07 02:37	19 ≗ 40 30	1°40'07		7010 Sep 19 11.17	V ==	
max. Earth dist.	7617 Oct 07 02:37	25° £ 12'19	1.33260 AU	superior conj	7618 Sep 21 13:26	4° £ 36'06	1°32'30
max. Earth dist.	7617 Oct 11 23:04	0°M	1.55200 710	minimum elong	7618 Sep 21 11:42	4° £ 26'35	
evening rise	7617 Oct 11 23:04 7617 Oct 14 17:15	5°M37'16		max. Earth dist.	7618 Sep 22 21:17	7° £ 30'52	
desc. node	7617 Oct 14 17:13	0° ₹ 25'10		evening rise	7618 Sep 28 16:10	19° £ 52'14	1.02002 /10
dese. Hode	7617 Oct 28 04:43	0° ⊀ ¹		evening rise	7618 Oct 03 18:19	0°M	
evening max el	7617 Nov 17 18:51	27° × 101'00	27°23'32	desc. node	7618 Oct 15 08:02	19°M56'13	
	7617 Nov 21 05:25	0°ਰ ਹਾਰ			7618 Oct 22 10:09	0° ∡ 7	
retrograde	7617 Dec 01 08:22	4° る 19'49		evening max el	7618 Oct 31 04:35	9° х 55'24	27°25'51
evening set	7617 Dec 08 07:39	1°る44'23		retrograde	7618 Nov 13 23:19	17° ∡ 10′22	
<i>3</i>	7617 Dec 10 09:27	30°R. ✓		evening set	7618 Nov 21 02:22	14° × ⁷ 44'52	
min. Earth dist.	7617 Dec 12 02:49	28° х 18′39	0.64258 AU	min. Earth dist.	7618 Nov 24 18:23	11° ∡ ¹47'51	0.62429 AU
inferior conj	7617 Dec 14 13:30	25° ∡ ¹43'58		inferior conj	7618 Nov 27 15:43	9° ∡ *04'51	
minimum elong	7617 Dec 14 17:04	25° х 34′32		minimum elong	7618 Nov 27 21:27	8° ≯ 51'20	
asc. node	7617 Dec 20 09:33	20° ∡ 741′51		morning rise	7618 Dec 04 18:34	3° ∡ ′58′28	
morning rise	7617 Dec 21 04:02	20° ∡ 19'48		direct	7618 Dec 07 01:44	3° ∡ ³34'42	
-							

morning rise	7620 Oct 29 22:37 7620 Nov 01 06:42	29° △ 48'04 29° △ 30'32		morning rise	7621 Oct 11 02:55 7621 Oct 13 18:38	11° ≏ 37'06 11° ≏ 18'15	
	7620 Nov 04 05:22	0° M .		morning max el	7621 Oct 23 12:03	15° ≏ 53'18	19°38'11
morning max el	7620 Nov 09 16:11	3°M33'27	18°40'18	asc. node	7621 Oct 27 21:35	20° £ 55'57	
asc. node	7620 Nov 10 00:35	3°M54'04			7621 Nov 02 16:40	0° M	
morning set	7620 Nov 25 21:29	29°M32'07		morning set	7621 Nov 10 00:28	14°M02'16	
	7620 Nov 26 03:13	0° ∡ ¹					
				superior conj	7621 Nov 17 22:12	29°M56'30	1°29'59
superior conj	7620 Dec 04 14:16	16° ≯ 18'13	1°12'09	minimum elong	7621 Nov 18 00:41		1°29'52
minimum elong	7620 Dec 04 17:41	16° ₰ ³34'16	1°11'50		7621 Nov 17 22:55	0° √	
max. Earth dist.	7620 Dec 11 20:18	29° ∡ 28'39	1.39768 AU	max. Earth dist.	7621 Nov 24 01:59	11° ∡ ⁴44'20	1.37621 AU
	7620 Dec 12 03:28	0°ಕ		evening rise	7621 Nov 27 19:42	18° ≯ 31'23	
desc. node	7620 Dec 15 01:14	5° る 00'28		desc. node	7621 Dec 01 22:14	25° ∡ ³38'35	
evening rise	7620 Dec 15 22:07	6° る 28'45			7621 Dec 04 12:56	0°ರ	
	7620 Dec 30 21:37	0°≈	2400245		7621 Dec 25 03:39	0° ≈	25010125
evening max el	7621 Jan 19 21:20	25°≈34'39	24°02'45	evening max el	7622 Jan 02 10:28		25°18'35
. 1	7621 Jan 25 03:26	0° ∀		retrograde	7622 Jan 14 12:08	16°≈19'24	
retrograde	7621 Jan 30 23:40 7621 Feb 05 06:11	2°\(\frac{1}{2}\)06'02		evening set	7622 Jan 20 07:37 7622 Jan 23 20:52	13°≈55'05	
evening set	7621 Feb 05 06:11 7621 Feb 05 03:29	29°≈54'20		asc. node min. Earth dist.	7622 Jan 23 20:52 7622 Jan 24 17:57	10°≈08'16 9°≈01'38	0.67509 AU
asc. node	7621 Feb 05 03:29 7621 Feb 05 23:49	30°R≈ 29°≈14'20		inferior conj	7622 Jan 24 17.37 7622 Jan 25 22:52	9 ≈01 38 7°≈27'59	0.67309 AU 0°41'19
min. Earth dist.	7621 Feb 03 23:49 7621 Feb 09 23:54	29 ≈1420 24°≈26'15	0.68122 AU	minimum elong	7622 Jan 25 21:52	7°≈31'14	
inferior conj	7621 Feb 10 17:31	24 ≈26 13 23°≈26'34	1°30'41	morning rise	7622 Jan 31 12:26	1°≈32'54	0 41 01
minimum elong	7621 Feb 10 17:31 7621 Feb 10 15:38	23°≈32'58	1°30'04	direct	7622 Feb 03 23:49	0°≈23'27	
morning rise	7621 Feb 16 01:06	17°≈23'42	1 30 04	morning max el	7622 Feb 11 01:56	4°≈19'03	19°21'11
direct	7621 Feb 20 00:45	15°≈53'30		greatest brilliancy	7622 Feb 24 03:04	21°≈36'17	-0.7m
morning max el	7621 Feb 27 22:03	20°≈22'32	20°24'40	desc. node	7622 Feb 27 21:39	27°≈18'02	0.7111
morning man vi	7621 Mar 07 21:19	0°) €	20 2	dese. node	7622 Mar 01 16:08	0° ∀	
desc. node	7621 Mar 13 00:42	7°) 12'47		morning set	7622 Mar 07 08:50	8°) (45'30	
morning set	7621 Mar 28 09:57	0° Υ 19'53		max. Earth dist.	7622 Mar 20 09:21	29°) €03'44	1.44870 AU
S	7621 Mar 28 04:49	$0^{\circ}\mathbf{\Upsilon}$			7622 Mar 20 23:36	$0^{\circ}\Upsilon$	
max. Earth dist.	7621 Apr 06 19:12	15° Ƴ 07'52	1.43585 AU				
				superior conj	7622 Mar 23 23:45	4° Ƴ 46'10	-2°06'03
superior conj	7621 Apr 13 01:41	25° Y 22'02	-2°10'44	minimum elong	7622 Mar 23 18:35	4° Y 25'39	2°05'50
minimum elong	7621 Apr 13 03:18	25° Y 28'45	2°10'45	evening rise	7622 Apr 07 05:39	27° Y 58'42	
	7621 Apr 15 20:15	9° 8			7622 Apr 08 10:50	9° 8	
evening rise	7621 Apr 25 13:34	16° 8 43'16		asc. node	7622 Apr 21 19:55	21° 8 22'10	
	7621 May 03 05:53	$\Pi^{\circ}0$		evening max el	7622 Apr 26 08:37	26° 8 53'33	18°20'19
asc. node	7621 May 04 22:52	2° Ⅱ 48'39			7622 Apr 30 20:23	Π $^{\circ}0$	
evening max el	7621 May 12 19:35	13° Ⅱ 29'35	18°06'17	retrograde	7622 May 02 18:26	0° Ⅱ 19'55	
retrograde	7621 May 19 06:32	16° Ⅱ 50′25			7622 May 04 16:07	30° ₹8	
evening set	7621 May 22 00:13	16° Ⅱ 13'28		evening set	7622 May 05 19:09	29° 8 29'49	
inferior conj	7621 May 28 08:31	11° Ⅱ 06'08	2°52'02	inferior conj	7622 May 11 16:23	24° 8 04'08	3°17'49
minimum elong	7621 May 28 11:10	10° I I59'20	2°51'26	minimum elong	7622 May 11 17:44	24° 8 00'16	3°17'36
min. Earth dist.	7621 May 31 07:52	8° Ⅱ 03'51	0.62037 AU	min. Earth dist.	7622 May 14 01:32	21° 8 20'29	0.64088 AU
morning rise	7621 Jun 03 20:14	5° Ⅱ 02'13 2° Ⅱ 44'53		morning rise	7622 May 17 15:18	17° 8 50'42	
desc. node direct	7621 Jun 09 00:11 7621 Jun 10 14:27	2° П 44 53 2° П 37'02		direct desc. node	7622 May 24 09:06	15° 8 08'18 15° 8 28'13	
morning max el	7621 Jun 24 17:52		27°55'02	morning max el	7622 May 26 21:11 7622 Jun 07 02:59	23° 8 07'57	27034110
morning max ci	7621 Jul 09 21:10	0°9	27 33 02	morning max cr	7622 Jun 13 05:07	0° I I	27 34 19
	7621 Jul 26 23:08	0°Ω			7622 Jul 03 04:21	0°©	
morning set	7621 Jul 28 10:20	2° Ω 57'47		morning set	7622 Jul 12 03:58	16°5943'20	
asc. node	7621 Jul 31 22:06	10° Ω 14'14		max. Earth dist.	7622 Jul 17 00:52	26°537'58	1.33003 AU
max. Earth dist.	7621 Aug 03 00:17	14° Ω 43'23	1.32137 AU	asc. node	7622 Jul 18 19:08	0° Ω 20'26	1.55005110
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				7622 Jul 18 15:17	0°N	
superior conj	7621 Aug 04 22:19	18° Ω 53'54	0°40'05				
minimum elong	7621 Aug 04 20:36	18° Ω 44'34	0°39'40	superior conj	7622 Jul 20 04:07	3° Ω 16′15	0°14'00
-	7621 Aug 09 23:57	0° m y		minimum elong	7622 Jul 20 03:26	3° Ω 12'35	0°13'46
evening rise	7621 Aug 11 18:13	3° m 47'56		behind sun begin	7622 Jul 20 00:40	2° Ω 57'43	
	7621 Aug 25 16:42	0∘ ⊽		behind sun end	7622 Jul 20 06:13	3° Ω 27'27	
desc. node	7621 Sep 04 23:15	13° ≏ 16'47		evening rise	7622 Jul 27 05:45	18° Ω 28'19	
evening max el	7621 Sep 05 19:30	14° ≙ 06'41	24°22'27		7622 Aug 01 21:17	0° m	
retrograde	7621 Sep 19 14:11	21° ≏ 01'44		evening max el	7622 Aug 18 07:28	24° m 21'30	22°43'36
evening set	7621 Sep 24 15:16	20° ≏ 05′24		desc. node	7622 Aug 22 20:18	28° Mp 04'16	
min. Earth dist.	7621 Sep 30 06:27		0.56474 AU		7622 Aug 26 13:18	0∘ ত	
inferior conj	7621 Oct 02 19:08	15° ≏ 38'47		retrograde	7622 Aug 31 11:41	0° £ 56'07	
minimum elong	7621 Oct 02 20:00	15° ≏ 37'26	5°31'08	evening set	7622 Sep 04 00:25	0° ჲ 28'47	

	7622 Sep 05 14:30	30°R, ™)		behind sun end	7623 Jul 04 06:35	17° © 30'35	
min. Earth dist.	7622 Sep 11 15:10	27° m 05'19	0.55171 AU	asc. node	7623 Jul 05 16:09	20°525'39	
inferior conj	7622 Sep 12 22:15	26° m 20'59	-5°11'19		7623 Jul 10 05:15	$0^{\circ}\Omega$	
minimum elong	7622 Sep 12 15:52	26° Mp 30'07	5°10'25	evening rise	7623 Jul 11 15:30	2° Ω 59′26	
morning rise	7622 Sep 21 09:20	22° m 32'19			7623 Jul 26 21:38	0° m ∕	
direct	7622 Sep 24 12:28	22° m 09'45		evening max el	7623 Jul 31 02:25	4° m/49'01	21°10'38
morning max el	7622 Oct 05 19:19	27° m/26'19	20°58'09	desc. node	7623 Aug 09 17:23	10° m 30'45	
1-	7622 Oct 08 06:56	0° Ω		retrograde	7623 Aug 12 00:56	10° Mp 43'50	
asc. node morning set	7622 Oct 14 18:35 7622 Oct 25 08:27	8° £ 53'07 28° £ 45'48		evening set inferior conj	7623 Aug 14 08:43 7623 Aug 23 15:12	10° Mp 31'13 6° Mp 33'39	2057100
morning set	7622 Oct 25 08.27 7622 Oct 25 22:46	28 = 43 48 0°M		minimum elong	7623 Aug 23 15:12 7623 Aug 23 05:48	6° Mp 46'52	
	7022 Oct 23 22.40	O IIU		min. Earth dist.	7623 Aug 24 00:18	6° m/20'50	0.54697 AU
superior conj	7622 Nov 01 17:30	14°M07'37	1°39'30	morning rise	7623 Sep 01 03:29	2° m/39'29	
minimum elong	7622 Nov 01 18:37	14° ™ 13'24	1°39'32	direct	7623 Sep 04 20:39	2° m 09'49	
max. Earth dist.	7622 Nov 06 11:17	23°M40'33	1.35644 AU	morning max el	7623 Sep 17 15:01	8° m 13'52	22°36'12
	7622 Nov 09 18:03	0° ∡ 7		asc. node	7623 Oct 01 15:37	27° m 31'39	
evening rise	7622 Nov 10 12:02	1° ∡ ¹24'26			7623 Oct 03 00:08	0∘ ⊽	
desc. node	7622 Nov 18 19:17	16° ∡ °06'44		morning set	7623 Oct 09 19:13	13° ≏ 35'13	
	7622 Nov 27 14:26	0° ろ					
evening max el	7622 Dec 15 23:35	23° る 06'49	26°22'51	superior conj	7623 Oct 16 20:33	28° £ 39'57	
. 1	7622 Dec 26 07:52	0°≈		minimum elong	7623 Oct 16 20:21	28° £ 38'52	1°41'48
retrograde	7622 Dec 28 19:33 7622 Dec 31 04:28	0°≈20'37 30°Rರ		max. Earth dist.	7623 Oct 17 11:38 7623 Oct 20 03:46	0°M₁ 5°M₃36'05	1.34004 AU
evening set	7622 Dec 31 04.28 7623 Jan 04 03:36	30 KO 27° 石 46'58		evening rise	7623 Oct 24 19:03	14°M56'46	1.34004 AU
min. Earth dist.	7623 Jan 04 03:30 7623 Jan 08 07:20		0.66527 AU	evening rise	7623 Nov 01 22:39	0°×7	
inferior conj	7623 Jan 09 23:47	21° る 25'39		desc. node	7623 Nov 05 16:21	6° ⊀ 18'38	
minimum elong	7623 Jan 10 00:12	21° る 24'24	0°14'57		7623 Nov 22 07:44	0°る	
transit middle	7623 Jan 10 00:12	21° る 24'24	0°14'57	evening max el	7623 Nov 28 12:29		27°08'26
transit begin	7623 Jan 09 23:08	21° る 27'38		retrograde	7623 Dec 11 21:17	14° る 01'24	
transit end	7623 Jan 10 01:16	21° る 21'10		evening set	7623 Dec 18 16:00	11° පි 24'11	
asc. node	7623 Jan 10 17:54	20° る 31'01		min. Earth dist.	7623 Dec 22 13:52	7° る 39'50	0.65183 AU
morning rise	7623 Jan 15 21:33	15° る 40'36		inferior conj	7623 Dec 24 18:02	5° る 14'13	
direct	7623 Jan 18 22:16	14° ප් 48'51		minimum elong	7623 Dec 24 20:21		1°17'01
morning max el	7623 Jan 25 12:54	18° る 23'30	18°33'31	asc. node	7623 Dec 28 14:58	1°る19'06	
JJ.	7623 Feb 03 10:49	0° ≈			7623 Dec 30 11:52	30°R ✓	
desc. node morning set	7623 Feb 14 18:39 7623 Feb 15 03:57	17°≈40'14 18°≈17'03		morning rise direct	7623 Dec 31 02:01 7624 Jan 02 17:55	29° х 41'44 29° х 03'57	
morning set	7623 Feb 13 03.37 7623 Feb 22 14:13	0° ∺		direct	7624 Jan 06 00:37	29 メ ・03 37	
	7023100 22 14.13	0 /		morning max el	7624 Jan 09 04:31	2° ਰ 28'41	18°02'30
superior conj	7623 Mar 03 05:45	13°) €33'22	-1°41'13	morning set	7624 Jan 27 04:36	29° る 16'59	10 02 30
minimum elong	7623 Mar 02 20:12		1°40'19	C	7624 Jan 27 15:03	0° ≈	
max. Earth dist.	7623 Mar 03 03:52	13° ¥ 25'59	1.45455 AU	desc. node	7624 Feb 01 15:38	8° ≈ 13'59	
	7623 Mar 13 16:53	0° Υ					
evening rise	7623 Mar 18 22:21	8° Y 17'12		superior conj	7624 Feb 10 13:55	22° ≈ 34'03	-1°00'59
greatest brilliancy	7623 Mar 27 16:06	22° Y ′09'23	-0.8m	minimum elong	7624 Feb 10 06:46	22°≈05'45	1°00'01
	7623 Apr 01 18:38	0° 8		max. Earth dist.	7624 Feb 13 23:18	27°≈54'59	1.45292 AU
asc. node	7623 Apr 08 16:59	9° 8 15'46	10050115		7624 Feb 15 07:10	0° ∀	
evening max el retrograde	7623 Apr 09 19:20	10° 8 25'56 14° 8 10'38	18°52'15	evening rise	7624 Feb 26 18:39	17° ¥ 50'14 0° Ƴ	
evening set	7623 Apr 16 12:51 7623 Apr 19 20:46	13° 8 06'39		greatest brilliancy	7624 Mar 05 16:29 7624 Mar 11 07:41	8° Υ 30'13	-0.7m
inferior conj	7623 Apr 25 10:37	7° 8 24'20	3°25'24	evening max el	7624 Mar 23 01:46	24° Υ 02'20	19°40'51
minimum elong	7623 Apr 25 10:35	7° 8 24'27	3°25'20	asc. node	7624 Mar 25 14:03	26° Υ 17'21	17 1031
min. Earth dist.	7623 Apr 27 04:20	_	0.65790 AU	retrograde	7624 Mar 30 10:33	28° Y 16′09	
morning rise	7623 Apr 30 23:52	1° 8 07'12		evening set	7624 Apr 03 02:28	26° Ƴ 57'41	
	7623 May 02 10:26	30° ₹ Υ		inferior conj	7624 Apr 08 11:59	21° Y 00'43	3°18'44
direct	7623 May 07 11:07	28° Y 19'48		minimum elong	7624 Apr 08 10:49	21° Y 04'36	3°18'34
	7623 May 13 00:41	0°8		min. Earth dist.	7624 Apr 09 14:52	19° Ƴ 31′23	0.67068 AU
desc. node	7623 May 13 18:12	0° 8 25'50		morning rise	7624 Apr 13 18:50	14° Y 43'32	
morning max el	7623 May 20 13:31	6° 8 05'54	26°42'14	direct	7624 Apr 19 19:22	12° Υ 02'26	
	7623 Jun 07 22:12	0°Ⅱ 20°Ⅲ54!41		desc. node	7624 Apr 29 15:13	17° Y 05'28	25027120
morning set	7623 Jun 25 10:42	29° Ⅱ 54'41 0° ©		morning max el	7624 May 01 23:17	19° Y 19'39	25°27'39
max. Earth dist.	7623 Jun 25 11:49 7623 Jun 29 15:23		1.34352 AU		7624 May 11 00:54 7624 May 31 00:27	0°H 8°0	
max. Lattii Uist.	, 023 Juli 27 13.23	0 30419	1.57552 AU	morning set	7624 Jun 07 02:23	12° Ⅱ 20'47	
superior conj	7623 Jul 04 03:52	17° © 16'30	-0°15'17	max. Earth dist.	7624 Jun 10 18:53	19° I 109'29	1.36155 AU
minimum elong	7623 Jul 04 04:43	17° © 20'53			7624 Jun 16 09:13	0.00	
behind sun begin	7623 Jul 04 02:51	17° © 11'12					

desc. node

23°**)** 45'13

 $0^{\circ}\Upsilon$

7626 Apr 03 09:08

7626 Apr 08 02:40

7625 May 23 11:03

7625 May 23 15:16

max. Earth dist.

 $0^{\circ}\Pi$

0°**I**18'46 1.38292 AU

	7626 Apr 28 04:16	0°8		morning set	7627 Apr 10 04:53	12°Υ54'23	
morning set	7626 Apr 30 14:52	3° 8 57'30	1 40506 477	max. Earth dist.	7627 Apr 17 15:26	24° Y 49'04	1.42589 AU
max. Earth dist.	7626 May 05 12:20	12° 8 06'40	1.40536 AU		7627 Apr 20 18:50	0° 8	
	7/2/ M 12 07 20	250 45112	1045120		7627 4 24 20 07	CO U 50105	2005112
superior conj	7626 May 13 07:28	25° 8 45'13 26° 8 10'44		superior conj	7627 Apr 24 20:07	6° 8 50'05	
minimum elong	7626 May 13 13:08		1°44′51	minimum elong	7627 Apr 25 00:19	7° 8 08'01	2°05'04
	7626 May 15 15:33	0°Ⅱ 14°Ⅱ29'26		evening rise	7627 May 06 09:03	27° ႘ 09'48 0° Ⅱ	
evening rise	7626 May 23 09:43			4-	7627 May 07 22:55		
asc. node	7626 May 26 07:15	19° I 55′28		asc. node	7627 May 13 04:17	9° Ⅱ 14'09	10006121
	7626 May 31 23:02	0°9	10022112	evening max el	7627 May 22 22:58	23° Ⅱ 13'34	18°06'31
evening max el	7626 Jun 08 11:53	10°916'01	18°22'12	retrograde	7627 May 29 15:09	26° Ⅲ 38′02	
retrograde	7626 Jun 15 21:25	13°957'45		evening set	7627 Jun 01 04:37	26° Ⅱ 08'04	2025101
evening set	7626 Jun 18 03:33	13°938'02		inferior conj	7627 Jun 07 21:04	21° Ⅱ 11'40	2°27'01
inferior conj	7626 Jun 25 13:20	9° © 01'52	1°22'24	minimum elong	7627 Jun 08 00:09	21° Ⅱ 04'17	2°26'09
minimum elong	7626 Jun 25 15:56	8°956'31	1°21'26	min. Earth dist.	7627 Jun 11 02:32	18° Ⅱ 08'04	0.60758 AU
min. Earth dist.	7626 Jun 28 22:56	6° © 15'18	0.58537 AU	morning rise	7627 Jun 14 17:15	15° Ⅱ 16'38	
desc. node	7626 Jun 30 08:32	5° © 12'29		desc. node	7627 Jun 17 05:32	13° ∏ 56'31	
morning rise	7626 Jul 03 01:04	3° © 31'33		direct	7627 Jun 21 07:51	13° Ⅱ 06'43	
direct	7626 Jul 09 03:45	1° © 52'59		morning max el	7627 Jul 05 15:06	21° Ⅱ 04'45	27°50'31
morning max el	7626 Jul 23 13:02	9° © 36'51	27°12'19		7627 Jul 13 08:38	0 \circ \odot	
	7626 Aug 08 03:50	$0 {\circ} \Omega$			7627 Aug 01 03:37	$0^{\circ}\Omega$	
asc. node	7626 Aug 22 06:36	26° Ω 02'38		morning set	7627 Aug 07 07:32	12° Ω 11'41	
morning set	7626 Aug 23 02:49	27° Ω 48'31		asc. node	7627 Aug 09 03:35	16° Ω 02'16	
	7626 Aug 24 03:37	O° m y		max. Earth dist.	7627 Aug 13 07:50	25° Ω 03'31	1.31849 AU
superior conj	7626 Aug 30 03:19	13°M/06'18	1°12'57	superior conj	7627 Aug 14 14:17	27° Ω 51′02	0°53'21
minimum elong	7626 Aug 30 01:04	12° m 53'47	1°12'34	minimum elong	7627 Aug 14 12:14	27° Ω 39'42	0°52'54
max. Earth dist.	7626 Aug 29 22:09	12° m 37'38	1.31717 AU		7627 Aug 15 13:39	O° Mp	
evening rise	7626 Sep 05 22:17	27° m 57'45		evening rise	7627 Aug 21 08:45	12° Mp 40'46	
	7626 Sep 06 21:26	0∘ ত			7627 Aug 30 00:57	0∘ ⊽	
	7626 Sep 23 14:11	0°M.		desc. node	7627 Sep 13 04:37	21° ≙ 15'54	
desc. node	7626 Sep 26 07:33	3°ML51'39		evening max el	7627 Sep 17 02:51	25° £ 25'47	25°15'43
evening max el	7626 Oct 05 09:31	14° M .24'47	26°31'37	-	7627 Sep 22 23:34	o° m ₊	
retrograde	7626 Oct 19 07:29	21°MJ31'32		retrograde	7627 Oct 01 00:26	2°M27'18	
evening set	7626 Oct 26 00:41	19° M 39'45		evening set	7627 Oct 06 19:55	1°M09'53	
min. Earth dist.	7626 Oct 29 23:04	17° M .04'52	0.59497 AU	Č	7627 Oct 09 03:49	30° ₽ Ω	
inferior conj	7626 Nov 02 04:05	14°MJ35'08	-4°36'11	min. Earth dist.	7627 Oct 11 14:29	28° ≏ 29'59	0.57485 AU
minimum elong	7626 Nov 02 11:05	14°ML21'28	4°34'28	inferior conj	7627 Oct 14 13:31	26° £ 30'01	-5°20'33
morning rise	7626 Nov 09 23:46	9° M 59'01		minimum elong	7627 Oct 14 17:49	26° £ 22'42	5°20'03
direct	7626 Nov 12 05:59	9° M 40'47		morning rise	7627 Oct 22 18:03	22° ₽ 17'01	
asc. node	7626 Nov 18 06:03	11°ML57'32		direct	7627 Oct 25 04:50	21° £ 59'16	
morning max el	7626 Nov 20 00:29	13°M29'22	18°17'10	morning max el	7627 Nov 03 02:53	26° £ 14'12	19°02'16
morning man er	7626 Dec 01 04:43	0° %	10 17 10	asc. node	7627 Nov 05 03:03	28° £ 21'22	19 02 10
morning set	7626 Dec 05 20:17	8° × ⁷ 41'49		use. Houe	7627 Nov 06 11:23	0°M	
morning sec	7020 200 00 20.17	0 7		morning set	7627 Nov 19 19:13	23°ML01'10	
superior conj	7626 Dec 15 03:29	26° ₹ 107'55	0°57'44	morning sec	7627 Nov 23 07:47	0° %	
minimum elong	7626 Dec 15 06:58	26° × ¹ 23'50			7027 1107 23 07.17	0 <i>7</i> .	
minimum crong	7626 Dec 17 06:53	0°る	0 37 21	superior conj	7627 Nov 28 03:02	9° × 122'34	1°20'47
max. Earth dist.	7626 Dec 22 17:57	9° ට 32'10	1.40990 AU	minimum elong	7627 Nov 28 06:08	9° × 37'28	1°20'33
desc. node	7626 Dec 23 06:36	10° පි 26'00	1.10770710	max. Earth dist.	7627 Dec 04 23:42	22° × ⁷ 07'24	1.38843 AU
evening rise	7626 Dec 27 10:05	10 3 2000		evening rise	7627 Dec 04 23:42 7627 Dec 08 19:21	28° × 50'01	1.50045710
evening rise	7627 Jan 04 09:59	0°≈		evening rise	7627 Dec 08 13:21 7627 Dec 09 11:40	20×3001	
	7627 Jan 26 00:37	0° ∺		desc. node	7627 Dec 10 03:38	1° そ 08'01	
avanina may al	7627 Jan 30 14:20	5° 米 01'56	22016141	desc. Hode		0°≈	
evening max el	7627 Feb 10 01:17	11° X 13'12	25 1041	arranina marral	7627 Dec 28 20:21	0 ≈ 18°≈46'43	24025151
retrograde				evening max el	7628 Jan 13 03:41		24 33 31
asc. node	7627 Feb 14 05:14	9° ∺ 47'10 9° ∺ 09'21		retrograde	7628 Jan 24 16:33	25°≈31'12	
evening set	7627 Feb 15 00:45		1055127	evening set	7628 Jan 30 04:34	23°≈13'36	
inferior conj	7627 Feb 20 10:23	2° ★ 43'23	1°55'36	asc. node	7628 Feb 01 02:17	21°≈20'43	0.67006 411
minimum elong	7627 Feb 20 08:13	2° ¥ 50′51	1°54'56	min. Earth dist.	7628 Feb 03 18:54	18°≈00'18	0.67906 AU
min. Earth dist.	7627 Feb 19 23:12	3° ∺ 21'54	0.68311 AU	inferior conj	7628 Feb 04 17:25	16°≈45'17	1°10'41
	7627 Feb 22 11:10	30°R≈		minimum elong	7628 Feb 04 15:50	16°≈50'32	1~10.08
morning rise	7627 Feb 25 15:38	26°≈37'14		morning rise	7628 Feb 10 03:16	10°≈45'37	
direct	7627 Mar 01 22:55	24°≈54'24	21007/20	direct	7628 Feb 13 21:26	9°≈24'45	10055150
morning max el	7627 Mar 10 10:25	29° ≈ 47'34	21°07'39	morning max el	7628 Feb 21 09:49	13°≈38'18	19°55'50
	7627 Mar 10 15:23	0° ∀			7628 Mar 05 01:12	0° ∀	
desc. node	7627 Mar 21 06:05	13° ¥ 10′08		desc. node	7628 Mar 07 03:04	3°) €03'01	
	7627 Apr 01 19:34	0° Υ		morning set	7628 Mar 19 02:32	21° ℋ 11'34	

	7628 Mar 24 18:39	0° Υ		morning set	7629 Feb 26 07:46	29°≈59'09	
max. Earth dist.	7628 Mar 30 01:30	8° Υ 20'32	1.44206 AU	morning sec	7629 Feb 26 07:59	0° ∀	
				max. Earth dist.	7629 Mar 12 17:20		1.45202 AU
superior conj	7628 Apr 04 07:58	16° Ƴ 49'23	-2°11'10				
minimum elong	7628 Apr 04 06:54	16° Ƴ 45′03	2°11'10	superior conj	7629 Mar 14 21:38	25° ¥ 53'57	-1°57'54
	7628 Apr 12 07:00	8° 0		minimum elong	7629 Mar 14 13:53	25°) €23′28	1°57'24
evening rise	7628 Apr 17 13:49	8° 8 58'43			7629 Mar 17 11:55	$0^{\circ}\Upsilon$	
asc. node	7628 Apr 29 01:20	28° 8 06'48		evening rise	7629 Mar 29 20:04	19° Y 49'51	
	7628 Apr 30 07:36	$\Pi^{\circ}0$			7629 Apr 05 01:48	0°8	
evening max el	7628 May 05 12:10	6° Ⅱ 30′28	18°09'59	asc. node	7629 Apr 15 22:24	16° 8 25'25	
retrograde	7628 May 11 21:40	9° Ⅱ 52'16		evening max el	7629 Apr 19 00:37	19° 8 59'41	18°31'48
evening set	7628 May 14 18:14	9° Ⅱ 10′03		retrograde	7629 Apr 25 12:43	23° 8 32'15	
inferior conj	7628 May 20 21:22	3° Ⅱ 54'50	3°05'30	evening set	7629 Apr 28 16:25	22° 8 36'26	
minimum elong	7628 May 20 23:30	3° Ⅱ 49′03	3°05'04	inferior conj	7629 May 04 10:08	17° 8 03'46	
min. Earth dist.	7628 May 23 15:05	0° Ⅱ 57'55	0.62941 AU	minimum elong	7629 May 04 10:53	17° 8 01'32	
	7628 May 24 13:59	30° ₹8		min. Earth dist.	7629 May 06 12:52	14° 8 32'37	0.64863 AU
morning rise	7628 May 27 03:15	27° 8 45'39		morning rise	7629 May 10 04:33	10° 8 48'16	
direct	7628 Jun 02 22:06	25° 8 11'30		direct	7629 May 16 20:21	8° 8 01'51	
desc. node	7628 Jun 03 02:34	25° 8 11'37		desc. node	7629 May 20 23:34	8° 8 56'26	
	7628 Jun 13 09:45	$\Pi^{\circ 0}$		morning max el	7629 May 30 08:18	15° 8 57'39	27°15'23
morning max el	7628 Jun 16 22:24	3° Ⅱ 14′24	27°50'28		7629 Jun 10 21:33	0°Щ	
	7628 Jul 06 20:06	0°€			7629 Jun 29 14:50	0.20	
morning set	7628 Jul 21 05:57	26°©13'16		morning set	7629 Jul 04 19:24	9°545'52	
	7628 Jul 23 02:27	0°Ω		max. Earth dist.	7629 Jul 09 09:01	18°953'21	1.33521 AU
asc. node	7628 Jul 26 00:35	6° Ω 07'17		asc. node	7629 Jul 12 21:37	26° © 13'50	
max. Earth dist.	7628 Jul 26 12:39	7° Ω 11'33	1.32443 AU		7/20 X 1 12 02 00	260007142	0001156
	7(20 1 1 20 22 22	100 000100	0000100	superior conj	7629 Jul 13 02:08	26°537'42	0°01'56
superior conj	7628 Jul 28 22:33	12° Ω 23'22	0°29'28	minimum elong	7629 Jul 13 02:02	26°537'10	0°01'49
minimum elong	7628 Jul 28 21:13	12° Ω 16'07	0°29'06	behind sun begin	7629 Jul 12 20:31	26°508'01	
evening rise	7628 Aug 04 20:24	27° Ω 23'35		behind sun end	7629 Jul 13 07:33	27°506'23	
	7628 Aug 06 01:54	0° ट 0° क्रि			7629 Jul 14 16:14	0° Ω	
avanina may al	7628 Aug 23 10:28 7628 Aug 28 14:42	5° £ 48'50	22940127	evening rise	7629 Jul 20 07:26 7629 Jul 29 12:04	12° Ω 00'56 0° m	
evening max el desc. node	7628 Aug 28 14.42 7628 Aug 30 01:41	7° £ 09'23	23 40 37	evening max el	7629 Aug 10 04:46	ارات 0 16° 10 05'30	22002120
retrograde	7628 Sep 11 05:25	12° £ 37'59		desc. node	7629 Aug 16 22:45	21° Mp 00'44	22 02 30
evening set	7628 Sep 15 14:56	12 ⊆ 57 39 11° ⊆ 55'37		retrograde	7629 Aug 10 22:45 7629 Aug 22 22:16	21° m/ 24'50	
min. Earth dist.	7628 Sep 22 00:52		0.55830 AU	evening set	7629 Aug 25 20:39	22° m 05'43	
inferior conj	7628 Sep 24 02:44	7° ⊆ 37'20		min. Earth dist.	7629 Sep 03 09:41	18° Mp 24'11	0.54860 AU
minimum elong	7628 Sep 24 00:28	7° - 40'45		inferior conj	7629 Sep 04 00:03	18° Mp 04'02	
morning rise	7628 Oct 02 12:14	3° £ 42'47	3 2) 13	minimum elong	7629 Sep 01 00:05 7629 Sep 03 15:30	18° Mp 16'02	
direct	7628 Oct 05 08:10	3° £ 22'50		morning rise	7629 Sep 12 11:49	14° mp 15'14	
morning max el	7628 Oct 15 17:36		20°09'40	direct	7629 Sep 15 20:40	13° m 50'04	
asc. node	7628 Oct 22 00:04	15° ≏ 48'24		morning max el	7629 Sep 27 19:27	19° m 27'06	21°38'04
	7628 Oct 30 05:05	0° M .		C	7629 Oct 06 08:16	0∘ <u>⊽</u>	
morning set	7628 Nov 03 00:36	7°M237'23		asc. node	7629 Oct 08 21:05	4° ഫ 04'33	
				morning set	7629 Oct 18 09:58	22° ჲ 23'43	
superior conj	7628 Nov 10 16:16	23°M16'04	1°34'57		7629 Oct 22 00:31	0° M	
minimum elong	7628 Nov 10 18:12	23°M25'43	1°34'55				
	7628 Nov 14 01:52	0° ∡		superior conj	7629 Oct 25 15:12	7°M36'52	1°41'16
max. Earth dist.	7628 Nov 16 05:46	4° ∡ 09'39	1.36742 AU	minimum elong	7629 Oct 25 15:44	7°M39'42	1°41'20
evening rise	7628 Nov 20 01:21	11° ∡ 15'11		max. Earth dist.	7629 Oct 29 17:45	16°M02'51	1.34900 AU
desc. node	7628 Nov 26 00:41	21° ∡ ⁴42'30		evening rise	7629 Nov 03 00:24	24°M26'10	
	7628 Dec 01 02:21	0°₹			7629 Nov 05 23:48	0°⊀	
	7628 Dec 23 04:49	0° ≈		desc. node	7629 Nov 12 21:44	12° ₹ 04'26	
evening max el	7628 Dec 25 16:39	2° ≈ 33'26	25°47'51		7629 Nov 24 15:45	0°ಕ	
retrograde	7629 Jan 07 03:09	9° ≈ 40'12		evening max el	7629 Dec 08 05:57	16° る 15'55	26°45'10
evening set	7629 Jan 13 03:58	7° ≈ 11'28		retrograde	7629 Dec 21 08:12	23° る 33'12	
min. Earth dist.	7629 Jan 17 11:23	2° ≈ 32'38	0.67126 AU	evening set	7629 Dec 27 20:58	20° る 57'34	
asc. node	7629 Jan 17 23:20	1°≈55'02		min. Earth dist.	7629 Dec 31 22:14		0.65990 AU
inferior conj	7629 Jan 18 21:10	0°≈45'53		inferior conj	7630 Jan 02 19:33	14°る40'22	
minimum elong	7629 Jan 18 20:42	0°≈47'22	0°18'06	minimum elong	7630 Jan 02 20:42	14°₹36'57	0°40'36
	7629 Jan 19 11:44	30°₹る		asc. node	7630 Jan 04 20:25	12°る21'22	
morning rise	7629 Jan 24 13:56	24° る 54'37		morning rise	7630 Jan 08 21:23	9°る00'03	
direct	7629 Jan 27 20:28	23° る 53'13	1005054	direct	7630 Jan 11 18:08	8°る14'37	10010114
morning max el	7629 Feb 03 16:56	27° る 38'55	18~38'54	morning max el	7630 Jan 18 06:07	11° ⋜ 43'54	18°18'14
4 1	7629 Feb 05 20:59	0°≈		:	7630 Jan 31 07:33	0°≈ 10°≈ •0°!04	
desc. node	7629 Feb 22 00:03	23°≈16′21		morning set	7630 Feb 06 15:14	10° ≈ 08'04	

desc. node	7630 Feb 08 21:01	13° ≈ 43'55		direct	7630 Dec 26 11:58	22° ∡ ¹24'06	
dese. Hode	7630 Feb 19 02:47	0° ∺		morning max el	7631 Jan 01 22:47	25° × ⁷ 47'13	17°54'31
	7030100 19 02.17	۰۸		morning max er	7631 Jan 05 12:46	0°る	1, 3,31
superior conj	7630 Feb 22 01:58	4°) 39'43	-1°25'29	morning set	7631 Jan 19 03:55	21° る 43'32	
minimum elong	7630 Feb 21 16:41	4°) €03'16			7631 Jan 24 02:41	0° ≈	
max. Earth dist.	7630 Feb 23 12:42	6° ¥ 55'50	1.45477 AU	desc. node	7631 Jan 26 18:02	4° ≈ 21'33	
evening rise	7630 Mar 10 03:10	29°) 46′03					
Č	7630 Mar 10 06:44	0° Y		superior conj	7631 Feb 01 16:42	14° ≈ 00'40	-0°41'48
greatest brilliancy	7630 Mar 21 02:29	16° Ƴ 51'50	-0.8m	minimum elong	7631 Feb 01 11:50	13° ≈ 41'11	0°41'02
	7630 Mar 30 06:48	0°8		max. Earth dist.	7631 Feb 06 08:25	21° ≈ 25'10	1.45008 AU
evening max el	7630 Apr 02 09:48	3° 8 34'34	19°11'03		7631 Feb 11 19:52	0° ∀	
asc. node	7630 Apr 02 19:30	3° 8 58'41		evening rise	7631 Feb 17 17:46	9° ₩ 08'17	
retrograde	7630 Apr 09 08:46	7° 8 29'59			7631 Mar 03 12:59	0° Y	
evening set	7630 Apr 12 20:04	6° 8 19'48		greatest brilliancy	7631 Mar 04 12:55	1° Y 27'45	-0.6m
inferior conj	7630 Apr 18 07:44	0° 8 31'09	3°24'05	evening max el	7631 Mar 16 14:01	17° Y 11'24	20°06'00
minimum elong	7630 Apr 18 07:11	0° 8 32'57	3°24'00	asc. node	7631 Mar 20 16:34	20° Ƴ 33'34	
	7630 Apr 18 17:23	30° ₹Ƴ		retrograde	7631 Mar 24 07:04	21° Y 39'59	
min. Earth dist.	7630 Apr 19 19:01	28° Ƴ 37'41	0.66393 AU	evening set	7631 Mar 28 02:50	20° Ƴ 14'56	
morning rise	7630 Apr 23 17:55	24° Ƴ 13'56		inferior conj	7631 Apr 02 11:15	14° Ƴ 12'11	3°12'15
direct	7630 Apr 30 01:07	21° Y 27'58		minimum elong	7631 Apr 02 09:43	14° Ƴ 17′23	3°12'01
desc. node	7630 May 07 20:34	24° Y 41'03		min. Earth dist.	7631 Apr 03 08:03	13° Ƴ 01'48	0.67482 AU
morning max el	7630 May 12 18:27	29° Ƴ 02'52	26°12'39	morning rise	7631 Apr 07 16:22	7° Ƴ 55'54	
	7630 May 13 16:34	$_{0\circ}$ 8		direct	7631 Apr 13 11:28	5° Y 20′38	
	7630 Jun 04 17:23	Π $^{\circ}0$		desc. node	7631 Apr 24 17:33	11° Ƴ 54'40	
morning set	7630 Jun 17 20:17	22° Ⅱ 39'25		morning max el	7631 Apr 25 03:47	12° Ƴ 20'17	24°51'37
	7630 Jun 21 16:52	0ంల			7631 May 09 08:25	$0^{\circ}S$	
max. Earth dist.	7630 Jun 21 18:43	0°೨08'59	1.35075 AU		7631 May 28 11:36	$\Pi^{\circ}0$	
				morning set	7631 May 31 03:57	4° ∏ 41′21	
superior conj	7630 Jun 26 22:32	10° © 27'01		max. Earth dist.	7631 Jun 03 18:50	11° Ⅱ 13'36	1.37037 AU
minimum elong	7630 Jun 27 00:10	10° © 35'18	0°28'08			_	
asc. node	7630 Jun 29 18:40	16° © 17'55		superior conj	7631 Jun 10 08:43	23° Ⅱ 43'05	
evening rise	7630 Jul 04 15:48	26°926'45		minimum elong	7631 Jun 10 12:19	24° Ⅱ 00'41	0°59'17
	7630 Jul 06 09:25	0°Ω			7631 Jun 13 12:57	0°©	
evening max el	7630 Jul 23 04:55	26° Ω 48'28	20°35'38	asc. node	7631 Jun 16 15:41	6°515'13	
	7630 Jul 27 02:32	0° Mp		evening rise	7631 Jun 18 19:09	10°534'00	
retrograde	7630 Aug 03 10:22	2° m/21'09			7631 Jun 29 08:22	0° N	10027121
desc. node	7630 Aug 03 19:47	2° m/20'46		evening max el	7631 Jul 05 18:07	8° Ω 14'00	19°27'31
evening set	7630 Aug 05 11:38	2° m/10'48		retrograde	7631 Jul 15 06:36	12° £ 55'36	
: <i>c</i> :	7630 Aug 11 12:15	30°RΩ 28°Ω13'49	2012127	evening set	7631 Jul 17 03:27	12° Ω 45'32	
inferior conj minimum elong	7630 Aug 14 16:56 7630 Aug 14 08:28	$28^{\circ} \Omega 13^{\circ} 49$ $28^{\circ} \Omega 25^{\circ} 59$		desc. node inferior conj	7631 Jul 21 16:50 7631 Jul 25 20:00	11° Ω 07'04 8° Ω 39'10	1015125
min. Earth dist.	7630 Aug 15 19:24	20 δί 23 39 27° Ω 35'46		minimum elong	7631 Jul 25 16:35	8° Ω 44'39	
morning rise	7630 Aug 13 19.24 7630 Aug 23 04:55	24° Ω 11'10	0.34798 AU	min. Earth dist.	7631 Jul 28 08:05	7°Ω02'41	0.55684 AU
direct	7630 Aug 27 05:36	24 δ (11 10 23° Ω 36'23		morning rise	7631 Aug 03 03:09	4°Ω04'23	0.55064 AU
direct	7630 Sep 09 11:40	0° m)		direct	7631 Aug 07 23:07	3°Ω11'47	
morning max el	7630 Sep 09 11:40	29° Ω 59'30	23°21'02	morning max el	7631 Aug 22 00:12	10° Ω 15'14	25°05'17
asc. node	7630 Sep 25 18:06	22° m 58'02	23 21 02	morning max er	7631 Sep 05 21:31	0° m)	25 05 17
use. Houe	7630 Sep 29 09:20	0ಂ ರ		asc. node	7631 Sep 12 15:06	12° m) 18'33	
morning set	7630 Oct 02 21:24	ა — 7° ჲ 14'46		morning set	7631 Sep 17 09:04	22° m/04'13	
8				<i>5 8 1 1 1 1 1 1 1 1 1 1</i>	7631 Sep 21 00:58	0∘ <u>⊽</u>	
superior conj	7630 Oct 09 20:42	22° £ 15'57	1°40'44		r == 00.00	- —	
minimum elong	7630 Oct 09 20:01	22° ₽ 12'12		superior conj	7631 Sep 24 06:14	7° ₽ 04'29	1°34'10
max. Earth dist.	7630 Oct 12 14:14	28° ≏ 05'22		minimum elong	7631 Sep 24 04:37		1°34'02
	7630 Oct 13 12:04	0° M .		max. Earth dist.	7631 Sep 25 18:12	10° ≏ 21'13	1.32412 AU
evening rise	7630 Oct 17 12:35	8°M12'50		evening rise	7631 Oct 01 10:18	22° ≏ 24'40	
Č	7630 Oct 29 11:32	0° ∡ ¹		Č	7631 Oct 05 05:16	0°M₊	
desc. node	7630 Oct 30 18:48	2° ∡ 107'53		desc. node	7631 Oct 17 15:51	21°M-43'53	
evening max el	7630 Nov 20 18:42	29° ∡ ¹43'46	27°20'29		7631 Oct 23 07:49	0° ∡ ¹	
-	7630 Nov 21 01:34	8°0		evening max el	7631 Nov 03 04:53	12° ∡ °43′10	27°27'30
retrograde	7630 Dec 04 07:01	7° る 02'54		retrograde	7631 Nov 16 23:10	19° ∡ 59'17	
evening set	7630 Dec 11 05:19	4° පි 26'41		evening set	7631 Nov 24 02:03	17° ∡ ³31'31	
min. Earth dist.	7630 Dec 15 01:09	0° ರ 56'19	0.64512 AU	min. Earth dist.	7631 Nov 27 18:14	14° ∡ °30'45	0.62719 AU
	7630 Dec 15 22:26	30°R ⋌ ¹		inferior conj	7631 Nov 30 14:12	11° ∡ ¹48'01	-2°54'39
inferior conj	7630 Dec 17 10:11	28° ∡ ¹23'42	-1°46'16	minimum elong	7631 Nov 30 19:38	11° ∡ ³34'59	2°52'33
minimum elong	7630 Dec 17 13:25	28° ∡ 15′02	1°44'50	morning rise	7631 Dec 07 15:13	6° ∡ ³38'55	
asc. node	7630 Dec 22 17:27	23° ∡ ³36′09		direct	7631 Dec 09 22:51	6° ∡ 14'14	
morning rise	7630 Dec 23 22:59	22° ∡ 757'19		asc. node	7631 Dec 09 14:29	6° ∡ 14'48	

morning max el	7631 Dec 16 15:53	9° × 740'26	17°48'23	morning rise	7632 Nov 19 17:37	19° M .56'10	
	7631 Dec 30 03:46	0°る		direct	7632 Nov 21 23:02	19°M36'36	
morning set	7632 Jan 01 16:22	4° ට 27'04		asc. node	7632 Nov 25 11:30	20°M27'47	
C				morning max el	7632 Nov 29 06:04	23°M14'45	18°00'53
superior conj	7632 Jan 13 06:57	24° る 31'12	0°02'28		7632 Dec 04 14:26	0° ∡ ¹	
minimum elong	7632 Jan 13 07:13	24° る 32'16	0°02'31	morning set	7632 Dec 14 22:09	17° ∡ ¹59'17	
behind sun begin	7632 Jan 12 22:13	23° る 54'31		-	7632 Dec 21 10:56	ರ∘ರ	
behind sun end	7632 Jan 13 16:13	25° る 09'55					
desc. node	7632 Jan 13 15:02	25° る 04'59		superior conj	7632 Dec 24 22:47	6° ප 15'01	0°40'09
	7632 Jan 16 14:15	0° ≈		minimum elong	7632 Dec 25 01:47	6° る 28'17	0°39'49
max. Earth dist.	7632 Jan 20 01:14	5° ≈ 37'19	1.43848 AU	desc. node	7632 Dec 30 12:01	15° る 50'37	
evening rise	7632 Jan 28 05:30	18° ≈ 31′09		max. Earth dist.	7633 Jan 01 13:22	19° る 17'28	1.42141 AU
	7632 Feb 04 18:28	0° ∀		evening rise	7633 Jan 07 05:18	28° る 30'48	
	7632 Feb 26 17:44	0 ° Υ			7633 Jan 08 03:45	0° ≈	
evening max el	7632 Feb 27 12:38	0° Ƴ 49'15	21°13'59		7633 Jan 28 10:14	0° ∀	
asc. node	7632 Mar 06 13:36	5° Y ′55′23		evening max el	7633 Feb 09 06:22	14°) € 29'09	22°30'48
retrograde	7632 Mar 07 05:23	5° Ƴ 57'38		retrograde	7633 Feb 19 01:55	20° ∺ 18'37	
evening set	7632 Mar 11 10:49	4° Υ 17'34		asc. node	7633 Feb 21 10:38	19° ∺ 50′10	
	7632 Mar 15 08:10	30° Ŗ ₩		evening set	7633 Feb 23 18:22	18° ¥ 23'31	
inferior conj	7632 Mar 16 18:17	28°) €03'12	2°49'43	inferior conj	7633 Mar 01 02:46	12°) €00'45	2°17'51
minimum elong	7632 Mar 16 16:09	28° ∺ 10′35	2°49'15	minimum elong	7633 Mar 01 00:29	12° ∺ 08'41	2°17'12
min. Earth dist.	7632 Mar 17 01:56	27°) €36'41	0.68128 AU	min. Earth dist.	7633 Feb 28 22:18	12° 升 16′15	0.68357 AU
morning rise	7632 Mar 21 21:18	21°) 49′35		morning rise	7633 Mar 06 06:27	5° ¥ 51'15	
direct	7632 Mar 27 02:38	19°) €32'04		direct	7633 Mar 10 21:40	3° ¥ 55'15	
morning max el	7632 Apr 06 13:06	25°) 44'41	23°22'23	morning max el	7633 Mar 20 01:21	9° ∺ 16′23	21°54'26
	7632 Apr 10 10:13	0 ° Υ		desc. node	7633 Mar 28 11:31	19°) 16′53	
desc. node	7632 Apr 10 14:32	0° Y 12'42			7633 Apr 05 04:47	0 ° Υ	
	7632 May 01 21:04	0°B		morning set	7633 Apr 21 18:04	25° Ƴ 14'50	
morning set	7632 May 11 12:48	15° 8 37'11			7633 Apr 24 16:29	0 \circ 8	
max. Earth dist.	7632 May 15 14:39	22° 8 36'09	1.39241 AU	max. Earth dist.	7633 Apr 27 13:12	4° 8 43'40	1.41441 AU
	7632 May 19 18:41	Π $^{\circ}0$					
				superior conj	7633 May 05 06:16	17° 8 56'22	
superior conj	7632 May 23 04:50	6° Ⅱ 16'38		minimum elong	7633 May 05 11:42	18° 8 20'22	1°54'43
minimum elong	7632 May 23 10:06	6° Ⅱ 41'08	1°29'22		7633 May 11 23:07	Π °0	
evening rise	7632 Jun 01 14:35	24° Ⅱ 14'50		evening rise	7633 May 15 22:24	7° Ⅱ 19'17	
asc. node	7632 Jun 02 12:42	26° Ⅱ 01'35		asc. node	7633 May 20 09:43	15° Ⅱ 31'31	
	7632 Jun 04 14:34	0			7633 May 29 10:13	0ංම	
evening max el	7632 Jun 17 18:45	20° © 22'33	18°40'13	evening max el	7633 Jun 01 03:08	3° 5 04'48	18°13'15
retrograde	7632 Jun 25 19:54	24°©21'51		retrograde	7633 Jun 08 03:51	6° © 37'02	
evening set	7632 Jun 27 21:40	24° © 06'53		evening set	7633 Jun 10 13:09	6°9513'16	
inferior conj	7632 Jul 05 18:49	19° 5 42'49	0°31'55	inferior conj	7633 Jun 17 15:09	1°528'45	1°53'15
minimum elong	7632 Jul 05 20:01	19° © 40'35	0°31'23	minimum elong	7633 Jun 17 18:13	1°5522'02	1°52'13
desc. node	7632 Jul 07 13:52	18°521'34			7633 Jun 19 07:21	30°RⅡ	
min. Earth dist.	7632 Jul 09 01:18	17°5516'23	0.57345 AU	min. Earth dist.	7633 Jun 21 00:26	28° Ⅱ 31'44	0.59469 AU
morning rise	7632 Jul 13 14:51	14°930'54		desc. node	7633 Jun 24 10:54	26° Ⅱ 00'41	
direct	7632 Jul 19 07:21	13°9510'34	26022157	morning rise	7633 Jun 24 20:17	25° I I46'40	
morning max el	7632 Aug 02 16:02	20°5643'39	26°33'57	direct	7633 Jul 01 05:11	23°II53'58	
	7632 Aug 10 16:29	0° N			7633 Jul 13 17:07	0°95	27022105
	7632 Aug 28 12:43	0° Mp		morning max el	7633 Jul 15 13:58	1°5645'18	27°33'05
asc. node	7632 Aug 29 12:06	1° Mp 58'54		. ,	7633 Aug 05 00:03	0°N	
morning set	7632 Aug 31 19:23	6° Mp 47′23		morning set	7633 Aug 16 02:39	21° Ω 18'52	
aumorior aoni	7622 Con 07 17:45	210 m 56114	1922/00	asc. node	7633 Aug 16 09:05	21° \O 52'34	
superior conj	7632 Sep 07 17:45	21° Mp 56'14		F4b 4i-4	7633 Aug 20 03:56	0°M) 5°M>1√122	1 21717 ATT
minimum elong	7632 Sep 07 15:36	21° Mp 44'18		max. Earth dist.	7633 Aug 22 13:26	5° Mp 16′22	1.31717 AU
max. Earth dist.	7632 Sep 08 03:05	22° Mp 47'53	1.31841 AU		7(22 A 22 05-26	COM 44152	1905112
	7632 Sep 11 09:36	0° ⊽		superior conj	7633 Aug 23 05:26	6° Mp 44'53	1°05'12
evening rise	7632 Sep 14 14:47	6° £ 54'03		minimum elong	7633 Aug 23 03:12	6° Mp 32'31	1°04'47
1 1	7632 Sep 26 17:25	0°M		evening rise	7633 Aug 29 23:40	21° m/33'44	
desc. node	7632 Oct 03 12:53	10°M41'28	27001141	dosa nada	7633 Sep 03 01:20	ე∘ <u>ი</u> 189	
evening max el	7632 Oct 15 10:12	25°M02'12	27°01'41	desc. node	7633 Sep 20 09:57	28° △ 45'32	
natra an- J-	7632 Oct 21 21:43	0° x̄¹ 2° x̄ᠯ 12/55		avanin 1	7633 Sep 21 09:29	0°M 6°M 22125	26002120
retrograde	7632 Oct 29 07:43	2°×712'55		evening max el	7633 Sep 27 08:22	6°M32'35	26~02.38
evening set	7632 Nov 05 07:18	0° ≯ 04'50		retrograde	7633 Oct 11 06:54	13°M37'13	
min D4l- J'	7632 Nov 05 10:30	30°RM 27°M 24/22	0.60600 411	evening set	7633 Oct 17 16:17	11°M59'40	0.50/1/ 411
min. Earth dist.	7632 Nov 09 00:46	27°M24'23	0.60698 AU	min. Earth dist.	7633 Oct 21 21:19	9°M24'40	0.58616 AU
inferior conj	7632 Nov 12 04:20	24°M45'04		inferior conj	7633 Oct 25 01:09	7°M05'39	
minimum elong	7632 Nov 12 11:18	24°M30'20	3-39.21	minimum elong	7633 Oct 25 07:30	6°M53′57	4-30-36

morning rise direct asc. node	7633 Nov 02 01:01 7633 Nov 04 08:28 7633 Nov 12 08:31 7633 Nov 12 13:46	2°M39'09 2°M21'30 6°M08'00 6°M20'29	18°33'36	direct morning max el asc. node	7634 Oct 16 23:22 7634 Oct 26 11:26 7634 Oct 30 05:34 7634 Nov 03 22:21	14° Ω 17'36 18° Ω 47'02 23° Ω 00'26 0° M	19°28'10
morning max el morning set	7633 Nov 27 14:04 7633 Nov 28 16:03	0° ⊀ ⁷ 2° ₹ ⁷ 05'16	18 33 30	morning set	7634 Nov 12 18:07 7634 Nov 19 11:03	16°M33'04 0°⊀	
superior conj minimum elong	7633 Dec 07 12:17 7633 Dec 07 15:46	19° ₰ 00'52 19° ₰ 17'06	1°08'38 1°08'19	superior conj minimum elong	7634 Nov 20 18:14 7634 Nov 20 20:54	2° ∡ ¹46'34	
max. Earth dist.	7633 Dec 13 13:38 7633 Dec 14 21:04	0° 궁 2° 궁 17'36	1.40089 AU	max. Earth dist. evening rise	7634 Nov 27 02:51 7634 Nov 30 20:23	14° ∡ ³38'43 21° ∡ ²21'35	1.37935 AU
desc. node	7633 Dec 17 09:02	6°る35'15		desc. node	7634 Dec 04 06:03	27° х 14′25	
evening rise	7633 Dec 19 01:53 7634 Jan 01 02:54	9°る27'17 0°≈			7634 Dec 05 21:29 7634 Dec 26 02:11	0°る 0°≈	
evening max el	7634 Jan 22 20:58	28° ≈ 13'12	23°50'53	evening max el	7635 Jan 05 10:09	11° ≈ 59'38	25°07'46
ratra ara da	7634 Jan 24 18:05 7634 Feb 02 19:20	0° 		retrograde	7635 Jan 17 08:32 7635 Jan 23 02:09	18°≈54'11 16°≈31'26	
retrograde evening set	7634 Feb 02 19:20 7634 Feb 07 24:00	2°) (29'44		evening set asc. node	7635 Jan 25 02:09 7635 Jan 26 04:47	10°≈31°26 13°≈15'57	
asc. node	7634 Feb 08 07:42	2° 升 12'55		min. Earth dist.	7635 Jan 27 13:27	11° ≈ 32'56	0.67628 AU
	7634 Feb 10 10:10	30°R≈		inferior conj	7635 Jan 28 16:44	10°≈03'54	0°49'20
inferior conj minimum elong	7634 Feb 13 10:52 7634 Feb 13 08:53	26°≈02'23 26°≈09'06	1°37'33 1°36'54	minimum elong morning rise	7635 Jan 28 15:34 7635 Feb 03 05:16	10°≈07'44 4°≈07'41	0°48'57
min. Earth dist.	7634 Feb 12 18:56	26°≈56'38	0.68187 AU	direct	7635 Feb 06 18:24	2°≈55'20	
morning rise	7634 Feb 18 17:46	19° ≈ 58'37		morning max el	7635 Feb 13 22:53	6° ≈ 55'03	19°29'41
direct	7634 Feb 22 19:25	18°≈25'05	20025122	greatest brilliancy	7635 Feb 26 19:32	23°≈50'13	-0.7m
morning max el	7634 Mar 02 20:05 7634 Mar 08 20:22	22° ≈ 59'49 0°) €	20°35'22	desc. node	7635 Mar 02 05:29 7635 Mar 02 22:06	28°≈57'08 0°) €	
desc. node	7634 Mar 15 08:30	8°) 54′58		morning set	7635 Mar 10 20:31	12°) €08'31	
	7634 Mar 29 11:54	0° Y			7635 Mar 22 07:38	0° Y	
morning set	7634 Mar 31 22:43	3° Υ 47'12 17° Υ 48'05	1 42250 ATT	max. Earth dist.	7635 Mar 23 08:43	1° Y 39'02	1.44720 AU
max. Earth dist.	7634 Apr 09 19:18	1/- 1 4803	1.43350 AU	superior conj	7635 Mar 27 10:07	8° Ƴ 06'27	-2°08'03
superior conj	7634 Apr 16 08:36	28° Y 33'36	-2°09'48	minimum elong	7635 Mar 27 06:01	7° Ƴ 50'04	
minimum elong	7634 Apr 16 11:01	28° Y 43'45	2°09'48		7635 Apr 09 18:51	0° 8	
evening rise	7634 Apr 17 05:14 7634 Apr 28 14:22	0° と 19° と 38'20		evening rise asc. node	7635 Apr 10 09:55 7635 Apr 24 03:49	1° 8 03'01 23° 8 18'39	
evening rise	7634 May 04 12:25	0°Ⅱ		evening max el	7635 Apr 29 04:45	29° 8 34'02	18°17'02
asc. node	7634 May 07 06:45	4° Ⅱ 39'35		Č	7635 Apr 29 15:27	$\Pi^{\circ}0$	
evening max el	7634 May 15 15:34	16° Ⅱ 11′24	18°05'43	retrograde	7635 May 05 14:13	2° II 58'53	
retrograde evening set	7634 May 22 03:28 7634 May 24 20:07	19° Ⅲ 32'37 18° Ⅲ 57'29		evening set	7635 May 08 13:50 7635 May 11 11:51	2°Ⅱ10'52 30°R႘	
inferior conj	7634 May 31 06:24	13° I I52'49	2°46'15	inferior conj	7635 May 14 12:28	26° 8 47'44	3°15'11
minimum elong	7634 May 31 09:11	13° Ⅱ 45'46	2°45'33	minimum elong	7635 May 14 14:02	26° 8 43'18	3°14'54
min. Earth dist.	7634 Jun 03 07:29	10° Ⅱ 49'35	0.61715 AU	min. Earth dist.	7635 May 16 23:52	24° 8 00'10	0.63799 AU
morning rise desc. node	7634 Jun 06 20:15 7634 Jun 11 07:56	7°Ⅲ50'58 5°Ⅲ44'57		morning rise direct	7635 May 20 13:06 7635 May 27 07:18	20° 8 35'06 17° 8 54'34	
direct	7634 Jun 13 13:48	5° Ⅱ 29'32		desc. node	7635 May 29 04:58	18° 8 06'03	
morning max el	7634 Jun 27 18:16	13° Ⅱ 29'56	27°55'05	morning max el	7635 Jun 10 03:08	25° 8 55'28	27°39'35
	7634 Jul 10 23:13 7634 Jul 28 10:42	0。 Ư 0。ௐ			7635 Jun 13 21:22 7635 Jul 04 12:32	0ಂ ಲ 0∘∏	
morning set	7634 Jul 31 04:57	5° Ω 32'56		morning set	7635 Jul 14 23:58	19° 5 23'16	
asc. node	7634 Aug 03 06:05	11° Ω 54'30		max. Earth dist.	7635 Jul 19 23:28	29°534'37	1.32843 AU
max. Earth dist.	7634 Aug 05 21:32	17° Ω 35'36	1.32046 AU	4-	7635 Jul 20 04:18	0° Ω	
superior conj	7634 Aug 07 15:28	21° Ω 24'34	0°43'42	asc. node	7635 Jul 21 03:06	2° Ω 00′32	
minimum elong	7634 Aug 07 13:39	21° Ω 14'37		superior conj	7635 Jul 22 22:02	5° Ω 49'55	0°18'11
	7634 Aug 11 13:18	0° m		minimum elong	7635 Jul 22 21:09	5° Ω 45'13	0°17'55
evening rise	7634 Aug 14 10:52 7634 Aug 26 19:40	6° Mp 17′10 0° <u>Ω</u>		evening rise	7635 Jul 29 22:33 7635 Aug 03 07:18	20° Ω 58'37 0° m	
desc. node	7634 Sep 07 07:01	0 == 15° £ 34'31		evening max el	7635 Aug 03 07:18 7635 Aug 21 10:33	27° Mp 30'36	22°58'15
evening max el	7634 Sep 08 22:58		24°36'46	5	7635 Aug 24 06:34	0ಂ ಹ	
retrograde	7634 Sep 22 18:33	24° £ 12'00		desc. node	7635 Aug 25 04:05	0° £ 40′22	
evening set min. Earth dist.	7634 Sep 28 00:50 7634 Oct 03 10:01	23° £ 10'17 20° £ 22'30	0.56719 AU	retrograde evening set	7635 Sep 03 18:00 7635 Sep 07 12:01	4° £ 09'48 3° £ 38'59	
inferior conj	7634 Oct 06 01:56	20 = 22 30 18° £ 40'31		min. Earth dist.	7635 Sep 07 12:01 7635 Sep 14 18:59	0° £ 21'06	0.55316 AU
minimum elong	7634 Oct 06 03:49	18° ≏ 37'29			7635 Sep 15 09:41	30°R Mp	
morning rise	7634 Oct 14 08:59	14° £ 36′08		inferior conj	7635 Sep 16 07:26	29° m 28'35	-5°17'55

minimum elong	7635 Sep 16 02:02	29° mp 36'23	5°17'16	evening max el	7636 Aug 02 03:57	7° m 54'03	21°23'34
morning rise	7635 Sep 16 02:02 7635 Sep 24 18:11	25° m 39'02	3 17 10	desc. node	7636 Aug 11 01:10	13° m) 29'45	21 25 54
direct	7635 Sep 27 19:19	25° mp 17'17		retrograde	7636 Aug 14 07:56	13° m 55'48	
4.1.000	7635 Oct 08 08:46	0° ⊽		evening set	7636 Aug 16 18:50	13° m) 41'57	
morning max el	7635 Oct 08 20:40	0° £ 27'10	20°44'59	inferior conj	7636 Aug 26 01:02	9° m/43'43	-4°11'25
asc. node	7635 Oct 17 02:36	10° ≏ 49'58		minimum elong	7636 Aug 25 15:37	9° m 56'56	4°08'55
	7635 Oct 27 10:58	0° M		min. Earth dist.	7636 Aug 26 04:04	9° m/39'28	0.54710 AU
morning set	7635 Oct 28 01:30	1°M14'42		morning rise	7636 Sep 03 13:15	5° m 51'30	
				direct	7636 Sep 07 04:05	5° m 23'12	
superior conj	7635 Nov 04 12:05	16° ™ 40′19	1°38'31	morning max el	7636 Sep 19 17:50	11° m 20'30	22°20'48
minimum elong	7635 Nov 04 13:25	16°M47'09	1°38'33	asc. node	7636 Oct 02 23:36	29° m 22'36	
max. Earth dist.	7635 Nov 09 11:06	26°M35'19	1.35918 AU		7636 Oct 03 08:02	0∘ ⊽	
	7635 Nov 11 05:34	0° ∡ 7		morning set	7636 Oct 11 11:56	16° ഫ 03'02	
evening rise	7635 Nov 13 10:09	4° ₰ 07'23			7636 Oct 18 01:01	0° M	
desc. node	7635 Nov 21 03:05	17° ∡ ¹44'04					
	7635 Nov 28 19:28	0°ප		superior conj	7636 Oct 18 14:09	1°M09'38	1°41'50
evening max el	7635 Dec 18 23:06	25° る 44'49	26°14'17	minimum elong	7636 Oct 18 14:08	1°M09'34	1°41'53
	7635 Dec 24 00:11	0° ≈		max. Earth dist.	7636 Oct 22 02:11	8°M28'36	1.34220 AU
retrograde	7635 Dec 31 16:50	2° ≈ 57'21		evening rise	7636 Oct 26 15:12	17°MJ34'11	
evening set	7636 Jan 06 23:04	0° ≈ 24'42			7636 Nov 02 07:58	0° ∡ ¹	
	7636 Jan 07 10:37	30°Rる		desc. node	7636 Nov 07 00:09	7° ∡ ¹58'35	
min. Earth dist.	7636 Jan 11 03:42	26° る 00'57	0.66695 AU		7636 Nov 22 03:02	0°ಕ	
inferior conj	7636 Jan 12 18:28	24°る02'02		evening max el	7636 Nov 30 12:07	9° ට 21'39	27°03'13
minimum elong	7636 Jan 12 18:37	24° る 01'32		retrograde	7636 Dec 13 19:33	16° ප් 41'32	
transit middle	7636 Jan 12 18:37	24° る 01'32	0°06'03	evening set	7636 Dec 20 12:45	14° る 04'30	
transit begin	7636 Jan 12 15:58	24° る 09'43		min. Earth dist.	7636 Dec 24 11:27	10° ට 15'04	0.65399 AU
transit end	7636 Jan 12 21:17	23° る 53'22		inferior conj	7636 Dec 26 13:52	7°る52'22	
asc. node	7636 Jan 13 01:52	23°る39'20		minimum elong	7636 Dec 26 15:51	7°る46'42	1°07'16
morning rise	7636 Jan 18 14:53	18°る15'23		asc. node	7636 Dec 29 22:55	4°る20'00	
direct	7636 Jan 21 17:00	17°る21'19	10020122	morning rise	7637 Jan 01 20:11	2°る17'45	
morning max el	7636 Jan 28 08:57	20°る58'28	18°39'33	direct	7637 Jan 04 13:14	1°る38'09	10007100
desc. node	7636 Feb 04 13:29	0° ≈ 19° ≈ 16'46		morning max el	7637 Jan 11 00:01 7637 Jan 27 23:04	5° そ 03'53	18°06'00
	7636 Feb 17 02:27	19 ≈1646 21°≈26'57		marring gat	7637 Jan 27 23.04 7637 Jan 29 07:48	0 ≈ 2°≈13'59	
morning set	7636 Feb 18 11:32 7636 Feb 23 22:03	21 ≈ 2037 0° H		morning set desc. node	7637 Feb 02 23:26	2 ≈13 39 9°≈49'00	
max. Earth dist.	7636 Mar 05 02:26	15°) 57'09	1.45410 AU	desc. Hode	7037 Feb 02 23.20	9 ≈4900	
max. Latin dist.	7030 IVIAI 03 02.20	13 /(3/0)	1.43410 AO	superior conj	7637 Feb 13 00:05	25° ≈ 51'28	-1°07'41
superior conj	7636 Mar 05 17:29	16° ¥ 56'05	-1°46'10	minimum elong	7637 Feb 12 16:13	25°≈20'28	1°06'37
minimum elong	7636 Mar 05 08:10	16° X 19'36		minimum ciong	7637 Feb 15 15:13	0° ∺	1 0037
minimum crong	7636 Mar 14 00:45	0°Υ	1 13 21	max. Earth dist.	7637 Feb 15 21:47	0° ∺ 25'46	1.45363 AU
evening rise	7636 Mar 21 06:02	11° Υ 29'18		evening rise	7637 Mar 01 04:49	21°) 07'20	1.10000110
greatest brilliancy	7636 Mar 29 03:07	24° Y °04'43	-0.9m	<i>3</i> 21	7637 Mar 06 22:39	0° Υ	
8	7636 Apr 01 21:56	0°8		greatest brilliancy	7637 Mar 14 03:30	10° Y ′58′30	-0.7m
asc. node	7636 Apr 10 00:53	11° 8 19'05		evening max el	7637 Mar 25 23:09	26° Ƴ 41'27	19°32'41
evening max el	7636 Apr 11 15:57	13° 8 05'26	18°46'26	asc. node	7637 Mar 27 21:58	28° Y ′29′23	
retrograde	7636 Apr 18 07:54	16° 8 46'47			7637 Mar 30 03:28	0°8	
evening set	7636 Apr 21 14:39	15° 8 45'00		retrograde	7637 Apr 02 05:11	0° 8 50'11	
inferior conj	7636 Apr 27 05:24	10° 8 05'08	3°25'13		7637 Apr 05 03:32	30° ŖƳ	
minimum elong	7636 Apr 27 05:34	10° 8 04'38	3°25'08	evening set	7637 Apr 05 19:52	29° Ƴ 33'55	
min. Earth dist.	7636 Apr 29 01:28	7° 8 48'56	0.65559 AU	inferior conj	7637 Apr 11 05:52	23° Y 39'09	3°20'28
morning rise	7636 May 02 19:53	3° 8 48'11		minimum elong	7637 Apr 11 04:51	23° Y '42'31	3°20'21
direct	7636 May 09 08:25	1° 8 00'37		min. Earth dist.	7637 Apr 12 10:56	22° Y 03'20	0.66908 AU
desc. node	7636 May 15 01:59	2° 8 45'21		morning rise	7637 Apr 16 13:29	17° Y 21′52	
morning max el	7636 May 22 13:36	8° 8 50'03	26°51'38	direct	7637 Apr 22 15:52	14° Ƴ 39'05	
	7636 Jun 08 02:21	Π °0		desc. node	7637 May 01 22:58	19° Ƴ 11'10	
	7636 Jun 25 22:40	0 \circ \odot		morning max el	7637 May 04 23:25	22° Y ′01′28	25°39'44
morning set	7636 Jun 27 08:33	2° 5 340'26			7637 May 11 22:35	0°8	
max. Earth dist.	7636 Jul 01 15:31	11° © 04'41	1.34122 AU		7637 Jun 01 08:37	0°Щ	
				morning set	7637 Jun 10 02:44	15° Ⅱ 13'45	
superior conj	7636 Jul 05 22:50	19° © 53'51		max. Earth dist.	7637 Jun 13 20:22	22° I I1'00	1.35864 AU
minimum elong	7636 Jul 05 23:25	19°956'54	0°10'40		7637 Jun 17 21:07	0ං ව	
behind sun begin	7636 Jul 05 19:06	19° © 34'27			E/0E Y 10 15	20	0041110
behind sun end	7636 Jul 06 03:43	20°5519'23		superior conj	7637 Jun 19 15:16	3°529'54	
asc. node	7636 Jul 07 00:05	22°506'01		minimum elong	7637 Jun 19 17:43	3°542'13	0°41'19
	7636 Jul 10 17:49	0°Ω		asc. node	7637 Jun 23 21:06	12°507'29	
evening rise	7636 Jul 13 08:41	5° Ω 31'20 0° m		evening rise	7637 Jun 27 15:11 7637 Jul 02 18:10	19° © 49'36 0° Ω	
	7636 Jul 26 17:02						

evening max el	7637 Jul 15 09:41	18° Ω 54'21	20°04'12	evening max el	7638 Jun 28 04:12	0° Ω 39'02	19°04'53
retrograde	7637 Jul 25 21:40	24° Ω 04'33		retrograde	7638 Jul 07 00:11	5° ん 00'31	
evening set	7637 Jul 27 19:15	23° Ω 55′09		evening set	7638 Jul 08 22:43	4° Ω 48'47	
desc. node	7637 Jul 28 22:11	23° Ω 41′10		desc. node	7638 Jul 15 19:12	1° Ω 36′26	
inferior conj	7637 Aug 05 20:36	19° Ω 56′06	-2°23'34	inferior conj	7638 Jul 17 07:19	0° £ 35′33	-0°27'23
minimum elong	7637 Aug 05 14:00	20° Ω 05'58	2°21'14	minimum elong	7638 Jul 17 06:09	0° Ω 37'34	0°27'01
min. Earth dist.	7637 Aug 07 15:09	18° Ω 52'29	0.55066 AU		7638 Jul 18 03:58	30° ₹ ∽	
morning rise	7637 Aug 14 07:14	15° Ω 41′00		min. Earth dist.	7638 Jul 20 05:21	28° 5 36'13	0.56317 AU
direct	7637 Aug 18 15:52	14° Ω 59'36		morning rise	7638 Jul 25 10:28	25° 5 °45'10	
morning max el	7637 Sep 01 07:28	21° Ω 41'44	24°06'08	direct	7638 Jul 30 15:39	24°9541'37	
	7637 Sep 08 13:17	0° m			7638 Aug 11 15:52	$0 {\circ} \Omega$	
asc. node	7637 Sep 19 20:34	18° ™ 27'59		morning max el	7638 Aug 13 20:38	1° Ω 58′29	25°45'53
morning set	7637 Sep 25 23:36	0° ჲ 53'07			7638 Sep 02 14:30	0° m)	
	7637 Sep 25 13:35	0∘ ত		asc. node	7638 Sep 06 17:33	7° m ,57'50	
				morning set	7638 Sep 10 10:54	15°Mp40'31	
superior conj	7637 Oct 02 21:36	15° ≏ 53'00	1°38'39				
minimum elong	7637 Oct 02 20:28	15° ≏ 46'51	1°38'36	superior conj	7638 Sep 17 08:12	0° ≙ 43'39	1°29'42
max. Earth dist.	7637 Oct 05 01:51	20° ≏ 35'10	1.32945 AU	minimum elong	7638 Sep 17 06:18	0° ჲ 33'10	1°29'30
	7637 Oct 09 13:38	0° M			7638 Sep 17 00:17	0∘ ত	
evening rise	7637 Oct 10 07:47	1°M32'15		max. Earth dist.	7638 Sep 18 08:28	2° £ 57'25	1.32116 AU
desc. node	7637 Oct 24 21:12	27° M 50'59		evening rise	7638 Sep 24 08:44	15° ≏ 52'52	
	7637 Oct 26 05:59	0° ∡ ¹			7638 Oct 01 12:42	0° M	
evening max el	7637 Nov 13 00:09	22° ∡ ³39′03	27°27'24	desc. node	7638 Oct 11 18:14	17° ™ 12'20	
retrograde	7637 Nov 26 15:47	29° ∡ 57'37			7638 Oct 21 06:38	0° ∡ ¹	
evening set	7637 Dec 03 16:34	27° ∡ ¹24'01		evening max el	7638 Oct 26 08:52	5° ∡ 23'51	27°20'49
min. Earth dist.	7637 Dec 07 10:34	24° ∡ ¹06'41	0.63775 AU	retrograde	7638 Nov 09 04:37	12° ∡ ³36'57	
inferior conj	7637 Dec 10 00:21	21° ∡ ¹28'28	-2°15'07	evening set	7638 Nov 16 07:14	10° ∡ 16'28	
minimum elong	7637 Dec 10 04:32	21° ∡ 17'44	2°13'21	min. Earth dist.	7638 Nov 19 23:18	7° ∡ ¹25'39	0.61878 AU
morning rise	7637 Dec 16 18:13	16° ∡ ¹08'48		inferior conj	7638 Nov 22 22:57	4° ∡ ¹42'52	-3°23'36
asc. node	7637 Dec 16 19:57	16° ∡ °07'07		minimum elong	7638 Nov 23 05:10	4° х 28'40	
direct	7637 Dec 19 04:31	15° х 39'43		8	7638 Nov 29 09:39	30°RM	
morning max el	7637 Dec 25 17:13	19° х 03′27	17°49'41	morning rise	7638 Nov 30 05:12	29°M41'39	
5 5	7638 Jan 02 19:05	0°ಕ		direct	7638 Dec 02 11:34	29°M19'27	
morning set	7638 Jan 11 07:29	14° る 21'07		asc. node	7638 Dec 03 16:58	29°M26'09	
desc. node	7638 Jan 20 20:25	0°≈29'17		use. noue	7638 Dec 05 11:46	0° √	
	7638 Jan 20 13:21	0° ≈		morning max el	7638 Dec 09 09:27	2° × ⁷ 49'37	17°51'21
	7000 0411 20 13.21			morning set	7638 Dec 25 04:07	27° × ⁷ 28'09	1, 5121
superior conj	7638 Jan 23 23:55	5° ≈ 39'43	-0°22'35	morning sec	7638 Dec 26 13:50	0°る	
minimum elong	7638 Jan 23 21:25	5°≈29'31					
max. Earth dist.	7638 Jan 29 16:26		1.44593 AU	superior conj	7639 Jan 05 01:20	16° පි 42'16	0°19'28
	7638 Feb 08 09:43	0° ₩		minimum elong	7639 Jan 05 03:05	16° る 49'44	0°19'18
evening rise	7638 Feb 08 16:17	0° ¥ 25'12		desc. node	7639 Jan 07 17:26	21°る14'10	
	7638 Feb 28 16:09	0°Υ		max. Earth dist.	7639 Jan 12 07:56	28° る 51'28	1.43185 AU
evening max el	7638 Mar 09 01:05	10° Υ 19'12	20°33'35		7639 Jan 13 00:47	0° ≈	
asc. node	7638 Mar 14 19:02	14° Y 35'08		evening rise	7639 Jan 19 07:44	10° ≈ 00'51	
retrograde	7638 Mar 17 03:37	15° Y °03'47		8	7639 Feb 01 13:30	0°) €	
evening set	7638 Mar 21 03:21	13° Y '32'29		evening max el	7639 Feb 19 21:37	23°) 58'15	21°45'47
inferior conj	7638 Mar 26 11:08	7° Ƴ 24'43	3°03'52	retrograde	7639 Mar 01 01:16	29°) €23'36	
minimum elong	7638 Mar 26 09:18	7° Ƴ 31'01	3°03'33	asc. node	7639 Mar 01 16:04	29°) €21'39	
min. Earth dist.	7638 Mar 27 02:15	6° Ƴ 32'52	0.67817 AU	evening set	7639 Mar 05 11:21	27° ¥ 36'58	
morning rise	7638 Mar 31 15:01	1° Y ′09'28		inferior conj	7639 Mar 10 19:01	21°) 18'45	2°37'16
	7638 Apr 02 02:24	30° ₹		minimum elong	7639 Mar 10 16:46		2°36'43
direct	7638 Apr 06 04:32	28°) (40'49		min. Earth dist.	7639 Mar 10 21:23	21°) (10'34	0.68287 AU
	7638 Apr 10 16:55	0°Υ		morning rise	7639 Mar 15 22:02	15° ¥ 06'57	
morning max el	7638 Apr 17 08:15	5° Υ 21'09	24°13'55	direct	7639 Mar 20 21:25	12°) 58'22	
desc. node	7638 Apr 18 19:57	6° Υ 54'30	2. 13.33	morning max el	7639 Mar 30 18:22	18°) (3822	22°44'16
desc. node	7638 May 06 08:37	0°8		desc. node	7639 Apr 05 16:57	25° X 33'55	22 1110
morning set	7638 May 23 01:19	26° 8 48'47		desc. node	7639 Apr 09 03:33	0°Υ	
morning set					7639 Apr 29 12:12	0°8	
	•	0°Π			7057 rpi 27 12.12	v O	
may Farth diet	7638 May 24 21:03	0°Ⅱ 3°Ⅲ17'37	1 37963 ATT	morning set	7639 May 03 22:45	70×11136	
max. Earth dist.	•		1.37963 AU	morning set	7639 May 03 22:45	7° 8 11'36	1 40205 ATT
	7638 May 24 21:03 7638 May 26 17:27	3° Ⅱ 17'37		morning set max. Earth dist.	7639 May 03 22:45 7639 May 08 14:10	7° 8 11'36 14° 8 58'48	1.40205 AU
superior conj	7638 May 24 21:03 7638 May 26 17:27 7638 Jun 02 19:58	3° П 17'37 16° П 29'03	-1°12'57	max. Earth dist.	7639 May 08 14:10	14° 8 58'48	
	7638 May 24 21:03 7638 May 26 17:27 7638 Jun 02 19:58 7638 Jun 03 00:22	3° Д 17'37 16° Д 29'03 16° Д 50'07	-1°12'57	max. Earth dist.	7639 May 08 14:10 7639 May 16 08:45	14° 8 58'48 28° 8 41'01	-1°41'32
superior conj minimum elong	7638 May 24 21:03 7638 May 26 17:27 7638 Jun 02 19:58 7638 Jun 03 00:22 7638 Jun 09 17:47	3° Ⅱ 17'37 16° Ⅲ 29'03 16° Ⅲ 50'07 0° ໑	-1°12'57	max. Earth dist.	7639 May 08 14:10 7639 May 16 08:45 7639 May 16 14:22	14° 8 58'48 28° 8 41'01 29° 8 06'35	-1°41'32
superior conj minimum elong asc. node	7638 May 24 21:03 7638 May 26 17:27 7638 Jun 02 19:58 7638 Jun 03 00:22 7638 Jun 09 17:47 7638 Jun 10 18:08	3°П17'37 16°П29'03 16°П50'07 0°© 2°©00'31	-1°12'57	max. Earth dist. superior conj minimum elong	7639 May 08 14:10 7639 May 16 08:45 7639 May 16 14:22 7639 May 17 02:05	14°₩58'48 28°₩41'01 29°₩06'35 0°Щ	-1°41'32
superior conj minimum elong	7638 May 24 21:03 7638 May 26 17:27 7638 Jun 02 19:58 7638 Jun 03 00:22 7638 Jun 09 17:47	3° Ⅱ 17'37 16° Ⅲ 29'03 16° Ⅲ 50'07 0° ໑	-1°12'57	max. Earth dist.	7639 May 08 14:10 7639 May 16 08:45 7639 May 16 14:22	14° 8 58'48 28° 8 41'01 29° 8 06'35	-1°41'32

	7639 Jun 02 04:37	0° ©		evening max el	7640 May 24 19:06	25° ∏ 56'41	18°07'38
evening max el	7639 Jun 11 08:33	13° © 02'35	18°26'14	retrograde	7640 May 31 13:13	29° I I22'44	10 07 30
retrograde	7639 Jun 18 21:48	16°9548'33	10 20 14	evening set	7640 Jun 03 01:32	28° I I54'31	
evening set	7639 Jun 21 02:45	16°930'11		inferior conj	7640 Jun 09 20:22	24° I [01'13	2°18'59
inferior conj	7639 Jun 28 15:24	11°957'05	1°10'04	minimum elong	7640 Jun 09 23:30	23° I 53'53	2°18'03
minimum elong	7639 Jun 28 17:43	11°952'24	1°09'10	min. Earth dist.	7640 Jun 13 03:07	20° I 58'27	0.60422 AU
min. Earth dist.	7639 Jul 02 00:36	9°9515'04	0.58212 AU	morning rise	7640 Jun 16 18:50	18° Ⅱ 09'04	0.00422710
desc. node	7639 Jul 02 16:15	8°9345'44	0.30212710	desc. node	7640 Jun 18 13:19	17° Ⅱ 10′26	
morning rise	7639 Jul 06 05:21	6°931'12		direct	7640 Jun 23 08:12	16° Ⅱ 03'24	
direct	7639 Jul 12 05:29	4°957'33		morning max el	7640 Jul 07 16:04	24° I 100'17	27°47'13
morning max el	7639 Jul 26 14:55	12°938'57	27°03'32	morning max cr	7640 Jul 13 01:56	0°95	27 47 13
morning max or	7639 Aug 09 06:46	0°Ω	27 03 32		7640 Aug 01 13:23	$0^{\circ}\Omega$	
asc. node	7639 Aug 24 14:32	27° Ω 44'27		morning set	7640 Aug 09 01:36	14° Ω 44'45	
morning set	7639 Aug 25 20:08	0° mg 19'24		asc. node	7640 Aug 10 11:32	17°Ω42'30	
morning set	7639 Aug 25 16:28	0°M)		max. Earth dist.	7640 Aug 15 04:34	27°Ω53'26	1.31799 AU
	7039 Aug 23 10.28	עוו ט		max. Earth dist.	7040 Aug 15 04.54	21 0633 20	1.31/99 AU
superior conj	7639 Sep 01 19:59	15° m 34'29	1°15'32	superior conj	7640 Aug 16 07:12	0° m 20'14	0°56'36
minimum elong	7639 Sep 01 17:44	15° mp 22'01	1°15'11	minimum elong	7640 Aug 16 05:05	0° m 08'32	0°56'11
max. Earth dist.	7639 Sep 01 18:39	15° mp 27'05	1.31732 AU		7640 Aug 16 03:32	o° mp	
	7639 Sep 08 10:13	0∘ <u>⊽</u>		evening rise	7640 Aug 23 01:28	15° m 09'17	
evening rise	7639 Sep 08 15:21	0° ჲ 27'16		C	7640 Aug 30 09:43	0∘ <u>⊽</u>	
8 21	7639 Sep 24 15:51	0°M₊		desc. node	7640 Sep 14 12:20	23° £ 24'30	
desc. node	7639 Sep 28 15:17	5° M 49'20		evening max el	7640 Sep 19 05:49	28° ♀ 30'17	25°28'37
evening max el	7639 Oct 08 11:20	17°M22'28	26°40'25	evening max er	7640 Sep 20 21:26	0°M	23 20 37
retrograde	7639 Oct 22 09:07	24°M30'14	20 1025	retrograde	7640 Oct 03 03:55	5°M33'00	
evening set	7639 Oct 22 05:07 7639 Oct 29 04:27	22°M33'46		evening set	7640 Oct 09 03:23	4°M10'12	
min. Earth dist.	7639 Nov 02 01:06	19°M58'05	0.59811 AU	min. Earth dist.	7640 Oct 13 17:49	1°M32'08	0.57769 AU
inferior conj	7639 Nov 02 01:00 7639 Nov 05 06:06	17°M25'14		IIIII. Eartii dist.	7640 Oct 15 17:49 7640 Oct 15 23:24	1 11€32 08 30°RΩ	0.37709 AU
,	7639 Nov 05 06.06 7639 Nov 05 13:11	17 IIC23 14 17°IIC11'07		inforior coni	7640 Oct 15 23.24 7640 Oct 16 18:32	30 k== 29° £ 26'38	5015145
minimum elong		17 IL 11 07 12°M 45'51	4 23 41	inferior conj			
morning rise	7639 Nov 13 00:13	12°M27'21		minimum elong	7640 Oct 16 23:32	29° £ 17'59 25° £ 10'14	5-1503
direct	7639 Nov 15 06:06			morning rise	7640 Oct 24 22:01		
asc. node	7639 Nov 20 14:00	14°M17'35	10010110	direct	7640 Oct 27 07:41	24° £ 52'40	10054107
morning max el	7639 Nov 22 21:19	16°M12'47	18°12'18	morning max el	7640 Nov 05 01:13	29° Ω 03'12	18°54'07
	7639 Dec 02 12:52	0° √			7640 Nov 05 23:49	0°M	
morning set	7639 Dec 08 15:35	11° ∡ 16′04		asc. node	7640 Nov 06 11:02	0°M30'15	
-				asc. node morning set	7640 Nov 21 13:18	25°M31'51	
superior conj	7639 Dec 18 03:01	28° ⊀ ′54'11	0°53'23				
-	7639 Dec 18 03:01 7639 Dec 18 06:26	28° 尽 54'11 29° 尽 09'40	0°53'23 0°53'01	morning set	7640 Nov 21 13:18 7640 Nov 23 19:45	25°M31'51 0°⊀	
superior conj minimum elong	7639 Dec 18 03:01 7639 Dec 18 06:26 7639 Dec 18 17:37	28° メ 54'11 29° メ 09'40 0°る		morning set	7640 Nov 21 13:18 7640 Nov 23 19:45 7640 Nov 30 00:06	25°M31'51 0°♂ 12°♂01'31	
superior conj minimum elong desc. node	7639 Dec 18 03:01 7639 Dec 18 06:26 7639 Dec 18 17:37 7639 Dec 25 14:26	28° 🖈 54'11 29° 🖈 09'40 0° る 11° る59'35	0°53'01	morning set superior conj minimum elong	7640 Nov 21 13:18 7640 Nov 23 19:45 7640 Nov 30 00:06 7640 Nov 30 03:20	25°M31'51 0°♂ 12°♂01'31 12°♂16'56	1°17'37
superior conj minimum elong desc. node max. Earth dist.	7639 Dec 18 03:01 7639 Dec 18 06:26 7639 Dec 18 17:37 7639 Dec 25 14:26 7639 Dec 25 18:21	28° ₹54'11 29° ₹09'40 0° उ 11° उ59'35 12° उ16'13		morning set	7640 Nov 21 13:18 7640 Nov 23 19:45 7640 Nov 30 00:06 7640 Nov 30 03:20 7640 Dec 07 00:18	25°M31'51 0°⊀ 12°⊀01'31 12°⊀16'56 24°⊀56'38	
superior conj minimum elong desc. node	7639 Dec 18 03:01 7639 Dec 18 06:26 7639 Dec 18 17:37 7639 Dec 25 14:26 7639 Dec 25 18:21 7639 Dec 30 15:44	28° 🖈 54'11 29° 🖈 09'40 0° る 11° る59'35	0°53'01	morning set superior conj minimum elong	7640 Nov 21 13:18 7640 Nov 23 19:45 7640 Nov 30 00:06 7640 Nov 30 03:20	25°M31'51 0°♂ 12°♂01'31 12°♂16'56	1°17'37
superior conj minimum elong desc. node max. Earth dist.	7639 Dec 18 03:01 7639 Dec 18 06:26 7639 Dec 18 17:37 7639 Dec 25 14:26 7639 Dec 25 18:21 7639 Dec 30 15:44 7640 Jan 05 17:16	28° ₹54'11 29° ₹09'40 0° ₹59'35 12° ₹16'13 20° ₹22'43 0° ≈	0°53'01	morning set superior conj minimum elong	7640 Nov 21 13:18 7640 Nov 23 19:45 7640 Nov 30 00:06 7640 Nov 30 03:20 7640 Dec 07 00:18	25°M31'51 0°メ 12°メ01'31 12°メ16'56 24°メ56'38 0°℧ 1°℧43'39	1°17'37
superior conj minimum elong desc. node max. Earth dist.	7639 Dec 18 03:01 7639 Dec 18 06:26 7639 Dec 18 17:37 7639 Dec 25 14:26 7639 Dec 25 18:21 7639 Dec 30 15:44	28° ₹54'11 29° ₹09'40 0° ℧ 11° ℧59'35 12° ℧16'13 20° ℧22'43	0°53'01	superior conj minimum elong max. Earth dist.	7640 Nov 21 13:18 7640 Nov 23 19:45 7640 Nov 30 00:06 7640 Nov 30 03:20 7640 Dec 07 00:18 7640 Dec 09 21:33	25°M31'51 0°\$7 12°\$701'31 12°\$716'56 24°\$756'38 0°중	1°17'37
superior conj minimum elong desc. node max. Earth dist.	7639 Dec 18 03:01 7639 Dec 18 06:26 7639 Dec 18 17:37 7639 Dec 25 14:26 7639 Dec 25 18:21 7639 Dec 30 15:44 7640 Jan 05 17:16	28° ₹54'11 29° ₹09'40 0° ₹59'35 12° ₹16'13 20° ₹22'43 0° ≈	0°53'01	superior conj minimum elong max. Earth dist.	7640 Nov 21 13:18 7640 Nov 23 19:45 7640 Nov 30 00:06 7640 Nov 30 03:20 7640 Dec 07 00:18 7640 Dec 09 21:33 7640 Dec 10 21:42	25°M31'51 0°メ 12°メ01'31 12°メ16'56 24°メ56'38 0°℧ 1°℧43'39	1°17'37
superior conj minimum elong desc. node max. Earth dist. evening rise	7639 Dec 18 03:01 7639 Dec 18 06:26 7639 Dec 18 17:37 7639 Dec 25 14:26 7639 Dec 25 18:21 7639 Dec 30 15:44 7640 Jan 05 17:16 7640 Jan 26 20:39	28° ₹54'11 29° ₹09'40 0°उ 11°उ59'35 12°उ16'13 20°उ22'43 0°≈ 0° €	0°53'01 1.41297 AU	superior conj minimum elong max. Earth dist.	7640 Nov 21 13:18 7640 Nov 23 19:45 7640 Nov 30 00:06 7640 Nov 30 03:20 7640 Dec 07 00:18 7640 Dec 09 21:33 7640 Dec 10 21:42 7640 Dec 11 11:26	25°M31'51 0°メ 12°メ*01'31 12°メ*16'56 24°メ*56'38 0°उ 1°उ43'39 2°उ42'07	1°17'37 1.39165 AU
superior conj minimum elong desc. node max. Earth dist. evening rise	7639 Dec 18 03:01 7639 Dec 18 06:26 7639 Dec 18 17:37 7639 Dec 25 14:26 7639 Dec 25 18:21 7639 Dec 30 15:44 7640 Jan 05 17:16 7640 Jan 26 20:39 7640 Feb 02 13:42	28° \$\frac{7}{54'11} 29° \$\frac{7}{90'40} 0° \$\dots 11° \$\dots 59'35 12° \$\dots 16'13 20° \$\dots 22'43 0° \$\times 0° \$\dots 7° \$\dots 39'24	0°53'01 1.41297 AU	superior conj minimum elong max. Earth dist. evening rise desc. node	7640 Nov 21 13:18 7640 Nov 23 19:45 7640 Nov 30 00:06 7640 Nov 30 03:20 7640 Dec 07 00:18 7640 Dec 09 21:33 7640 Dec 10 21:42 7640 Dec 11 11:26 7640 Dec 28 23:57	25°M31'51 0° ₹ 12° ₹01'31 12° ₹16'56 24° ₹56'38 0° ₹ 1° ₹43'39 2° ₹42'07 0° ≈	1°17'37 1.39165 AU
superior conj minimum elong desc. node max. Earth dist. evening rise	7639 Dec 18 03:01 7639 Dec 18 06:26 7639 Dec 18 17:37 7639 Dec 25 14:26 7639 Dec 25 18:21 7639 Dec 30 15:44 7640 Jan 05 17:16 7640 Jan 26 20:39 7640 Feb 02 13:42 7640 Feb 12 20:44	28° \$\frac{7}{54'11} 29° \$\frac{7}{90'40} 0° \$\dots 11° \$\dots 59'35 12° \$\dots 16'13 20° \$\dots 22'43 0° \$\times 0° \$\times 7° \$\times 39'24 13° \$\times 45'24	0°53'01 1.41297 AU	superior conj minimum elong max. Earth dist. evening rise desc. node	7640 Nov 21 13:18 7640 Nov 23 19:45 7640 Nov 30 00:06 7640 Nov 30 03:20 7640 Dec 07 00:18 7640 Dec 09 21:33 7640 Dec 10 21:42 7640 Dec 11 11:26 7640 Dec 28 23:57 7641 Jan 15 03:17	25°肌31'51 0°メ 12°メ701'31 12°メ716'56 24°メ756'38 0°उ 1°उ43'39 2°उ42'07 0°≈ 21°≈23'44	1°17'37 1.39165 AU
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	7639 Dec 18 03:01 7639 Dec 18 06:26 7639 Dec 18 17:37 7639 Dec 25 14:26 7639 Dec 25 18:21 7639 Dec 30 15:44 7640 Jan 05 17:16 7640 Jan 26 20:39 7640 Feb 02 13:42 7640 Feb 12 20:44 7640 Feb 16 13:08	28° ₹54'11 29° ₹09'40 0°उ 11°उ59'35 12°उ16'13 20°उ22'43 0°≈ 0° ¥ 7° ¥39'24 13° ¥45'24 12° ¥37'30	0°53'01 1.41297 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	7640 Nov 21 13:18 7640 Nov 23 19:45 7640 Nov 30 00:06 7640 Nov 30 03:20 7640 Dec 07 00:18 7640 Dec 09 21:33 7640 Dec 10 21:42 7640 Dec 11 11:26 7640 Dec 28 23:57 7641 Jan 15 03:17 7641 Jan 26 12:38	25°M31'51 0°ズ 12°ズ01'31 12°ズ16'56 24°ズ56'38 0°G 1°G43'39 2°G42'07 0°≈ 21°≈23'44 28°≈04'05	1°17'37 1.39165 AU
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	7639 Dec 18 03:01 7639 Dec 18 06:26 7639 Dec 18 17:37 7639 Dec 25 14:26 7639 Dec 25 18:21 7639 Dec 30 15:44 7640 Jan 05 17:16 7640 Jan 26 20:39 7640 Feb 02 13:42 7640 Feb 12 20:44 7640 Feb 16 13:08 7640 Feb 17 18:20	28° \$\frac{7}{54}111 29° \$\frac{7}{09}'40 0° \$\dots 11° \$\dots 59'35 12° \$\dots 16'13 20° \$\dots 22'43 0° \$\approx 0° \$\text{ 7° }\text{ 39'24} 13° \$\text{ 45'24} 12° \$\text{ 37'30} 11° \$\text{ 43'44}	0°53'01 1.41297 AU 23°04'44	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	7640 Nov 21 13:18 7640 Nov 23 19:45 7640 Nov 30 00:06 7640 Nov 30 03:20 7640 Dec 07 00:18 7640 Dec 09 21:33 7640 Dec 10 21:42 7640 Dec 11 11:26 7640 Dec 28 23:57 7641 Jan 15 03:17 7641 Jan 26 12:38 7641 Jan 31 22:42	25°M31'51 0°ズ 12°ズ01'31 12°ズ16'56 24°ズ56'38 0°℧ 1°℧43'39 2°℧42'07 0°≈ 21°≈23'44 28°≈04'05 25°≈48'31	1°17'37 1.39165 AU
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj	7639 Dec 18 03:01 7639 Dec 18 06:26 7639 Dec 18 17:37 7639 Dec 25 14:26 7639 Dec 25 18:21 7639 Dec 30 15:44 7640 Jan 05 17:16 7640 Feb 02 13:42 7640 Feb 12 20:44 7640 Feb 16 13:08 7640 Feb 17 18:20 7640 Feb 23 03:35	28° \$\frac{7}{54}111 29° \$\frac{7}{09}'40 0° \$\frac{7}{09}'35 12° \$\frac{7}{6}16'13 20° \$\frac{7}{22}'43 0° \$\infty\$ 0° \$\text{H} 7° \$\text{H}39'24 13° \$\text{H}45'24 12° \$\text{H}37'30 11° \$\text{H}43'44 5° \$\text{H}18'22	0°53'01 1.41297 AU 23°04'44 2°01'47	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node	7640 Nov 21 13:18 7640 Nov 23 19:45 7640 Nov 30 00:06 7640 Nov 30 03:20 7640 Dec 07 00:18 7640 Dec 09 21:33 7640 Dec 10 21:42 7640 Dec 11 11:26 7640 Dec 28 23:57 7641 Jan 15 03:17 7641 Jan 26 12:38 7641 Jan 31 22:42 7641 Feb 02 10:14	25°M31'51 0°ズ 12°ズ01'31 12°ズ16'56 24°ズ56'38 0°℧ 1°℧43'39 2°℧42'07 0°≈ 21°≈23'44 28°≈04'05 25°≈48'31 24°≈23'10	1°17'37 1.39165 AU 24°24'26
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	7639 Dec 18 03:01 7639 Dec 18 06:26 7639 Dec 18 17:37 7639 Dec 25 14:26 7639 Dec 25 18:21 7639 Dec 30 15:44 7640 Jan 05 17:16 7640 Jan 26 20:39 7640 Feb 02 13:42 7640 Feb 12 20:44 7640 Feb 16 13:08 7640 Feb 17 18:20 7640 Feb 23 03:35 7640 Feb 23 01:23	28° \$\frac{7}{54}'11 29° \$\frac{7}{09}'40 0° \$\frac{7}{09}'35 12° \$\frac{7}{6}'16'13 20° \$\frac{7}{22}'43 0° \$\infty\$ 0° \$\text{H} 7° \$\text{H}39'24 13° \$\text{H}45'24 12° \$\text{H}37'30 11° \$\text{H}43'44 5° \$\text{H}18'22 5° \$\text{H}26'00	0°53'01 1.41297 AU 23°04'44 2°01'47 2°01'06	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist.	7640 Nov 21 13:18 7640 Nov 23 19:45 7640 Nov 30 00:06 7640 Nov 30 03:20 7640 Dec 07 00:18 7640 Dec 09 21:33 7640 Dec 10 21:42 7640 Dec 11 11:26 7640 Dec 28 23:57 7641 Jan 15 03:17 7641 Jan 26 12:38 7641 Jan 31 22:42 7641 Feb 02 10:14 7641 Feb 05 14:11	25°M31'51 0°ズ 12°ズ01'31 12°ズ16'56 24°ズ56'38 0°℧ 1°℧43'39 2°℧42'07 0°≈ 21°≈23'44 28°≈04'05 25°≈48'31 24°≈23'10 20°≈30'00	1°17'37 1.39165 AU 24°24'26 0.67986 AU
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	7639 Dec 18 03:01 7639 Dec 18 06:26 7639 Dec 18 17:37 7639 Dec 25 14:26 7639 Dec 25 18:21 7639 Dec 30 15:44 7640 Jan 05 17:16 7640 Jan 26 20:39 7640 Feb 02 13:42 7640 Feb 12 20:44 7640 Feb 16 13:08 7640 Feb 17 18:20 7640 Feb 23 03:35 7640 Feb 23 01:23 7640 Feb 22 18:06	28° \$\frac{7}{54}'11 29° \$\frac{7}{09}'40 0° \$\frac{7}{09}'35 12° \$\frac{7}{06}'13 20° \$\frac{7}{22}'43 0° \$\times 0° \$\times 7° \$\times 39'24 13° \$\times 45'24 12° \$\times 37'30 11° \$\times 43'44 5° \$\times 18'22 5° \$\times 26'00 5° \$\times 51'09	0°53'01 1.41297 AU 23°04'44 2°01'47 2°01'06	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj	7640 Nov 21 13:18 7640 Nov 23 19:45 7640 Nov 30 00:06 7640 Nov 30 03:20 7640 Dec 07 00:18 7640 Dec 10 21:42 7640 Dec 11 11:26 7640 Dec 28 23:57 7641 Jan 15 03:17 7641 Jan 26 12:38 7641 Jan 31 22:42 7641 Feb 02 10:14 7641 Feb 05 14:11 7641 Feb 06 10:59	25°M31'51 0°ズ 12°ズ01'31 12°ズ16'56 24°ズ56'38 0°℧ 1°℧43'39 2°℧42'07 0°≈ 21°≈23'44 28°≈04'05 25°≈48'31 24°≈23'10 20°≈30'00 19°≈20'14	1°17'37 1.39165 AU 24°24'26 0.67986 AU 1°18'03
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ovening may al	7641 May 08 08:14	9° Ⅱ 11'17	10000116		7642 Apr 06 08:55	0° ႘	
evening max el	,	9 П 1117 12° П 32'26	16 06 10			18° 8 23'41	
retrograde	7641 May 14 18:02	12° Щ 32′26 11° Щ 52′06		asc. node	7642 Apr 18 06:20		10027124
evening set	7641 May 17 13:35		2001105	evening max el	7642 Apr 21 20:58	22° 8 38'54	18°27'24
inferior conj	7641 May 23 18:28	6° Ⅲ 39'41	3°01'05	retrograde	7642 Apr 28 08:03	26° 8 08'53	
minimum elong	7641 May 23 20:48	6° Ⅲ 33′29	3°00'35	evening set	7642 May 01 10:43	25° 8 15'04	
min. Earth dist.	7641 May 26 14:16	3° ∏ 40′25	0.62633 AU	inferior conj	7642 May 07 05:35	19° 8 44'50	3°21'24
morning rise	7641 May 30 02:21	0° Ⅲ 32′10		minimum elong	7642 May 07 06:33	19° 8 42'00	3°21'15
	7641 May 30 20:38	30°₹ ႘		min. Earth dist.	7642 May 09 10:35	17° 8 09'03	0.64603 AU
desc. node	7641 Jun 05 10:22	28° 8 01'28		morning rise	7642 May 13 01:32	13° 8 30'00	
direct	7641 Jun 05 21:08	28° 8 00'50		direct	7642 May 19 18:12	10° 8 44'45	
	7641 Jun 12 09:50	Π $^{\circ}0$		desc. node	7642 May 23 07:24	11° 8 24'57	
morning max el	7641 Jun 19 22:37	6° Ⅱ 03'27	27°52'45	morning max el	7642 Jun 02 08:15	18° 8 41'59	27°22'35
	7641 Jul 08 01:38	0 \circ \odot			7642 Jun 11 21:04	$\Pi^{\circ}0$	
morning set	7641 Jul 24 01:07	28°549'40			7642 Jul 01 00:38	0°ಅ	
C	7641 Jul 24 14:58	$0^{\circ}\Omega$		morning set	7642 Jul 07 16:06	12° © 26'57	
asc. node	7641 Jul 28 08:33	7° Ω 46'41		max. Earth dist.	7642 Jul 12 08:11	21° © 50'25	1.33332 AU
max. Earth dist.	7641 Jul 29 10:16	10° Ω 04'03	1.32325 AU	asc. node	7642 Jul 15 05:33	27°953'02	
Titali. Darui dibi.	70.11041 29 10.10	10 000.03	1.52525 110	ass. node	70.2001 10 00.33	2, 203 02	
superior conj	7641 Jul 31 16:02	14° Ω 54'40	0°33'21	superior conj	7642 Jul 15 20:26	29° © 11'58	0°06'20
1 3	7641 Jul 31 14:33	14 δι 34 40	0°32'58		7642 Jul 15 20:07	29°5510'18	0°06'09
minimum elong			0 32 38	minimum elong			0 0009
evening rise	7641 Aug 07 13:06	29° £ 52′20		behind sun begin	7642 Jul 15 15:01	28°5643'11	
	7641 Aug 07 14:32	0° т р		behind sun end	7642 Jul 16 01:14	29° © 37'26	
	7641 Aug 24 04:52	0∘ ⊽			7642 Jul 16 05:28	0 ° Ω	
evening max el	7641 Aug 31 18:14	8° ≏ 57'42	23°55'25	evening rise	7642 Jul 23 00:21	14° Ω 30′56	
desc. node	7641 Sep 01 09:24	9° 亞 33'33			7642 Jul 30 18:55	0° m y	
retrograde	7641 Sep 14 10:41	15° ≏ 49'14		evening max el	7642 Aug 13 07:24	19° m 12'53	22°16'39
evening set	7641 Sep 19 01:43	15° ≏ 02'15		desc. node	7642 Aug 19 06:29	23° m 45'37	
min. Earth dist.	7641 Sep 25 04:47	12° ₽ 03'13	0.56039 AU	retrograde	7642 Aug 26 04:55	25° m 37'48	
inferior conj	7641 Sep 27 10:43	10° ≏ 41'13	-5°31'11	evening set	7642 Aug 29 08:05	25° mp 16'09	
minimum elong	7641 Sep 27 09:35	10° £ 42'56	5°31'07	min. Earth dist.	7642 Sep 06 13:26	21° m)41'17	0.54950 AU
morning rise	7641 Oct 05 19:40	6° £ 44'20		inferior conj	7642 Sep 07 09:48	21° m) 12'38	
direct	7641 Oct 08 14:01	6° £ 24'49		minimum elong	7642 Sep 07 01:52	21° m) 23'47	4°54'48
morning max el	7641 Oct 18 17:49	11° ⊆ 10'57	19°58'12	morning rise	7642 Sep 15 21:20	17° Mp 24'21	1 21 10
asc. node	7641 Oct 24 08:04	17° ≏ 48'49	17 30 12	direct	7642 Sep 19 04:14	17° Mg 00'07	
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. ,				morning max el	7642 Sep 30 21:28	-	21 23 47
morning set	7641 Nov 05 17:56	10°M06'25			7642 Oct 07 07:26	0∘ ত	
		w		asc. node	7642 Oct 11 05:04	5° Ω 58'17	
superior conj	7641 Nov 13 11:37	25°M50'13	1°33'19	morning set	7642 Oct 21 02:52	24° ≙ 51'47	
minimum elong	7641 Nov 13 13:44	26°M00'49	1°33'15		7642 Oct 23 13:39	0° M	
	7641 Nov 15 14:05	0° ∡ ¹					
max. Earth dist.	7641 Nov 19 06:10	7° ҂ 03'32	1.37044 AU	superior conj	7642 Oct 28 09:19	10° ™ 07'38	1°40'46
evening rise	7641 Nov 23 00:53	14° ⋌ *01'33		minimum elong	7642 Oct 28 10:04	10° M ₊11'31	1°40'49
desc. node	7641 Nov 28 08:27	23° ∡ 18′02		max. Earth dist.	7642 Nov 01 17:13	18° M 57′35	1.35152 AU
	7641 Dec 02 09:56	0°ರ		evening rise	7642 Nov 05 21:39	27° M 06'19	
	7641 Dec 23 20:12	0° ≈			7642 Nov 07 10:41	0° ∡ ¹	
evening max el	7641 Dec 28 16:23	5°≈11'00	25°37'54	desc. node	7642 Nov 15 05:27	13° ∡ ¹42'07	
retrograde	7642 Jan 09 23:57	12° ≈ 14'49			7642 Nov 25 18:13	აი	
evening set	7642 Jan 15 22:51	9° ≈ 47'37		evening max el	7642 Dec 11 05:37	18° る 54'35	26°37'47
asc. node	7642 Jan 20 07:19	5°≈03'33		retrograde	7642 Dec 24 05:42	26° る 10'39	
min. Earth dist.	7642 Jan 20 07:17	5°≈03'37	0.67268 AU	evening set	7642 Dec 30 16:54	23° る 35'37	
inferior conj	7642 Jan 21 15:21	3°≈21'22	0°26'39	min. Earth dist.	7643 Jan 03 19:03	19° ට 26'29	0.66188 AU
minimum elong	7642 Jan 21 14:41	3°≈23'31	0°26'28	inferior conj	7643 Jan 05 14:39	19 3 2029	
minimum clong			0 20 28				
	7642 Jan 24 10:04	30°R₹		minimum elong	7643 Jan 05 15:32	17°る14'18	0-3117
morning rise	7642 Jan 27 06:56	27° る 28'40		asc. node	7643 Jan 07 04:23	15° る 27'06	
direct	7642 Jan 30 15:10	26° る 24'26		morning rise	7643 Jan 11 15:01	11° る 34'52	
	7642 Feb 06 07:57	0° ≈		direct	7643 Jan 14 13:08	10° る 47'16	
morning max el	7642 Feb 06 13:25	0° ≈ 13′22	19°06'21	morning max el	7643 Jan 21 01:50	14° る 18'05	18°23'13
greatest brilliancy	7642 Feb 20 04:26	18° ≈ 33'25	-0.7m		7643 Feb 01 13:40	0°≈	
desc. node	7642 Feb 24 07:53	24° ≈ 53'39		morning set	7643 Feb 09 20:54	13° ≈ 11'39	
	7642 Feb 27 15:15	0°) €		desc. node	7643 Feb 11 04:50	15° ≈ 19'09	
morning set	7642 Mar 01 17:54	3°) 16′14			7643 Feb 20 11:04	0°) €	
max. Earth dist.	7642 Mar 15 16:16	25°) €00′26	1.45103 AU				
				superior conj	7643 Feb 25 13:21	8° ₩ 00'05	-1°31'22
superior conj	7642 Mar 18 08:56	29°) 15′24	-2°01'14	minimum elong	7643 Feb 25 03:49	7° ¥ 22'44	
minimum elong				max. Earth dist.		9° H 26'38	
minimum ciong	/642 Mar 1x 02:01	28° # 4×115	2°00'51				1 4 3 4 X / A I I
	7642 Mar 18 02:01	28°) 48′05	2*00/51	max. Earm dist.	7643 Feb 26 11:27		1.45487 AU
evening rise	7642 Mar 18 02:01 7642 Mar 18 20:13 7642 Apr 02 01:48	28°π48'05 0°Υ 22°Υ56'37	2°00'51	evening rise	7643 Mar 11 14:19 7643 Mar 13 12:05	9 γ2038 0°Υ 2°Υ59'58	1.45487 AU

behind sun end	7645 Jan 15 20:32	28° る 08'39		superior conj	7645 Dec 28 00:06	9° ට 06'10	0°34'59
bennia san ena	7645 Jan 16 23:28	0°≈		minimum elong	7645 Dec 28 02:51	9° ප 18'13	0°34'41
max. Earth dist.	7645 Jan 22 00:24	8° ≈ 11'38	1.44058 AU	desc. node	7646 Jan 01 19:47	17° る 23'41	0 3
evening rise	7645 Jan 30 15:34	21° ≈ 45'44		max. Earth dist.	7646 Jan 04 13:21		1.42425 AU
Ü	7645 Feb 05 01:04	0°) €			7646 Jan 09 12:06	0° ≈	
	7645 Feb 26 08:23	$0^{\circ}\mathbf{\Upsilon}$		evening rise	7646 Jan 10 12:54	1° ≈ 38'39	
evening max el	7645 Mar 01 11:06	3° Y 27'13	21°03'11	C	7646 Jan 29 12:42	0° ∀	
asc. node	7645 Mar 08 21:31	8° Y 23'04		evening max el	7646 Feb 12 05:35	17° ₩ 07'19	22°18'58
retrograde	7645 Mar 10 00:07	8° Y 29'26		retrograde	7646 Feb 21 21:00	22° ℋ 50'30	
evening set	7645 Mar 14 04:00	6° Ƴ 51'43		asc. node	7646 Feb 23 18:36	22°) 32′02	
inferior conj	7645 Mar 19 11:29	0° Ƴ 39'00	2°53'46	evening set	7646 Feb 26 11:44	20°) 57′39	
minimum elong	7645 Mar 19 09:25	0° Ƴ 46′08	2°53'20	inferior conj	7646 Mar 03 19:54	14°) 36′03	2°23'16
	7645 Mar 19 22:45	30° ₹		minimum elong	7646 Mar 03 17:37	14°)(44'01	2°22'38
min. Earth dist.	7645 Mar 19 21:03	0° Y 05'51	0.68062 AU	min. Earth dist.	7646 Mar 03 17:13	14°) 45′23	0.68356 AU
morning rise	7645 Mar 24 14:38	24°) €24'47		morning rise	7646 Mar 08 23:20	8° 升 25'55	
direct	7645 Mar 29 22:06	22°) €04'10		direct	7646 Mar 13 16:42	6°) €26'29	
morning max el	7645 Apr 09 13:09	28° ∺ 24'23	23°35'43	morning max el	7646 Mar 23 00:42	11° ¥ 54'50	22°07'05
	7645 Apr 11 01:41	0 ° $\mathbf{\gamma}$		desc. node	7646 Mar 30 19:20	21° ∺ 03'14	
desc. node	7645 Apr 12 22:21	2° Y 04'56			7646 Apr 06 08:35	$0^{\circ}\mathbf{\Upsilon}$	
	7645 May 03 03:49	0°8		morning set	7646 Apr 25 03:43	28° Ƴ 33'25	
morning set	7645 May 14 18:13	18° 8 43'57			7646 Apr 26 01:05	0° 8	
max. Earth dist.	7645 May 18 16:33	25° 8 30'55	1.38908 AU	max. Earth dist.	7646 Apr 30 14:26	7° 8 31'12	1.41133 AU
	7645 May 21 05:09	$\Pi^{\circ}0$				()	
				superior conj	7646 May 08 08:58	20° 8 55'52	
superior conj	7645 May 26 04:24	9° Ⅱ 07'06		minimum elong	7646 May 08 14:33	21° 8 20'40	1°51'24
minimum elong	7645 May 26 09:28	9° Ⅱ 30'53	1°25'01		7646 May 13 09:31	0°II	
evening rise	7645 Jun 04 10:15	26° Ⅲ 54'11		evening rise	7646 May 18 20:05	10° Ⅱ 04'47	
asc. node	7645 Jun 04 20:35	27° Ⅱ 44'22		asc. node	7646 May 22 17:38	17° I 17'17	
	7645 Jun 06 00:37	0.ಲ 1	10046100		7646 May 30 06:47	0°99	10015150
evening max el	7645 Jun 20 16:03	23°511'30	18°46'00	evening max el	7646 Jun 03 23:32	5° © 49'20 9° © 24'30	18°15'59
retrograde	7645 Jun 28 21:43	27°515'56		retrograde	7646 Jun 11 03:03	9° 5 02'11	
evening set inferior conj	7645 Jun 30 22:33 7645 Jul 08 22:42	27° © 01'57 22° © 40'57	0°17'10	evening set inferior conj	7646 Jun 13 11:15 7646 Jun 20 15:55	4°920'34	1°42'50
minimum elong	7645 Jul 08 22:42	22°939'44	0°16'48	minimum elong	7646 Jun 20 18:51	4°9514'15	1°42'30 1°41'48
desc. node	7645 Jul 09 21:40	22 \$3944 21°\$58'38	0 1046	min. Earth dist.	7646 Jun 24 01:36	1°926'43	0.59137 AU
min. Earth dist.	7645 Jul 12 03:35	21°938'38' 20°920'55	0.57061 AU	iiiii. Eartii dist.	7646 Jun 25 22:56	1 3 20 43	0.39137 AU
morning rise	7645 Jul 16 20:43	17°934'26	0.57001 AC	desc. node	7646 Jun 26 18:42	29° II 26'13	
direct	7645 Jul 22 10:29	16°9518'33		morning rise	7646 Jun 27 23:22	28° I I42'30	
morning max el	7645 Aug 05 18:23	23°547'58	26°22'22	direct	7646 Jul 04 06:17	26° I I54'40	
morning man or	7645 Aug 11 09:23	0° Ω	20 22 22	4.1.000	7646 Jul 12 23:12	0°ಅ	
	7645 Aug 30 00:03	0° m/y		morning max el	7646 Jul 18 15:16	4°543'28	27°26'41
asc. node	7645 Aug 31 20:00	3° m 40'49		. 8	7646 Aug 06 06:46	$0^{\circ}\Omega$	
morning set	7645 Sep 03 12:24	9° m 16'20		morning set	7646 Aug 18 20:17	23° Ω 50'14	
C	1	•		asc. node	7646 Aug 18 17:01	23° Ω 33'04	
superior conj	7645 Sep 10 10:24	24° m 23'31	1°24'18		7646 Aug 21 17:33	0° m	
minimum elong	7645 Sep 10 08:18	24° Mp 11'53	1°24'02		-		
max. Earth dist.	7645 Sep 10 23:29	25° Mp 35'52	1.31896 AU	superior conj	7646 Aug 25 22:12	9° m 13'17	1°08'04
	7645 Sep 12 23:24	0∘ ⊽		minimum elong	7646 Aug 25 19:57	9° ™ 00'48	1°07'41
evening rise	7645 Sep 17 08:12	9° ჲ 23'46		max. Earth dist.	7646 Aug 25 09:59	8° ™ 05'34	1.31703 AU
	7645 Sep 28 00:42	0° M		evening rise	7646 Sep 01 16:35	24° Mp 02'47	
desc. node	7645 Oct 05 20:38	12°M33'38			7646 Sep 04 12:57	0∘ ত	
evening max el	7645 Oct 18 11:24	27°M55'17	27°07'46		7646 Sep 22 03:26	0°M₊	
	7645 Oct 20 19:54	0°⊀		desc. node	7646 Sep 22 17:42	0° M 47′25	
retrograde	7645 Nov 01 08:40	5° х 06'40		evening max el	7646 Sep 30 10:53	9° M 34'01	26°13'28
evening set	7645 Nov 08 09:15	2° ₹ 55'09		retrograde	7646 Oct 14 09:14	16°M39'12	
min. Earth dist.	7645 Nov 12 02:09	0° ≯ 12'17	0.61005 AU	evening set	7646 Oct 20 21:38	14°M56'32	0.50000
	7645 Nov 12 08:03	30°RM	2051:	min. Earth dist.	7646 Oct 25 00:02	12°M21'59	0.58923 AU
inferior conj	7645 Nov 15 04:49	27°M31'37		inferior conj	7646 Oct 28 04:31	9°M.58'54	
minimum elong	7645 Nov 15 11:39	27°M16'53	3~49'41	minimum elong	7646 Oct 28 11:11	9°M46'22	4°49'24
morning rise	7645 Nov 22 16:19	22°M39'22		morning rise	7646 Nov 05 02:59	5°M28'54	
direct	7645 Nov 24 21:49	22°M19'15		direct	7646 Nov 07 09:54	5°M11'06	
asc. node	7645 Nov 27 19:28	22°M54'47	17057147	asc. node	7646 Nov 14 16:30	8°M23'06	10007100
morning max el	7645 Dec 02 02:16	25°M55'12	1/-3/4/	morning max el	7646 Nov 15 11:12	9°M06'15	18°27'20
morning set	7645 Dec 05 13:39 7645 Dec 17 18:26	0° ⊀ 20° ⊀ 36′09		morning set	7646 Nov 29 00:31 7646 Dec 01 10:50	0° ₰ 4° ₰ 38'19	
morning set	7645 Dec 17 18:26 7645 Dec 22 21:38	20°×'36'09		morning set	7040 Dec 01 10:30	4 X 38 19	
	1043 DEC 22 21.38	υ O		superior conj	7646 Dec 10 10:43	21° ∡ ¹43'57	1°04'55
				superior conj	/UTU DUC 10 10.43	21 × +33/	1 0+33

minimum elong	7646 Dec 10 14:14	22° ₹ 00'12	1°04'34	minimum elong	7647 Nov 23 17:22	5° ₹ 24'31	1°25'17
	7646 Dec 15 00:11	0°ප		max. Earth dist.	7647 Nov 30 03:42	17° ∡ ³31'37	1.38253 AU
max. Earth dist.	7646 Dec 17 21:55	5° る 05'14	1.40413 AU	evening rise	7647 Dec 03 21:30	24° ₹ 12'12	
desc. node	7646 Dec 19 16:48	8° ප 08'47		desc. node	7647 Dec 06 13:49	28° ₹ '49'06	
evening rise	7646 Dec 22 06:11	12° පි 26'18			7647 Dec 07 06:35	0°రె	
-	7647 Jan 02 09:01	0° ≈			7647 Dec 27 02:37	0° ≈	
	7647 Jan 25 00:38	0°) €		evening max el	7648 Jan 08 09:46	14° ≈ 36'46	24°56'46
evening max el	7647 Jan 25 20:35	0°) 50′46	23°38'56	retrograde	7648 Jan 20 04:53	21° ≈ 28′02	
retrograde	7647 Feb 05 14:56	7° ∺ 11'41		evening set	7648 Jan 25 20:34	19° ≈ 06'55	
evening set	7647 Feb 10 17:47	5°) €04'02		asc. node	7648 Jan 28 12:45	16° ≈ 21'54	
asc. node	7647 Feb 10 15:41	5° ₩ 08'27		min. Earth dist.	7648 Jan 30 08:54	14° ≈ 03′20	0.67735 AU
	7647 Feb 15 03:54	30° ₹ ≈		inferior conj	7648 Jan 31 10:32	12° ≈ 39′02	0°57'08
min. Earth dist.	7647 Feb 15 13:55	29° ≈ 25'59	0.68242 AU	minimum elong	7648 Jan 31 09:12	12° ≈ 43′24	0°56'42
inferior conj	7647 Feb 16 04:12	28° ≈ 37′08	1°44'11	morning rise	7648 Feb 05 22:05	6° ≈ 41'38	
minimum elong	7647 Feb 16 02:09	28° ≈ 44'10	1°43'31	direct	7648 Feb 09 12:56	5° ≈ 26′24	
morning rise	7647 Feb 21 10:29	22° ≈ 32'33		morning max el	7648 Feb 16 20:01	9° ≈ 30'38	19°38'29
direct	7647 Feb 25 14:06	20° ≈ 55'47		greatest brilliancy	7648 Feb 29 14:34	26°≈12'53	-0.7m
morning max el	7647 Mar 05 18:22	25° ≈ 36'35	20°46'21		7648 Mar 03 03:42	0° ∀	
	7647 Mar 09 16:57	0° ∀		desc. node	7648 Mar 03 13:17	0°) 35′53	
desc. node	7647 Mar 17 16:19	10°) 36'47		morning set	7648 Mar 13 08:34	15° ∺ 32'11	
	7647 Mar 30 18:56	0° Υ			7648 Mar 22 15:42	$0^{\circ}\mathbf{\Upsilon}$	
morning set	7647 Apr 04 11:21	7° Y 13'30		max. Earth dist.	7648 Mar 25 08:02	4° Ƴ 13'56	1.44554 AU
max. Earth dist.	7647 Apr 12 19:42	20° Y 28'58	1.43097 AU			• •	
	7647 Apr 18 14:25	9° 8		superior conj	7648 Mar 29 20:02	11°Υ25'06	
				minimum elong	7648 Mar 29 17:01	11° Υ 12'58	2°09'32
superior conj	7647 Apr 19 14:59	1° 8 43'03			7648 Apr 10 03:16	0° 8	
minimum elong	7647 Apr 19 18:08	1° 8 56'18	2°08'27	evening rise	7648 Apr 12 13:39	4° 8 05'31	
evening rise	7647 May 01 14:45	22° 8 31'45		asc. node	7648 Apr 25 11:46	25° 8 13'59	
	7647 May 05 20:07	0°П			7648 Apr 29 00:24	0°II	
asc. node	7647 May 09 14:42	6°∏29'29	10005125	evening max el	7648 May 01 00:50	2° Ⅱ 14'11	18°14'09
evening max el	7647 May 18 11:35	18° Ⅱ 53'06	18°05'35	retrograde	7648 May 07 10:10	5° ∏ 37'48	
retrograde	7647 May 25 00:44	22° ∏ 15′08		evening set	7648 May 10 08:40	4° ∏ 51'52	
evening set	7647 May 27 16:17 7647 Jun 03 04:38	21° П 41'49 16° П 39'56	2°39'51	:c:	7648 May 15 22:31	30°R と 29° と 31'24	2012102
inferior conj minimum elong	7647 Jun 03 04:38	16° Д 39'36	2°39'05	inferior conj minimum elong	7648 May 16 08:48 7648 May 16 10:34	29° 8 26'27	3°11'43
min. Earth dist.	7647 Jun 06 07:21	10 П 3243 13° П 36'09	0.61382 AU	min. Earth dist.	7648 May 18 22:26	29 8 2627 26° 8 40'14	0.63506 AU
morning rise	7647 Jun 09 20:40	10° ∏ 40'15	0.01382 AC	morning rise	7648 May 22 11:13	23° 8 19'46	0.03300 AC
desc. node	7647 Jun 13 15:46	8° П 48'14		direct	7648 May 29 05:43	20° 8 41'14	
direct	7647 Jun 16 13:20	8° П 22'47		desc. node	7648 May 30 12:47	20° 8 46'33	
morning max el	7647 Jun 30 18:52	16° ∏ 22'24	27°54'21	morning max el	7648 Jun 12 03:18	28° 8 43'10	27°44'05
morning max or	7647 Jul 11 23:41	0°9	2, 3,21	morning max or	7648 Jun 13 09:05	0° I	27 1103
	7647 Jul 29 21:53	$0^{\circ}\Omega$			7648 Jul 04 20:08	0°9	
morning set	7647 Aug 02 23:28	8° Ω 07'22		morning set	7648 Jul 16 19:42	22° © 01'51	
asc. node	7647 Aug 05 14:00	13° Ω 34'06			7648 Jul 20 17:15	0°N	
max. Earth dist.	7647 Aug 08 18:44	20° Ω 27'19	1.31965 AU	max. Earth dist.	7648 Jul 21 21:44	2° Ω 29'41	1.32695 AU
	Č			asc. node	7648 Jul 22 11:00	3° Ω 39'56	
superior conj	7647 Aug 10 08:35	23° Ω 54'37	0°47'15				
minimum elong	7647 Aug 10 06:40	23° Ω 44'06	0°46'49	superior conj	7648 Jul 24 15:46	8° Ω 22′26	0°22'19
	7647 Aug 13 02:57	0° m		minimum elong	7648 Jul 24 14:43	8° Ω 16'46	0°21'59
evening rise	7647 Aug 17 03:34	8° Mp 46'00		evening rise	7648 Jul 31 15:16	23° Ω 27'58	
	7647 Aug 28 00:46	0∘ 亚			7648 Aug 03 18:18	O° Mp	
desc. node	7647 Sep 09 14:48	17° ≏ 49'28			7648 Aug 22 21:55	0 ∘ ⊽	
evening max el	7647 Sep 12 02:21	20° ≏ 22'26	24°50'48	evening max el	7648 Aug 23 13:41	0° ჲ 39'08	23°13'00
retrograde	7647 Sep 25 22:41	27° ₽ 21′03		desc. node	7648 Aug 26 11:51	3° ₽ 12'39	
evening set	7647 Oct 01 09:56	26° ≙ 13'50		retrograde	7648 Sep 06 00:02	7° £ 22'24	
min. Earth dist.	7647 Oct 06 13:32	23° ≏ 29'18	0.56977 AU	evening set	7648 Sep 09 23:27	6° ≏ 47'48	
inferior conj	7647 Oct 09 08:18	21° ≏ 40'42		min. Earth dist.	7648 Sep 16 22:50		0.55478 AU
minimum elong	7647 Oct 09 11:08	21° ≏ 36′04	5°27'13	inferior conj	7648 Sep 18 16:16	2° £ 34'43	
morning rise	7647 Oct 17 14:35	17° ≏ 33'29		minimum elong	7648 Sep 18 11:56	2° £ 41′03	5°22'47
direct	7647 Oct 20 03:38	17° ≙ 15'16			7648 Sep 23 11:25	30°R Mp	
morning max el	7647 Oct 29 10:35	21° ≏ 39'18	19°18'38	morning rise	7648 Sep 27 02:38	28° m 43'48	
asc. node	7647 Nov 01 13:31	25° ჲ 05'33		direct	7648 Sep 30 01:50	28° Mp 22'46	
	7647 Nov 05 01:39	0°M		_	7648 Oct 06 05:25	0∘ ⊽	
morning set	7647 Nov 15 11:52	19°M03'29		morning max el	7648 Oct 10 21:41	3° Ω 26'18	20°32'17
	7647 Nov 20 23:17	0° ∡		asc. node	7648 Oct 18 10:30	12° Ω 46'58	
	764731 00 1100	50 3 1045	1025120		7648 Oct 27 22:46	0°M	
superior conj	7647 Nov 23 14:32	5° ≯ 10'45	1~25′28	morning set	7648 Oct 29 18:34	3°M43'07	

morning max el	7650 Sep 04 10:39	24° Ω 50′33	23°50'26	direct	7651 Aug 02 19:49	27° © 54'36	
	7650 Sep 09 05:17	0° m			7651 Aug 10 06:00	$0^{\circ}\Omega$	
asc. node	7650 Sep 22 04:28	20° m 15'21		morning max el	7651 Aug 16 23:36	5° Ω 06'45	25°32'03
	7650 Sep 27 01:56	0∘ ত			7651 Sep 03 22:29	0° m y	
morning set	7650 Sep 28 16:14	3° ₽ 21'20		asc. node	7651 Sep 09 01:27	9° Mp42'13	
				morning set	7651 Sep 13 03:43	18° ™ 09'45	
superior conj	7650 Oct 05 14:37	18° ≏ 21'29	1°39'30		7651 Sep 18 14:08	0∘ ত	
minimum elong	7650 Oct 05 13:38	18° ≏ 16′09	1°39'30				
max. Earth dist.	7650 Oct 07 23:24	23° ≏ 26'55	1.33107 AU	superior conj	7651 Sep 20 00:54	3° £ 11'40	1°31'24
	7650 Oct 11 02:16	0° M,		minimum elong	7651 Sep 19 23:06	3° ≏ 01'42	1°31'14
evening rise	7650 Oct 13 02:41	4°M06'41		max. Earth dist.	7651 Sep 21 05:16	5° ≏ 47'34	1.32213 AU
desc. node	7650 Oct 27 04:55	29°M34'25		evening rise	7651 Sep 27 02:36	18° ≏ 24'30	
	7650 Oct 27 11:19	0° ∡ 7			7651 Oct 02 22:45	0° M	
evening max el	7650 Nov 16 00:09	25° х ⁴23'16	27°25'39	desc. node	7651 Oct 14 02:00	19° M 01'18	
	7650 Nov 21 17:58	o°S			7651 Oct 21 23:11	0° ∡ ¹	
retrograde	7650 Nov 29 14:42	2° る 41'59		evening max el	7651 Oct 29 09:28	8° ∡ 13'16	27°23'48
evening set	7650 Dec 06 14:42	0° る 07'25		retrograde	7651 Nov 12 04:38	15° ∡ 27'14	
	7650 Dec 06 18:41	30°₽ ⋌ ¹		evening set	7651 Nov 19 07:33	13° ∡ 03'58	
min. Earth dist.	7650 Dec 10 09:20	26° ∡ ¹45'34	0.64037 AU	min. Earth dist.	7651 Nov 22 23:34	10° ∡ 09'54	0.62178 AU
inferior conj	7650 Dec 12 21:27	24° ₹ 09'10	-2°04'45	inferior conj	7651 Nov 25 22:00	7° ∡ ¹26'54	-3°13'21
minimum elong	7650 Dec 13 01:17	23° ₹ ¹59'08	2°03'06	minimum elong	7651 Nov 26 03:58	7° ∡ 13′03	3°11'11
asc. node	7650 Dec 19 03:52	18° ∡ 757'34		morning rise	7651 Dec 03 02:26	2° ∡ ¹22'52	
morning rise	7650 Dec 19 13:31	18° ∡ ¹47'01		direct	7651 Dec 05 09:12	1° ∡ 759'50	
direct	7650 Dec 22 00:43	18° ⊀ 16'32		asc. node	7651 Dec 06 00:54	2° ∡ 101'47	
morning max el	7650 Dec 28 12:35	21° ₹ ³39'51	17°51'02	morning max el	7651 Dec 12 05:11	5° ∡ ¹28'22	17°49'56
C	7651 Jan 03 22:56	ರ°0		C	7651 Dec 27 23:35	8°0	
morning set	7651 Jan 14 07:38	17° る 09'42		morning set	7651 Dec 28 01:29	0° ろ 08'30	
C	7651 Jan 21 22:22	0° ≈		Ü			
desc. node	7651 Jan 23 04:10	2°≈03'28		superior conj	7652 Jan 08 04:35	19° る 39'30	0°13'33
				minimum elong	7652 Jan 08 05:51	19° る 44'54	0°13'29
superior conj	7651 Jan 27 07:07	8° ≈ 48'29	-0°29'24	behind sun begin	7652 Jan 08 01:04	19° る 24'32	
minimum elong	7651 Jan 27 03:48	8°≈35'00		behind sun end	7652 Jan 08 10:39	20° පි 05'14	
max. Earth dist.	7651 Feb 01 15:30	17° ≈ 23'04	1.44754 AU	desc. node	7652 Jan 10 01:09	22° る 47'39	
	7651 Feb 09 17:05	0°) €			7652 Jan 14 09:40	0° ≈	
evening rise	7651 Feb 12 03:01	3°) 43′01		max. Earth dist.	7652 Jan 15 07:36	1° ≈ 29'16	1.43426 AU
<i>8</i>	7651 Mar 01 17:39	0° Υ		evening rise	7652 Jan 22 16:50	13° ≈ 13'10	
evening max el	7651 Mar 11 23:11	12° Υ 58'24	20°23'41	3	7652 Feb 02 18:39	0°) €	
asc. node	7651 Mar 17 02:58	16° Y 56'45		evening max el	7652 Feb 22 20:25	26°) 36′56	21°34'31
retrograde	7651 Mar 19 22:13	17° Ƴ 37'07			7652 Feb 26 17:42	0°Υ	
evening set	7651 Mar 23 20:35	16° Y 07'57		retrograde	7652 Mar 02 20:11	1°Υ56'22	
inferior conj	7651 Mar 29 04:33		3°07'06	asc. node	7652 Mar 03 00:03	1° Y 56'14	
minimum elong	7651 Mar 29 02:48	10° Y 07'52	3°06'47	evening set	7652 Mar 07 04:38	0° Υ 11'56	
min. Earth dist.	7651 Mar 29 21:38	9° Υ 03'37	0.67711 AU		7652 Mar 07 10:23	30°₽)	
morning rise	7651 Apr 03 08:49	3° Υ 46'20	***************************************	inferior conj	7652 Mar 12 12:11	23°) 54'58	2°41'55
direct	7651 Apr 09 00:19	1° Υ 15'16		minimum elong	7652 Mar 12 09:58	24°) (02'39	
morning max el	7651 Apr 20 08:28	8° Υ 02'22	24°27'13	min. Earth dist.	7652 Mar 12 16:21		0.68239 AU
desc. node	7651 Apr 21 03:45	8° Υ 52'04		morning rise	7652 Mar 17 15:09	17°) (42'32	
	7651 May 07 12:58	0°8		direct	7652 Mar 22 16:36	15°) (30'49	
morning set	7651 May 26 04:33	29° 8 50'20		morning max el	7652 Apr 01 18:18	21°) 28'39	22°57'33
8	7651 May 26 06:46	0°II		desc. node	7652 Apr 07 00:44	27°) 24'09	
max. Earth dist.	7651 May 29 19:49		1.37636 AU		7652 Apr 09 02:33	0° Υ	
	,				7652 Apr 29 19:38	0°8	
superior conj	7651 Jun 05 18:10	19° Ⅱ 16'45	-1°08'18	morning set	7652 May 06 06:06	10° 8 25'02	
minimum elong	7651 Jun 05 22:18	19° Ⅱ 36'39		max. Earth dist.	7652 May 10 16:13		1.39870 AU
g	7651 Jun 11 05:10	0°9	1 07 15	man. Darun diot.	7652 May 17 12:30	0°II	1.57070110
asc. node	7651 Jun 13 02:03	3°5643'29			7002 May 17 12.00	· -	
evening rise	7651 Jun 14 10:23	6°9524'18		superior conj	7652 May 18 09:38	1° Ⅱ 36'31	-1°37'32
	7651 Jun 27 23:53	0°Ω		minimum elong	7652 May 18 15:11	2° П 01'54	
evening max el	7651 Jul 01 02:18		19°12'23	evening rise	7652 May 28 03:02	19° ∏ 56'13	1 3330
retrograde	7651 Jul 10 03:52	8° Ω 00'43	., .2.25	asc. node	7652 May 29 23:06	23° II 25'57	
evening set	7651 Jul 12 01:42	7° Ω 49'38		350. 11000	7652 Jun 02 11:45	0°95	
desc. node	7651 Jul 18 03:03	5°Ω13'05		evening max el	7652 Jun 13 05:25	15° © 50'42	18°30'41
inferior conj	7651 Jul 20 13:10	3° Ω 38'52	-0°44'13	retrograde	7652 Jun 20 22:39	19° 5 30 4 2	10 00 11
minimum elong	7651 Jul 20 11:14	3° Ω 42'06		evening set	7652 Jun 23 02:25	19°524'03	
min. Earth dist.	7651 Jul 23 08:01	1° Ω 47'24		inferior conj	7652 Jun 30 18:01	14°954'05	0°57'03
Zartii dist.	7651 Jul 26 08:14	30°RS	3.5301710	minimum elong	7652 Jun 30 19:59	14°950'12	
morning rise	7651 Jul 28 17:51	28°954'04		min. Earth dist.	7652 Jul 04 02:31		0.57900 AU
	,001 Jul 20 17.J1	20 -3704		min. Durin dist.	,002 Jul 07 02.J1	12 -1/0/	5.57700 AU

desc. node	7652 Jul 04 00:07	12° © 21'36		min. Earth dist.	7653 Jun 16 03:54	23° ∏ 50'39	0.60090 AU
morning rise	7652 Jul 08 10:08	9° © 32'51		morning rise	7653 Jun 19 20:48	21° I I03'05	0.00090110
direct	7652 Jul 14 07:39	8°503'59		desc. node	7653 Jun 20 21:09	20°∏28'20	
morning max el	7652 Jul 28 17:03	15° © 42'45	26°53'53	direct	7653 Jun 26 08:47	19° Ⅱ 01'45	
Č	7652 Aug 09 07:39	$0^{\circ}\Omega$		morning max el	7653 Jul 10 17:06	26° Ⅱ 57'03	27°43'03
asc. node	7652 Aug 25 22:28	29° Ω 26'44		C	7653 Jul 13 14:31	0ంతె	
	7652 Aug 26 04:53	0° m			7653 Aug 02 22:21	$0^{\circ}\Omega$	
morning set	7652 Aug 27 13:25	2° m 50'23		morning set	7653 Aug 11 19:33	17° Ω 17'56	
				asc. node	7653 Aug 12 19:29	19° Ω 23′16	
superior conj	7652 Sep 03 12:40	18° Mp 03'00	1°18'01		7653 Aug 17 17:18	0° ™	
minimum elong	7652 Sep 03 10:26	17° m 50'40	1°17'40	max. Earth dist.	7653 Aug 18 01:10	0° ™ 43'19	1.31758 AU
max. Earth dist.	7652 Sep 03 15:05	18°Mp 16'28	1.31762 AU				
	7652 Sep 08 23:18	0∘ ⊽		superior conj	7653 Aug 19 00:05	2° m 49'51	0°59'48
evening rise	7652 Sep 10 08:32	2° ჲ 57'18		minimum elong	7653 Aug 18 21:55	2°m/37'52	0°59'21
	7652 Sep 24 19:22	0° M		evening rise	7653 Aug 25 18:15	17° m 38'29	
desc. node	7652 Sep 29 23:05	7°M46'06			7653 Aug 31 19:22	0∘ ⊽	
evening max el	7652 Oct 10 12:55	20°M19'02	26°48'29	desc. node	7653 Sep 16 20:10	25° ჲ 32'08	
retrograde	7652 Oct 24 10:37	27°M27'58			7653 Sep 20 18:33	0° M	
evening set	7652 Oct 31 07:43	25° M27'08		evening max el	7653 Sep 22 08:39	1°M34'38	25°41'01
min. Earth dist.	7652 Nov 04 02:59	22°M50'09	0.60122 AU	retrograde	7653 Oct 06 07:07	8°M38'13	
inferior conj	7652 Nov 07 07:42	20°M14'39	-4°18'37	evening set	7653 Oct 12 10:16	7°M10'13	
minimum elong	7652 Nov 07 14:48	20°M00'12	4°16'39	min. Earth dist.	7653 Oct 16 21:01	4°M33'35	0.58057 AU
morning rise	7652 Nov 15 00:11	15°M31'59		inferior conj	7653 Oct 19 23:07	2°M22'59	-5°10'11
direct	7652 Nov 17 05:47	15°M13'13		minimum elong	7653 Oct 20 04:41	2°M13'08	5°09'17
asc. node	7652 Nov 21 21:55	16° ™ 39'49			7653 Oct 23 13:16	30°Ŗ Ω	
morning max el	7652 Nov 24 17:59	18°M55'51	18°07'53	morning rise	7653 Oct 28 01:26	28° ჲ 03'06	
	7652 Dec 02 19:28	0° ∡		direct	7653 Oct 30 10:10	27° ≏ 45'36	
morning set	7652 Dec 10 11:05	13° ∡ ′51′16			7653 Nov 05 17:48	0° M	
	7652 Dec 19 04:16	0°ප		morning max el	7653 Nov 07 23:19	1°M52'02	18°46'28
				asc. node	7653 Nov 08 18:57	2°M41'15	
superior conj	7652 Dec 20 02:57	1° る 42'05	0°48'51	morning set	7653 Nov 24 07:33	28°M03'50	
minimum elong	7652 Dec 20 06:16	1° る 56'56	0°48'29		7653 Nov 25 07:17	0° ∡	
desc. node	7652 Dec 26 22:10	13° る 33'22					
max. Earth dist.	7652 Dec 27 18:34	14° る 59'26	1.41595 AU	superior conj	7653 Dec 02 21:29	14° ∡ °42′09	1°14'45
evening rise	7653 Jan 01 21:51	23° る 27'02		minimum elong	7653 Dec 03 00:50	14° ∡ 57′57	1°14'27
	7653 Jan 06 00:47	0° ≈		max. Earth dist.	7653 Dec 10 00:56	27° ∡ ¹46′04	1.39488 AU
	7653 Jan 26 18:53	0° ∀			7653 Dec 11 07:29	0° ろ	
evening max el	7653 Feb 04 13:01	10° 米 17'36	22°52'50	desc. node	7653 Dec 13 19:10	4° る 16'41	
retrograde	7653 Feb 14 16:07	16°) 18′10		evening rise	7653 Dec 14 00:32	4° る 39'24	
asc. node	7653 Feb 17 21:07	15° ¥ 26′16			7653 Dec 30 04:13	0° ≈	
evening set	7653 Feb 19 11:52	14°) 18'46		evening max el	7654 Jan 18 02:54	24°≈01'37	24°12'50
inferior conj	7653 Feb 24 20:47	7°) ₹54'09	2°07'42		7654 Jan 26 06:44	0°) {	
minimum elong	7653 Feb 24 18:32	8° ₩ 01'56	2°07'02	retrograde	7654 Jan 29 08:33	0°) (37′19	
min. Earth dist.	7653 Feb 24 13:02	8° ¥ 20′59	0.68347 AU		7654 Feb 01 05:22	30°R≈	
morning rise	7653 Mar 02 01:06	1°) 46′11		evening set	7654 Feb 03 16:41	28°≈23'51	
	7653 Mar 05 17:02	30°R≈		asc. node	7654 Feb 04 18:11	27°≈24'28	0.60062.444
direct	7653 Mar 06 12:25	29°≈56'36		min. Earth dist.	7654 Feb 08 09:21	23°≈00'09	0.68063 AU
	7653 Mar 07 08:11	0°) (04112	21021122	inferior conj	7654 Feb 09 04:27	21°≈55'45	1°25'10
morning max el	7653 Mar 15 08:15	5°) €04'12	21°31′32	minimum elong	7654 Feb 09 02:38	22°≈01'52	1°24'35
desc. node	7653 Mar 24 21:42	16°) 38'51		morning rise	7654 Feb 14 12:39	15°≈53'46	
. ,	7653 Apr 03 06:59	0°Υ 10° Υ 42102		direct	7654 Feb 18 10:37	14°≈26'24	20015142
morning set	7653 Apr 16 03:56	19° Y 43'03	1 42000 411	morning max el	7654 Feb 26 05:07	18°≈50'38	20°15'42
max. Earth dist.	7653 Apr 22 16:51	0° 8 17'35	1.42008 AU		7654 Mar 07 06:40	0°) {	
	7653 Apr 22 12:35	0°8		desc. node	7654 Mar 11 18:39	6°) €23'53	
	7652 A 20 05.10	120 00115	2000124	morning set	7654 Mar 26 04:11	28°) (04'41 0° °	
superior conj	7653 Apr 30 05:10	13° 8 00'15		may Earth dist	7654 Mar 27 09:58	0 γ 13° Υ 34'11	1 42794 ATT
minimum elong	7653 Apr 30 10:11 7653 May 09 17:47	13° 8 22'01 0° Ⅱ	2 00 07	max. Earth dist.	7654 Apr 05 00:35	13 3411	1.43784 AU
avanina risa		0 П 2°П50'03		aumariar aani	7654 Apr. 11 00:21	23° Y 18'52	2011112
evening rise asc. node	7653 May 11 07:04 7653 May 16 20:10	12° Д 50'03		superior conj minimum elong	7654 Apr 11 00:31 7654 Apr 11 01:25	23° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
evening max el	7653 May 16 20:10 7653 May 27 15:18	12° П 31'09 28° П 40'53	18°09'09	mmmum ciong	7654 Apr 15 00:54	0° 8	2 11 1 <i>J</i>
CVCIIII'S IIIAX CI	7653 May 29 02:57	28 П 40 33	10 07 07	evening rise	7654 Apr 23 17:47	14° 8 54'32	
retrograde	7653 Jun 03 11:31	0 39 2°908'46		evening 11se	7654 May 02 13:24	0°Ⅱ	
evening set	7653 Jun 05 22:45	1°9542'13		asc. node	7654 May 03 17:13	0 П 1°П52'16	
evening set	7653 Jun 09 02:06	1 30°R∏		evening max el	7654 May 11 04:15	1 Щ32 16 11°Щ52'55	18°07'01
inferior conj	7653 Jun 12 20:02	26° ∏ 52'01	2°10'18	retrograde	7654 May 17 14:33	11 Ⅲ 3233	10 0/01
minimum elong	7653 Jun 12 23:10	26° ∏ 44'49	2°09'19	evening set	7654 May 20 09:07	13 Ⅱ 13 43 14° Ⅱ 35'13	
mmmum clong	,000 Jun 12 20.10	20 <u>1</u> 7777	2 0, 1,	Stelling Set	700 1 111uy 20 07.07		

inferior conj minimum elong	7654 May 26 15:48 7654 May 26 18:18	9°П25'33 9°П19'00	2°56'10 2°55'36	inferior conj minimum elong	7655 May 10 01:12 7655 May 10 02:23	22° 8 23'29	3°19'30 3°19'18
min. Earth dist.	7654 May 29 13:35	6° ∏ 24'24	0.62315 AU	min. Earth dist.	7655 May 12 08:26	19° 8 46'47	0.64326 AU
morning rise	7654 Jun 02 01:44	3° Ⅱ 19'53		morning rise	7655 May 15 22:43	16° 8 12'47	
desc. node	7654 Jun 07 18:09	0° П 55'25		direct	7655 May 22 16:04	13° 8 29'00	
direct	7654 Jun 08 20:17 7654 Jun 22 22:51	0°П51'43 8°П53'46	27°54'22	desc. node	7655 May 25 15:09 7655 Jun 05 08:12	13° 8 56'57 21° 8 27'36	27°29'14
morning max el	7654 Jul 09 05:50	о п ээ 40	21 34 22	morning max el	7655 Jun 12 18:15	0° Ⅱ	27 29 14
	7654 Jul 26 03:01	0° U			7655 Jul 02 09:42	0ಂ ತಾ	
morning set	7654 Jul 26 20:07	1° Ω 26'27		morning set	7655 Jul 10 12:31	15° © 08'12	
asc. node	7654 Jul 30 16:29	9° Ω 27'02		max. Earth dist.	7655 Jul 15 07:10	24°5548'18	1.33149 AU
max. Earth dist.	7654 Aug 01 07:47	12° Ω 57'25	1.32214 AU	asc. node	7655 Jul 17 13:28	29° © 33'18	
	-				7655 Jul 17 18:31	$0^{\circ}\Omega$	
superior conj	7654 Aug 03 09:24	17° Ω 26′35	0°37'10				
minimum elong	7654 Aug 03 07:47	17° Ω 17'47	0°36'45	superior conj	7655 Jul 18 14:34	1° Ω 46'42	0°10'39
	7654 Aug 09 03:20	0° m		minimum elong	7655 Jul 18 14:02	1° Ω 43'53	0°10'26
evening rise	7654 Aug 10 05:46	2° Mp 22'07		behind sun begin	7655 Jul 18 09:53	1° Ω 21'42	
	7654 Aug 25 03:11	0∘ ⊽		behind sun end	7655 Jul 18 18:12	2° Ω 06'05	
desc. node	7654 Sep 03 17:14	11° Ω 56'26	24040400	evening rise	7655 Jul 25 17:12	17° Ω 01'46	
evening max el	7654 Sep 03 21:49	12° Ω 07'34	24°10'09	. ,	7655 Aug 01 03:01	0° Mp	22021105
retrograde	7654 Sep 17 15:37	19° £ 01'05		evening max el	7655 Aug 16 10:13	22° Mp 21'54	22°31'05
evening set min. Earth dist.	7654 Sep 22 12:08 7654 Sep 28 08:37	18° ♀ 09'08 15° ♀ 14'24	0.56265 AU	desc. node retrograde	7655 Aug 21 14:18 7655 Aug 29 11:26	26° m 28'17 28° m 52'08	
inferior conj	7654 Sep 30 18:20	13° ⊆ 1424		evening set	7655 Sep 01 19:44	28° m) 27'32	
minimum elong	7654 Sep 30 18:19	13° Ω 45'14		min. Earth dist.	7655 Sep 09 17:13	24° m) 58'58	0.55062 AU
morning rise	7654 Oct 09 02:41	9° Ω 45'49	0 31	inferior conj	7655 Sep 10 19:26	24° m) 21'51	
direct	7654 Oct 11 19:33	9° £ 26'41		minimum elong	7655 Sep 10 12:18	-	5°04'02
morning max el	7654 Oct 21 17:45	14° Ω 06'52	19°47'10	morning rise	7655 Sep 19 06:44	20° m 33'33	
asc. node	7654 Oct 26 15:57	19° ≏ 51'01		direct	7655 Sep 22 11:36	20° m 10'14	
	7654 Nov 01 23:17	0° M		morning max el	7655 Oct 03 23:15	25° Mp 32'49	21°09'49
morning set	7654 Nov 08 11:21	12°M36'34			7655 Oct 08 01:21	0∘ ⊽	
				asc. node	7655 Oct 13 12:56	7° ≙ 53'21	
superior conj	7654 Nov 16 07:09	28°M25'48	1°31'30	morning set	7655 Oct 23 19:47	27° ≏ 20'43	
minimum elong	7654 Nov 16 09:29	28°M37'19	1°31'24		7655 Oct 25 02:22	0°M₊	
P. d. F.	7654 Nov 17 02:12	0° ₹	1 27256 ATT		7655 0 + 21 02 25	1.20M 2.012.4	1040107
max. Earth dist.	7654 Nov 22 06:47	9° х 58'19	1.37356 AU	superior conj	7655 Oct 31 03:35	12°M39'34	1°40'06
evening rise desc. node	7654 Nov 26 00:48	16° ₹ 49'42 24° ₹ 54'09		minimum elong max. Earth dist.	7655 Oct 31 04:32	12°M44'31	1°40'08
desc. node	7654 Nov 30 16:13 7654 Dec 03 17:50	24° X '34'09		evening rise	7655 Nov 04 16:49 7655 Nov 08 19:12	21°M53'00 29°M47'56	1.35415 AU
	7654 Dec 24 14:56	0°≈		evening rise	7655 Nov 08 21:46	29 11 0 47 30	
evening max el	7654 Dec 31 16:03	7° ≈ 48'54	25°27'34	desc. node	7655 Nov 17 13:16	15° ₹ 20'21	
retrograde	7655 Jan 12 20:28	14° ≈ 49′28			7655 Nov 26 21:41	0°る	
evening set	7655 Jan 18 17:32	12° ≈ 23'49		evening max el	7655 Dec 14 05:12	21° පි 33'16	26°29'53
asc. node	7655 Jan 22 15:13	8° ≈ 11'56		retrograde	7655 Dec 27 03:05	28°る48'08	
min. Earth dist.	7655 Jan 23 03:00	7° ≈ 34'42	0.67407 AU	evening set	7656 Jan 02 12:38	26° る 13'49	
inferior conj	7655 Jan 24 09:22	5° ≈ 57'03	0°34'55	min. Earth dist.	7656 Jan 06 15:38	21° る 59'38	0.66377 AU
minimum elong	7655 Jan 24 08:30	5° ≈ 59'49	0°34'40	inferior conj	7656 Jan 08 09:33	19° る 53'40	
morning rise	7655 Jan 29 23:50	0°≈03'01		minimum elong	7656 Jan 08 10:10	19° る 51'49	0°22'06
	7655 Jan 30 01:42	30°Rる		asc. node	7656 Jan 09 12:15	18°る34'21	
direct	7655 Feb 02 09:46	28° る 55'58		morning rise	7656 Jan 14 08:30	14° る 09'59	
marning may al	7655 Feb 05 21:53 7655 Feb 09 09:59	0° ≈ 2° ≈ 48'18	19°14'05	direct	7656 Jan 17 08:00 7656 Jan 23 21:38	13°る20'10 16°る52'51	18°28'33
morning max el greatest brilliancy	7655 Feb 22 16:17	2 ≈48 18 20°≈29'37	-0.7m	morning max el	7656 Feb 02 18:40	0°≈	18 28 33
desc. node	7655 Feb 26 15:36	26°≈31'21	-0.7111	morning set	7656 Feb 13 03:11	0 ∞ 16°≈17'43	
dese. Hode	7655 Feb 28 22:00	0° ∀		desc. node	7656 Feb 13 12:35	16°≈55'01	
morning set	7655 Mar 05 04:28	6°) 35′13			7656 Feb 21 19:06	0° ∀	
max. Earth dist.	7655 Mar 18 15:16	27°) €33'37	1.44985 AU				
	7655 Mar 20 04:21	0°Υ		superior conj	7656 Feb 29 00:54	11°) 21'44	-1°36'56
				minimum elong	7656 Feb 28 15:17	10°) 44′05	1°35'58
superior conj	7655 Mar 21 19:48	2° Y 36'13	-2°04'06	max. Earth dist.	7656 Feb 29 10:09	11° ¥ 57'58	1.45477 AU
minimum elong	7655 Mar 21 13:49	2° Y 12'30	2°03'48		7656 Mar 11 21:56	$0^{\circ}\Upsilon$	
evening rise	7655 Apr 05 06:53	26° Ƴ 02'17		evening rise	7656 Mar 15 20:35	6° Ƴ 13'40	
	7655 Apr 07 16:23	0°8		greatest brilliancy	7656 Mar 25 07:15	21° Y '07'48	-0.8m
asc. node	7655 Apr 20 14:16	20° 8 21'39			7656 Mar 31 03:52	0°8	
evening max el	7655 Apr 24 17:10	25° 8 18'40	18°23'28	asc. node	7656 Apr 06 11:19	8° 8 09'35	
retrograde	7655 May 01 03:28	28° 8 46'32		evening max el	7656 Apr 07 03:26	8° 8 51'43	18°57'37
evening set	7655 May 04 05:06	27° 8 54'42		retrograde	7656 Apr 13 22:26	12° 8 39'27	

	7656 A 17 07:00	11° 8 33'33		1-	7(57 M 24 00-22	25° Y ′03'27	
evening set	7656 Apr 17 07:22		2025112	asc. node	7657 Mar 24 08:22		
inferior conj	7656 Apr 22 20:29	5° 8 49'16	3°25'13	retrograde	7657 Mar 28 20:21	26° Y 45'54	
minimum elong	7656 Apr 22 20:18	5° 8 49'51	3°25'08	evening set	7657 Apr 01 13:24	25° Y 25'28	2017102
min. Earth dist.	7656 Apr 24 12:15	3° 8 43'50	0.65975 AU	inferior conj	7657 Apr 06 22:31	19° Y ′26'40	3°17'03
	7656 Apr 27 20:30	30° ₹ Υ		minimum elong	7657 Apr 06 21:14	19° Ƴ 30'56	3°16'52
morning rise	7656 Apr 28 08:46	29° Y 32′03		min. Earth dist.	7657 Apr 07 23:33	18° Y ′02'57	0.67201 AU
direct	7656 May 04 18:49	26° Ƴ 44'58		morning rise	7657 Apr 12 04:48	13° Y ′09'38	
desc. node	7656 May 11 12:08	29° Ƴ 08'32		direct	7657 Apr 18 03:42	10° Ƴ 30'11	
	7656 May 12 17:37	9° 8		desc. node	7657 Apr 28 09:08	15° Ƴ 57'49	
morning max el	7656 May 17 18:39	4° 8 27'57	26°33'50	morning max el	7657 Apr 30 04:19	17° Ƴ 42'34	25°17'00
	7656 Jun 06 05:19	$\Pi^{\circ}0$			7657 May 10 11:17	0° 8	
morning set	7656 Jun 22 17:33	28° Ⅱ 14'27			7657 May 30 05:39	$\Pi^{\circ}0$	
	7656 Jun 23 15:48	0°€		morning set	7657 Jun 05 06:52	10° Ⅲ 32'47	
max. Earth dist.	7656 Jun 26 20:21	6°9311'56	1.34561 AU	max. Earth dist.	7657 Jun 08 22:39	17° Ⅱ 15'29	1.36412 AU
superior conj	7656 Jul 01 13:21	15° © 43'48	-0°18'57	superior conj	7657 Jun 15 02:52	29° Ⅱ 09'53	-0°50'17
minimum elong	7656 Jul 01 14:24	15° © 49'17	0°18'50	minimum elong	7657 Jun 15 05:52	29° Ⅲ 24'46	0°49'50
asc. node	7656 Jul 03 10:29	19° © 38'20			7657 Jun 15 12:57	0°©	
	7656 Jul 08 09:01	$0^{\circ}\Omega$		asc. node	7657 Jun 20 07:31	9° © 37'37	
evening rise	7656 Jul 09 02:34	1° £ 31'31		evening rise	7657 Jun 23 07:37	15° © 44'12	
	7656 Jul 25 15:00	0° m)			7657 Jun 30 16:55	0°N	
evening max el	7656 Jul 28 06:35	2° m 53'27	20°59'45	evening max el	7657 Jul 10 15:55	14°Ω05'21	19°45'46
desc. node	7656 Aug 07 11:20	8° Mp 36'05	20 37 43	retrograde	7657 Jul 20 16:37	19° Ω 01'43	17 43 40
retrograde	7656 Aug 09 00:06	8° Mp 41'52		evening set	7657 Jul 22 13:15	18° Ω 52'17	
•	-	-		desc. node	7657 Jul 25 08:24	$18^{\circ} \Omega 05'22$	
evening set	7656 Aug 11 05:39	8° Mp 30'04	2044154				1051116
inferior conj	7656 Aug 20 12:03	4° m 32'50		inferior conj	7657 Jul 31 10:45	14° Ω 50'13	
minimum elong	7656 Aug 20 02:48	4° m/45'55	3°42'08	minimum elong	7657 Jul 31 05:38	14° Ω 58'08	
min. Earth dist.	7656 Aug 21 02:24	4° m 12'31	0.54714 AU	min. Earth dist.	7657 Aug 02 14:20		0.55323 AU
morning rise	7656 Aug 29 00:18	0° т 36′32		morning rise	7657 Aug 08 19:54	10° Ω 25'54	
direct	7656 Sep 01 19:41	0° Mp 05′28		direct	7657 Aug 13 09:50	9° Ω 39'30	
morning max el	7656 Sep 14 17:42	6° Mp 15′09	22°49'34	morning max el	7657 Aug 27 06:42	16° Ω 32'42	24°35'05
asc. node	7656 Sep 29 09:57	26° Mp 36′00			7657 Sep 07 03:48	0° m)	
	7656 Oct 01 05:57	0。 ಹ		asc. node	7657 Sep 16 06:58	15° m 48'55	
morning set	7656 Oct 07 06:45	12° ≙ 10′18		morning set	7657 Sep 21 18:30	27° Mp 00'21	
					7657 Sep 23 04:02	0∘ ⊽	
superior conj	7656 Oct 14 07:23	27° ≙ 13'37	1°41'33				
minimum elong	7656 Oct 14 07:03	27° £ 11'46	1°41'36	superior conj	7657 Sep 28 15:57	12° ≏ 00'00	1°36'45
	7656 Oct 15 14:41	0° M.		minimum elong	7657 Sep 28 14:35	11° ≏ 52'28	1°36'41
max. Earth dist.	7656 Oct 17 10:27	3°M49'45	1.33826 AU	max. Earth dist.	7657 Sep 30 12:13	16° ≏ 00'36	1.32666 AU
evening rise	7656 Oct 22 03:47	13°M24'09		evening rise	7657 Oct 05 22:59	27° ₽ 29'19	
	7656 Oct 31 03:46	0° ∡ ¹		_	7657 Oct 07 04:48	0° M	
desc. node	7656 Nov 03 10:19	5° х 29′35		desc. node	7657 Oct 21 07:23	25° M 14'44	
	7656 Nov 20 22:04	0°⋜					
evening max el							
retrograde	7656 Nov 25 18:03	5°る05'37	27°12'33	evening max el	7657 Oct 24 10:03	0° ∡ ¹	27°28'47
	7656 Nov 25 18:03	5°る05'37	27°12'33	evening max el	7657 Oct 24 10:03 7657 Nov 08 05:17	0° ҂ ¹ 18° ҂ ¹15′02	27°28'47
•	7656 Dec 09 03:58	12° る 25'34	27°12'33	retrograde	7657 Oct 24 10:03 7657 Nov 08 05:17 7657 Nov 21 22:28	0° ⊀ 18° ⊀ 15'02 25° ⊀ 32'59	27°28'47
evening set	7656 Dec 09 03:58 7656 Dec 15 23:51	12° ප් 25'34 9° ප් 48'27		retrograde evening set	7657 Oct 24 10:03 7657 Nov 08 05:17 7657 Nov 21 22:28 7657 Nov 29 00:29	0° ₹ 15'02 18° ₹ 15'02 25° ₹ 32'59 23° ₹ 01'41	
evening set min. Earth dist.	7656 Dec 09 03:58 7656 Dec 15 23:51 7656 Dec 19 21:03	12° ප 25'34 9° ප 48'27 6° ප 08'27	0.64987 AU	retrograde evening set min. Earth dist.	7657 Oct 24 10:03 7657 Nov 08 05:17 7657 Nov 21 22:28 7657 Nov 29 00:29 7657 Dec 02 17:26	0° ₹ 15'02 25° ₹ 32'59 23° ₹ 01'41 19° ₹ 52'36	0.63274 AU
evening set min. Earth dist. inferior conj	7656 Dec 09 03:58 7656 Dec 15 23:51 7656 Dec 19 21:03 7656 Dec 22 02:44	12° ට 25'34 9°ට 48'27 6°ට 8'27 3°ට 40'29	0.64987 AU -1°26′03	retrograde evening set min. Earth dist. inferior conj	7657 Oct 24 10:03 7657 Nov 08 05:17 7657 Nov 21 22:28 7657 Nov 29 00:29 7657 Dec 02 17:26 7657 Dec 05 10:18	0° ₹ 15′02 25° ₹ 32′59 23° ₹ 01′41 19° ₹ 52′36 17° ₹ 11′36	0.63274 AU -2°33'50
evening set min. Earth dist.	7656 Dec 09 03:58 7656 Dec 15 23:51 7656 Dec 19 21:03 7656 Dec 22 02:44 7656 Dec 22 05:19	12° ට 25'34 9° ට 48'27 6° ට 08'27 3° ට 40'29 3° ට 33'22	0.64987 AU -1°26′03	retrograde evening set min. Earth dist. inferior conj minimum elong	7657 Oct 24 10:03 7657 Nov 08 05:17 7657 Nov 21 22:28 7657 Nov 29 00:29 7657 Dec 02 17:26 7657 Dec 05 10:18 7657 Dec 05 15:06	0° ₹ 18° ₹15'02 25° ₹32'59 23° ₹01'41 19° ₹52'36 17° ₹11'36 16° ₹59'41	0.63274 AU -2°33'50
evening set min. Earth dist. inferior conj minimum elong	7656 Dec 09 03:58 7656 Dec 15 23:51 7656 Dec 19 21:03 7656 Dec 22 02:44 7656 Dec 22 05:19 7656 Dec 25 18:00	12°る25'34 9°る48'27 6°る08'27 3°る40'29 3°る33'22 30°Rダ	0.64987 AU -1°26′03	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	7657 Oct 24 10:03 7657 Nov 08 05:17 7657 Nov 21 22:28 7657 Nov 29 00:29 7657 Dec 02 17:26 7657 Dec 05 10:18 7657 Dec 05 15:06 7657 Dec 12 07:36	0° ₹ 18° ₹15′02 25° ₹32′59 23° ₹01′41 19° ₹52′36 17° ₹11′36 16° ₹59′41 11° ₹56′55	0.63274 AU -2°33'50
evening set min. Earth dist. inferior conj minimum elong asc. node	7656 Dec 09 03:58 7656 Dec 15 23:51 7656 Dec 19 21:03 7656 Dec 22 02:44 7656 Dec 22 05:19 7656 Dec 25 18:00 7656 Dec 26 09:17	12°る25'34 9°る48'27 6°る08'27 3°る40'29 3°る33'22 30°Rメ 29°メ28'51	0.64987 AU -1°26′03	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node	7657 Oct 24 10:03 7657 Nov 08 05:17 7657 Nov 21 22:28 7657 Nov 29 00:29 7657 Dec 02 17:26 7657 Dec 05 10:18 7657 Dec 05 15:06 7657 Dec 12 07:36 7657 Dec 13 06:21	0° ₹ 18° ₹15′02 25° ₹32′59 23° ₹01′41 19° ₹52′36 17° ₹11′36 16° ₹59′41 11° ₹56′55 11° ₹39′54	0.63274 AU -2°33'50
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	7656 Dec 09 03:58 7656 Dec 15 23:51 7656 Dec 19 21:03 7656 Dec 22 02:44 7656 Dec 22 05:19 7656 Dec 25 18:00 7656 Dec 26 09:17 7656 Dec 28 12:08	12°る25'34 9°る48'27 6°る08'27 3°る40'29 3°る33'22 30°Rダ 29°ダ28'51 28°ダ09'52	0.64987 AU -1°26′03	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct	7657 Oct 24 10:03 7657 Nov 08 05:17 7657 Nov 21 22:28 7657 Nov 29 00:29 7657 Dec 02 17:26 7657 Dec 05 10:18 7657 Dec 05 15:06 7657 Dec 12 07:36 7657 Dec 13 06:21 7657 Dec 14 16:25	0° ₹ 15′02 25° ₹ 32′59 23° ₹ 01′41 19° ₹ 52′36 17° ₹ 11′36 16° ₹ 59′41 11° ₹ 39′54 11° ₹ 30′12	0.63274 AU -2°33'50 2°31'54
evening set min. Earth dist. inferior conj minimum elong asc. node	7656 Dec 09 03:58 7656 Dec 15 23:51 7656 Dec 19 21:03 7656 Dec 22 02:44 7656 Dec 22 05:19 7656 Dec 25 18:00 7656 Dec 26 09:17 7656 Dec 28 12:08 7656 Dec 31 03:08	12°る25'34 9°る48'27 6°る08'27 3°る40'29 3°る33'22 30°кダ 29°ダ28'51 28°ダ09'52 27°ダ33'32	0.64987 AU -1°26′03	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node	7657 Oct 24 10:03 7657 Nov 08 05:17 7657 Nov 21 22:28 7657 Nov 29 00:29 7657 Dec 02 17:26 7657 Dec 05 10:18 7657 Dec 12 07:36 7657 Dec 12 07:36 7657 Dec 13 06:21 7657 Dec 14 16:25 7657 Dec 21 07:00	0° ₹ 18° ₹15'02 25° ₹32'59 23° ₹01'41 19° ₹52'36 17° ₹11'36 16° ₹59'41 11° ₹36'55 11° ₹39'54 11° ₹30'12 14° ₹54'54	0.63274 AU -2°33'50
evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	7656 Dec 09 03:58 7656 Dec 15 23:51 7656 Dec 19 21:03 7656 Dec 22 02:44 7656 Dec 22 05:19 7656 Dec 25 18:00 7656 Dec 26 09:17 7656 Dec 28 12:08 7656 Dec 31 03:08 7657 Jan 05 12:47	12°る25'34 9°る48'27 6°る08'27 3°る40'29 3°る33'22 30°Rダ 29°ダ28'51 28°ダ09'52 27°ダ33'32 0°る	0.64987 AU -1°26'03 1°24'52	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el	7657 Oct 24 10:03 7657 Nov 08 05:17 7657 Nov 21 22:28 7657 Nov 29 00:29 7657 Dec 02 17:26 7657 Dec 05 10:18 7657 Dec 05 15:06 7657 Dec 12 07:36 7657 Dec 13 06:21 7657 Dec 14 16:25 7657 Dec 21 07:00 7657 Dec 31 19:57	0° ₹ 18° ₹15'02 25° ₹32'59 23° ₹01'41 19° ₹52'36 17° ₹11'36 16° ₹59'41 11° ₹56'55 11° ₹39'54 11° ₹30'12 14° ₹54'54	0.63274 AU -2°33'50 2°31'54
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evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	7656 Dec 09 03:58 7656 Dec 15 23:51 7656 Dec 19 21:03 7656 Dec 22 02:44 7656 Dec 22 05:19 7656 Dec 25 18:00 7656 Dec 26 09:17 7656 Dec 28 12:08 7656 Dec 31 03:08 7657 Jan 05 12:47 7657 Jan 06 13:38 7657 Jan 24 07:34	12°る25'34 9°る48'27 6°る08'27 3°る40'29 3°る33'22 30°к* 29°*28'51 28°*709'52 27°*33'32 0°る 0°る57'32 27°る28'35	0.64987 AU -1°26'03 1°24'52	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el	7657 Oct 24 10:03 7657 Nov 08 05:17 7657 Nov 21 22:28 7657 Nov 29 00:29 7657 Dec 02 17:26 7657 Dec 05 10:18 7657 Dec 05 15:06 7657 Dec 12 07:36 7657 Dec 13 06:21 7657 Dec 14 16:25 7657 Dec 21 07:00 7657 Dec 31 19:57	0° ペ 18° ペ15'02 25° ペ32'59 23° ペ01'41 19° ペ52'36 17° ペ11'36 16° ペ59'41 11° ペ39'54 11° ペ30'12 14° ペ54'54 0° で 9° で554'28 28° で11'54	0.63274 AU -2°33'50 2°31'54
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evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj	7656 Dec 09 03:58 7656 Dec 15 23:51 7656 Dec 19 21:03 7656 Dec 22 02:44 7656 Dec 22 05:19 7656 Dec 25 18:00 7656 Dec 26 09:17 7656 Dec 28 12:08 7656 Dec 31 03:08 7657 Jan 05 12:47 7657 Jan 06 13:38 7657 Jan 24 07:34 7657 Jan 25 20:08 7657 Jan 30 09:34 7657 Feb 07 10:46	12°る25'34 9°る48'27 6°る08'27 3°る40'29 3°る33'22 30°к√ 29°√28'51 28°√09'52 27°√33'32 0°る 0°る57'32 27°る28'35 0°≈ 7°≈29'48	0.64987 AU -1°26'03 1°24'52 17°59'47	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node	7657 Oct 24 10:03 7657 Nov 08 05:17 7657 Nov 21 22:28 7657 Nov 29 00:29 7657 Dec 02 17:26 7657 Dec 05 10:18 7657 Dec 12 07:36 7657 Dec 13 06:21 7657 Dec 14 16:25 7657 Dec 21 07:00 7657 Dec 31 19:57 7658 Jan 06 13:44 7658 Jan 17 06:34 7658 Jan 18 08:37	0° ₹ 18° ₹15'02 25° ₹32'59 23° ₹01'41 19° ₹52'36 17° ₹11'36 16° ₹59'41 11° ₹56'55 11° ₹39'54 11° ₹30'12 14° ₹54'54 0° ₹ 9° ₹54'28 28° ₹11'54 0° ≈ 0° ≈36'37 0° ≈32'03	0.63274 AU -2°33'50 2°31'54 17°48'19
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	7656 Dec 09 03:58 7656 Dec 15 23:51 7656 Dec 19 21:03 7656 Dec 22 02:44 7656 Dec 22 05:19 7656 Dec 25 18:00 7656 Dec 26 09:17 7656 Dec 28 12:08 7656 Dec 31 03:08 7657 Jan 05 12:47 7657 Jan 06 13:38 7657 Jan 24 07:34 7657 Jan 25 20:08 7657 Jan 30 09:34 7657 Feb 07 10:46 7657 Feb 07 04:15	12°る25'34 9°る48'27 6°る08'27 3°る40'29 3°る33'22 30°R* 29°*28'51 28°*709'52 27°*33'32 0°る57'32 27°る28'35 0°≈ 7°≈29'48 20°≈27'44 20°≈21'50	0.64987 AU -1°26'03 1°24'52 17°59'47 -0°55'32 0°54'35	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin	7657 Oct 24 10:03 7657 Nov 08 05:17 7657 Nov 21 22:28 7657 Nov 29 00:29 7657 Dec 02 17:26 7657 Dec 05 10:18 7657 Dec 05 15:06 7657 Dec 12 07:36 7657 Dec 13 06:21 7657 Dec 14 16:25 7657 Dec 21 07:00 7657 Dec 31 19:57 7658 Jan 06 13:44 7658 Jan 17 06:34 7658 Jan 18 08:37 7658 Jan 18 17:29 7658 Jan 18 16:22 7658 Jan 18 09:02	0° ₹ 18° ₹15'02 25° ₹32'59 23° ₹01'41 19° ₹52'36 17° ₹11'36 16° ₹59'41 11° ₹56'55 11° ₹39'54 11° ₹30'12 14° ₹54'54 0° ₹ 9° ₹54'28 28° ₹11'54 0° ≈ 0° ≈36'37 0° ≈32'03 0° ≈01'41	0.63274 AU -2°33'50 2°31'54 17°48'19
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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	7656 Dec 09 03:58 7656 Dec 15 23:51 7656 Dec 19 21:03 7656 Dec 22 02:44 7656 Dec 22 05:19 7656 Dec 25 18:00 7656 Dec 26 09:17 7656 Dec 28 12:08 7656 Dec 31 03:08 7657 Jan 05 12:47 7657 Jan 06 13:38 7657 Jan 24 07:34 7657 Jan 25 20:08 7657 Feb 07 10:46 7657 Feb 07 04:15 7657 Feb 11 05:50 7657 Feb 13 11:58	12° 525'34 9° 548'27 6° 508'27 3° 540'29 3° 533'22 30° 8 * 28'51 28° * 709'52 27° * 33'32 0° 557'32 27° 528'35 0° ≈ 7° ≈ 29'48 20° ≈ 27'44 20° ≈ 21'50 26° ≈ 27'41 0° 米	0.64987 AU -1°26'03 1°24'52 17°59'47 -0°55'32 0°54'35	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end	7657 Oct 24 10:03 7657 Nov 08 05:17 7657 Nov 21 22:28 7657 Nov 29 00:29 7657 Dec 02 17:26 7657 Dec 05 10:18 7657 Dec 05 15:06 7657 Dec 12 07:36 7657 Dec 13 06:21 7657 Dec 14 16:25 7657 Dec 21 07:00 7657 Dec 31 19:57 7658 Jan 06 13:44 7658 Jan 17 06:34 7658 Jan 18 08:37 7658 Jan 18 17:29 7658 Jan 18 16:22 7658 Jan 18 09:02 7658 Jan 18 23:43 7658 Jan 18 23:43	0° ₹ 18° ₹15'02 25° ₹32'59 23° ₹01'41 19° ₹52'36 17° ₹11'36 16° ₹59'41 11° ₹56'55 11° ₹39'54 11° ₹30'12 14° ₹54'54 0° ₹ 9° ₹54'28 28° ₹11'54 0° ≈ 0° ≈32'03 0° ≈01'41 1° ≈02'21 10° ≈45'55	0.63274 AU -2°33'50 2°31'54 17°48'19 -0°10'32 0°10'16
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.	7656 Dec 09 03:58 7656 Dec 15 23:51 7656 Dec 19 21:03 7656 Dec 22 02:44 7656 Dec 22 05:19 7656 Dec 25 18:00 7656 Dec 26 09:17 7656 Dec 28 12:08 7656 Dec 31 03:08 7657 Jan 05 12:47 7657 Jan 06 13:38 7657 Jan 25 20:08 7657 Jan 30 09:34 7657 Feb 07 10:46 7657 Feb 07 04:15 7657 Feb 11 05:50 7657 Feb 13 11:58 7657 Feb 23 14:55	12° 525'34 9° 548'27 6° 508'27 3° 540'29 3° 533'22 30° 8 * 228'51 28° * 309'52 27° * 33'32 0° 557'32 27° 528'35 0° ≈ 7° ≈ 29'48 20° ≈ 27'44 20° ≈ 21'50 26° ≈ 27'41 0° ★ 15° ★ 42'36	0.64987 AU -1°26'03 1°24'52 17°59'47 -0°55'32 0°54'35	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end max. Earth dist.	7657 Oct 24 10:03 7657 Nov 08 05:17 7657 Nov 21 22:28 7657 Nov 29 00:29 7657 Dec 02 17:26 7657 Dec 05 10:18 7657 Dec 05 15:06 7657 Dec 12 07:36 7657 Dec 13 06:21 7657 Dec 14 16:25 7657 Dec 21 07:00 7657 Dec 31 19:57 7658 Jan 06 13:44 7658 Jan 17 06:34 7658 Jan 18 08:37 7658 Jan 18 17:29 7658 Jan 18 16:22 7658 Jan 18 09:02 7658 Jan 18 09:02 7658 Jan 18 23:43 7658 Jan 24 23:30 7658 Feb 03 01:57	0° ₹ 18° ₹15'02 25° ₹32'59 23° ₹01'41 19° ₹52'36 17° ₹11'36 16° ₹59'41 11° ₹56'55 11° ₹39'54 11° ₹30'12 14° ₹54'54 0° ₹ 9° ₹54'28 28° ₹11'54 0° ₹ 0° ₹32'03 0° ₹32'03 0° ₹01'41 1° ₹02'21 10° ₹45'55 25° ₹01'50	0.63274 AU -2°33'50 2°31'54 17°48'19 -0°10'32 0°10'16
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	7656 Dec 09 03:58 7656 Dec 15 23:51 7656 Dec 19 21:03 7656 Dec 22 02:44 7656 Dec 22 05:19 7656 Dec 25 18:00 7656 Dec 26 09:17 7656 Dec 28 12:08 7656 Dec 31 03:08 7657 Jan 05 12:47 7657 Jan 06 13:38 7657 Jan 24 07:34 7657 Jan 25 20:08 7657 Jan 30 09:34 7657 Feb 07 10:46 7657 Feb 07 04:15 7657 Feb 11 05:50 7657 Feb 13 11:58 7657 Feb 23 14:55 7657 Mar 04 22:57	12° 525'34 9° 548'27 6° 508'27 3° 540'29 3° 533'22 30° 8 * 29° * 28'51 28° * 709'52 27° * 733'32 0° 5 0° 557'32 27° 528'35 0° ≈ 7° ≈ 29'48 20° ≈ 27'44 20° ≈ 01'50 26° ≈ 27'41 0° ★ 15° ★ 42'36 0° ♀	0.64987 AU -1°26'03 1°24'52 17°59'47 -0°55'32 0°54'35 1.45222 AU	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end max. Earth dist.	7657 Oct 24 10:03 7657 Nov 08 05:17 7657 Nov 21 22:28 7657 Nov 29 00:29 7657 Dec 02 17:26 7657 Dec 05 10:18 7657 Dec 05 15:06 7657 Dec 12 07:36 7657 Dec 13 06:21 7657 Dec 14 16:25 7657 Dec 21 07:00 7657 Dec 31 19:57 7658 Jan 06 13:44 7658 Jan 17 06:34 7658 Jan 18 08:37 7658 Jan 18 17:29 7658 Jan 18 16:22 7658 Jan 18 09:02 7658 Jan 18 23:43 7658 Jan 24 23:30 7658 Feb 03 01:57 7658 Feb 06 07:53	0° ₹ 18° ₹15'02 25° ₹32'59 23° ₹01'41 19° ₹52'36 17° ₹11'36 16° ₹59'41 11° ₹56'55 11° ₹39'54 11° ₹30'12 14° ₹54'54 0° ♂ 9° ♂554'28 28° ♂11'54 0° ≈ 0° ≈32'03 0° ≈01'41 1° ≈02'21 10° ≈45'55 25° ≈01'50 0° ★	0.63274 AU -2°33'50 2°31'54 17°48'19 -0°10'32 0°10'16 1.44259 AU

asa mada	7659 Mar. 11, 05:27	10° Ƴ 49'21		daga mada	7650 Ion 04 02:24	100=57104	
asc. node	7658 Mar 11 05:27	10° Y 49'21 11° Y '01'54		desc. node	7659 Jan 04 03:34	18°る57'04 24°る37'39	1 42702 ATT
retrograde evening set	7658 Mar 12 18:50	9° Υ 26'29		max. Earth dist.	7659 Jan 07 13:22 7659 Jan 10 20:38	24° ⊙ 3739 0°≈	1.42703 AU
inferior conj	7658 Mar 16 21:13 7658 Mar 22 04:47	3° Υ 15'28	2°57'34	evening rise	7659 Jan 13 20:59	0 ≈ 4°≈47'58	
minimum elong	7658 Mar 22 02:48	3° Υ 22'21	2°57'10	evening rise	7659 Jan 30 16:09	4 ≈ 47 38	
min. Earth dist.	7658 Mar 22 16:18	2° Υ 35'42	0.67990 AU	evening max el	7659 Feb 15 04:47	0 X 19° ¥ 45'44	22°07'14
iiiii. Eartii dist.	7658 Mar 24 14:55	2 1 33 42 30°R ∺	0.07990 AU	retrograde	7659 Feb 24 16:01	25°\(\frac{1}{2}\)22'32	22 07 14
morning rise	7658 Mar 27 08:08	27° ₩ 00'48		asc. node	7659 Feb 26 02:32	25°\(\frac{1}{25}\)	
direct	7658 Apr 01 17:45	24°) 37'11		evening set	7659 Mar 01 05:07	23°\dagger 31'52	
uncet	7658 Apr 11 10:57	0° Υ		inferior conj	7659 Mar 06 13:04	17° X 11'27	2°28'26
morning max el	7658 Apr 12 13:16	1° Υ '04'37	23°49'01	minimum elong	7659 Mar 06 10:47	17°) 19'23	2°27'50
desc. node	7658 Apr 15 06:08	3° Y 58'31	23 17 01	min. Earth dist.	7659 Mar 06 12:09	17°) 14'40	0.68343 AU
desc. Hode	7658 May 04 10:02	0°8		morning rise	7659 Mar 11 16:18	11°) 00'43	0.003 13 710
morning set	7658 May 17 23:03	21° 8 49'16		direct	7659 Mar 16 11:48	8° ¥ 58'00	
max. Earth dist.	7658 May 21 18:31	28° 8 26'53	1.38579 AU	morning max el	7659 Mar 26 00:12	14°) 33'40	22°19'55
	7658 May 22 15:29	0°II		desc. node	7659 Apr 02 03:06	22° ¥ 50'15	
	, , , , , , , , , , , , , , , , , , , ,	_			7659 Apr 07 11:25	0° Υ	
superior conj	7658 May 29 03:37	11° Ⅱ 56'49	-1°21'11		7659 Apr 27 09:27	0°8	
minimum elong	7658 May 29 08:28	12° Ⅱ 19'45		morning set	7659 Apr 28 12:49	1° 8 50'46	
evening rise	7658 Jun 07 05:43	29° Ⅲ 33'03		max. Earth dist.	7659 May 03 16:03	10° 8 21'03	1.40815 AU
asc. node	7658 Jun 07 04:33	29° Ⅱ 27'19				. •	
	7658 Jun 07 11:14	0ಂತಾ		superior conj	7659 May 11 11:13	23° 8 54'27	-1°48'19
evening max el	7658 Jun 23 13:32	26°901'24	18°52'11	minimum elong	7659 May 11 16:53	24° 8 19'47	
<i>&</i>	7658 Jun 30 04:16	$0^{\circ}\Omega$		8	7659 May 14 19:58	0°II	
retrograde	7658 Jul 01 23:58	0° Ω 11'24		evening rise	7659 May 21 17:30	12° Ⅱ 49'54	
evening set	7658 Jul 03 23:55	29° 9 58'17		asc. node	7659 May 25 01:36	19° Ⅱ 03'06	
8	7658 Jul 03 20:37	30° ℝ ∽			7659 May 31 08:04	0ಂತಾ	
inferior conj	7658 Jul 12 03:04	25° © 40'11	0°01'48	evening max el	7659 Jun 06 20:03	8°934'50	18°19'07
minimum elong	7658 Jul 12 03:08	25°9540'03	0°01'40	retrograde	7659 Jun 14 02:40	12°9513'22	
transit middle	7658 Jul 12 03:08	25° © 40'03	0°01'40	evening set	7659 Jun 16 09:45	11° © 52'29	
transit begin	7658 Jul 11 23:26	25° 5 6'41		inferior conj	7659 Jun 23 17:09	7° © 13'47	1°31'42
transit end	7658 Jul 12 06:50	25° © 33'25		minimum elong	7659 Jun 23 19:55	7° © 07'58	1°30'42
desc. node	7658 Jul 12 05:28	25° © 35'53		min. Earth dist.	7659 Jun 27 02:54	4° © 23'39	0.58811 AU
min. Earth dist.	7658 Jul 15 05:58	23°526'59	0.56787 AU	desc. node	7659 Jun 29 02:30	2°954'54	
morning rise	7658 Jul 20 02:58	20° © 39'16		morning rise	7659 Jul 01 02:55	1° © 39'50	
direct	7658 Jul 25 13:51	19° 5 27'46		-	7659 Jul 06 06:10	30° Ŗ Ⅱ	
morning max el	7658 Aug 08 20:51	26°953'04	26°10'13	direct	7659 Jul 07 07:38	29° Ⅱ 57'00	
	7658 Aug 11 20:48	$0^{\circ}\Omega$			7659 Jul 08 09:17	0ಂಣ	
	7658 Aug 31 10:38	0° m y		morning max el	7659 Jul 21 16:48	7° 5 43'10	27°19'22
asc. node	7658 Sep 03 03:58	5° m 23'39			7659 Aug 07 12:15	$0^{\circ}\Omega$	
morning set	7658 Sep 06 05:23	11°M)45'28		asc. node	7659 Aug 21 00:58	25° Ω 13'54	
				morning set	7659 Aug 21 13:47	26° Ω 21′05	
superior conj	7658 Sep 13 03:04	26° m 51'08	1°26'21		7659 Aug 23 06:58	0° ™	
minimum elong	7658 Sep 13 01:02	26° Mp 39'51	1°26'06				
max. Earth dist.	7658 Sep 13 19:59	28° m 24'37	1.31959 AU	superior conj	7659 Aug 28 14:54	11° m)41'14	1°10'52
	7658 Sep 14 13:17	0∘ ⊽		minimum elong	7659 Aug 28 12:38	11°M)28'42	1°10'28
evening rise	7658 Sep 20 01:44	11° ≏ 54'13		max. Earth dist.	7659 Aug 28 06:29	10° m 54'36	1.31704 AU
	7658 Sep 29 08:52	0° M ₊		evening rise	7659 Sep 04 09:33	26° Mp 31'41	
desc. node	7658 Oct 08 04:27	14°M25'18			7659 Sep 06 01:08	0∘ ⊽	
	7658 Oct 20 16:35	0° ∡ ¹			7659 Sep 23 01:08	0° M	
evening max el	7658 Oct 21 12:34	0° ∡ ¹48′08	27°13'08	desc. node	7659 Sep 25 01:31	2° M 47'31	
retrograde	7658 Nov 04 09:24	8° ₹ 00'04		evening max el	7659 Oct 03 13:07	12°M33'39	26°23'33
evening set	7658 Nov 11 10:51	5° ∡ ¹45'17		retrograde	7659 Oct 17 11:13	19°M39'30	
min. Earth dist.	7658 Nov 15 03:19	2° ∡ ¹59'50	0.61313 AU	evening set	7659 Oct 24 02:22	17° M 51'51	
inferior conj	7658 Nov 18 05:01	0° ∡ 18′07	-3°41'58	min. Earth dist.	7659 Oct 28 02:28	15° M ₊17'18	0.59233 AU
minimum elong	7658 Nov 18 11:40	0° ∡ °03′28	3°39'44	inferior conj	7659 Oct 31 07:20	12°M50'31	-4°42'59
	7658 Nov 18 13:15	30°RM		minimum elong	7659 Oct 31 14:13	12°M37'18	4°41'23
morning rise	7658 Nov 25 14:42	25°M22'35		morning rise	7659 Nov 08 04:21	8° ™ 17'09	
direct	7658 Nov 27 20:25	25° M 01'47		direct	7659 Nov 10 10:50	7° M 59′09	
asc. node	7658 Nov 30 03:25	25°M24'26		asc. node	7659 Nov 17 00:25	10°M39'27	
morning max el	7658 Dec 04 22:24	28°M35'37	17°55'04	morning max el	7659 Nov 18 08:22	11°M50'38	18°21'37
	7658 Dec 06 06:14	0° ∡ ¹			7659 Nov 30 10:20	0° ∡ ¹	
morning set	7658 Dec 20 15:01	23° ∡ 14'14		morning set	7659 Dec 04 05:45	7° ∡ 11′25	
	7658 Dec 24 08:07	0°ප					
				superior conj	7659 Dec 13 09:29	24° ₹ 27'46	1°00'59
superior conj	7658 Dec 31 01:55	11° る 59'02		minimum elong	7659 Dec 13 13:00	24° ∡ ⁴43'52	1°00'37
minimum elong	7658 Dec 31 04:22	12° る 09'39	0°29'21		7659 Dec 16 10:53	0°ප	

max. Earth dist.	7659 Dec 20 22:41	7° る 51'38	1.40729 AU	minimum elong	7660 Nov 25 14:02	8° ₹ 02'28	1°22'42
desc. node	7659 Dec 22 00:35	9° 石 42'07	1.40/29 AU	max. Earth dist.	7660 Dec 02 04:23	20° ₹ 22'35	1.38567 AU
evening rise	7659 Dec 25 10:54	15° る 26'07		evening rise	7660 Dec 05 22:58	27°×703'20	1.56507 AC
evening rise	7660 Jan 03 15:39	0°≈		desc. node	7660 Dec 07 21:36	0°る23'25	
	7660 Jan 25 14:28	0°) €		dese. node	7660 Dec 07 16:06	0°ਰ ਹਾਰ	
evening max el	7660 Jan 28 20:05	3°) €28'02	23°26'59		7660 Dec 27 04:28	0° ≈	
retrograde	7660 Feb 08 10:27	9°) (43'46		evening max el	7661 Jan 10 09:18	17°≈13'29	24°45'36
asc. node	7660 Feb 12 23:36	8°) €02'00		retrograde	7661 Jan 22 01:07	24°≈01'18	
evening set	7660 Feb 13 11:29	7°) €38'06		evening set	7661 Jan 27 14:51	21° ≈ 42'01	
inferior conj	7660 Feb 18 21:28	1°) 11'41	1°50'37	asc. node	7661 Jan 29 20:39	19° ≈ 26'38	
minimum elong	7660 Feb 18 19:21	1° ℋ 18'58	1°49'58	min. Earth dist.	7661 Feb 01 04:13	16° ≈ 33'14	0.67831 AU
min. Earth dist.	7660 Feb 18 08:50	1° ¥ 55'02	0.68284 AU	inferior conj	7661 Feb 02 04:12	15° ≈ 13'48	1°04'48
	7660 Feb 19 18:29	30°R≈		minimum elong	7661 Feb 02 02:43	15°≈18'41	1°04'18
morning rise	7660 Feb 24 03:10	25°≈06'17		morning rise	7661 Feb 07 14:48	9° ≈ 15'12	
direct	7660 Feb 28 08:45	23° ≈ 26'14		direct	7661 Feb 11 07:26	7°≈56'59	
morning max el	7660 Mar 07 16:50	28° ≈ 13'32	20°57'40	morning max el	7661 Feb 18 17:18	12°≈06'04	19°47'40
-	7660 Mar 09 09:22	0° ℋ		greatest brilliancy	7661 Mar 03 13:52	28° ≈ 50'43	-0.6m
desc. node	7660 Mar 19 00:04	12° ℋ 18'49			7661 Mar 04 08:42	0° ℋ	
	7660 Mar 31 01:38	$0^{\circ}\mathbf{\Upsilon}$		desc. node	7661 Mar 05 21:01	2° 升 14'33	
morning set	7660 Apr 06 23:45	10° Ƴ 39'20		morning set	7661 Mar 16 20:57	18° ¥ 56'37	
max. Earth dist.	7660 Apr 14 20:14	23° Y 10'52	1.42829 AU		7661 Mar 23 23:45	$0^{\circ}\mathbf{\Upsilon}$	
	7660 Apr 18 23:35	9° 8		max. Earth dist.	7661 Mar 28 07:19	6° Ƴ 48'34	1.44374 AU
	-						
superior conj	7660 Apr 21 20:49	4° 8 51'01	-2°06'50	superior conj	7661 Apr 02 05:28	14° Y 42'09	
minimum elong	7660 Apr 22 00:35	5° 8 07'01	2°06'45	minimum elong	7661 Apr 02 03:33	14° Ƴ 34'21	2°10'39
evening rise	7660 May 03 14:44	25° 8 24'04			7661 Apr 11 12:02	9° 8	
	7660 May 06 04:32	Π $\circ 0$		evening rise	7661 Apr 15 16:48	7° 8 06'01	
asc. node	7660 May 10 22:39	8° Ⅱ 18'50		asc. node	7661 Apr 27 19:42	27° 8 07'56	
evening max el	7660 May 20 07:36	21° Ⅱ 35'10	18°05'51		7661 Apr 29 19:18	Π $^{\circ}0$	
retrograde	7660 May 26 22:17	24° ∏ 58′22		evening max el	7661 May 03 20:51	4° Ⅱ 53'57	18°11'42
evening set	7660 May 29 12:42	24° Ⅱ 26'53		retrograde	7661 May 10 06:12	8° Ⅱ 16'30	
inferior conj	7660 Jun 05 03:13	19° Ⅲ 27'53	2°32'53	evening set	7661 May 13 03:38	7° Ⅱ 32'36	
minimum elong	7660 Jun 05 06:14	19° Ⅱ 20′32	2°32'03	inferior conj	7661 May 19 05:21	2° Ⅱ 14'56	
min. Earth dist.	7660 Jun 08 07:27	16° Ⅱ 24'01	0.61049 AU	minimum elong	7661 May 19 07:20	2° ∏ 09'29	3°08'07
morning rise	7660 Jun 11 21:28	13° Ⅱ 30′34			7661 May 21 06:25	30° ₹ 8	
desc. node	7660 Jun 14 23:31	11° II 55'15		min. Earth dist.	7661 May 21 21:13	29° 8 20'28	0.63206 AU
direct	7660 Jun 18 13:05	11° Ⅱ 17'08		morning rise	7661 May 25 09:37	26° 8 04'28	
morning max el	7660 Jul 02 19:35	19° Ⅱ 15'55	27°52'40	direct	7661 Jun 01 04:20	23° 8 28'12	
	7660 Jul 11 22:00	0°©		desc. node	7661 Jun 01 20:31	23° 8 29'38	
	7660 Jul 30 08:37	0° N			7661 Jun 13 13:57	0°II	25045140
morning set	7660 Aug 04 17:46	10° Ω 41'00		morning max el	7661 Jun 15 03:28	1° Ⅱ 30'48	27°47'48
asc. node	7660 Aug 06 21:57	15° Ω 13'49	1 21000 177		7661 Jul 06 03:09	0°9	
max. Earth dist.	7660 Aug 10 15:43	23° Ω 17'59	1.31899 AU	morning set	7661 Jul 19 15:12	24°939'12	
	7660 4 12 01 25	260 022155	0050142	1	7661 Jul 22 06:08	0° Ω	
superior conj	7660 Aug 12 01:35	26° £ 23'55	0°50'42	asc. node	7661 Jul 24 18:56	5° Ω 19'07	1 22555 444
minimum elong	7660 Aug 11 23:36	26° Ω 12'55	0~50/15	max. Earth dist.	7661 Jul 24 19:44	5 6 623 20	1.32555 AU
	7660 Aug 13 16:47	0°Mp			7((1 I1 27 00.22	100 05 4101	0926120
evening rise	7660 Aug 18 20:14	11°Mp14'17 0°Ω		superior conj	7661 Jul 27 09:22 7661 Jul 27 08:09	10° Ω 54'01 10° Ω 47'26	0°26'20 0°25'59
JJ.	7660 Aug 28 07:33	0 <u>≈</u> 20° ≏ 01'31		minimum elong	7661 Aug 03 07:56	10 δ (47 26 25° Ω 56'34	0 23 39
desc. node	7660 Sep 10 22:34	20 ≗ 01 31 23° £ 27'52	25904!21	evening rise	Č	23 8 (30 34	
evening max el	7660 Sep 14 05:27 7660 Sep 24 15:01	0°M	23 04 21		7661 Aug 05 06:05 7661 Aug 23 04:34	0∘ ऌ ० ाप्र	
ratragrada	7660 Sep 28 02:29	0°M28'08		ovening may al	7661 Aug 26 16:58	0 == 3° £ 47'26	22027140
retrograde	•	0 IIC2000 30°Ŗ Ω		evening max el	•	5° £ 4720	23 21 49
evening set	7660 Oct 01 14:13 7660 Oct 03 18:20	30 K== 29° £ 15'24		desc. node retrograde	7661 Aug 28 19:38 7661 Sep 09 05:51	3 ≗ 41 33 10° £ 34'06	
min. Earth dist.	7660 Oct 08 16:53	29 ⊆ 13 24 26° ⊆ 33'33	0.57244 ATT	•	-	9° £ 55'27	
inferior conj	7660 Oct 11 14:05	26° 2 33°33 24° 2 38'45		evening set min. Earth dist.	7661 Sep 13 10:41 7661 Sep 20 02:43	9° 22 33°27 6° 2 47'47	0.55657 AU
minimum elong	7660 Oct 11 17:46	24° £ 3843		inferior conj	7661 Sep 22 00:48	5° £ 39'38	
morning rise	7660 Oct 19 19:29	24 = 32 30 20° £ 28'31	J 43 TJ	minimum elong	7661 Sep 21 21:36	5° £ 44'23	
direct	7660 Oct 19 19.29 7660 Oct 22 07:15	20° £ 10'35		morning rise	7661 Sep 30 10:43	3 ≗ 44 23 1° £ 46'57	5 2100
morning max el	7660 Oct 31 09:21	20° 2 29'38	19°09'39	direct	7661 Oct 03 08:07	1° £ 4637 1° £ 26'31	
asc. node	7660 Nov 02 21:25	24 ≗ 2938 27° ≗ 11'14	17 07 37	morning max el	7661 Oct 13 22:25	6° £ 23'58	20°10'58
ase. mode	7660 Nov 05 01:27	0°M		asc. node	7661 Oct 20 18:24	0 = 23 38 14° £ 44'41	20 17 20
morning set	7660 Nov 17 05:41	21°M33'24		use. Houc	7661 Oct 29 10:01	0°M	
morning set	7660 Nov 21 11:31	0° × 7		morning set	7661 Nov 01 11:40	6°M11'09	
	, , , , , , , , , , , , , , , , , , , ,	÷ ••				5 He 21 07	
superior conj	7660 Nov 25 11:02	7° ∡ ¹48′03	1°22'54	superior conj	7661 Nov 09 01:43	21°M45'39	1°36'05

minimum elong	7661 Nov 09 03:28	21° M .54'31	1°36'04	asc. node	7662 Oct 07 15:25	3° ≏ 06'07	
minimum ciong	7661 Nov 13 05:24	0° ⊼	1 30 04	morning set	7662 Oct 16 21:25	20° £ 58'35	
max. Earth dist.	7661 Nov 14 10:54	2° ×7 22'15	1.36483 AU	morning see	7662 Oct 21 03:45	0°M	
evening rise	7661 Nov 18 07:20	9° × ⁷ 34'45	1.50 105 110		7002 000 21 05.10	0 110	
desc. node	7661 Nov 24 18:38	20° х 56′30		superior conj	7662 Oct 24 01:40	6°M09'34	1°41'32
	7661 Nov 30 08:08	0°ਰ		minimum elong	7662 Oct 24 02:03	6°M11'35	1°41'36
	7661 Dec 22 22:10	0° ≈		max. Earth dist.	7662 Oct 27 23:48	14°M15'31	1.34686 AU
evening max el	7661 Dec 23 22:13	0°≈59'45	25°56'07	evening rise	7662 Nov 01 08:19	22°M51'13	
retrograde	7662 Jan 05 11:04	8° ≈ 08'41		Ü	7662 Nov 05 04:03	0° √	
evening set	7662 Jan 11 13:30	5°≈38'40		desc. node	7662 Nov 11 15:42	11° √ 16'39	
min. Earth dist.	7662 Jan 15 20:02	1°≈04'24	0.67003 AU		7662 Nov 24 00:55	0°రె	
asc. node	7662 Jan 16 17:41	29° る 56'43		evening max el	7662 Dec 06 11:29	14° පි 41'05	26°51'00
	7662 Jan 16 16:39	30°₹₹		retrograde	7662 Dec 19 15:27	21° る 59'23	
inferior conj	7662 Jan 17 07:21	29° る 13'45	0°11'25	evening set	7662 Dec 26 05:33	19° ට 23'17	
minimum elong	7662 Jan 17 07:03	29° る 14'41	0°11'24	min. Earth dist.	7662 Dec 30 06:03	15° පි 23'31	0.65821 AU
transit middle	7662 Jan 17 07:03	29° る 14'41	0°11'24	inferior conj	7663 Jan 01 04:53	13° る 07'26	-0°48'45
transit begin	7662 Jan 17 05:02	29° る 21'00		minimum elong	7663 Jan 01 06:16	13° る 03'22	0°48'03
transit end	7662 Jan 17 09:03	29° る 08'23		asc. node	7663 Jan 03 14:43	10° ට 26'23	
morning rise	7662 Jan 23 01:10	23° る 23'50		morning rise	7663 Jan 07 08:02	7° ට 28'41	
direct	7662 Jan 26 06:20	22° る 24'43		direct	7663 Jan 10 03:37	6° ප 45'04	
morning max el	7662 Feb 02 01:19	26° පි 07'42	18°52'44	morning max el	7663 Jan 16 15:06	10°る13'08	18°14'13
	7662 Feb 05 11:22	0° ≈			7663 Jan 30 13:54	0° ≈	
desc. node	7662 Feb 20 17:59	22° ≈ 29'40		morning set	7663 Feb 04 16:08	8° ≈ 13'09	
morning set	7662 Feb 24 04:46	27° ≈ 52'23		desc. node	7663 Feb 07 15:00	12° ≈ 58'52	
	7662 Feb 25 13:28	0° ∀			7663 Feb 18 07:39	0° ∀	
max. Earth dist.	7662 Mar 10 23:39	20° ∺ 59'12	1.45282 AU				
				superior conj	7663 Feb 19 21:36	2° ∺ 29'14	-1°20'32
superior conj	7662 Mar 12 16:54	23° ∺ 41'11	-1°54'53	minimum elong	7663 Feb 19 12:37	1° ¥ 53'57	1°19'27
minimum elong	7662 Mar 12 08:35	23°) €08′28	1°54'17	max. Earth dist.	7663 Feb 21 19:00	5° ∺ 27'16	1.45463 AU
	7662 Mar 16 16:57	$0^{\circ}\mathbf{\Upsilon}$		evening rise	7663 Mar 08 00:23	27° ∺ 39'33	
evening rise	7662 Mar 27 19:55	17° Ƴ 49'06			7663 Mar 09 12:23	0 ° $\mathbf{\Upsilon}$	
	7662 Apr 04 08:31	$0^{\circ}S$		greatest brilliancy	7663 Mar 19 14:32	15° Ƴ 37'40	-0.7m
asc. node	7662 Apr 14 16:45	15° 8 21'19			7663 Mar 29 22:00	9° 8	
evening max el	7662 Apr 17 08:56	18° 8 23'37	18°35'53	evening max el	7663 Mar 31 17:33	1° 8 59'04	19°17'15
retrograde	7662 Apr 23 22:03	21° 8 58'35		asc. node	7663 Apr 01 13:48	2° 8 48'21	
evening set	7662 Apr 27 02:39	21° 8 01'01		retrograde	7663 Apr 07 18:30	5° 8 58'11	
inferior conj	7662 May 02 19:25			evening set	7663 Apr 11 06:49	4° 8 46'09	
minimum elong	7662 May 02 20:00	15° 8 24'30			7663 Apr 15 21:57	30° Ŗ ♈	
min. Earth dist.	7662 May 04 20:10		0.65081 AU	inferior conj	7663 Apr 16 17:55		3°23'12
morning rise	7662 May 08 12:35	9° 8 10'08		minimum elong	7663 Apr 16 17:14	28° Y 57'56	3°23'07
direct	7662 May 15 03:30	6° 8 23'07		min. Earth dist.	7663 Apr 18 03:21	27° Y 07′22	0.66560 AU
desc. node	7662 May 19 17:30	7° 8 30'16		morning rise	7663 Apr 22 03:17	22° Y 38′26	
morning max el	7662 May 28 13:34	14° 8 17'31	27°08'43	direct	7663 Apr 28 09:08	19° Y 53'11	
	7662 Jun 10 07:35	0°II		desc. node	7663 May 06 14:31	23°Υ27'15	26002101
	7662 Jun 28 19:40	0°©		morning max el	7663 May 10 23:34	27° Y 24'31	26°03'01
morning set	7662 Jul 03 03:15	8°507'29	1 22600 ATT		7663 May 13 09:59	0° B	
max. Earth dist.	7662 Jul 07 14:46	1/*201728	1.33689 AU		7663 Jun 03 23:45 7663 Jun 16 02:11	0°Ⅱ 20°Ⅲ55105	
aumariar aani	7660 Jul. 11 12:00	2500005124	0901129	morning set		20° Π 55'05	1 25202 AII
superior conj minimum elong	7662 Jul 11 12:09 7662 Jul 11 12:14	25°505'34 25°506'02		max. Earth dist.	7663 Jun 19 22:54 7663 Jun 20 20:50	28° Ⅱ 13'36 0° ©	1.35303 AU
behind sun begin	7662 Jul 11 12:14 7662 Jul 11 06:40	23 \$300 02 24°\$36'43	0 01 42		7003 Juli 20 20.30	0 39	
behind sun end	7662 Jul 11 17:48	24 \$3043 25°\$35'23		superior conj	7663 Jun 25 07:25	8°951'02	0.33108
asc. node	7662 Jul 11 16:00	25°925'50		minimum elong	7663 Jun 25 09:17	9°900'28	
asc. Houc	7662 Jul 13 19:43	23 3 23 30		asc. node	7663 Jun 28 12:59	15° © 29'01	0 31 32
evening rise	7662 Jul 18 18:43	10° Ω 32'46		evening rise	7663 Jul 03 02:34	24°956'26	
evening rise	7662 Jul 28 20:25	0° Mp		evening rise	7663 Jul 05 14:13	0°Ω	
evening max el	7662 Aug 08 07:58	14° Mp 06'11	21°50'36	evening max el	7663 Jul 21 09:46	24° Ω 54'07	20°25'52
desc. node	7662 Aug 15 16:41	14 mg 00 11 19° Mg 16'11	21 50 50	evening max or	7663 Jul 29 15:40	0°m)	20 23 32
retrograde	7662 Aug 20 21:45	20° Mp 20'33		retrograde	7663 Aug 01 09:58	0°Mp20'01	
evening set	7662 Aug 23 16:20	20° mp 03'18		desc. node	7663 Aug 02 13:45	0° Mp 16'38	
inferior conj	7662 Sep 01 20:50	16° Mp 02'58	-4°37'08	evening set	7663 Aug 02 13.43 7663 Aug 03 09:53	0° Mp 10'04	
minimum elong	7662 Sep 01 11:53	16° Mp 15'30		evening set	7663 Aug 04 06:22	0 11/10 04 30°RΩ	
min. Earth dist.	7662 Sep 01 11:40	16° Mp 15'48		inferior conj	7663 Aug 12 14:15	26° Ω 12'48	-2°58'42
morning rise	7662 Sep 10 08:43	10 mg 13 48 12° mg 13'29	0.5477 T AU	minimum elong	7663 Aug 12 06:14	26° Ω 24'25	
direct	7662 Sep 13 19:19	12 mp 13 29 11° mp 47'26		min. Earth dist.	7663 Aug 13 21:45		0.54861 AU
morning max el	7662 Sep 25 22:49	17° Mp 30'46	21°50'41	morning rise	7663 Aug 21 01:52	23° Ω 06'47	0.57001 AU
morning max ci	7662 Oct 05 18:25	0° ⊽	21 50 71	direct	7663 Aug 25 04:59	22 δ 00047 21° Ω 30'07	
	,002 001 03 10.23	· –		direct	,005 11ug 25 04.59	21 0 6 3 0 0 /	

morning max el	7663 Sep 07 13:55	27° Ω 59'00	23°34'37	direct	7664 Aug 05 00:17	1° Ω 07'05	
	7663 Sep 09 14:21	0° m		morning max el	7664 Aug 19 02:42	8° Ω 14'34	25°17'51
asc. node	7663 Sep 24 12:26	22° Mp 03'05			7664 Sep 04 05:26	0° m y	
	7663 Sep 28 13:52	0∘ 亚		asc. node	7664 Sep 10 09:28	11° m 26'33	
morning set	7663 Oct 01 08:57	5° ≙ 49'09		morning set	7664 Sep 14 20:33	20° Mp 38'04	
					7664 Sep 19 04:06	0∘ ⊽	
superior conj	7663 Oct 08 07:47	20° ≏ 49'44	1°40'14				
minimum elong	7663 Oct 08 06:57	20° ≙ 45'17	1°40'15	superior conj	7664 Sep 21 17:40	5° ഫ 38'55	1°32'59
max. Earth dist.	7663 Oct 10 21:15	26° ≏ 18'49	1.33282 AU	minimum elong	7664 Sep 21 15:58	5° ഫ 29'32	1°32'50
	7663 Oct 12 15:19	0° M		max. Earth dist.	7664 Sep 23 02:08	8° 쇼 36'55	1.32316 AU
evening rise	7663 Oct 15 21:52	6°M41'09		evening rise	7664 Sep 28 20:36	20° ≏ 55'37	
	7663 Oct 28 17:50	0° ∡ ¹			7664 Oct 03 09:36	0°M	
desc. node	7663 Oct 29 12:45	1° ∡ 16'48		desc. node	7664 Oct 15 09:47	20°M48'38	
evening max el	7663 Nov 19 00:06	28° ₰ 05'54	27°23'07		7664 Oct 21 19:27	0° ∡	
	7663 Nov 21 02:45	0° ප		evening max el	7664 Oct 31 09:54	11° ₰ 00'58	27°26'08
retrograde	7663 Dec 02 13:27	5° る 24'47		retrograde	7664 Nov 14 04:34	18° ₰ 16'05	
evening set	7663 Dec 09 12:35	2° る 49'18		evening set	7664 Nov 21 07:34	15° ∡ 50′17	
	7663 Dec 12 17:13	30°Ŗ ⋌ 7		min. Earth dist.	7664 Nov 24 23:38	12° ≯ 52'44	0.62469 AU
min. Earth dist.	7663 Dec 13 07:51	29° ∡ 22'54		inferior conj	7664 Nov 27 20:47	10° ₰ 09'45	
inferior conj	7663 Dec 15 18:19	26° ∡ ¹48'27		minimum elong	7664 Nov 28 02:28	9° ₹ 56'19	3°00'54
minimum elong	7663 Dec 15 21:50	26° ∡ ³39'11	1°52'55	morning rise	7664 Dec 04 23:22	5° ∡ 02'59	
asc. node	7663 Dec 21 11:47	21° ∡ ¹49'21 −		direct	7664 Dec 07 06:35	4° ∡ ³39'07 -	
morning rise	7663 Dec 22 08:37	21° ∡ °24′00		asc. node	7664 Dec 07 08:51	4° ₹ 39'09 -	
direct	7663 Dec 24 20:46	20° ₹ 52'04		morning max el	7664 Dec 14 00:53	8° ∡ 106′17	17°48'56
morning max el	7663 Dec 31 07:59	24° ∡ 15′09	17°52'44		7664 Dec 28 09:06	0° ろ	
	7664 Jan 05 00:29	0°る		morning set	7664 Dec 29 23:15	2° る 49'19	
morning set	7664 Jan 17 08:15	19° る 58'35			T.(.T.Y. 10.00.07	222	0007100
	7664 Jan 23 07:30	0° ≈		superior conj	7665 Jan 10 08:27	22° る 37'57	0°07'28
desc. node	7664 Jan 25 12:01	3° ≈ 37'19		minimum elong	7665 Jan 10 09:11	22°る41'02	0°07'27
	ECC1 X 20 11 52	110 55150	000 (11 (behind sun begin	7665 Jan 10 01:12	22°る07'21	
superior conj	7664 Jan 30 14:53	11°≈57'58		behind sun end	7665 Jan 10 17:09	23°る14'38	
minimum elong	7664 Jan 30 10:43	11°≈41'10	0°35'35	desc. node	7665 Jan 11 08:59	24° る 21'04	
max. Earth dist.	7664 Feb 04 14:34	19°≈55'44	1.44897 AU	E 41 E 4	7665 Jan 14 18:47	0°≈	1 42656 ATT
	7664 Feb 11 00:54 7664 Feb 15 13:48	0° ∺ 7° ∺ 00'11		max. Earth dist.	7665 Jan 17 07:08	4°≈05'34	1.43656 AU
evening rise greatest brilliancy	7664 Mar 01 04:34	29° H 01'01	-0.6m	evening rise	7665 Jan 25 02:20 7665 Feb 03 00:31	16° ≈ 26'03 0°) €	
greatest orimancy	7664 Mar 01 20:45	29 χ 0101 0° Υ	-0.0111	evening max el	7665 Feb 24 19:06	0 X 29° ¥ 14'59	21°23'22
evening max el	7664 Mar 13 21:09	0 1 15° Υ 36'49	20°14'02	evening max er	7665 Feb 25 13:16	29 π 1439	21 23 22
asc. node	7664 Mar 18 10:52	13 γ 3049 19° γ 15'48	20 14 02	asc. node	7665 Mar 05 07:56	4° Υ 28'03	
retrograde	7664 Mar 21 16:52	20° Υ 09'56		retrograde	7665 Mar 05 15:05	4°Υ28'31	
evening set	7664 Mar 25 13:51	18° Υ 42'57		evening set	7665 Mar 09 21:54	2° Υ 46'24	
inferior conj	7664 Mar 30 22:02	12° Υ 38'41	3°10'02	evening set	7665 Mar 12 14:34	30° Ŗ ₩	
minimum elong	7664 Mar 30 20:24	12° Υ 44'13	3°09'46	inferior conj	7665 Mar 15 05:22	26°) 30'46	2°46'20
min. Earth dist.	7664 Mar 31 17:07	11° Υ 33'53	0.67593 AU	minimum elong	7665 Mar 15 03:12	26° H 38'18	
morning rise	7664 Apr 05 02:44	6°Υ22'43	0.07075110	min. Earth dist.	7665 Mar 15 11:23	26° \ 09'53	0.68185 AU
direct	7664 Apr 10 20:11	3° Y 49′22		morning rise	7665 Mar 20 08:21	20°) 17'42	***************************************
desc. node	7664 Apr 22 11:33	10° Y 50'17		direct	7665 Mar 25 11:53	18°) €02'51	
morning max el	7664 Apr 22 08:46	10° Ƴ 43'15	24°40'25	morning max el	7665 Apr 04 18:19	24°)(08'43	23°10'53
C	7664 May 07 16:43	0°8		desc. node	7665 Apr 09 08:31	29° ℋ 14'48	
	7664 May 26 16:26	Π°			7665 Apr 09 23:29	0° Y	
morning set	7664 May 28 07:17	2° Ⅱ 49'39			7665 May 01 02:55	0°8	
max. Earth dist.	7664 May 31 22:12	9° Ⅱ 19′20	1.37314 AU	morning set	7665 May 09 12:47	13° 8 35'51	
	•			max. Earth dist.	7665 May 13 18:12	20° 8 47'17	1.39536 AU
superior conj	7664 Jun 07 16:04	22° I 102'38	-1°03'35		7665 May 18 23:02	$\Pi^{\circ}0$	
minimum elong	7664 Jun 07 19:54	22° Ⅱ 21'19	1°03'03				
-	7664 Jun 11 16:58	0ංම		superior conj	7665 May 21 10:03	4° Ⅱ 29'49	-1°33'24
asc. node	7664 Jun 14 10:01	5° 5 25'27		minimum elong	7665 May 21 15:28	4° ∏ 54'49	1°32'49
evening rise	7664 Jun 16 05:07	9° 5 01'03		evening rise	7665 May 30 23:17	22° Ⅱ 37'51	
	7664 Jun 27 19:52	$0^{\circ}\Omega$		asc. node	7665 Jun 01 07:02	25° Ⅱ 10′04	
evening max el	7664 Jul 03 00:37	6° Ω 25'34	19°20'18		7665 Jun 03 20:18	0 \circ \odot	
retrograde	7664 Jul 12 07:59	11° Ω 00'59		evening max el	7665 Jun 16 02:24	18° © 38'29	18°35'34
evening set	7664 Jul 14 05:13	10° Ω 50′29		retrograde	7665 Jun 23 23:49	22° © 33'34	
desc. node	7664 Jul 19 10:48	8° Ω 47'21		evening set	7665 Jun 26 02:26	22° © 17'41	
inferior conj	7664 Jul 22 19:28	6° Ω 42'06		inferior conj	7665 Jul 03 21:02	17° © 50'53	0°43'21
minimum elong	7664 Jul 22 16:44	6° Ω 46'36		minimum elong	7665 Jul 03 22:36	17° 5 47'53	0°42'41
min. Earth dist.	7664 Jul 25 10:48	4° Ω 58'40	0.55861 AU	desc. node	7665 Jul 06 07:51	15° © 57'53	
morning rise	7664 Jul 31 01:31	2° Ω 02'46		min. Earth dist.	7665 Jul 07 04:35	15° © 19'22	0.57599 AU

	#//FX 1 11 15 16 16	10000 1100			T(((X) 00 00 00	220H 5511 6	
morning rise	7665 Jul 11 15:16	12° © 34'33		morning rise	7666 Jun 22 23:07	23° Ⅱ 57'16	
direct	7665 Jul 17 10:08	11° © 10'16		desc. node	7666 Jun 23 04:53	23° Ⅱ 48'49	
morning max el	7665 Jul 31 19:15	18° © 46'09	26°43'33	direct	7666 Jun 29 09:32	22° Ⅱ 00′29	
	7665 Aug 10 06:19	$0 {\circ} \Omega$			7666 Jul 13 20:39	0	
	7665 Aug 27 17:02	0° m)		morning max el	7666 Jul 13 18:08	29° ∏ 53'47	27°38'05
asc. node	7665 Aug 28 06:28	1° m 08'48			7666 Aug 04 06:37	$0^{\circ}\Omega$	
morning set	7665 Aug 30 06:36	5° Mp 20'11		morning set	7666 Aug 14 13:20	19° Ω 50′00	
C	C	•		asc. node	7666 Aug 15 03:26	21° Ω 03'50	
superior conj	7665 Sep 06 05:19	20° m 30'38	1°20'22		7666 Aug 19 07:04	0° m)	
minimum elong	7665 Sep 06 03:08	20° mp 18'30	1°20'03	max. Earth dist.	7666 Aug 20 21:40	3° Mp 32'26	1.31728 AU
max. Earth dist.	7665 Sep 06 11:26	21° Mp 04'33	1.31794 AU	max. Larm dist.	7000 Aug 20 21.40	3 HJ 32 20	1.51720 AC
max. Earm uist.	•		1.31/94 AU		7((()) - 21 1(.52	50 m 10140	1902/51
	7665 Sep 10 12:47	0∘ ʊ		superior conj	7666 Aug 21 16:53	5° m 18'40	1°02'51
evening rise	7665 Sep 13 01:46	5° ≏ 26'41		minimum elong	7666 Aug 21 14:41	5° Mp 06'27	1°02'26
	7665 Sep 26 00:36	0° M		evening rise	7666 Aug 28 11:02	20° m 07'15	
desc. node	7665 Oct 02 06:50	9° ™ 40'56			7666 Sep 02 05:55	0∘ ऌ	
evening max el	7665 Oct 13 14:22	23° ™ 14'18	26°56'00	desc. node	7666 Sep 19 03:54	27° ≏ 37'16	
	7665 Oct 24 09:19	0° ∡ 7			7666 Sep 21 02:46	0° M ₊	
retrograde	7665 Oct 27 12:02	0° ∡ ¹24'23		evening max el	7666 Sep 25 11:25	4°MJ37'55	25°52'59
	7665 Oct 30 13:21	30°RM₀		retrograde	7666 Oct 09 10:02	11°ML42'08	
evening set	7665 Nov 03 10:35	28° ™ 19'31		evening set	7666 Oct 15 16:37	10°ML08'58	
min. Earth dist.	7665 Nov 07 04:44	25°M40'51	0.60428 AU	min. Earth dist.	7666 Oct 20 00:06	7°M33'24	0.58353 AU
inferior conj	7665 Nov 10 08:56	23°M03'05		inferior conj	7666 Oct 23 03:15	5°M18'07	
				,			
minimum elong	7665 Nov 10 15:59	22°M48'25	4°07'17	minimum elong	7666 Oct 23 09:18	5°ML07'11	5°02'49
morning rise	7665 Nov 17 23:44	18° ™ 17'06		morning rise	7666 Oct 31 04:18	0°M54'39	
direct	7665 Nov 20 05:10	17° M 57'58		direct	7666 Nov 02 12:15	0° M 37′08	
asc. node	7665 Nov 24 05:54	19° ™ 03'50		morning max el	7666 Nov 10 21:09	4°M39'35	18°39'19
morning max el	7665 Nov 27 14:31	21°M38'06	18°03'55	asc. node	7666 Nov 11 02:54	4°M53'38	
	7665 Dec 04 00:03	0° ∡ 7			7666 Nov 26 18:31	0° ⊼ ¹	
morning set	7665 Dec 13 06:51	16° ∡ ¹26'58		morning set	7666 Nov 27 01:58	0° ∡ ³36′07	
	7665 Dec 20 14:59	გ∘ე					
				superior conj	7666 Dec 05 19:13	17° ∡ ¹23'32	1°11'23
superior conj	7665 Dec 23 03:22	4° る 31'01	0°44'04	minimum elong	7666 Dec 05 22:39	17° х 39'36	1°11'06
minimum elong	7665 Dec 23 06:31	4°る45'03	0°43'43	minimum crong	7666 Dec 12 17:42	0°ਰ	1 11 00
desc. node	7665 Dec 29 05:58	15° る 07'01	0 43 43	max. Earth dist.	7666 Dec 13 01:42	0°る35'07	1.39814 AU
		13 3 07 01	1 41002 ATT			5° る 51'03	1.39014 AU
max. Earth dist.	7665 Dec 30 18:40		1.41892 AU	desc. node	7666 Dec 16 02:58		
evening rise	7666 Jan 05 04:30	26° පි 32'31		evening rise	7666 Dec 17 03:53	7° る 36'20	
	7666 Jan 07 08:41	0° ≈			7666 Dec 31 09:18	0° ≈	
	7666 Jan 27 19:07	0° ℋ		evening max el	7667 Jan 21 02:32	26° ≈ 39'22	24°01'03
evening max el	7666 Feb 07 12:18	12°) 55′26	22°40'55		7667 Jan 24 20:36	0° ℋ	
retrograde	7666 Feb 17 11:22	18° ¥ 50′08		retrograde	7667 Feb 01 04:19	3° 米 09′59	
asc. node	7666 Feb 20 05:00	18° 升 12′12		evening set	7667 Feb 06 10:34	0° ∺ 58'35	
evening set	7666 Feb 22 05:19	16°) 53′03		asc. node	7667 Feb 07 02:04	0°) 23′42	
inferior conj	7666 Feb 27 13:56	10° ¥ 29′23	2°13'27		7667 Feb 07 11:44	30°R≈	
minimum elong	7666 Feb 27 11:40	10° ¥ 37'16	2°12'48	min. Earth dist.	7667 Feb 11 04:27	25° ≈ 29'48	0.68136 AU
min. Earth dist.	7666 Feb 27 07:57	10°) 50′08	0.68359 AU	inferior conj	7667 Feb 11 21:50	24° ≈ 30'50	1°32'10
morning rise	7666 Mar 04 17:53	4° ¥ 20'31	0.00507110	minimum elong	7667 Feb 11 19:56	24°≈37'18	1°31'32
direct	7666 Mar 09 07:17	2° H 27'30		morning rise	7667 Feb 17 05:19	18°≈27'52	1 31 32
morning max el	7666 Mar 18 07:19	7°) 42'20	21942142	direct	7667 Feb 21 05:16	16°≈57'09	
desc. node			21 43 43			10 ≈3709 21°≈26'56	20°26'05
desc. node	7666 Mar 27 05:29	18° ¥ 23'56		morning max el	7667 Mar 01 03:00		20-26-05
	7666 Apr 04 11:57	0° Υ			7667 Mar 08 07:10	0° ∀	
morning set	7666 Apr 19 14:35	23° Y '04'32		desc. node	7667 Mar 14 02:27	8° ¥ 05′03	
	7666 Apr 23 21:21	8° 0			7667 Mar 28 17:22	0° Υ	
max. Earth dist.	7666 Apr 25 17:35	3° 8 02'24	1.41709 AU	morning set	7667 Mar 29 17:00	1° Ƴ 31'22	
				max. Earth dist.	7667 Apr 08 00:26	16° Ƴ 12'37	1.43554 AU
superior conj	7666 May 03 08:47	16° 8 02'26	-1°57'35				
minimum elong	7666 May 03 14:05	16° 8 25'36	1°57'16	superior conj	7667 Apr 14 07:54	26° Ƴ 31'16	-2°10'37
•	7666 May 11 03:47	$\Pi^{\circ}0$		minimum elong	7667 Apr 14 09:41	26° Ƴ 38'40	2°10'38
evening rise	7666 May 14 05:23	5° Ⅱ 37'40		S	7667 Apr 16 09:56	0°B	
asc. node	7666 May 19 04:03	14° ∏ 38'04		evening rise	7667 Apr 26 18:58	17° 8 50'19	
aso. node	7666 May 29 03:36	0°95		5,5mmg 1150	7667 May 03 19:12	0°Ⅱ	
avaning may al	7666 May 30 11:30	0 3 1° 9 24'44	18°11'08	asc. node	7667 May 06 01:05	3° Ⅱ 43'30	
evening max el	•		10 11 00				10007110
retrograde	7666 Jun 06 10:02	4°954'47		evening max el	7667 May 14 00:15	14° Ⅱ 34'33	18°06'10
evening set	7666 Jun 08 20:12	4°529'46	2001102	retrograde	7667 May 20 11:18	17° Ⅱ 55'24	
inferior conj	7666 Jun 15 20:01	29° ∏ 42'38	2°01'03	evening set	7667 May 23 04:50	17° Ⅱ 18'43	
minimum elong	7666 Jun 15 23:07	29° ∏ 35'40	2°00'01	inferior conj	7667 May 29 13:25	12° Ⅱ 11'46	2°50'47
	7666 Jun 15 12:14	30°RⅡ		minimum elong	7667 May 29 16:05	12° Ⅱ 04'55	2°50'08
min. Earth dist.	7666 Jun 19 04:46	26° Ⅱ 43'20	0.59757 AU	min. Earth dist.	7667 Jun 01 13:02	9° Ⅱ 09'19	0.61991 AU

morning rise	7667 Jun 05 01:27	6° Ⅱ 08'06		morning rise	7668 May 17 20:14	18° 8 56'12	
desc. node	7667 Jun 10 01:53	3° Ⅱ 52'48		direct	7668 May 24 14:04	16° 8 14'07	
direct	7667 Jun 11 19:33	3° Ⅱ 43'30		desc. node	7668 May 26 22:55	16° 8 31'58	
morning max el	7667 Jun 25 23:09	11° Ⅱ 44'44	27°55'08	morning max el	7668 Jun 07 08:14	24° 8 14'00	27°35'08
	7667 Jul 10 08:46	0° ©			7668 Jun 12 12:45	Π $^{\circ}0$	
	7667 Jul 27 14:46	$0^{\circ}\Omega$			7668 Jul 02 18:15	0°ಅ	
morning set	7667 Jul 29 14:52	4° Ω 02'06		morning set	7668 Jul 12 08:40	17° © 48'24	
asc. node	7667 Aug 02 00:24	11° Ω 06'58		max. Earth dist.	7668 Jul 17 05:57	27° © 45'27	1.32982 AU
max. Earth dist.	7667 Aug 04 05:09	15° £ 50′03	1.32121 AU		7668 Jul 18 07:34	0° Ω	
	, , , , , , , , , , , , , , , , , , , ,			asc. node	7668 Jul 18 21:23	1° Ω 13'06	
superior conj	7667 Aug 06 02:38	19° Ω 57'38	0°40'52	use. House	7000 041 10 21.25	1 0013 00	
minimum elong	7667 Aug 06 00:54	19° Ω 48'09	0°40'27	superior conj	7668 Jul 20 08:32	4° Ω 20'29	0°14'54
minimum clong	7667 Aug 10 16:31	0°m	0 4027	minimum elong	7668 Jul 20 07:49	4°Ω16'35	0°14'39
evening rise	7667 Aug 12 22:26	4° Mp 51'25		behind sun begin	7668 Jul 20 05:38	4°Ω04'54	0 1437
evening rise	7667 Aug 26 04:44	0∘ ⊽		behind sun end	7668 Jul 20 10:00	4°Ω28'17	
daga mada	•	0 == 14° £ 15'45			7668 Jul 27 09:59	19° Ω 32'00	
desc. node	7667 Sep 06 00:58		24924122	evening rise			
evening max el	7667 Sep 07 01:19	15° £ 16'03	24°24'33		7668 Aug 01 12:26	0° Mp	22045125
retrograde	7667 Sep 20 20:06	22° £ 11'18		evening max el	7668 Aug 18 13:08	25° m 30'27	22°45'35
evening set	7667 Sep 25 22:00	21° ≙ 14'09		desc. node	7668 Aug 22 22:02	29° m 06'43	
min. Earth dist.	7667 Oct 01 12:16	18° ≙ 23'17	0.56507 AU		7668 Aug 24 08:32	0∘ ত	
inferior conj	7667 Oct 04 01:25	16° ≏ 47'12		retrograde	7668 Aug 31 17:45	2° ≏ 05'39	
minimum elong	7667 Oct 04 02:29	16° ≏ 45'31	5°31'10	evening set	7668 Sep 04 07:19	1° ≏ 37'48	
morning rise	7667 Oct 12 09:07	12° ≏ 45'08			7668 Sep 08 14:25	30°R, Mp	
direct	7667 Oct 15 00:36	12° ≏ 26′20		min. Earth dist.	7668 Sep 11 20:57	28° Mp 15'05	0.55195 AU
morning max el	7667 Oct 24 17:18	17° ≏ 00'39	19°36'44	inferior conj	7668 Sep 13 04:46	27° m 29'39	-5°12'48
asc. node	7667 Oct 28 23:54	21° ≏ 53'50		minimum elong	7668 Sep 12 22:32	27° m 38′34	5°11'56
	7667 Nov 03 06:16	0°M₊		morning rise	7668 Sep 21 15:47	23°M/40'52	
morning set	7667 Nov 11 04:52	15°ML06'18		direct	7668 Sep 24 18:40	23° Mp 18'24	
	7667 Nov 18 14:30	0° ∡ ¹		morning max el	7668 Oct 06 00:46	28° m 34'02	20°56'18
					7668 Oct 07 11:28	0∘ ত	
superior conj	7667 Nov 19 02:56	1° √ 01'21	1°29'29	asc. node	7668 Oct 14 20:54	9° ≏ 49'01	
minimum elong	7667 Nov 19 05:26	1° √ 13'44	1°29'23	morning set	7668 Oct 25 12:44	29° £ 49'06	
max. Earth dist.	7667 Nov 25 07:27	12° ⊀ 751'56	1.37668 AU	Č	7668 Oct 25 14:51	0°M	
evening rise	7667 Nov 29 01:06	19° ∡ ³38'09					
desc. node	7667 Dec 03 00:00	26° ₹ ¹29'30		superior conj	7668 Nov 01 21:59	15° M 11'24	1°39'16
	7667 Dec 05 02:18	0°る		minimum elong	7668 Nov 01 23:09	15°M17'24	1°39'18
	7667 Dec 25 12:25	0° ≈		max. Earth dist.	7668 Nov 06 16:28	24°M47'20	1.35681 AU
evening max el	7668 Jan 03 15:41	10° ≈ 26'17	25°17'02	man. Darm disc.	7668 Nov 09 09:14	0°×7	1.50001110
retrograde	7668 Jan 15 16:53	17°≈23'38	23 17 02	evening rise	7668 Nov 10 17:01	2° ∡ 129'42	
evening set	7668 Jan 21 12:07	14°≈59'32		desc. node	7668 Nov 18 21:03	16° х 57'44	
asc. node	7668 Jan 24 23:08	11°≈19'24		desc. node	7668 Nov 27 02:14	10 × 37 サイ	
min. Earth dist.	7668 Jan 25 22:35	11 ≈1924 10°≈05'23	0.67531 AU	evening max el	7668 Dec 16 04:46	24° ප 11'30	26921142
	7668 Jan 27 03:17	8°≈32'20	0.07331 AU 0°43'03	evening max er	7668 Dec 23 19:25	24 O11 30 0°≈	20 21 43
inferior conj	7668 Jan 27 02:15					0 ≈ 1°≈25'15	
minimum elong		8°≈35'42	0°42'42	retrograde	7668 Dec 29 00:27		
morning rise	7668 Feb 01 16:41	2°≈37'06			7669 Jan 02 18:15	30°Rる	
direct	7668 Feb 05 04:20	1°≈27'13	10022110	evening set	7669 Jan 04 08:14	28°る51'46	0.66540.441
morning max el	7668 Feb 12 06:44	5°≈23'18	19°22'18	min. Earth dist.	7669 Jan 08 12:05	24°る32'31	0.66549 AU
greatest brilliancy	7668 Feb 25 07:03	22°≈36'42	-0.7m	inferior conj	7669 Jan 10 04:20	22°る30'12	
desc. node	7668 Feb 28 23:25	28°≈09'40		minimum elong	7669 Jan 10 04:41	22°る29'07	
	7668 Mar 01 04:24	0° ∀		transit middle	7669 Jan 10 04:41	22° る 29'07	0°13'05
morning set	7668 Mar 07 15:41	9° ¥ 56'12		transit begin	7669 Jan 10 03:01	22° る 34'14	
max. Earth dist.	7668 Mar 20 14:28	0° Y 07'43	1.44849 AU	transit end	7669 Jan 10 06:22	22° る 24'01	
	7668 Mar 20 12:31	$0^{\circ}\mathbf{\Upsilon}$		asc. node	7669 Jan 10 20:12	21° る 42'12	
				morning rise	7669 Jan 16 01:54	16° る 44'59	
superior conj	7668 Mar 24 06:25	5° Y 56'32		direct	7669 Jan 19 02:48	15° る 52'53	
minimum elong	7668 Mar 24 01:27	5° Ƴ 36'44	2°06'18	morning max el	7669 Jan 25 17:36	19° る 27'50	18°34'20
evening rise	7668 Apr 07 11:31	29° Ƴ 07'00			7669 Feb 02 22:21	0° ≈	
	7668 Apr 08 00:15	9° 8		desc. node	7669 Feb 14 20:25	18° ≈ 31'31	
asc. node	7668 Apr 21 22:09	22° 8 18'22		morning set	7669 Feb 15 10:15	19° ≈ 26′11	
evening max el	7668 Apr 26 13:20	27° 8 58'32	18°19'52		7669 Feb 22 03:01	0°) €	
	7668 Apr 28 22:46	$\Pi^{\circ}0$					
retrograde	7668 May 02 23:05	1° Ⅱ 24'40		superior conj	7669 Mar 03 12:38	14°)(44'19	-1°42'12
evening set	7668 May 05 23:38	0° Ⅱ 34'53		minimum elong	7669 Mar 03 03:07	14°) €07'03	
Č	7668 May 06 22:12	30° ₹ 8		max. Earth dist.	7669 Mar 03 08:55		1.45449 AU
inferior conj	7668 May 11 21:04	25° 8 09'34	3°17'11		7669 Mar 13 05:43	$0^{\circ}\Upsilon$	
minimum elong	7668 May 11 22:27	25° 8 05'34		evening rise	7669 Mar 19 04:42	9° Υ 26'43	
min. Earth dist.	7668 May 14 06:32		0.64044 AU	greatest brilliancy	7669 Mar 27 19:48	23° Υ 09'09	-0.8m
		02020		oy			

	7660 4 01 06 10				7/70 F 1 27 01 21	1001/00126	
	7669 Apr 01 06:10	0° 8		evening rise	7670 Feb 27 01:21	19°) €00'26	
asc. node	7669 Apr 08 19:13	10° 8 13'34			7670 Mar 06 04:44	0° Υ	
evening max el	7669 Apr 10 00:08	11° 8 30'51	18°51'25	greatest brilliancy	7670 Mar 12 12:25	9° Ƴ 33'44	-0.7m
retrograde	7669 Apr 16 17:24	15° 8 15'03		evening max el	7670 Mar 24 06:40	25° Y 07′00	19°39'38
evening set	7669 Apr 20 01:10	14° 8 11'21		asc. node	7670 Mar 26 16:19	27° Y 16′53	
inferior conj	7669 Apr 25 15:07	8° 8 29'25	3°25'15	retrograde	7670 Mar 31 15:02	29° Y ′20'00	
minimum elong	7669 Apr 25 15:08	8° 8 29'23	3°25'11	evening set	7670 Apr 04 06:47	28° Ƴ 01'50	
min. Earth dist.	7669 Apr 27 09:12	6° 8 18'05	0.65756 AU	inferior conj	7670 Apr 09 16:21	22° Y 05'10	3°19'00
morning rise	7669 May 01 04:34	2° 8 12'15		minimum elong	7670 Apr 09 15:13	22° Y ′08'56	3°18'51
	7669 May 04 15:31	30°RY		min. Earth dist.	7670 Apr 10 19:33	20° Y '34'52	0.67051 AU
direct	7669 May 07 15:57	29° Y 24'51		morning rise	7670 Apr 14 23:20	15° Υ 47'55	0.07031710
uncet	7669 May 10 21:00	0° 8		direct	7670 Apr 21 00:07	13° Υ 06'34	
4 4-	•	_			•	13 γ 00 34 18° γ 02'30	
desc. node	7669 May 13 19:56	1° 8 25'57	0.00.4010.00	desc. node	7670 Apr 30 16:57		25020110
morning max el	7669 May 20 18:47	7° 8 11'31	26°43'37	morning max el	7670 May 03 04:32	20° Y ′24'34	25°29'18
	7669 Jun 07 10:07	0° I I			7670 May 11 10:10	0°8	
	7669 Jun 25 02:52	$0 {\circ} \mathfrak{S}$			7670 May 31 14:02	Π °0	
morning set	7669 Jun 25 15:39	1° © 00'32		morning set	7670 Jun 08 07:39	13° Ⅲ 27′07	
max. Earth dist.	7669 Jun 29 20:41	9° © 12'22	1.34319 AU	max. Earth dist.	7670 Jun 12 00:13	20° Ⅱ 16'38	1.36111 AU
					7670 Jun 17 00:52	0°€	
superior conj	7669 Jul 04 08:26	18° © 21'13	-0°14'19				
minimum elong	7669 Jul 04 09:13	18° © 25'20	0°14'16	superior conj	7670 Jun 17 23:34	1° 9 52'48	-0°45'30
behind sun begin	7669 Jul 04 06:33	18° © 11'28		minimum elong	7670 Jun 18 02:16	2°506'16	0°45'06
behind sun end	7669 Jul 04 11:54	18° © 39'14		asc. node	7670 Jun 22 15:27	11° © 19'03	
asc. node	7669 Jul 05 18:25	21° © 18'27		evening rise	7670 Jun 26 01:40	18° © 19'08	
	7669 Jul 09 21:25	0°N		8	7670 Jul 02 00:18	$0^{\circ}\Omega$	
evening rise	7669 Jul 11 19:47	4° Ω 03'19		evening max el	7670 Jul 13 15:16	17° Ω 03'21	19°55'33
evening rise	7669 Jul 26 06:30	0°m/		retrograde	7670 Jul 23 22:06	22° Ω 07'13	17 55 55
evening max el	7669 Jul 31 07:51	5° m ₂ 57'31	21012125	evening set	7670 Jul 25 19:04	$21^{\circ}\Omega57'52$	
•			21 12 23	desc. node	7670 Jul 27 16:09	$21^{\circ} \Omega 30'54$	
desc. node	7669 Aug 09 19:06	11° Mp 38'02					200011.4
retrograde	7669 Aug 12 07:09	11° m 53'18		inferior conj	7670 Aug 03 18:45	17° Ω 57'37	
evening set	7669 Aug 14 15:24	11° Mp 40'31	2050156	minimum elong	7670 Aug 03 12:48	18° Ω 06'39	2°07'06
inferior conj	7669 Aug 23 21:49	7° Mp 42'51		min. Earth dist.	7670 Aug 05 17:37	16° Ω 46'33	0.55170 AU
minimum elong	7669 Aug 23 12:24		3°57'18	morning rise	7670 Aug 12 04:42	13° Ω 38′25	
min. Earth dist.	7669 Aug 24 06:04	7° m ,31′15	0.54701 AU	direct	7670 Aug 16 15:45	12° Ω 54'46	
morning rise	7669 Sep 01 10:03	3° ™ 48'59		morning max el	7670 Aug 30 09:58	19° Ω 42'14	24°19'37
direct	7669 Sep 05 02:58	3° Mp 19′27			7670 Sep 08 02:44	0° m)	
morning max el	7669 Sep 17 20:40	9° ™ 22'32	22°34'01	asc. node	7670 Sep 18 14:55	17° m 35'46	
asc. node	7669 Oct 01 17:55	28° Mp 26′30		morning set	7670 Sep 24 11:12	29° m 29'06	
	7669 Oct 02 14:36	0∘ ত			7670 Sep 24 17:00	0∘ ত	
morning set	7669 Oct 09 23:26	14° ≙ 38'23					
				superior conj	7670 Oct 01 08:54	14° ≏ 28'47	1°37'51
superior conj	7669 Oct 17 00:53	29° ≏ 43'20	1°41'46	minimum elong	7670 Oct 01 07:40	14° ≏ 22'01	1°37'49
minimum elong	7669 Oct 17 00:44	29° £ 42'29	1°41'48	max. Earth dist.	7670 Oct 03 09:28	18° ≏ 51'48	1.32811 AU
	7669 Oct 17 04:01	0°M		evening rise	7670 Oct 08 17:36	0°M03'19	
max. Earth dist.	7669 Oct 20 08:47	6°M42'41	1.34034 AU	evening rise	7670 Oct 08 16:57	0°M	
evening rise	7669 Oct 24 23:45	16°M01'17	1.54054 710	desc. node	7670 Oct 23 15:08	26°M59'42	
evening rise	7669 Nov 01 12:44	10 llc01 17 0° √		desc. Hode	7670 Oct 25 13:26	20 11 0 3942 0° √ 1	
desc. node		0 x ⁴ 7° x ⁴10'05		avanina may al	7670 Nov 11 05:24	21° х 00'43	27°28'18
desc. Hode	7669 Nov 05 18:06	ッマ 0°マ		evening max el			27 20 10
	7669 Nov 21 15:21		25005145	retrograde	7670 Nov 24 21:51	28° ₹ 19'04	
evening max el	7669 Nov 28 17:42	7°る46'26	2/0/4/	evening set	7670 Dec 01 23:12	25° ₹ 46'29	0.62550.433
retrograde	7669 Dec 12 02:21	15° ⋜ 06'33		min. Earth dist.	7670 Dec 05 16:42	22° ⋌ 32'58	0.63550 AU
evening set	7669 Dec 18 20:49	12° ろ 29'24		inferior conj	7670 Dec 08 07:56	19° ∡ ′53'19 −	
min. Earth dist.	7669 Dec 22 18:48	8° る 44'22	0.65211 AU	minimum elong	7670 Dec 08 12:23		2°21'34
inferior conj	7669 Dec 24 22:45	6° る 19'06		morning rise	7670 Dec 15 03:23	14° ∡ ³35'54	
minimum elong	7669 Dec 25 01:00	6°る12'47	1°15'02	asc. node	7670 Dec 15 14:19	14° ∡ ¹26′23	
asc. node	7669 Dec 28 17:17	2° る 28'33		direct	7670 Dec 17 12:58	14° ∡ °07'57	
morning rise	7669 Dec 31 06:29	0° ප් 46'20		morning max el	7670 Dec 24 02:27	17° ∡ °32′03	17°48'48
direct	7670 Jan 02 22:32	0°ರ08'18			7671 Jan 02 02:24	ರ∘ರ	
morning max el	7670 Jan 09 09:09	3°₹33'10	18°02'59	morning set	7671 Jan 09 13:00	12° る 40'20	
morning set	7670 Jan 27 10:17	0° ≈ 24'23		desc. node	7671 Jan 19 14:24	29° ප් 46'06	
<i>5</i>	7670 Jan 27 04:22	0° ≈			7671 Jan 19 17:45	0° ≈	
desc. node	7670 Feb 01 17:24	9°≈04'58					
Lese. Hour	.0,0100 01 17.27	, , • .0 + 50		superior conj	7671 Jan 21 23:32	3° ≈ 41'57	-0°17'10
superior conj	7670 Feb 10 20:36	23° ≈ 44'24	-1°02'18	minimum elong	7671 Jan 21 21:41	3°≈34'19	
minimum elong	7670 Feb 10 20:30 7670 Feb 10 13:19	23°≈15'34		max. Earth dist.	7671 Jan 27 22:28	13°≈19'37	1.44449 AU
max. Earth dist.	7670 Feb 10 13.19 7670 Feb 14 04:24	23 ≈13 34 28°≈58'59	1.45305 AU		7671 Feb 06 12:25	13 ≈1937 28°≈18'25	1. 7771 9 AU
max. Eatui üist.		28°≈3839 0° ∺	1.45505 AU	evening rise		28°≈18′25 0° ∺	
	7670 Feb 14 19:57	υ Λ			7671 Feb 07 14:55	υ Λ	

	7.71 5 1 20 02 00	0000			7.72 1 02 04 10	1.40 7.5010.6	002.402
	7671 Feb 28 02:00	0°Υ 0°Υ44150	20942114	superior conj	7672 Jan 03 04:10	14° る 53'36	0°24'03
evening max el	7671 Mar 07 07:53	8° Υ 44'58 13° Υ 14'00	20°42'14	minimum elong	7672 Jan 03 06:15	15°る02'34 20°る30'58	0°23'51
asc. node	7671 Mar 13 13:23 7671 Mar 15 13:29	13° γ 14'00 13° γ 34'43		desc. node max. Earth dist.	7672 Jan 06 11:22 7672 Jan 10 13:16	20° る 30°38 27° る 17'20	1.42969 AU
retrograde	7671 Mar 13 13:29 7671 Mar 19 14:26	13 γ 34 43 12° γ 01'31		max. Earm dist.	7672 Jan 10 13.16 7672 Jan 12 05:14	27 3 1720 0° ≈	1.42909 AU
evening set inferior conj	7671 Mar 24 22:06	5° Υ 52'16	3°01'09	evening rise	7672 Jan 12 05:14 7672 Jan 17 05:23	0 ≈ 7°≈58'35	
minimum elong	7671 Mar 24 22:00	5°Υ58'50	3°00'47	evening rise	7672 Jan 31 20:14	0° ∺	
min. Earth dist.	7671 Mar 25 11:34	5° Υ 05'57	0.67904 AU	evening max el	7672 Feb 18 03:48	22° ∺ 24'30	21°55'40
mm. Lattii dist.	7671 Mar 29 15:59	30° ₹	0.07704710	retrograde	7672 Feb 27 10:55	27° ¥ 55'06	21 33 40
morning rise	7671 Mar 30 01:42	29°) 37'15		asc. node	7672 Feb 28 10:27	27°\ 50'09	
direct	7671 Apr 04 13:26	27°) 10'51		evening set	7672 Mar 02 22:24	26° ₩ 06'34	
	7671 Apr 11 08:10	0°Υ		inferior conj	7672 Mar 08 06:11	19°) 47'20	2°33'28
morning max el	7671 Apr 15 13:21	3° Y 45'16	24°02'24	minimum elong	7672 Mar 08 03:55	19°) 55'13	2°32'52
desc. node	7671 Apr 17 13:57	5° Y 53'46		min. Earth dist.	7672 Mar 08 07:01	19°) (44'27	0.68317 AU
	7671 May 05 15:29	0°8		morning rise	7672 Mar 13 09:16	13°) 36′04	
morning set	7671 May 21 03:20	24° 8 53'49		direct	7672 Mar 18 06:52	11° ¥ 30′09	
Z .	7671 May 24 01:28	0° Ⅱ		morning max el	7672 Mar 27 23:50	17°) 13′24	22°32'58
max. Earth dist.	7671 May 24 20:42	1° Ⅱ 25′23	1.38247 AU	desc. node	7672 Apr 03 10:55	24° ¥ 38'55	
	·				7672 Apr 07 12:56	0° Υ	
superior conj	7671 Jun 01 02:30	14° Ⅱ 46'30	-1°16'39		7672 Apr 27 17:21	0°B	
minimum elong	7671 Jun 01 07:06	15° Ⅱ 08′28	1°16'03	morning set	7672 Apr 30 21:16	5° 8 07'10	
_	7671 Jun 08 22:07	0°€		max. Earth dist.	7672 May 05 17:52	13° 8 13'13	1.40489 AU
asc. node	7671 Jun 09 12:28	1° 5 510'39			•		
evening rise	7671 Jun 10 01:00	2° © 12'16		superior conj	7672 May 13 12:57	26° 8 52'19	-1°44'39
evening max el	7671 Jun 26 11:14	28° © 53'10	18°58'48	minimum elong	7672 May 13 18:37	27° 8 17'54	1°44'08
	7671 Jun 27 16:22	$0^{\circ}\Omega$			7672 May 15 06:17	Π $\circ 0$	
retrograde	7671 Jul 05 02:40	3° Ω 09′12		evening rise	7672 May 23 14:34	15° Ⅱ 34'49	
evening set	7671 Jul 07 01:50	2° Ω 56′51		asc. node	7672 May 26 09:30	20° Ⅱ 49'03	
	7671 Jul 13 09:52	30°Rூ			7672 May 31 12:11	0 \circ \odot	
desc. node	7671 Jul 14 13:12	29° 5 13'59		evening max el	7672 Jun 08 16:39	11° 5 21'38	18°22'43
inferior conj	7671 Jul 15 07:56	28° 5 41'28	-0°14'10	retrograde	7672 Jun 16 02:42	15° © 03'59	
minimum elong	7671 Jul 15 07:21	28° 5 42'30	0°14'02	evening set	7672 Jun 18 08:37	14° 5 544'29	
transit middle	7671 Jul 15 07:21	28° © 42'30	0°14'02	inferior conj	7672 Jun 25 18:50	10° © 08'44	1°19'55
transit begin	7671 Jul 15 05:31	28° © 45'42		minimum elong	7672 Jun 25 21:22	10° © 03'31	1°18'57
transit end	7671 Jul 15 09:11	28° © 39'18		min. Earth dist.	7672 Jun 29 04:22	7° © 22'49	0.58488 AU
min. Earth dist.	7671 Jul 18 08:24	26°535'34	0.56526 AU	desc. node	7672 Jun 30 10:15	6° 5 26'50	
morning rise	7671 Jul 23 09:37	23° © 46'15		morning rise	7672 Jul 03 06:51	4° © 39'03	
direct	7671 Jul 28 17:30	22° © 39'04		direct	7672 Jul 09 09:13	3° © 01'10	
	7671 Aug 11 23:30	0 ° Ω		morning max el	7672 Jul 23 18:32	10° © 44'43	27°11'13
morning max el	7671 Aug 11 23:28	29° © 59'56	25°57'27		7672 Aug 07 16:08	0°N	
	7671 Sep 01 20:14	0° m)		asc. node	7672 Aug 22 08:53	26° Ω 55'38	
asc. node	7671 Sep 05 11:54	7° m 07'30		morning set	7672 Aug 23 07:10	28° Ω 52'18	
morning set	7671 Sep 08 22:19	14° Mp 15'10			7672 Aug 23 19:58	0° m)	
	7(71 0 15 10.45	200 m 10/22	1°28'16		7(72 A 20 07-22	1.40 m, 0.012.0	1912120
superior conj	7671 Sep 15 19:45	29° m 19'23 29° m 08'31	1°28'16 1°28'03	superior conj	7672 Aug 30 07:33	14° Mp 09'38	1°13'30 1°13'09
minimum elong	7671 Sep 15 17:47 7671 Sep 16 03:06	0° ⊡	1 28 03	minimum elong max. Earth dist.	7672 Aug 30 05:18	13° M 57'07	1.31714 AU
max. Earth dist.	7671 Sep 16 03:06 7671 Sep 16 16:37		1.32036 AU	evening rise	7672 Aug 30 02:56 7672 Sep 06 02:33	13° Mp 44'04 29° Mp 01'13	1.31/14 AU
evening rise	7671 Sep 10 10.37	1 = 14 32 14° £ 25'39	1.32030 AU	evening rise	7672 Sep 06 02:33	0° ⊽	
evening rise	7671 Sep 30 17:43	0° M			7672 Sep 23 01:23	0° m .	
desc. node	7671 Oct 10 12:10	16°M16'09		desc. node	7672 Sep 26 09:13	4°M46'25	
desc. node	7671 Oct 20 23:45	0° √		evening max el	7672 Oct 05 15:04	15°M32'26	26°32'57
evening max el	7671 Oct 24 13:30	3° х 40′10	27°17'37	retrograde	7672 Oct 19 12:58	22°M39'16	20 32 37
retrograde	7671 Nov 07 09:45	10° ₹ 52'36	2, 1, 3,	evening set	7672 Oct 26 06:31	20°M46'46	
evening set	7671 Nov 14 11:54	8° × 32'34'41		min. Earth dist.	7672 Oct 30 04:38	18°M11'48	0.59542 AU
min. Earth dist.	7671 Nov 18 04:07	5° ⊀ ¹46'26	0.61621 AU	inferior conj	7672 Nov 02 09:40	15°M41'38	
inferior conj	7671 Nov 21 04:45	3° ₹ 04'01		minimum elong	7672 Nov 02 16:42	15°M27'51	
minimum elong	7671 Nov 21 11:11	2° ₹ 149'35		morning rise	7672 Nov 10 05:10	11°M05'02	
	7671 Nov 24 21:40	30°RM		direct	7672 Nov 12 11:17	10°M46'48	
morning rise	7671 Nov 28 12:36	28°M05'21		asc. node	7672 Nov 18 08:21	12°M58'19	
direct	7671 Nov 30 18:37	27°M43'50		morning max el	7672 Nov 20 05:18	14°M34'54	18°16'24
asc. node	7671 Dec 02 11:20	27°M56'29		<i>5</i>	7672 Nov 30 19:03	0° ∡ 7	
	7671 Dec 06 08:28	0° ∡ 7		morning set	7672 Dec 06 00:50	9° ∡ ¹45'43	
morning max el	7671 Dec 07 18:18	1° ∡ 15'36	17°52'49	-			
morning set	7671 Dec 23 11:49	25° ₹ 53'21		superior conj	7672 Dec 15 08:37	27° х 13′30	0°56'49
	7671 Dec 25 18:17	∂ °0		minimum elong	7672 Dec 15 12:06	27° ∡ °29′19	0°56'28
					7672 Dec 16 21:27	ರ∘ರ	

	7(72 D 22 22 14	100=227120	1 41027 ATT		7(72 N 20 11 01	100 742122	1010155
max. Earth dist. desc. node	7672 Dec 22 23:14 7672 Dec 23 08:20	10°る37'30 11°る16'11	1.41037 AU	minimum elong max. Earth dist.	7673 Nov 28 11:01 7673 Dec 05 05:06	10° ₹ 42'23 23° ₹ 13'56	1°19'55 1.38886 AU
evening rise	7672 Dec 23 08:20 7672 Dec 27 16:04	11 31011 18° 3 28'01		evening rise	7673 Dec 09 00:57	29° х 156'59	1.30000 AU
evening rise	7673 Jan 03 22:30	0°≈		evening rise	7673 Dec 09 01:39	0°る	
	7673 Jan 25 08:22	0°) €		desc. node	7673 Dec 10 05:21	1°る58'20	
evening max el	7673 Jan 30 19:28	6° ₩ 06'05	23°15'01		7673 Dec 28 07:12	0° ≈	
retrograde	7673 Feb 10 05:53	12°) 16'41		evening max el	7674 Jan 13 08:53	19° ≈ 51'16	24°34'12
asc. node	7673 Feb 14 07:31	10°) 54′30		retrograde	7674 Jan 24 21:17	26° ≈ 35'12	
evening set	7673 Feb 15 05:05	10°) 13′06		evening set	7674 Jan 30 09:01	24°≈17'53	
min. Earth dist.	7673 Feb 20 03:43	4°) 24′57	0.68317 AU	asc. node	7674 Feb 01 04:34	22° ≈ 30'58	
inferior conj	7673 Feb 20 14:40	3°) 47′12	1°56'56	min. Earth dist.	7674 Feb 03 23:30	19° ≈ 03'52	0.67923 AU
minimum elong	7673 Feb 20 12:30	3°) 54'42	1°56'15	inferior conj	7674 Feb 04 21:47	17° ≈ 49'31	1°12'17
	7673 Feb 23 12:15	30° R ≈		minimum elong	7674 Feb 04 20:11	17° ≈ 54'52	1°11'45
morning rise	7673 Feb 25 19:51	27° ≈ 40'55		morning rise	7674 Feb 10 07:31	11° ≈ 49'41	
direct	7673 Mar 02 03:24	25°≈57'37		direct	7674 Feb 14 01:58	10°≈28′20	10057107
	7673 Mar 09 18:04	0° ∀	21000115	morning max el	7674 Feb 21 14:45	14°≈42'33	19°57'07
morning max el desc. node	7673 Mar 10 15:29 7673 Mar 21 07:53	0°) 51'46 14°) 02'38	21°09'15	desc. node	7674 Mar 05 12:37 7674 Mar 08 04:51	0° 光 3° 光 54'50	
desc. node	7673 Mai 21 07.33 7673 Apr 01 07:45	14 χ0238 0° Υ		morning set	7674 Mar 20 09:34	22°)(22'33	
morning set	7673 Apr 10 11:46	14° Y 05'08		morning set	7674 Mar 25 07:30	0° Υ	
max. Earth dist.	7673 Apr 17 20:46	25°Υ'54'06	1.42552 AU	max. Earth dist.	7674 Mar 31 06:39	9° Υ 24'25	1.44184 AU
	7673 Apr 20 08:29	0°8				, ,	
	Ī	_		superior conj	7674 Apr 05 14:24	17° Ƴ 58'41	-2°11'15
superior conj	7673 Apr 25 02:01	7° 8 58'05	-2°04'50	minimum elong	7674 Apr 05 13:32	17° Y 55'07	2°11'18
minimum elong	7673 Apr 25 06:19	8° 8 16'29	2°04'41		7674 Apr 12 20:48	0°8	
evening rise	7673 May 06 14:13	28° 8 15'50		evening rise	7674 Apr 18 19:25	10° 8 05'45	
	7673 May 07 13:22	$\Pi^{\circ}0$		asc. node	7674 Apr 30 03:35	29° 8 01'36	
asc. node	7673 May 13 06:32	10° Ⅱ 08'10			7674 Apr 30 18:58	$\Pi^{\circ}0$	
evening max el	7673 May 23 03:39	24° Ⅱ 18'16	18°06'37	evening max el	7674 May 06 16:52	7° Ⅲ 34'42	18°09'41
retrograde	7673 May 29 20:06	27° Ⅱ 42'56		retrograde	7674 May 13 02:23	10° Ⅲ 56′21	
evening set	7673 Jun 01 09:22	27° I I13'15	2025120	evening set	7674 May 15 22:47	10° Ⅱ 14'24	200.4120
inferior conj	7673 Jun 08 02:11 7673 Jun 08 05:16	22° Ⅱ 17'15 22° Ⅱ 09'53	2°25'20 2°24'26	inferior conj	7674 May 22 02:11	4°Ⅲ59'35 4°Ⅲ53'42	3°04'28 3°04'02
minimum elong min. Earth dist.	7673 Jun 11 07:49	19° Ⅱ 13'46	0.60713 AU	minimum elong min. Earth dist.	7674 May 22 04:21 7674 May 24 20:12	2° Ⅱ 02'17	
morning rise	7673 Jun 14 22:41	19 Ⅱ 13 40 16° Ⅱ 22'34	0.00/13 AU	iiiii. Eartii tiist.	7674 May 24 20:12 7674 May 26 22:40	30°R 8	0.02901 AU
desc. node	7673 Jun 17 07:18	15° I 106'34		morning rise	7674 May 28 08:22	28° 8 50'34	
direct	7673 Jun 21 13:07	14° I I13'14		direct	7674 Jun 04 03:11	26° 8 16'49	
morning max el	7673 Jul 05 20:26	22° I I11'05	27°50'07	desc. node	7674 Jun 04 04:20	26° 8 16'50	
S	7673 Jul 12 17:21	0°©			7674 Jun 13 05:51	0° I I	
	7673 Jul 31 18:37	$0^{\circ}\Omega$		morning max el	7674 Jun 18 03:39	4° Ⅱ 19'42	27°50'48
morning set	7673 Aug 07 11:57	13° Ω 14'57			7674 Jul 07 09:08	0 \circ \odot	
asc. node	7673 Aug 09 05:52	16° Ω 54′20		morning set	7674 Jul 22 10:32	27° © 16'50	
max. Earth dist.	7673 Aug 13 12:34	26° Ω 08'52	1.31838 AU		7674 Jul 23 18:38	0 $^{\circ}$ Ω	
				asc. node	7674 Jul 27 02:52	6° Ω 59'01	
superior conj	7673 Aug 14 18:32	28° Ω 53'46	0°54'02	max. Earth dist.	7674 Jul 27 17:31	8° Ω 17'08	1.32423 AU
minimum elong	7673 Aug 14 16:28	28° Ω 42'21	0°53'36		7674 1 1 20 02 54	120 026117	0020110
avanina riaa	7673 Aug 15 06:32	0° Т р		superior conj minimum elong	7674 Jul 30 02:54 7674 Jul 30 01:32	13° Ω 26'17 13° Ω 18'51	0°30'18 0°29'55
evening rise	7673 Aug 21 12:56 7673 Aug 29 15:30	13° Mp 43′20 0° <u> </u>		evening rise	7674 Jul 30 01.32 7674 Aug 06 00:37	28° Ω 26'04	0 29 33
desc. node	7673 Sep 13 06:18	0 = 22° £ 12'23		evening rise	7674 Aug 06 08:17	0° Mp	
evening max el	7673 Sep 17 08:32	26° £ 33'48	25°17'39		7674 Aug 23 19:06	0∘ ʊ 0 ıı⁄ı	
evening man er	7673 Sep 21 11:29	0°M	20 1, 35	evening max el	7674 Aug 29 20:28	° 	23°42'46
retrograde	7673 Oct 01 06:13	3°M35'34		desc. node	7674 Aug 31 03:23	8° ≏ 08'51	
evening set	7673 Oct 07 02:18	2°M17'22		retrograde	7674 Sep 12 11:27	13° ≏ 46'45	
_	7673 Oct 11 06:32	30° Ŗ Ω		evening set	7674 Sep 16 21:48	13° ≏ 03'43	
min. Earth dist.	7673 Oct 11 20:14	29° ≏ 37'47	0.57517 AU	min. Earth dist.	7674 Sep 23 06:42	10° ≏ 00'49	0.55852 AU
inferior conj	7673 Oct 14 19:30	27° ≏ 37'04		inferior conj	7674 Sep 25 09:07	8° ≏ 45'09	
minimum elong	7673 Oct 14 23:57	27° ₽ 29'29	5°19'25	minimum elong	7674 Sep 25 07:03	8° ≙ 48'16	5°29'56
morning rise	7673 Oct 22 23:55	23° £ 23'37		morning rise	7674 Oct 03 18:32	4° £ 50'18	
direct	7673 Oct 25 10:29	23° Ω 05'55	10001100	direct	7674 Oct 06 14:13	4° £ 30′24	2000010-
morning max el	7673 Nov 03 07:56	27° £ 20'22	19°01'08	morning max el	7674 Oct 16 22:56	9° £ 21'47	20°08'05
asc. node	7673 Nov 05 05:22 7673 Nov 05 19:06	29° ₽ 19'42 0° I L		asc. node	7674 Oct 23 02:23 7674 Oct 30 20:18	16° ≏ 44'49 0° ™	
morning set	7673 Nov 05 19:06 7673 Nov 19 23:39	0°11น 24°11น04'49		morning set	7674 Oct 30 20:18 7674 Nov 04 04:57	0°11L 8°11L40'40	
morning set	7673 Nov 19 23:39 7673 Nov 22 23:25	24 1160449 0° √		morning set	/U/T :NUV UT UT.3/	0 11 64 040	
	,0,0,10, 22 23.23	V /2		superior conj	7674 Nov 11 20:54	24°M20'04	1°34'35
superior conj	7673 Nov 28 07:53	10° ∡ 27'23	1°20'09	minimum elong	7674 Nov 11 22:51	24°M29'55	
				S			

	7674 Nov 14 17:26	0° ∡ ″		superior conj	7675 Oct 26 19:39	8°ML40'13	1°41'09
max. Earth dist.	7674 Nov 17 11:10	5° ∡ 16'50	1.36782 AU	minimum elong	7675 Oct 26 20:14	8°M43'16	1°41'12
evening rise	7674 Nov 21 06:35	12° ∡ °21′01		max. Earth dist.	7675 Oct 30 22:59	17° M L09'47	1.34935 AU
desc. node	7674 Nov 27 02:23	22° ∡ ³32'47		evening rise	7675 Nov 04 05:19	25°M30'56	
	7674 Dec 01 15:17	5°0			7675 Nov 06 14:42	0° ∡ 7	
	7674 Dec 23 10:27	0° ≈		desc. node	7675 Nov 13 23:25	12° ∡ 54′51	
evening max el	7674 Dec 26 21:53	3° ≈ 37'54	25°46'25		7675 Nov 25 02:32	0°ಕ	
retrograde	7675 Jan 08 07:59	10° ≈ 44'15		evening max el	7675 Dec 09 11:11	17° පි 20'17	26°44'06
evening set	7675 Jan 14 08:31	8°≈15'44		retrograde	7675 Dec 22 13:07	24° る 37'23	
min. Earth dist.	7675 Jan 18 16:05	3°≈36'12	0.67152 AU	evening set	7675 Dec 29 01:40	22°る01'54	0.66001.477
asc. node	7675 Jan 19 01:39	3°≈06'06	0020100	min. Earth dist.	7676 Jan 02 03:03	17°る57'04	0.66021 AU
inferior conj minimum elong	7675 Jan 20 01:38 7675 Jan 20 01:07	1°≈50'01 1°≈51'38	0°20'00 0°19'53	inferior conj minimum elong	7676 Jan 04 00:08 7676 Jan 04 01:15	15°る44'26 15°る41'10	
minimum eiong	7675 Jan 21 13:02	1 ≈3138 30°R ろ	0 1933	asc. node	7676 Jan 04 01:13	13°る4110	0 38 39
morning rise	7675 Jan 25 18:13	50 KO 25° る 58'32		morning rise	7676 Jan 10 01:46	13 3 31 23	
direct	7675 Jan 29 01:01	24° ප 56'41		direct	7676 Jan 12 22:43	9°₹18'06	
morning max el	7675 Feb 04 21:42	28° る 42'46	18°59'52	morning max el	7676 Jan 19 10:45	12° る 47'30	18°18'53
morning man vi	7675 Feb 06 03:15	0°≈	10 0,02	morning man vi	7676 Jan 31 20:25	0°≈	10 1005
desc. node	7675 Feb 23 01:50	24° ≈ 07'15		morning set	7676 Feb 07 21:15	11° ≈ 15'32	
	7675 Feb 26 20:46	0°) €		desc. node	7676 Feb 09 22:47	14° ≈ 34'10	
morning set	7675 Feb 27 14:23	1°) €08'32			7676 Feb 19 15:52	0°)	
max. Earth dist.	7675 Mar 13 22:23	23°) (31′10	1.45195 AU				
				superior conj	7676 Feb 23 08:48	5°) 49'30	-1°26'38
superior conj	7675 Mar 16 04:26	27°) €03'50	-1°58'36	minimum elong	7676 Feb 22 23:28	5° ¥ 12'51	1°25'34
minimum elong	7675 Mar 15 20:50	26°) ₹33'52	1°58'06	max. Earth dist.	7676 Feb 24 17:45	7° ¥ 58'35	1.45483 AU
	7675 Mar 18 01:03	0 ° Υ			7676 Mar 09 19:40	0° Υ	
evening rise	7675 Mar 31 02:06	20° Y 57'39		evening rise	7676 Mar 10 09:40	0° Υ 54'51	
	7675 Apr 05 15:02	0°8		greatest brilliancy	7676 Mar 21 06:28	17° Y 51'41	-0.8m
asc. node	7675 Apr 17 00:40	17° 8 21'12			7676 Mar 29 15:45	0°8	
evening max el	7675 Apr 20 05:20	21° 8 03'27	18°31'10	evening max el	7676 Apr 02 14:35	4° 8 38'10	19°10'02
retrograde	7675 Apr 26 17:17	24° 8 35'36 23° 8 40'04		asc. node	7676 Apr 02 21:44	4° 8 56'02 8° 8 32'57	
evening set inferior conj	7675 Apr 29 20:50 7675 May 05 14:42	18° 8 07'45	3°22'31	retrograde evening set	7676 Apr 09 13:14 7676 Apr 13 00:23	7° 8 23'02	
minimum elong	7675 May 05 15:30	18° 8 05'23	3°22'24	inferior conj	7676 Apr 18 12:08	1° 8 34'43	3°24'09
min. Earth dist.	7675 May 07 17:46	15° 8 35'53	0.64827 AU	minimum elong	7676 Apr 18 11:38	1° 8 36'21	3°24'04
morning rise	7675 May 11 09:21	11° 8 52'17	0.0.027110	g	7676 Apr 19 17:34	30°R Y	3 2.0.
direct	7675 May 18 01:16	9° 8 06'06		min. Earth dist.	7676 Apr 19 23:45	29° Ƴ 40'19	0.66366 AU
desc. node	7675 May 22 01:22	9° 8 57'21		morning rise	7676 Apr 23 22:28	25° Ƴ 17'26	
morning max el	7675 May 31 13:31	17° 8 02'11	27°16'28	direct	7676 Apr 30 05:52	22° Y 31'24	
	7675 Jun 11 07:58	Π °0		desc. node	7676 May 07 22:23	25° Ƴ 38'45	
	7675 Jun 30 05:32	0 \circ \odot			7676 May 12 20:57	9° 8	
morning set	7675 Jul 06 00:13	10° © 50'15		morning max el	7676 May 12 23:41	0° 8 06'54	26°14'11
max. Earth dist.	7675 Jul 10 14:08	19° © 59'50	1.33490 AU		7676 Jun 04 06:24	Π °0	
asc. node	7675 Jul 13 23:53	27° © 05'37		morning set	7676 Jun 18 01:21	23° Ⅱ 44'19	
					7676 Jun 21 08:28	0°€	
superior conj	7675 Jul 14 06:37	27°5641'15	0°02'53	max. Earth dist.	7676 Jun 22 00:04	1° © 15'47	1.35037 AU
minimum elong	7675 Jul 14 06:28	27°540'29	0°02'44		7(7(I 27 02.00	110620142	0027122
behind sun begin behind sun end	7675 Jul 14 01:00 7675 Jul 14 11:57	27° © 11'33 28° © 09'29		superior conj minimum elong	7676 Jun 27 03:09 7676 Jun 27 04:43	11°530'43 11°538'43	
bennia sun ena	7675 Jul 15 08:46	0°Ω		asc. node	7676 Jun 29 20:53	17°909'26	0 2/11
evening rise	7675 Jul 21 11:42	13° Ω 03'49		evening rise	7676 Jul 04 20:07	27°929'33	
evening rise	7675 Jul 30 01:57	0° my		evening rise	7676 Jul 06 01:23	0° Ω	
evening max el	7675 Aug 11 10:26	17° mp 13'58	22°04'33	evening max el	7676 Jul 23 10:14		20°37'17
desc. node	7675 Aug 18 00:28	22° m 04'43		Č	7676 Jul 25 18:25	0° m/p	
retrograde	7675 Aug 24 04:30	23° m/34'06		retrograde	7676 Aug 03 16:32	3° m 29'17	
evening set	7675 Aug 27 03:37	23° Mp 14'36		desc. node	7676 Aug 03 21:33	3° m 29'11	
min. Earth dist.	7675 Sep 04 15:31	19° Mp 34'03	0.54871 AU	evening set	7676 Aug 05 18:06	3° m)18'51	
inferior conj	7675 Sep 05 06:44	19° m 12'42	-4°48'15		7676 Aug 13 20:48	30°R Ω	
minimum elong	7675 Sep 04 22:16	19° m 24'34	4°46'33	inferior conj	7676 Aug 14 23:30	29° Ω 21'51	
morning rise	7675 Sep 13 18:25	15° m 24'01		minimum elong	7676 Aug 14 14:56	29° Ω 34'09	
direct	7675 Sep 17 03:03	14° m 58'57		min. Earth dist.	7676 Aug 16 01:07	28° Ω 45'05	0.54791 AU
morning max el	7675 Sep 29 01:03	20° m/34'59	21°36'02	morning rise	7676 Aug 23 11:27	25° Ω 19'45	
1	7675 Oct 06 19:40	0° 亞		direct	7676 Aug 27 11:49	24° Ω 45'13	
asc. node	7675 Oct 19 14:16	4° Ω 59'34		morning may al	7676 Sep 08 11:04	0°Mp 1°Mp07'19	22010140
morning set	7675 Oct 19 14:16 7675 Oct 22 16:57	23° £ 26'46 0° I L		morning max el asc. node	7676 Sep 09 17:08 7676 Sep 25 20:23	23° My 51'23	<i>43</i> 1046
	,013 Oct 22 10.3/	U IIU		ase. Houc	7676 Sep 29 01:06	0∘ ⊽	
					. 0. 0 0 op 25 01.00	· -	

morning set	7676 Oct 03 01:37	8° ≏ 16'58		morning set	7677 Sep 17 13:17	23° Mp 06'16	
morning set	7070 000 03 01.37	0 — 1036		morning set	7677 Sep 20 17:51	0° ഫ	
superior conj	7676 Oct 10 01:00	23° ≏ 18'11	1°40'49		•		
minimum elong	7676 Oct 10 00:20	23° ≙ 14'39	1°40'51	superior conj	7677 Sep 24 10:27	8° ≏ 06'24	1°34'26
max. Earth dist.	7676 Oct 12 19:12	29° £ 10′56	1.33463 AU	minimum elong	7677 Sep 24 08:51	7° £ 57'38	1°34'20
	7676 Oct 13 04:31	0° M ₊		max. Earth dist.	7677 Sep 25 23:00	11° ≙ 26'16	1.32426 AU
evening rise	7676 Oct 17 17:10	9°M16'02		evening rise	7677 Oct 01 14:42	23° £ 27'12	
11-	7676 Oct 29 01:08	0° द्र ⁷ 2° द्र ⁷ 58′23		4 4-	7677 Oct 04 20:54	0°M	
desc. node	7676 Oct 30 20:29 7676 Nov 20 04:10	2° x '3823		desc. node	7677 Oct 17 17:32 7677 Oct 22 18:17	22° M 35'12 0° ₹	
evening max el	7676 Nov 20 04.10 7676 Nov 20 23:56	0°る47'58	27°20'03	evening max el	7677 Nov 03 10:10	0 x . 13° x 747'53	27°27'45
retrograde	7676 Dec 04 12:06	8° ろ 07'13	27 20 03	retrograde	7677 Nov 17 04:24	21° × ⁷ 04'14	21 21 43
evening set	7676 Dec 11 10:13	5° る 30'57		evening set	7677 Nov 24 07:13	18° × ⁷ 36'13	
min. Earth dist.	7676 Dec 15 06:08		0.64543 AU	min. Earth dist.	7677 Nov 27 23:28	15° х 34′53	0.62754 AU
	7676 Dec 17 02:56	30°R ✓		inferior conj	7677 Nov 30 19:14	12° ∡ ′52'13	
inferior conj	7676 Dec 17 14:57	29° х 27′35	-1°44'15	minimum elong	7677 Dec 01 00:36	12° ∡ ³39'16	2°50'35
minimum elong	7676 Dec 17 18:07	29° ∡ 19'04	1°42'49	morning rise	7677 Dec 07 19:59	7° ∡ ¹42'44	
asc. node	7676 Dec 22 19:46	24° ∡ ¹43'22		asc. node	7677 Dec 09 16:48	7° ∡ 18'55	
morning rise	7676 Dec 24 03:30	24° ₰ 00'55		direct	7677 Dec 10 03:40	7° ∡ 17'57	
direct	7676 Dec 26 16:37	23° ∡ ¹27'30		morning max el	7677 Dec 16 20:31	10° х 44′02	17°48'20
morning max el	7677 Jan 02 03:23	26° ₹ 50'38	17°54'51		7677 Dec 29 18:02	0°₹	
	7677 Jan 04 21:56	0° ප		morning set	7678 Jan 01 21:21	5° そ 31'18	
morning set	7677 Jan 19 09:21	22° る 49'13				_	
	7677 Jan 23 16:25	0° ≈		superior conj	7678 Jan 13 12:53	25° る 38'15	0°01'10
desc. node	7677 Jan 26 19:45	5° ≈ 11'16		minimum elong	7678 Jan 13 13:00	25° る 38'45	0°01'16
	7(77 E-L 01 22.11	1500 00000	09.42100	behind sun begin	7678 Jan 13 03:55	25° る 00'41	
superior conj	7677 Feb 01 23:11	15°≈09'28		behind sun end	7678 Jan 13 22:05	26°る16'44 25°る54'24	
minimum elong max. Earth dist.	7677 Feb 01 18:10 7677 Feb 06 13:33	14°≈49'20 22°≈28'23	0 42 22 1.45023 AU	desc. node	7678 Jan 13 16:45 7678 Jan 16 03:56	23 3 34 24 0° ≈	
max. Earth dist.	7677 Feb 11 08:47	0° ₩	1.43023 AU	max. Earth dist.	7678 Jan 20 06:23	0 ∞ 6° ≈ 40'41	1.43877 AU
evening rise	7677 Feb 18 00:31	10°) 17'43		evening rise	7678 Jan 28 12:08	19° ≈ 39'59	1.43077710
e vennig rise	7677 Mar 03 00:47	0°Υ		evening rise	7678 Feb 04 06:49	0° ∀	
greatest brilliancy	7677 Mar 04 19:03	2° Y 35'26	-0.6m		7678 Feb 25 23:27	$0^{\circ}\Upsilon$	
evening max el	7677 Mar 16 18:56	18° Ƴ 15′20	20°04'39	evening max el	7678 Feb 27 17:40	1° Y 53'00	21°12'24
asc. node	7677 Mar 20 18:50	21° Y 33'21		asc. node	7678 Mar 07 15:54	6° Ƴ 57'36	
retrograde	7677 Mar 24 11:32	22° Y 43'06		retrograde	7678 Mar 08 09:53	7° Ƴ 00'31	
evening set	7677 Mar 28 07:08	21° Y 18′22		evening set	7678 Mar 12 15:06	5° Y 20'45	
inferior conj	7677 Apr 02 15:34	15° Y 15'52			7678 Mar 17 07:07	30° ₹	
minimum elong	7677 Apr 02 14:04	15° Y 20′59		inferior conj	7678 Mar 17 22:34	29°) €06'37	
min. Earth dist.	7677 Apr 03 12:41		0.67466 AU	minimum elong	7678 Mar 17 20:27	29° ¥ 13'57	
morning rise	7677 Apr 07 20:47	8° Y 59'30		min. Earth dist.	7678 Mar 18 06:29		0.68124 AU
direct desc. node	7677 Apr 13 16:08	6° Y 23'56 12° Y 50'14		morning rise direct	7678 Mar 23 01:36 7678 Mar 28 07:14	22°\ 52'53 20°\ 34'54	
morning max el	7677 Apr 24 19:20 7677 Apr 25 09:04	13° Y 24'32	24053124	morning max el	7678 Apr 07 18:21	26°\(\frac{1}{4}\)48'35	23°24'12
morning max cr	7677 May 08 19:26	0° 8	24 33 24	morning max ci	7678 Apr 10 17:22	20 γ (48 33	23 24 12
	7677 May 28 01:45	0°II		desc. node	7678 Apr 11 16:18	1° Υ 06'19	
morning set	7677 May 31 09:25	5° ∏ 47′26		desc. node	7678 May 02 09:51	0°8	
max. Earth dist.	7677 Jun 04 00:21		1.36997 AU	morning set	7678 May 12 18:47	16° 8 44'36	
				max. Earth dist.	7678 May 16 20:04	23° 8 41'33	1.39199 AU
superior conj	7677 Jun 10 13:34	24° Ⅱ 47'25	-0°58'51		7678 May 20 09:30	$\Pi^{\circ}0$	
minimum elong	7677 Jun 10 17:06	25° Ⅱ 04'47	0°58'20				
	7677 Jun 13 04:50	0 \circ \odot		superior conj	7678 May 24 10:00	7° Ⅱ 21'43	-1°29'09
asc. node	7677 Jun 16 17:54	7° 5 06'56		minimum elong	7678 May 24 15:15	7° Ⅱ 46′08	1°28'32
evening rise	7677 Jun 18 23:35	11° © 37'06		evening rise	7678 Jun 02 19:12	25° Ⅱ 18'21	
	7677 Jun 28 20:44	0° U	10000110	asc. node	7678 Jun 03 14:56	26° I 53'38	
evening max el	7677 Jul 05 23:07	9° Ω 19'39	19°28'42		7678 Jun 05 05:47	0°95	10040157
retrograde	7677 Jul 15 12:28 7677 Jul 17 09:15	14° Ω 02'18 13° Ω 52'18		evening max el	7678 Jun 18 23:32	21° © 27'07 25° © 27'08	18-405/
evening set desc. node	7677 Jul 17 09:15 7677 Jul 21 18:36	$13^{\circ} 0.02^{\circ} 18$ $12^{\circ} \Omega 19'24$		retrograde evening set	7678 Jun 27 01:19 7678 Jun 29 02:54	25°927'08 25°912'20	
inferior conj	7677 Jul 26 02:11	9° Ω 46'15	-1°19'00	inferior conj	7678 Jul 07 00:30	23 \$12 20 20° \$248' 43	0°29'05
minimum elong	7677 Jul 25 22:37	9° Ω 51'59		minimum elong	7678 Jul 07 01:36	20°946'40	0°28'33
min. Earth dist.	7677 Jul 28 13:42		0.55658 AU	desc. node	7678 Jul 08 15:38	19° 9 35'04	0 =000
morning rise	7677 Aug 03 09:26	5° Ω 12'15		min. Earth dist.	7678 Jul 10 06:48	18°523'08	0.57303 AU
direct	7677 Aug 08 05:03	4° £ 20′03		morning rise	7678 Jul 14 20:47	15° © 37'35	-
morning max el	7677 Aug 22 05:51	11° Ω 22'47	25°03'15	direct	7678 Jul 20 12:57	14°517'49	
	7677 Sep 05 10:48	0° m		morning max el	7678 Aug 03 21:31	21° © 50'25	26°32'30
asc. node	7677 Sep 12 17:21	13° m y 10'53			7678 Aug 11 01:39	$0^{\circ}\Omega$	

	7/70 4 20 04 27	00.00		. ,	7670 1 1 16 10 21	20651122	27022110
1-	7678 Aug 29 04:37	0°M)		morning max el	7679 Jul 16 19:21	2°951'32	27°32'19
asc. node	7678 Aug 30 14:20	2° Mp 50'44		marning sat	7679 Aug 05 13:56	0°Ω 22°Ω21/42	
morning set	7678 Sep 01 23:41	7° m 49'51		morning set asc. node	7679 Aug 17 07:02	22° Ω 21'43 22° Ω 44'08	
superior coni	7678 Sep 08 21:58	220 m 50127	1°22'37	asc. node	7679 Aug 17 11:18	0° m)	
superior conj minimum elong	7678 Sep 08 21.38	22° m 58'27 22° m 46'35	1°22'20		7679 Aug 20 20:45	V III	
max. Earth dist.	7678 Sep 08 19.30 7678 Sep 09 07:49	22 11/40 33 23° M 53'00	1.31841 AU	superior conj	7679 Aug 24 09:40	7° m)47'18	1°05'50
max. Earth dist.	7678 Sep 12 02:26	0° ∵	1.51641 AU	minimum elong	7679 Aug 24 07:26	7°M)34'54	1°05'25
evening rise	7678 Sep 12 02:20 7678 Sep 15 19:06	0 == 7° £ 56'36		max. Earth dist.	7679 Aug 23 18:13	6° My 21'43	1.31711 AU
evening rise	•	0°M			•		1.31/11 AU
desc. node	7678 Sep 27 07:07 7678 Oct 04 14:36	11°MJ34'32		evening rise	7679 Aug 31 03:54 7679 Sep 03 17:11	22° ™ 36'13 0° ₽	
evening max el	7678 Oct 16 15:41	26°M08'34	2700241	desc. node	7679 Sep 03 17:11 7679 Sep 21 11:41	0 = 29° £ 40'27	
evening max er	7678 Oct 21 08:53	20 11600 34 0° 🗷	27 0241	desc. Hode	7679 Sep 21 11:41 7679 Sep 21 17:45	29 = 4027 0° M	
	7678 Oct 30 13:13	0 x · 3° x 19′25			=	บ แเ 7°MJ39'57	26°04'15
retrograde	7678 Nov 06 12:55	1°×1923		evening max el	7679 Sep 28 14:02 7679 Oct 12 12:31	14°M44'35	20 04 13
evening set	7678 Nov 08 12.33	1 x 10 32 30°RM		retrograde	7679 Oct 12 12.31 7679 Oct 18 22:22	13°M06'17	
min Forth dist		28°M30'05	0.60740.411	evening set			0.59650 AII
min. Earth dist.	7678 Nov 10 06:17		0.60740 AU	min. Earth dist.	7679 Oct 23 03:00	10°M31'23	0.58659 AU
inferior conj	7678 Nov 13 09:45	25°M50'33		inferior conj	7679 Oct 26 06:56	8°M11'50	
minimum elong	7678 Nov 13 16:42	25°M35'47	3°5/39	minimum elong	7679 Oct 26 13:22	7°M59'57	4°55'43
morning rise	7678 Nov 20 22:48	21°M01'09		morning rise	7679 Nov 03 06:39	3°M44'48	
direct	7678 Nov 23 04:12	20°M41'32		direct	7679 Nov 05 13:58	3°M27'10	
asc. node	7678 Nov 26 13:48	21°M29'28	10000100	asc. node	7679 Nov 13 10:48	7°M06'55	10022120
morning max el	7678 Nov 30 10:51	24° ™ 19'24	18°00'23	morning max el	7679 Nov 13 18:43	7° M 25'38	18°32'39
	7678 Dec 05 01:43	0° ⊼			7679 Nov 28 05:24	0° ∡ ¹	
morning set	7678 Dec 16 02:53	19° ₹ '03'06		morning set	7679 Nov 29 20:34	3° ∡ ′08′23	
	7678 Dec 22 01:45	0°る				=	
		_		superior conj	7679 Dec 08 17:20	20° ⋌ ¹05'22	1°07'51
superior conj	7678 Dec 26 04:14	7° る 20'53	0°39'05	minimum elong	7679 Dec 08 20:49	20° ∡ ¹21'35	1°07'31
minimum elong	7678 Dec 26 07:11	7° る 33'54	0°38'46		7679 Dec 14 04:14	0°る	
desc. node	7678 Dec 31 13:43	16° る 39'59		max. Earth dist.	7679 Dec 16 02:29	3° る 22'49	1.40140 AU
max. Earth dist.	7679 Jan 02 18:38	20° る 21'44	1.42186 AU	desc. node	7679 Dec 18 10:44	7° る 24'30	
evening rise	7679 Jan 08 11:39	29° る 38'56		evening rise	7679 Dec 20 07:45	10° る 33'58	
	7679 Jan 08 16:57	0° ≈			7680 Jan 01 15:08	0° ≈	
	7679 Jan 28 20:55	0° ∀		evening max el	7680 Jan 24 02:10	29° ≈ 16'42	23°49'12
evening max el	7679 Feb 10 11:31	15°) 32′56	22°29'04		7680 Jan 24 19:53	0° ∀	
retrograde	7679 Feb 20 06:30	21° X 21'28		retrograde	7680 Feb 03 23:59	5°) 42′07	
asc. node	7679 Feb 22 12:58	20°) 55′14		evening set	7680 Feb 09 04:24	3°) 32′44	
evening set	7679 Feb 24 22:42	19° ∺ 26'40		asc. node	7680 Feb 09 10:01	3° ∺ 20′33	
inferior conj	7679 Mar 02 07:04	13° ¥ 04'04			7680 Feb 12 10:57	30° R ≈	
minimum elong	7679 Mar 02 04:46	13°) 12′00		min. Earth dist.	7680 Feb 13 23:29	27° ≈ 58'57	0.68198 AU
min. Earth dist.	7679 Mar 02 02:51	13° ∺ 18'41	0.68362 AU	inferior conj	7680 Feb 14 15:12	27° ≈ 05′26	1°38'57
morning rise	7679 Mar 07 10:42	6° ∺ 54'28		minimum elong	7680 Feb 14 13:13	27° ≈ 12'14	1°38'19
direct	7679 Mar 12 02:14	4° ∺ 57'57		morning rise	7680 Feb 19 22:01	21° ≈ 01'35	
morning max el	7679 Mar 21 06:30	10° ∺ 20'04	21°56'09	direct	7680 Feb 23 23:56	19° ≈ 27'35	
desc. node	7679 Mar 29 13:16	20° ∺ 09'11		morning max el	7680 Mar 03 01:06	24° ≈ 03'07	20°36'51
	7679 Apr 05 16:20	0° Y			7680 Mar 08 05:37	0° ∀	
morning set	7679 Apr 23 00:41	26° Y 24′10		desc. node	7680 Mar 15 10:15	9° ∺ 46'11	
	7679 Apr 25 06:04	0°8			7680 Mar 29 00:38	0° Υ	
max. Earth dist.	7679 Apr 28 18:36	5° 8 48'26	1.41399 AU	morning set	7680 Apr 01 05:46	4° Ƴ 57'39	
				max. Earth dist.	7680 Apr 10 00:36	18° Ƴ 52'04	1.43312 AU
superior conj	7679 May 06 11:55	19° 8 02'59					
minimum elong	7679 May 06 17:24	19° 8 27'12	1°54'08	superior conj	7680 Apr 16 14:46	29° Y 41'44	
	7679 May 12 14:03	Π °0		minimum elong	7680 Apr 16 17:20	29° Y 52'30	2°09'37
evening rise	7679 May 17 03:22	8° Ⅱ 23'59			7680 Apr 16 19:08	0° 8	
asc. node	7679 May 21 11:59	16° Ⅱ 24'27		evening rise	7680 Apr 28 19:43	20° 8 44'23	
	7679 May 29 19:29	0			7680 May 04 02:21	Π $\circ 0$	
evening max el	7679 Jun 02 07:51	4° © 09'08	18°13'35	asc. node	7680 May 07 09:03	5° Ⅲ 33'44	
retrograde	7679 Jun 09 08:56	7° 5 41'45		evening max el	7680 May 15 20:17	17° Ⅱ 15'50	18°05'43
evening set	7679 Jun 11 18:03	7° © 18'13		retrograde	7680 May 22 08:22	20° Ⅲ 37'11	
inferior conj	7679 Jun 18 20:27	2° © 34'06	1°51'07	evening set	7680 May 25 00:50	20° Ⅱ 02'19	
minimum elong	7679 Jun 18 23:29	2° 5 27'28	1°50'05	inferior conj	7680 May 31 11:24	14° Ⅱ 58′03	2°44'48
	7679 Jun 21 19:04	30°Ŗ Ⅱ		minimum elong	7680 May 31 14:13	14° Ⅱ 50'58	2°44'06
min. Earth dist.	7679 Jun 22 05:48	29° Ⅱ 37'31	0.59420 AU	min. Earth dist.	7680 Jun 03 12:43	11° Ⅲ 54'45	0.61663 AU
desc. node	7679 Jun 25 12:41	27° ∏ 12′28		morning rise	7680 Jun 07 01:35	8° Ⅱ 56'29	
morning rise	7679 Jun 26 01:54	26° Ⅱ 52'35		desc. node	7680 Jun 11 09:43	6° Ⅱ 53'05	
direct	7679 Jul 02 10:32	25° Ⅱ 00'34		direct	7680 Jun 13 18:59	6° Ⅱ 35'40	
	7679 Jul 13 15:34	0 \circ \odot		morning max el	7680 Jun 27 23:36	14° Ⅱ 35'59	27°55'04

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minimum elong	7682 Apr 28 10:07	11° 8 08'27	3°24'55		7683 Apr 07 19:30	30° ₹ Υ	
min. Earth dist.	7682 Apr 30 06:19	8° 8 52'02	0.65532 AU	inferior conj	7683 Apr 12 10:14	24° Υ 42'59	3°20'45
morning rise	7682 May 04 00:35	4° 8 52'07	0.03332710	minimum elong	7683 Apr 12 09:15	24° Υ 46'13	3°20'36
direct	7682 May 10 13:17	2° 8 04'35		min. Earth dist.	7683 Apr 13 15:37	23° Υ 06'12	0.66889 AU
desc. node	7682 May 16 03:46	3° 8 44'48		morning rise	7683 Apr 17 17:59	18° Y 25'40	0.000007110
morning max el	7682 May 23 18:51	9° 8 54'28	26°52'51	direct	7683 Apr 23 20:36	15° Y 42'41	
morning max cr	7682 Jun 08 14:11	0°Ⅱ	20 32 31	desc. node	7683 May 03 00:44	20° Υ 08'03	
	7682 Jun 26 13:50	0°©		morning max el	7683 May 06 04:40	23° Υ 05'46	25°41'23
morning set	7682 Jun 28 13:26	3°5544'49		morning max or	7683 May 12 07:08	0°8	23 11 23
max. Earth dist.	7682 Jul 02 20:39	12°9510'50	1.34087 AU		7683 Jun 01 22:09	0°II	
max. Earth dist.	7002 Jul 02 20.37	12 31030	1.54007 110	morning set	7683 Jun 11 07:58	16° Ⅱ 19'31	
superior conj	7682 Jul 07 03:20	20° © 57'14	-0°09'44	max. Earth dist.	7683 Jun 15 01:43	23° I 17'43	1.35821 AU
minimum elong	7682 Jul 07 03:52	21°900'01	0°09'44	max. Earth dist.	7683 Jun 18 12:50	0°95	1.55021 710
behind sun begin	7682 Jul 06 23:17	20°936'09	0 07 44		7003 Jun 10 12.30	0 3	
behind sun end	7682 Jul 07 08:26	21° © 23'55		superior conj	7683 Jun 20 20:00	4° © 34'19	-0°40'43
asc. node	7682 Jul 08 02:22	22° © 57'47		minimum elong	7683 Jun 20 22:24	4°946'21	0°40'21
asc. node	7682 Jul 11 10:17	0°Ω		asc. node	7683 Jun 24 23:23	12°959'45	0 4021
evening rise	7682 Jul 14 12:55	6° Ω 33'53		evening rise	7683 Jun 28 19:33	20°952'56	
evening rise	7682 Jul 27 04:08	0° m)		evening rise	7683 Jul 03 09:14	20 3 32 30 0° Ω	
		0 mg/01'46	21925120		7683 Jul 16 14:54	20°Ω01'30	20005142
evening max el	7682 Aug 03 09:26	~	21-25/29	evening max el			20-05-43
desc. node	7682 Aug 12 02:54	14° Mp 35'26		retrograde	7683 Jul 27 03:46	25° Ω 12'54	
retrograde	7682 Aug 15 14:11	15° Mp 04'31		evening set	7683 Jul 29 01:28	25° Ω 03'29	
evening set	7682 Aug 18 01:35	14° m 50'27		desc. node	7683 Jul 29 23:58	24° £ 52'14	
inferior conj	7682 Aug 27 07:40	10° m 52'10		inferior conj	7683 Aug 07 03:04	21° Ω 04'40	
minimum elong	7682 Aug 26 22:15	11°Mp05'22	4°11'42	minimum elong	7683 Aug 06 20:19	21° Ω 14'44	
min. Earth dist.	7682 Aug 27 09:50	10° ™ 49'08	0.54708 AU	min. Earth dist.	7683 Aug 08 20:52	20° Ω 02'20	0.55044 AU
morning rise	7682 Sep 04 19:47	7° ™ 00'14		morning rise	7683 Aug 15 13:42	16° Ω 50′22	
direct	7682 Sep 08 10:21	6° Mp 32′05		direct	7683 Aug 19 22:00	16° Ω 09'16	
morning max el	7682 Sep 20 23:26	•	22°18'42	morning max el	7683 Sep 02 13:10		24°03'59
	7682 Oct 03 21:59	0∘ ত			7683 Sep 08 22:07	O° m y	
asc. node	7682 Oct 04 01:50	0° ≏ 16'56		asc. node	7683 Sep 20 22:49	19° m 21'51	
morning set	7682 Oct 12 16:10	17° ≏ 05'58			7683 Sep 26 05:48	0∘ ত	
	7682 Oct 18 17:29	0°M₊		morning set	7683 Sep 27 03:51	1° ≏ 56′29	
superior coni	7682 Oct 19 18:30	2°M.12'48	1°41'47	superior coni	7683 Oct - 04 - 01:52	16° Ω 56'19	1°38'48
superior conj	7682 Oct 19 18:30	2°M.12'48	1°41'47	superior conj	7683 Oct 04 01:52	16° £ 56'19	1°38'48
minimum elong	7682 Oct 19 18:31	2°M12'57	1°41'52	minimum elong	7683 Oct 04 00:46	16° ≙ 50'21	1°38'48
minimum elong max. Earth dist.	7682 Oct 19 18:31 7682 Oct 23 07:17	2°M12'57 9°M35'25			7683 Oct 04 00:46 7683 Oct 06 06:49	16° ♀ 50'21 21° ♀ 42'03	
minimum elong	7682 Oct 19 18:31 7682 Oct 23 07:17 7682 Oct 27 19:56	2°M12'57 9°M35'25 18°M38'37	1°41'52	minimum elong max. Earth dist.	7683 Oct 04 00:46 7683 Oct 06 06:49 7683 Oct 10 05:37	16° £ 50'21 21° £ 42'03 0° M	1°38'48
minimum elong max. Earth dist. evening rise	7682 Oct 19 18:31 7682 Oct 23 07:17 7682 Oct 27 19:56 7682 Nov 02 22:20	2°M12'57 9°M35'25 18°M38'37 0°×7	1°41'52	minimum elong max. Earth dist.	7683 Oct 04 00:46 7683 Oct 06 06:49 7683 Oct 10 05:37 7683 Oct 11 12:20	16° Ω 50'21 21° Ω 42'03 0° M 2° M 36'27	1°38'48
minimum elong max. Earth dist.	7682 Oct 19 18:31 7682 Oct 23 07:17 7682 Oct 27 19:56 7682 Nov 02 22:20 7682 Nov 08 01:50	2°M12'57 9°M35'25 18°M38'37 0° ×7 8° ×749'25	1°41'52	minimum elong max. Earth dist.	7683 Oct 04 00:46 7683 Oct 06 06:49 7683 Oct 10 05:37 7683 Oct 11 12:20 7683 Oct 25 22:53	16° \$\omega\$ 50'21 21° \$\omega\$ 42'03 0° \$\mathbb{M}\$ 2° \$\mathbb{M}\$.36'27 28° \$\mathbb{M}\$.42'54	1°38'48
minimum elong max. Earth dist. evening rise desc. node	7682 Oct 19 18:31 7682 Oct 23 07:17 7682 Oct 27 19:56 7682 Nov 02 22:20 7682 Nov 08 01:50 7682 Nov 22 11:51	2°M12'57 9°M35'25 18°M38'37 0°조 8°조 49'25 0°중	1°41'52 1.34250 AU	minimum elong max. Earth dist. evening rise desc. node	7683 Oct 04 00:46 7683 Oct 06 06:49 7683 Oct 10 05:37 7683 Oct 11 12:20 7683 Oct 25 22:53 7683 Oct 26 18:21	16° ♀ 50'21 21° ♀ 42'03 0°M 2°M36'27 28°M42'54	1°38'48 1.32965 AU
minimum elong max. Earth dist. evening rise desc. node evening max el	7682 Oct 19 18:31 7682 Oct 23 07:17 7682 Oct 27 19:56 7682 Nov 02 22:20 7682 Nov 08 01:50 7682 Nov 22 11:51 7682 Dec 01 17:20	2°M12'57 9°M35'25 18°M38'37 0°メ 8°メ49'25 0°उ 10°उ26'18	1°41'52 1.34250 AU	minimum elong max. Earth dist.	7683 Oct 04 00:46 7683 Oct 06 06:49 7683 Oct 10 05:37 7683 Oct 11 12:20 7683 Oct 25 22:53 7683 Oct 26 18:21 7683 Nov 14 05:26	16° £ 50'21 21° £ 42'03 0° M 2° M 36'27 28° M 42'54 0° ₹ 23° ₹ 44'33	1°38'48 1.32965 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	7682 Oct 19 18:31 7682 Oct 23 07:17 7682 Oct 27 19:56 7682 Nov 02 22:20 7682 Nov 08 01:50 7682 Nov 22 11:51 7682 Dec 01 17:20 7682 Dec 15 00:33	2°M12'57 9°M35'25 18°M38'37 0°メ 8°メ ² 49'25 0°उ 10°उ 26'18 17°उ 46'09	1°41'52 1.34250 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	7683 Oct 04 00:46 7683 Oct 06 06:49 7683 Oct 10 05:37 7683 Oct 11 12:20 7683 Oct 25 22:53 7683 Oct 26 18:21 7683 Nov 14 05:26 7683 Nov 23 01:45	16° \$\Delta 50'21\) 21° \$\Delta 42'03\) 0° \$\mathbb{m}\) 2° \$\mathbb{m} 36'27\) 28° \$\mathbb{m} 42'54\) 0° \$\mathscr{\sigma}\$ 23° \$\mathscr{\sigma} 44'33\) 0° \$\overline{\sigma}\$	1°38'48 1.32965 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	7682 Oct 19 18:31 7682 Oct 23 07:17 7682 Oct 27 19:56 7682 Nov 02 22:20 7682 Nov 08 01:50 7682 Nov 22 11:51 7682 Dec 01 17:20 7682 Dec 15 00:33 7682 Dec 21 17:31	2°M12'57 9°M35'25 18°M38'37 0°ダ 8°ダ49'25 0°उ 10°उ26'18 17°उ46'09 15°उ09'14	1°41'52 1.34250 AU 27°02'25	minimum elong max. Earth dist. evening rise desc. node	7683 Oct 04 00:46 7683 Oct 06 06:49 7683 Oct 10 05:37 7683 Oct 11 12:20 7683 Oct 25 22:53 7683 Oct 26 18:21 7683 Nov 14 05:26 7683 Nov 23 01:45 7683 Nov 27 20:55	16°至50'21 21°至42'03 0°肌 2°肌36'27 28°肌42'54 0°ズ 23°ズ44'33 0°उ 1°중03'04	1°38'48 1.32965 AU
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minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	7682 Oct 19 18:31 7682 Oct 23 07:17 7682 Oct 27 19:56 7682 Nov 02 22:20 7682 Nov 08 01:50 7682 Nov 22 11:51 7682 Dec 01 17:20 7682 Dec 15 00:33 7682 Dec 21 17:31 7682 Dec 25 16:21 7682 Dec 27 18:31 7682 Dec 27 20:27 7682 Dec 31 01:11 7683 Jan 03 00:37	2°M12'57 9°M35'25 18°M38'37 0°ダ 8°ダ49'25 0°G 10°G26'18 17°G46'09 15°G09'14 11°G19'03 8°G56'45 8°G51'15 5°G29'25 3°G21'49	1°41'52 1.34250 AU 27°02'25 0.65432 AU -1°06'12	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	7683 Oct 04 00:46 7683 Oct 06 06:49 7683 Oct 10 05:37 7683 Oct 11 12:20 7683 Oct 25 22:53 7683 Oct 26 18:21 7683 Nov 14 05:26 7683 Nov 23 01:45 7683 Nov 27 20:55 7683 Dec 02 09:21 7683 Dec 04 21:33 7683 Dec 08 15:40 7683 Dec 11 05:14 7683 Dec 11 09:21	16°至50'21 21°至42'03 0°肌 2°肌36'27 28°肌42'54 0°ズ 23°ズ44'33 0°亏 1°亏03'04 30°Rズ 28°ズ29'24 25°ズ11'24 22°ズ33'23 22°ズ22'47	1°38'48 1.32965 AU 27°27'09 0.63817 AU -2°13'03
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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. evening rise greatest brilliancy evening max el	7682 Oct 19 18:31 7682 Oct 23 07:17 7682 Oct 27 19:56 7682 Nov 02 22:20 7682 Nov 08 01:50 7682 Nov 22 11:51 7682 Dec 01 17:20 7682 Dec 15 00:33 7682 Dec 25 16:21 7682 Dec 27 18:31 7682 Dec 27 18:31 7682 Dec 27 20:27 7682 Dec 31 01:11 7683 Jan 03 00:37 7683 Jan 05 17:50 7683 Jan 12 04:38 7683 Jan 28 12:24 7683 Jan 30 13:33 7683 Feb 04 01:08 7683 Feb 14 06:49 7683 Feb 14 06:49 7683 Feb 16 04:12 7683 Feb 17 02:48 7683 Mar 02 11:28 7683 Mar 07 11:14 7683 Mar 15 08:00 7683 Mar 27 04:00 7683 Mar 29 00:15	2°M12'57 9°M35'25 18°M38'37 0° 8° 8° 8° 4'49'25 0° 5 10° 526'18 17° 546'09 15° 509'14 11° 519'03 8° 556'45 8° 551'15 5° 529'25 3° 521'49 2° 541'57 6° 507'48 0° 3° ≈20'59 10° ≈39'09 27° ≈01'18 26° ≈29'49 0° H 1° ¥28'45 22° ¥16'48 0° Y 12° Y00'29 27° Y45'26 29° Y28'01	1°41'52 1.34250 AU 27°02'25 0.65432 AU -1°06'12 1°05'16 18°06'30 -1°08'56 1°07'54 1.45377 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	7683 Oct 04 00:46 7683 Oct 06 06:49 7683 Oct 10 05:37 7683 Oct 11 12:20 7683 Oct 25 22:53 7683 Oct 26 18:21 7683 Nov 14 05:26 7683 Nov 23 01:45 7683 Nov 27 20:55 7683 Dec 02 09:21 7683 Dec 04 21:33 7683 Dec 08 15:40 7683 Dec 11 05:14 7683 Dec 11 05:14 7683 Dec 17 22:51 7683 Dec 17 22:51 7683 Dec 17 22:51 7683 Dec 20 09:16 7683 Dec 20 09:16 7684 Jan 03 07:36 7684 Jan 12 12:40 7684 Jan 21 03:01 7684 Jan 25 06:07 7684 Jan 25 06:07 7684 Jan 25 03:27 7684 Jan 30 21:28 7684 Feb 08 22:20 7684 Feb 09 22:57 7684 Feb 09 22:57	16°至50'21 21°至42'03 0°M 2°M.36'27 28°M.42'54 0°ズ 23°ズ44'33 0°℧ 1°℧03'04 30°Rズ 28°ズ29'24 22°ズ33'23 22°ズ22'47 17°ズ13'21 17°ズ13'59 16°ズ44'04 20°ズ07'40 0°℧ 15°℧26'33 0°≈ 1°≈19'10 6°≈47'59 6°≈37'10 15°≈52'32 0°升 1°米34'36 0°Υ	1°38'48 1.32965 AU 27°27'09 0.63817 AU -2°13'03 2°11'18 17°49'45 -0°23'55 0°23'25 1.44621 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 greatest brilliancy evening max el asc. node	7682 Oct 19 18:31 7682 Oct 23 07:17 7682 Oct 27 19:56 7682 Nov 02 22:20 7682 Nov 08 01:50 7682 Nov 22 11:51 7682 Dec 01 17:20 7682 Dec 15 00:33 7682 Dec 25 16:21 7682 Dec 27 18:31 7682 Dec 27 18:31 7682 Dec 27 18:31 7682 Dec 31 01:11 7683 Jan 03 00:37 7683 Jan 05 17:50 7683 Jan 12 04:38 7683 Jan 28 12:24 7683 Jan 30 13:33 7683 Feb 04 01:08 7683 Feb 14 06:49 7683 Feb 14 06:49 7683 Feb 15 02:50 7683 Feb 16 04:12 7683 Feb 17 02:48 7683 Mar 07 11:14 7683 Mar 07 11:14 7683 Mar 27 04:00 7683 Mar 29 00:15 7683 Mar 29 00:15	2°M12'57 9°M35'25 18°M38'37 0° 8° 8° 8° 4'49'25 0° 5 10° 526'18 17° 546'09 15° 509'14 11° 519'03 8° 556'45 8° 551'15 5° 529'25 3° 521'49 2° 541'57 6° 507'48 0° 3° 220'59 10° 39'09 27° 27° 10° 1° 1° 1° 12° 12° 12° 12° 12° 12° 12° 1	1°41'52 1.34250 AU 27°02'25 0.65432 AU -1°06'12 1°05'16 18°06'30 -1°08'56 1°07'54 1.45377 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el	7683 Oct 04 00:46 7683 Oct 06 06:49 7683 Oct 10 05:37 7683 Oct 11 12:20 7683 Oct 25 22:53 7683 Oct 26 18:21 7683 Nov 14 05:26 7683 Nov 23 01:45 7683 Nov 27 20:55 7683 Dec 02 09:21 7683 Dec 04 21:33 7683 Dec 08 15:40 7683 Dec 11 05:14 7683 Dec 11 09:21 7683 Dec 17 22:51 7683 Dec 17 22:51 7683 Dec 17 22:51 7683 Dec 20 09:16 7683 Dec 20 09:16 7683 Dec 17 22:13 7683 Dec 17 22:13 7684 Jan 03 07:36 7684 Jan 12 12:40 7684 Jan 21 03:01 7684 Jan 21 03:01 7684 Jan 25 06:07 7684 Jan 25 06:07 7684 Jan 30 21:28 7684 Feb 08 22:20 7684 Feb 09 22:57 7684 Feb 29 02:41 7684 Mar 09 06:03	16° 年50'21 21° 年42'03 0° M 2° M.36'27 28° M.42'54 0° ズ 23° ズ44'33 0° G 1° 503'04 30° Rズ 28° ズ29'24 22° ズ33'23 22° ズ22'47 17° ズ13'21 17° ズ13'59 16° ズ44'04 20° ズ07'40 0° G 15° 526'33 0° ※ 1° ※19'10 6° ※37'10 15° ※52'32 0° 升 1° 升34'36 0° Υ 11° Υ23'19	1°38'48 1.32965 AU 27°27'09 0.63817 AU -2°13'03 2°11'18 17°49'45 -0°23'55 0°23'25 1.44621 AU

	760434 21 07 20	1.40000.5150			7.0534 01 05 40	00000	
evening set	7684 Mar 21 07:38	14° Ƴ 35'59		retrograde	7685 Mar 01 05:48	0° Y 27'18	
inferior conj	7684 Mar 26 15:25	8° Y 28'29	3°04'32	asc. node	7685 Mar 01 18:22	0° Y 25′53	
minimum elong	7684 Mar 26 13:36	8° Y 34'42	3°04'12		7685 Mar 03 12:05	30° ₹	
min. Earth dist.	7684 Mar 27 06:50	7° Y 35'42	0.67804 AU	evening set	7685 Mar 05 15:40	28°) 40′56	
morning rise	7684 Mar 31 19:22	2° Y 13'10		inferior conj	7685 Mar 10 23:18	22° ¥ 22'54	2°38'13
	7684 Apr 04 12:26	30°R) €		minimum elong	7685 Mar 10 21:04	22°)(30'41	2°37'41
1		**		C			
direct	7684 Apr 06 09:09	29°) (44'12		min. Earth dist.	7685 Mar 11 01:54	22°) 13′50	0.68282 AU
	7684 Apr 08 07:56	0° Υ		morning rise	7685 Mar 16 02:18	16° ∺ 11'01	
morning max el	7684 Apr 17 13:30	6° Y 25′31	24°15'46	direct	7685 Mar 21 01:58	14° ∺ 01'58	
desc. node	7684 Apr 18 21:42	7° Ƴ 49'29		morning max el	7685 Mar 30 23:36	19° ¥ 52'58	22°46'07
	7684 May 05 20:25	0°8		desc. node	7685 Apr 05 18:39	26°) €27'40	
morning set	7684 May 23 07:01	27° 8 56'04			7685 Apr 08 13:11	0° Υ	
morning set	•	0°П			•	0°8	
	7684 May 24 11:24				7685 Apr 29 01:07	_	
max. Earth dist.	7684 May 26 23:01	4° ∏ 24'51	1.37919 AU	morning set	7685 May 04 05:03	8° 8 21'05	
				max. Earth dist.	7685 May 08 19:45	16° 8 05'41	1.40161 AU
superior conj	7684 Jun 03 00:59	17° Ⅲ 34'30	-1°12'03				
minimum elong	7684 Jun 03 05:20	17° Ⅲ 55'22	1°11'27	superior conj	7685 May 16 14:09	29° 8 47'59	-1°40'46
C	7684 Jun 09 09:26	0ം ഉ		minimum elong	7685 May 16 19:46	0° Ⅱ 13'34	1°40'14
asc. node	7684 Jun 10 20:24	2° © 53'17		g	7685 May 16 16:47	0°II	1 .01.
					•		
evening rise	7684 Jun 11 20:02	4° © 50'17		evening rise	7685 May 26 11:18	18° Ⅱ 18'05	
	7684 Jun 26 17:51	$0 {\circ} \Omega$		asc. node	7685 May 28 17:27	22° Ⅲ 34'11	
evening max el	7684 Jun 28 09:09	1° Ω 45'07	19°05'52		7685 Jun 01 18:30	0ංම	
retrograde	7684 Jul 07 05:54	6° Ω 07'36		evening max el	7685 Jun 11 13:21	14°9508'15	18°26'47
evening set	7684 Jul 09 04:18	5° Ω 55'58		retrograde	7685 Jun 19 03:09	17° © 54'50	
desc. node	7684 Jul 15 21:02	2° Ω 50'37		evening set	7685 Jun 21 07:53	17°936'41	
			0000106	=			1005105
inferior conj	7684 Jul 17 13:20	1° Ω 43'05		inferior conj	7685 Jun 28 20:59	13° © 03'59	1°07'27
minimum elong	7684 Jul 17 12:01	1° Ω 45′20	0°30'12	minimum elong	7685 Jun 28 23:14	12° © 59'28	1°06'34
	7684 Jul 20 01:47	30° ₹ ∽		min. Earth dist.	7685 Jul 02 06:04	10°\$22'42	0.58171 AU
min. Earth dist.	7684 Jul 20 10:55	29°5544'53	0.56283 AU	desc. node	7685 Jul 02 18:04	10°900'12	
morning rise	7684 Jul 25 16:39	26°\$53'32		morning rise	7685 Jul 06 11:13	7°938'44	
•				•			
direct	7684 Jul 30 21:26	25° © 50'33		direct	7685 Jul 12 11:01	6°905'44	
	7684 Aug 10 11:05	$0 {\circ} \Omega$		morning max el	7685 Jul 26 20:26	13° © 46'41	27°02'15
morning max el	7684 Aug 14 02:16	3° Ω 06'42	25°44'02		7685 Aug 08 18:28	0 $^{\circ}$ Ω	
	7684 Sep 02 05:02	o° mp		asc. node	7685 Aug 24 16:48	28° Ω 37'02	
asc. node	7684 Sep 06 19:48	8° m 50'45			7685 Aug 25 08:44	o∘ mp	
morning set	7684 Sep 10 15:09	16° Mp 43'35		morning set	7685 Aug 26 00:28	1° m) 22'43	
morning set	•			morning set	7003 Aug 20 00.20	1 11/2243	
	7684 Sep 16 17:07	0∘ ⊽					
				superior conj	7685 Sep 02 00:13	16° My 37'26	1°16'05
superior conj	7684 Sep 17 12:25	1° ≏ 46'28	1°30'04	minimum elong	7685 Sep 01 21:58	16° Mp 25′00	1°15'43
minimum elong	7684 Sep 17 10:32	1° ≏ 36'05	1°29'52	max. Earth dist.	7685 Sep 01 23:23	16° Mp 32'48	1.31733 AU
max. Earth dist.	7684 Sep 18 13:17	4° ₽ 03'26	1.32126 AU		7685 Sep 08 02:40	0∘ ⊽	
evening rise	,						
evening rise	7684 San 24 13:06	16° Q 56'11		avaning risa	•	10030124	
	7684 Sep 24 13:06	16° £ 56'11		evening rise	7685 Sep 08 19:38	1° 2 30′24	
	7684 Oct 01 03:33	0°M		C	7685 Sep 08 19:38 7685 Sep 24 03:56	0° M	
desc. node	7684 Oct 01 03:33 7684 Oct 11 19:59			evening rise desc. node	7685 Sep 08 19:38		
desc. node	7684 Oct 01 03:33	0°M		C	7685 Sep 08 19:38 7685 Sep 24 03:56	0° M	26°41'39
desc. node evening max el	7684 Oct 01 03:33 7684 Oct 11 19:59	0° ጤ 18° ጤ 05'14	27°21'19	desc. node evening max el	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04	0°ጤ 6°ጤ43'51	26°41'39
evening max el	7684 Oct 01 03:33 7684 Oct 11 19:59 7684 Oct 20 13:42 7684 Oct 26 14:13	0°M 18°M05'14 0°⊀ 6°⊀29'54	27°21'19	desc. node evening max el retrograde	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04 7685 Oct 08 16:49 7685 Oct 22 14:37	0°M 6°M43'51 18°M29'33 25°M37'33	26°41'39
evening max el retrograde	7684 Oct 01 03:33 7684 Oct 11 19:59 7684 Oct 20 13:42 7684 Oct 26 14:13 7684 Nov 09 09:53	0°M 18°M05'14 0°⊀ 6°⊀29'54 13°⊀43'07	27°21'19	desc. node evening max el retrograde evening set	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04 7685 Oct 08 16:49 7685 Oct 22 14:37 7685 Oct 29 10:12	0°M 6°M43'51 18°M29'33 25°M37'33 23°M40'28	
evening max el retrograde evening set	7684 Oct 01 03:33 7684 Oct 11 19:59 7684 Oct 20 13:42 7684 Oct 26 14:13 7684 Nov 09 09:53 7684 Nov 16 12:33	0°M 18°M05'14 0°⊀ 6°⊀29'54 13°⊀43'07 11°⊀22'16		desc. node evening max el retrograde evening set min. Earth dist.	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04 7685 Oct 08 16:49 7685 Oct 22 14:37 7685 Oct 29 10:12 7685 Nov 02 06:38	0°M 6°M43'51 18°M29'33 25°M37'33 23°M40'28 21°M04'38	0.59849 AU
evening max el retrograde evening set min. Earth dist.	7684 Oct 01 03:33 7684 Oct 11 19:59 7684 Oct 20 13:42 7684 Oct 26 14:13 7684 Nov 09 09:53 7684 Nov 16 12:33 7684 Nov 20 04:37	0°M 18°M05'14 0°♂ 6°√2'29'54 13°√2'43'07 11°√2'22'16 8°√3'31'00	0.61919 AU	desc. node evening max el retrograde evening set min. Earth dist. inferior conj	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04 7685 Oct 08 16:49 7685 Oct 22 14:37 7685 Oct 29 10:12 7685 Nov 02 06:38 7685 Nov 05 11:36	0°M 6°M43'51 18°M29'33 25°M37'33 23°M40'28 21°M04'38 18°M31'25	0.59849 AU -4°26'03
evening max el retrograde evening set min. Earth dist. inferior conj	7684 Oct 01 03:33 7684 Oct 11 19:59 7684 Oct 20 13:42 7684 Oct 26 14:13 7684 Nov 09 09:53 7684 Nov 16 12:33 7684 Nov 20 04:37 7684 Nov 23 04:06	0°M 18°M05'14 0°√ 6°√29'54 13°√43'07 11°√22'16 8°√31'00 5°√48'10	0.61919 AU -3°21'42	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04 7685 Oct 08 16:49 7685 Oct 22 14:37 7685 Oct 29 10:12 7685 Nov 02 06:38 7685 Nov 05 11:36 7685 Nov 05 18:43	0°M 6°M43'51 18°M29'33 25°M37'33 23°M40'28 21°M04'38 18°M31'25 18°M17'13	0.59849 AU
evening max el retrograde evening set min. Earth dist.	7684 Oct 01 03:33 7684 Oct 11 19:59 7684 Oct 20 13:42 7684 Oct 26 14:13 7684 Nov 09 09:53 7684 Nov 16 12:33 7684 Nov 20 04:37	0°M 18°M05'14 0°♂ 6°√2'29'54 13°√2'43'07 11°√2'22'16 8°√3'31'00	0.61919 AU -3°21'42	desc. node evening max el retrograde evening set min. Earth dist. inferior conj	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04 7685 Oct 08 16:49 7685 Oct 22 14:37 7685 Oct 29 10:12 7685 Nov 02 06:38 7685 Nov 05 11:36	0°M 6°M43'51 18°M29'33 25°M37'33 23°M40'28 21°M04'38 18°M31'25	0.59849 AU -4°26'03
evening max el retrograde evening set min. Earth dist. inferior conj	7684 Oct 01 03:33 7684 Oct 11 19:59 7684 Oct 20 13:42 7684 Oct 26 14:13 7684 Nov 09 09:53 7684 Nov 16 12:33 7684 Nov 20 04:37 7684 Nov 23 04:06	0°M 18°M05'14 0°√ 6°√29'54 13°√43'07 11°√22'16 8°√31'00 5°√48'10	0.61919 AU -3°21'42	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04 7685 Oct 08 16:49 7685 Oct 22 14:37 7685 Oct 29 10:12 7685 Nov 02 06:38 7685 Nov 05 11:36 7685 Nov 05 18:43	0°M 6°M43'51 18°M29'33 25°M37'33 23°M40'28 21°M04'38 18°M31'25 18°M17'13	0.59849 AU -4°26'03
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	7684 Oct 01 03:33 7684 Oct 11 19:59 7684 Oct 20 13:42 7684 Oct 26 14:13 7684 Nov 09 09:53 7684 Nov 16 12:33 7684 Nov 20 04:37 7684 Nov 23 04:06 7684 Nov 23 10:17	0°M 18°M05'14 0°\$\mathred{\textit{7}} 6°\$\mathred{\textit{7}}29'54 13°\$\mathred{\textit{7}}43'07 11°\$\mathred{\textit{7}}22'16 8°\$\mathred{\textit{7}}31'00 5°\$\mathred{\textit{7}}48'10 5°\$\mathred{\textit{7}}34'02	0.61919 AU -3°21'42	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04 7685 Oct 08 16:49 7685 Oct 22 14:37 7685 Oct 29 10:12 7685 Nov 02 06:38 7685 Nov 05 11:36 7685 Nov 05 18:43 7685 Nov 13 05:32	0°M 6°M43'51 18°M29'33 25°M37'33 23°M40'28 21°M04'38 18°M31'25 18°M17'13	0.59849 AU -4°26'03
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	7684 Oct 01 03:33 7684 Oct 11 19:59 7684 Oct 20 13:42 7684 Oct 26 14:13 7684 Nov 09 09:53 7684 Nov 16 12:33 7684 Nov 20 04:37 7684 Nov 23 04:06 7684 Nov 23 10:17 7684 Nov 30 10:07 7684 Dec 02 16:30	0°M 18°M05'14 0°\$\tilde{x}\) 6°\$\tilde{x}\)29'54 13°\$\tilde{x}\)43'07 11°\$\tilde{x}\)22'16 8°\$\tilde{x}\)31'00 5°\$\tilde{x}\)48'10 5°\$\tilde{x}\)34'02 0°\$\tilde{x}\)46'34 0°\$\tilde{x}\)24'17	0.61919 AU -3°21'42	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04 7685 Oct 08 16:49 7685 Oct 22 14:37 7685 Oct 29 10:12 7685 Nov 02 06:38 7685 Nov 05 11:36 7685 Nov 05 18:43 7685 Nov 13 05:32 7685 Nov 15 11:20 7685 Nov 20 16:16	0°M. 6°M.43'51 18°M.29'33 25°M.37'33 23°M.40'28 21°M.04'38 18°M.31'25 18°M.17'13 13°M.51'36 13°M.33'06 15°M.18'37	0.59849 AU -4°26'03 4°24'09
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	7684 Oct 01 03:33 7684 Oct 11 19:59 7684 Oct 20 13:42 7684 Oct 26 14:13 7684 Nov 09 09:53 7684 Nov 16 12:33 7684 Nov 20 04:37 7684 Nov 23 04:06 7684 Nov 23 10:17 7684 Nov 30 10:07 7684 Dec 02 16:30 7684 Dec 03 19:14	0°M. 18°M.05'14 0°\$\tilde{x}\$ 6°\$\tilde{x}\$^29'54 13°\$\tilde{x}\$^43'07 11°\$\tilde{x}\$^22'16 8°\$\tilde{x}\$^31'00 5°\$\tilde{x}\$^48'10 5°\$\tilde{x}\$^34'02 0°\$\tilde{x}\$^46'34 0°\$\tilde{x}\$^22'17 0°\$\tilde{x}\$^29'50	0.61919 AU -3°21'42 3°19'29	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04 7685 Oct 08 16:49 7685 Oct 22 14:37 7685 Oct 29 10:12 7685 Nov 02 06:38 7685 Nov 05 11:36 7685 Nov 05 18:43 7685 Nov 13 05:32 7685 Nov 15 11:20 7685 Nov 20 16:16 7685 Nov 23 02:08	0°M. 6°M.43'51 18°M.29'33 25°M.37'33 23°M.40'28 21°M.04'38 18°M.31'25 18°M.17'13 13°M.51'36 13°M.33'06 15°M.18'37 17°M.18'12	0.59849 AU -4°26'03
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	7684 Oct 01 03:33 7684 Oct 11 19:59 7684 Oct 20 13:42 7684 Oct 26 14:13 7684 Nov 09 09:53 7684 Nov 16 12:33 7684 Nov 20 04:37 7684 Nov 23 04:06 7684 Nov 23 10:17 7684 Nov 30 10:07 7684 Dec 02 16:30 7684 Dec 03 19:14 7684 Dec 09 14:06	0°M. 18°M.05'14 0°\$\tilde{X}^129'54 13°\$\tilde{X}^143'07 11°\$\tilde{X}^22'16 8°\$\tilde{X}^31'00 5°\$\tilde{X}^448'10 5°\$\tilde{X}^34'02 0°\$\tilde{X}^46'34 0°\$\tilde{X}^224'17 0°\$\tilde{X}^229'50 3°\$\tilde{X}^54'12	0.61919 AU -3°21'42	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04 7685 Oct 08 16:49 7685 Oct 22 14:37 7685 Oct 29 10:12 7685 Nov 02 06:38 7685 Nov 05 11:36 7685 Nov 05 18:43 7685 Nov 13 05:32 7685 Nov 15 11:20 7685 Nov 20 16:16 7685 Nov 23 02:08 7685 Dec 02 02:40	0°M. 6°M.43'51 18°M.29'33 25°M.37'33 23°M.40'28 21°M.04'38 18°M.31'25 18°M.17'13 13°M.51'36 13°M.33'06 15°M.18'37 17°M.18'12 0° ✓	0.59849 AU -4°26'03 4°24'09
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evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	7684 Oct 01 03:33 7684 Oct 11 19:59 7684 Oct 20 13:42 7684 Oct 26 14:13 7684 Nov 09 09:53 7684 Nov 16 12:33 7684 Nov 20 04:37 7684 Nov 23 04:06 7684 Nov 23 10:17 7684 Nov 30 10:07 7684 Dec 02 16:30 7684 Dec 03 19:14 7684 Dec 09 14:06	0°M. 18°M.05'14 0°\$\tilde{X}^129'54 13°\$\tilde{X}^143'07 11°\$\tilde{X}^22'16 8°\$\tilde{X}^31'00 5°\$\tilde{X}^448'10 5°\$\tilde{X}^34'02 0°\$\tilde{X}^46'34 0°\$\tilde{X}^224'17 0°\$\tilde{X}^229'50 3°\$\tilde{X}^54'12	0.61919 AU -3°21'42 3°19'29	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04 7685 Oct 08 16:49 7685 Oct 22 14:37 7685 Oct 29 10:12 7685 Nov 02 06:38 7685 Nov 05 11:36 7685 Nov 05 18:43 7685 Nov 13 05:32 7685 Nov 15 11:20 7685 Nov 20 16:16 7685 Nov 23 02:08 7685 Dec 02 02:40	0°M. 6°M.43'51 18°M.29'33 25°M.37'33 23°M.40'28 21°M.04'38 18°M.31'25 18°M.17'13 13°M.51'36 13°M.33'06 15°M.18'37 17°M.18'12 0° ✓	0.59849 AU -4°26'03 4°24'09
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evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	7684 Oct 01 03:33 7684 Oct 11 19:59 7684 Oct 20 13:42 7684 Oct 26 14:13 7684 Nov 09 09:53 7684 Nov 16 12:33 7684 Nov 20 04:37 7684 Nov 23 04:06 7684 Nov 23 10:17 7684 Nov 30 10:07 7684 Dec 02 16:30 7684 Dec 03 19:14 7684 Dec 09 14:06 7684 Dec 25 08:56 7684 Dec 26 04:20 7685 Jan 05 06:59 7685 Jan 05 06:59 7685 Jan 05 08:38 7685 Jan 07 19:06	0°M 18°M05'14 0°ズ 6°ズ29'54 13°ズ43'07 11°ズ22'16 8°ズ31'00 5°ズ48'10 5°ズ34'02 0°ズ46'34 0°ズ24'17 0°ズ29'50 3°ズ54'12 28°ズ32'43 0°उ 17°云56'19 22°云04'06	0.61919 AU -3°21'42 3°19'29 17°51'06 0°18'17 0°18'09	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04 7685 Oct 08 16:49 7685 Oct 22 14:37 7685 Oct 29 10:12 7685 Nov 02 06:38 7685 Nov 05 11:36 7685 Nov 15 11:20 7685 Nov 15 11:20 7685 Nov 20 16:16 7685 Nov 20 02:08 7685 Dec 02 02:40 7685 Dec 08 20:11 7685 Dec 18 08:15 7685 Dec 18 08:11 7685 Dec 25 16:07	0°M. 6°M.43'51 18°M.29'33 25°M.37'33 23°M.40'28 21°M.04'38 18°M.31'25 18°M.17'13 13°M.51'36 13°M.33'06 15°M.18'37 17°M.18'12 0° ♂ 20'19 0° ♂ 500'15 0° ♂ 15'35 0° ♂ 12° ♂ 549'49	0.59849 AU -4°26'03 4°24'09 18°11'40 0°52'27 0°52'05
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	7684 Oct 01 03:33 7684 Oct 11 19:59 7684 Oct 20 13:42 7684 Oct 26 14:13 7684 Nov 09 09:53 7684 Nov 16 12:33 7684 Nov 20 04:37 7684 Nov 23 04:06 7684 Nov 23 10:17 7684 Nov 30 10:07 7684 Dec 02 16:30 7684 Dec 03 19:14 7684 Dec 09 14:06 7684 Dec 25 08:56 7684 Dec 26 04:20 7685 Jan 05 06:59 7685 Jan 05 06:59 7685 Jan 07 19:06 7685 Jan 07 19:06 7685 Jan 07 19:06	0°M 18°M05'14 0°ズ 6°ズ29'54 13°ズ43'07 11°ズ22'16 8°ズ31'00 5°ズ48'10 5°ズ46'34 0°ズ24'17 0°ズ29'50 3°ズ54'12 28°ズ32'43 0°℧	0.61919 AU -3°21'42 3°19'29 17°51'06 0°18'17 0°18'09	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04 7685 Oct 08 16:49 7685 Oct 22 14:37 7685 Oct 29 10:12 7685 Nov 02 06:38 7685 Nov 05 11:36 7685 Nov 13 05:32 7685 Nov 15 11:20 7685 Nov 20 16:16 7685 Nov 20 02:08 7685 Dec 02 02:40 7685 Dec 08 20:11 7685 Dec 18 08:15 7685 Dec 18 08:11 7685 Dec 25 16:07 7685 Dec 25 23:41	0°M. 6°M.43'51 18°M.29'33 25°M.37'33 23°M.40'28 21°M.04'38 18°M.31'25 18°M.17'13 13°M.51'36 13°M.33'06 15°M.18'37 17°M.18'12 0° ♂ 20'19 0°♂00'15 0°♂15'35 0°♂ 12°♂49'49 13°♂21'48	0.59849 AU -4°26'03 4°24'09 18°11'40 0°52'27 0°52'05
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	7684 Oct 01 03:33 7684 Oct 11 19:59 7684 Oct 20 13:42 7684 Oct 26 14:13 7684 Nov 09 09:53 7684 Nov 16 12:33 7684 Nov 20 04:37 7684 Nov 23 04:06 7684 Nov 23 10:17 7684 Nov 30 10:07 7684 Dec 02 16:30 7684 Dec 03 19:14 7684 Dec 09 14:06 7684 Dec 25 08:56 7684 Dec 26 04:20 7685 Jan 05 06:59 7685 Jan 05 06:59 7685 Jan 07 19:06 7685 Jan 12 13:09 7685 Jan 12 14:09 7685 Jan 19 14:12	0°M. 18°M.05'14 0° ₹ 6° ₹29'54 13° ₹43'07 11° ₹22'16 8° ₹31'00 5° ₹48'10 5° ₹46'34 0° ₹24'17 0° ₹29'50 3° ₹54'12 28° ₹32'43 0° ₹ 17° ₹56'19 22° ₹04'06 29° ₹55'56 0° ≈ 11° ≈09'52	0.61919 AU -3°21'42 3°19'29 17°51'06 0°18'17 0°18'09	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04 7685 Oct 08 16:49 7685 Oct 22 14:37 7685 Oct 29 10:12 7685 Nov 02 06:38 7685 Nov 05 11:36 7685 Nov 05 18:43 7685 Nov 13 05:32 7685 Nov 13 05:32 7685 Nov 20 16:16 7685 Nov 20 16:16 7685 Nov 20 02:08 7685 Dec 02 02:40 7685 Dec 08 20:11 7685 Dec 18 08:15 7685 Dec 18 08:15 7685 Dec 18 08:11 7685 Dec 25 16:07 7685 Dec 25 23:41 7685 Dec 30 21:49 7686 Jan 05 05:54	0°M. 6°M43'51 18°M29'33 25°M37'33 23°M40'28 21°M04'38 18°M31'25 18°M17'13 13°M51'36 13°M33'06 15°M18'37 17°M18'12 0° 20'37 12° 20'19 0° 30'501'15 0° 12° 31'03 0° 30' 30' 30' 30' 30' 30' 30	0.59849 AU -4°26'03 4°24'09 18°11'40 0°52'27 0°52'05
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	7684 Oct 01 03:33 7684 Oct 11 19:59 7684 Oct 20 13:42 7684 Oct 26 14:13 7684 Nov 09 09:53 7684 Nov 16 12:33 7684 Nov 20 04:37 7684 Nov 23 04:06 7684 Nov 23 10:17 7684 Nov 30 10:07 7684 Dec 02 16:30 7684 Dec 03 19:14 7684 Dec 09 14:06 7684 Dec 25 08:56 7684 Dec 26 04:20 7685 Jan 05 06:59 7685 Jan 05 06:59 7685 Jan 07 19:06 7685 Jan 12 13:09 7685 Jan 12 14:09 7685 Jan 19 14:12 7685 Feb 01 01:07	0°M. 18°M.05'14 0°ズ 6°ズ29'54 13°ズ43'07 11°ズ22'16 8°ズ31'00 5°ズ48'10 5°ズ48'10 5°ズ46'34 0°ズ24'17 0°ズ29'50 3°ズ54'12 28°ズ32'43 0°उ 17°उ49'15 17°उ56'19 22°उ04'06 29°उ55'56 0°≈ 11°≈09'52 0°光	0.61919 AU -3°21'42 3°19'29 17°51'06 0°18'17 0°18'09 1.43220 AU	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04 7685 Oct 08 16:49 7685 Oct 22 14:37 7685 Oct 29 10:12 7685 Nov 02 06:38 7685 Nov 05 11:36 7685 Nov 05 18:43 7685 Nov 13 05:32 7685 Nov 15 11:20 7685 Nov 20 16:16 7685 Nov 20 16:16 7685 Nov 20 02:40 7685 Dec 02 02:40 7685 Dec 18 08:15 7685 Dec 18 08:15 7685 Dec 18 08:11 7685 Dec 25 23:41 7685 Dec 30 21:49 7686 Jan 05 05:54 7686 Sep 28 17:04	0°M. 6°M43'51 18°M29'33 25°M37'33 23°M40'28 21°M04'38 18°M31'25 18°M17'13 13°M51'36 13°M33'06 15°M18'37 17°M18'12 0° 20'37 12° 20'19 0° 300'15 0° 315'35 0° 32'349'49 13° 321'48 21° 331'03 0° % 0° %	0.59849 AU -4°26'03 4°24'09 18°11'40 0°52'27 0°52'05 1.41339 AU
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	7684 Oct 01 03:33 7684 Oct 11 19:59 7684 Oct 20 13:42 7684 Oct 26 14:13 7684 Nov 09 09:53 7684 Nov 16 12:33 7684 Nov 20 04:37 7684 Nov 23 04:06 7684 Nov 23 10:17 7684 Nov 30 10:07 7684 Dec 02 16:30 7684 Dec 03 19:14 7684 Dec 09 14:06 7684 Dec 25 08:56 7684 Dec 26 04:20 7685 Jan 05 06:59 7685 Jan 05 06:59 7685 Jan 12 13:09 7685 Jan 12 14:09 7685 Jan 19 14:12 7685 Feb 01 01:07 7685 Feb 20 02:41	0°M. 18°M.05'14 0°ズ 6°ズ29'54 13°ズ43'07 11°ズ22'16 8°ズ31'00 5°ズ48'10 5°ズ48'10 5°ズ46'34 0°ズ24'17 0°ズ29'50 3°ズ54'12 28°ズ32'43 0°उ 17°उ49'15 17°उ56'19 22°उ04'06 29°उ55'56 0°≈ 11°≈09'52 0°升 25°米02'46	0.61919 AU -3°21'42 3°19'29 17°51'06 0°18'17 0°18'09 1.43220 AU	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04 7685 Oct 08 16:49 7685 Oct 22 14:37 7685 Oct 29 10:12 7685 Nov 02 06:38 7685 Nov 05 11:36 7685 Nov 05 18:43 7685 Nov 13 05:32 7685 Nov 15 11:20 7685 Nov 20 16:16 7685 Nov 20 16:16 7685 Nov 23 02:08 7685 Dec 02 02:40 7685 Dec 08 20:11 7685 Dec 18 08:15 7685 Dec 18 08:15 7685 Dec 18 08:11 7685 Dec 25 16:07 7685 Dec 25 23:41 7685 Dec 30 21:49 7686 Jan 05 05:54 7686 Jan 26 05:20 7686 Feb 02 18:50	0°M. 6°M43'51 18°M29'33 25°M37'33 23°M40'28 21°M04'38 18°M31'25 18°M17'13 13°M51'36 13°M33'06 15°M18'37 17°M18'12 0°ズ 12°ズ20'19 0°ろ00'15 0°ろ15'35 0°ろ 12°ス49'49 13°ろ21'48 21°ろ31'03 0°≈ 0°米 8°光43'57	0.59849 AU -4°26'03 4°24'09 18°11'40 0°52'27 0°52'05 1.41339 AU
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	7684 Oct 01 03:33 7684 Oct 11 19:59 7684 Oct 20 13:42 7684 Oct 26 14:13 7684 Nov 09 09:53 7684 Nov 16 12:33 7684 Nov 20 04:37 7684 Nov 23 04:06 7684 Nov 23 10:17 7684 Nov 30 10:07 7684 Dec 02 16:30 7684 Dec 03 19:14 7684 Dec 09 14:06 7684 Dec 25 08:56 7684 Dec 26 04:20 7685 Jan 05 06:59 7685 Jan 05 06:59 7685 Jan 07 19:06 7685 Jan 12 13:09 7685 Jan 12 14:09 7685 Jan 19 14:12 7685 Feb 01 01:07	0°M. 18°M.05'14 0°ズ 6°ズ29'54 13°ズ43'07 11°ズ22'16 8°ズ31'00 5°ズ48'10 5°ズ48'10 5°ズ46'34 0°ズ24'17 0°ズ29'50 3°ズ54'12 28°ズ32'43 0°उ 17°उ49'15 17°उ56'19 22°उ04'06 29°उ55'56 0°≈ 11°≈09'52 0°光	0.61919 AU -3°21'42 3°19'29 17°51'06 0°18'17 0°18'09 1.43220 AU	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	7685 Sep 08 19:38 7685 Sep 24 03:56 7685 Sep 28 17:04 7685 Oct 08 16:49 7685 Oct 22 14:37 7685 Oct 29 10:12 7685 Nov 02 06:38 7685 Nov 05 11:36 7685 Nov 05 18:43 7685 Nov 13 05:32 7685 Nov 15 11:20 7685 Nov 20 16:16 7685 Nov 20 16:16 7685 Nov 20 02:40 7685 Dec 02 02:40 7685 Dec 18 08:15 7685 Dec 18 08:15 7685 Dec 18 08:11 7685 Dec 25 23:41 7685 Dec 30 21:49 7686 Jan 05 05:54 7686 Sep 28 17:04	0°M. 6°M43'51 18°M29'33 25°M37'33 23°M40'28 21°M04'38 18°M31'25 18°M17'13 13°M51'36 13°M33'06 15°M18'37 17°M18'12 0° 20'37 12° 20'19 0° 300'15 0° 315'35 0° 32'349'49 13° 321'48 21° 331'03 0° % 0° %	0.59849 AU -4°26'03 4°24'09 18°11'40 0°52'27 0°52'05 1.41339 AU

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asc. node	7686 Feb 16 15:27	13°) 44'44			7686 Dec 29 11:03	0° ≈	
		13 X 44 44 12° X 47'50		avanina may al			24922142
evening set	7686 Feb 17 22:40	6°¥22'33	2002100	evening max el	7687 Jan 16 08:30	22°≈28'43	24°22'43
inferior conj	7686 Feb 23 07:53		2°03'00	retrograde	7687 Jan 27 17:20	29°≈08'23	
minimum elong	7686 Feb 23 05:40	6° ∺ 30′13	2°02'21	evening set	7687 Feb 02 03:07	26° ≈ 53'07	
min. Earth dist.	7686 Feb 22 22:38	6°) 54'31	0.68341 AU	asc. node	7687 Feb 03 12:30	25° ≈ 33'27	
morning rise	7686 Feb 28 12:35	0° ₩ 15'21		min. Earth dist.	7687 Feb 06 18:46	21° ≈ 33'52	0.68006 AU
	7686 Feb 28 20:23	30°R ≈		inferior conj	7687 Feb 07 15:20	20° ≈ 24'48	1°19'34
direct	7686 Mar 04 22:09	28° ≈ 28'42		minimum elong	7687 Feb 07 13:37	20° ≈ 30'35	1°19'00
	7686 Mar 09 09:28	0° ℋ		morning rise	7687 Feb 13 00:13	14° ≈ 23'45	
morning max el	7686 Mar 13 14:21	3° ¥ 29'58	21°21'04	direct	7687 Feb 16 20:32	12° ≈ 59'11	
desc. node	7686 Mar 23 15:38	15°) 46′28		morning max el	7687 Feb 24 12:21	17° ≈ 18'42	20°06'55
	7686 Apr 02 13:34	$0^{\circ}\mathbf{\Upsilon}$			7687 Mar 06 15:32	0° ∀	
morning set	7686 Apr 13 23:25	17° Ƴ 29'32		desc. node	7687 Mar 10 12:37	5°) 34'59	
max. Earth dist.	7686 Apr 20 21:23	28° Ƴ 37'36	1.42266 AU	morning set	7687 Mar 23 22:21	25°) 48′56	
	7686 Apr 21 17:24	0°8			7687 Mar 26 15:10	0° Υ	
	700011p1 21 17.21	٠ ٠		max. Earth dist.	7687 Apr 03 06:05	12° Υ 00'45	1.43976 AU
superior conj	7686 Apr 28 06:42	11° 8 03'17	2002/31	max. Earth dist.	7007 Apr 03 00.03	12 10045	1.43770710
	•				7(07 A 00 22.51	21° Y 13'53	2011126
minimum elong	7686 Apr 28 11:26	11° 8 23'42	2-02-19	superior conj	7687 Apr 08 22:51		
	7686 May 08 22:46	0°II		minimum elong	7687 Apr 08 22:59	21°Υ14'25	2°11'28
evening rise	7686 May 09 13:19	1° Ⅱ 05'58			7687 Apr 14 05:42	0°8	
asc. node	7686 May 15 14:30	11° Ⅱ 56'46		evening rise	7687 Apr 21 21:33	13° 8 04'06	
evening max el	7686 May 25 23:46	27° Ⅱ 01'29	18°07'50		7687 May 01 21:41	Π $\circ 0$	
	7686 May 30 07:11	0 \circ \odot		asc. node	7687 May 02 11:33	0° Ⅱ 54'46	
retrograde	7686 Jun 01 18:10	0° 5 27'49		evening max el	7687 May 09 12:53	10° Ⅱ 15'54	18°08'05
evening set	7686 Jun 04 06:19	29° Ⅱ 59'52		retrograde	7687 May 15 22:44	13° Ⅱ 36'57	
	7686 Jun 04 06:10	30° Ŗ Ⅱ		evening set	7687 May 18 18:09	12° Ⅱ 56'53	
inferior conj	7686 Jun 11 01:30	25° Ⅱ 06'59	2°17'09	inferior conj	7687 May 24 23:16	7° Ⅱ 44'53	2°59'59
minimum elong	7686 Jun 11 04:38	24° ∏ 59'41	2°16'13	minimum elong	7687 May 25 01:38	7° Ⅱ 38'36	2°59'28
min. Earth dist.	7686 Jun 14 08:26	22° I I04'22	0.60374 AU	min. Earth dist.	7687 May 27 19:22	4° Ⅱ 45'17	0.62586 AU
morning rise	7686 Jun 18 00:17	19° Ⅱ 15'16	0.0037.110	morning rise	7687 May 31 07:28	1° Ⅱ 37'34	0.02000110
desc. node	7686 Jun 19 15:05	18° Ⅱ 21'14		morning 1130	7687 Jun 03 01:00	30°R 8	
		18 H 21 14 17° H 10'12		daga mada		29° 8 07'47	
direct	7686 Jun 24 13:26		27046146	desc. node	7687 Jun 06 12:06	_	
morning max el	7686 Jul 08 21:25	25° Ⅱ 06'57	2/346.46	direct	7687 Jun 07 02:12	29° 8 06'42	
	7686 Jul 13 09:03	0ංම			7687 Jun 11 09:01	$\Pi^{\circ 0}$	
	7686 Aug 02 04:01	$0^{\circ}\Omega$		morning max el	7687 Jun 21 03:51	7° Ⅱ 09'21	27°53'06
morning set	7686 Aug 10 06:02	15° Ω 48'39			7687 Jul 08 14:04	0 \circ \odot	
asc. node	7686 Aug 11 13:50	18° Ω 35'07		morning set	7687 Jul 25 05:41	29° © 54'08	
max. Earth dist.	7686 Aug 16 09:21	28° Ω 59'34	1.31786 AU		7687 Jul 25 06:50	$0^{\circ}\Omega$	
	7686 Aug 16 20:20	0° m		asc. node	7687 Jul 29 10:49	8° Ω 39'26	
				max. Earth dist.	7687 Jul 30 15:10	11° Ω 10'48	1.32304 AU
superior conj	7686 Aug 17 11:29	1° m 23'39	0°57'19				
minimum elong	7686 Aug 17 09:21	1° m) 11'53	0°56'52	superior conj	7687 Aug 01 20:21	15° Ω 58'32	0°34'10
evening rise	7686 Aug 24 05:43	16° Mp 12'36	0 2002	minimum elong	7687 Aug 01 18:50	15° Ω 50'18	
evening rise	7686 Aug 31 00:35	0∘ ಹ		minimum crong	7687 Aug 08 06:52	0°m/	0 33 17
desc. node	7686 Sep 15 14:08	24° ≏ 21'37		evening rise	7687 Aug 08 00:32	0° m y55'51	
	•		25020120	evening rise	-		
evening max el	7686 Sep 20 11:33	29° Ω 39'07	25°30'30		7687 Aug 24 14:57	0° ™	22057126
	7686 Sep 20 20:25	0°M		evening max el	7687 Sep 02 00:03	10° Ω 07'18	23°57'36
retrograde	7686 Oct 04 09:45	6°M41'59		desc. node	7687 Sep 02 11:13	10° ≙ 33'49	
evening set	7686 Oct 10 09:45	5°M18'25		retrograde	7687 Sep 15 16:41	16° ≏ 59'05	
min. Earth dist.	7686 Oct 14 23:36	2°M40'38	0.57804 AU	evening set	7687 Sep 20 08:35	16° ≏ 11'20	
inferior conj	7686 Oct 18 00:31	0°M34'25	-5°14'57	min. Earth dist.	7687 Sep 26 10:39	13° ≏ 12'58	0.56069 AU
minimum elong	7686 Oct 18 05:38	0°M25'32	5°14'13	inferior conj	7687 Sep 28 17:07	11° ≏ 49'59	-5°31'34
	7686 Oct 18 20:27	30° ₹ Ω		minimum elong	7687 Sep 28 16:12	11° ≏ 51'23	5°31'32
morning rise	7686 Oct 26 03:52	26° ♀ 17'32		morning rise	7687 Oct 07 01:59	7° £ 52'44	
direct	7686 Oct 28 13:21	26° ♀ 00'00		direct	7687 Oct 09 20:06	7° £ 33'17	
	7686 Nov 06 02:03	0°M,		morning max el	7687 Oct 19 23:08	12° ≏ 18'37	19°56'35
morning max el	7686 Nov 06 06:18	0°M10'05	18°53'02	asc. node	7687 Oct 25 10:18	18° ≏ 46'03	
asc. node	7686 Nov 07 13:17	1°M29'26	10 03 02	use. Houe	7687 Nov 01 05:30	0°M	
morning set	7686 Nov 22 17:48	26°M36'18		morning set	7687 Nov 01 03:30 7687 Nov 06 22:17	11° M L10'19	
morning set		20°11630°18 0° √ 7		morning set	1001 NOV 00 22.1/	11 1161019	
	7686 Nov 24 11:12	U. X.			7(07 N 14 16 17	260m 54150	1022154
	#404 F 04 1-1-1	100 = 0= 0	10151	superior conj	7687 Nov 14 16:15	26°M54'50	1°32'54
superior conj	7686 Dec 01 05:03	13° ∡ 07'13	1°17'11	minimum elong	7687 Nov 14 18:25	27°M05'38	1°32'51
minimum elong	7686 Dec 01 08:18	13° ≮ 22'42	1°16'55		7687 Nov 16 05:36	0° ∡ ¹	
max. Earth dist.	7686 Dec 08 05:46	26° ₹ 03'51	1.39212 AU	max. Earth dist.	7687 Nov 20 11:33	8° ≯ 11′01	1.37090 AU
	7686 Dec 10 11:33	5°0		evening rise	7687 Nov 24 06:10	15° ∡ 08′02	
evening rise	7686 Dec 12 03:26	2° る 51'32		desc. node	7687 Nov 29 10:12	24° ₹ 09'05	
desc. node	7686 Dec 12 13:10	3°₹33'00			7687 Dec 02 22:59	8°0	

	7687 Dec 24 03:15	0° ≈			7688 Nov 07 01:37	0° ∡ ¹	
evening max el	7687 Dec 29 21:35	6°≈15'50	25°36'26	desc. node	7688 Nov 15 07:14	14° ₹ ³33'28	
retrograde	7688 Jan 11 04:43	13° ≈ 19'13			7688 Nov 25 05:20	ರ°0	
evening set	7688 Jan 17 03:22	10° ≈ 52'17		evening max el	7688 Dec 11 10:50	19° る 59'28	26°36'42
asc. node	7688 Jan 21 09:33	6° ≈ 15′08		retrograde	7688 Dec 24 10:37	27° る 15'23	
min. Earth dist.	7688 Jan 21 11:57	6° ≈ 07'34	0.67292 AU	evening set	7688 Dec 30 21:34	24° る 40'30	
inferior conj	7688 Jan 22 19:47	4°≈25'55	0°28'26	min. Earth dist.	7689 Jan 03 23:49	20° ට 30'41	0.66215 AU
minimum elong	7688 Jan 22 19:04	4°≈28'12	0°28'14	inferior conj	7689 Jan 05 19:12	18°る21'33	
	7688 Jan 26 15:42	30°₹₹		minimum elong	7689 Jan 05 20:02		0°29'22
morning rise	7688 Jan 28 11:12	28°る33'02 27°る28'24		asc. node	7689 Jan 07 06:37	16°පි38'05 12°පි39'18	
direct	7688 Jan 31 19:41 7688 Feb 06 08:21	2/°02824 0°≈		morning rise direct	7689 Jan 11 19:22 7689 Jan 14 17:41	12 ⁻ る 39 ⁻ 18	
morning max el	7688 Feb 07 18:10	0 ≈ 1°≈17'43	19°07'22	morning max el	7689 Jan 21 06:29	11 3 31 22	18°23'56
greatest brilliancy	7688 Feb 21 07:34	1 ∞1743 19°≈30'46	-0.7m	morning max ci	7689 Feb 01 01:59	13 3 22 23	18 23 30
desc. node	7688 Feb 25 09:35	25°≈45'02	-0.7111	morning set	7689 Feb 10 03:00	0 ∞ 14°≈20'17	
dese. Hode	7688 Feb 28 03:43	0° ∀		desc. node	7689 Feb 11 06:33	16°≈10'11	
morning set	7688 Mar 02 00:36	4°) €26'37		desc. Hode	7689 Feb 19 23:54	0° ∀	
max. Earth dist.	7688 Mar 15 21:20	26°) €04'16	1.45089 AU		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	• /(
	7688 Mar 18 09:07	0°Υ		superior conj	7689 Feb 25 20:14	9°) 11'01	-1°32'27
				minimum elong	7689 Feb 25 10:40	8°) €33'32	
superior conj	7688 Mar 18 15:42	0° Υ 26'02	-2°01'50	max. Earth dist.	7689 Feb 26 16:34	10°) 30′39	1.45487 AU
minimum elong	7688 Mar 18 08:57	29°) 59′20	2°01'28		7689 Mar 11 03:03	0° Y	
evening rise	7688 Apr 02 07:46	24° Y 05'10		evening rise	7689 Mar 13 18:34	4° Υ 09'51	
	7688 Apr 05 22:07	9° 8		greatest brilliancy	7689 Mar 23 21:21	20° Y 02'12	-0.8m
asc. node	7688 Apr 18 08:36	19° 8 20'20			7689 Mar 30 13:54	9° 8	
evening max el	7688 Apr 22 01:40	23° 8 43'38	18°26'48	asc. node	7689 Apr 05 05:40	7° 8 02'40	
retrograde	7688 Apr 28 12:36	27° 8 13'17		evening max el	7689 Apr 05 11:29	7° 8 17'34	19°03'08
evening set	7688 May 01 15:07	26° 8 19'44		retrograde	7689 Apr 12 08:03	11° 8 08'23	
inferior conj	7688 May 07 10:10	20° 8 49'51	3°20'55	evening set	7689 Apr 15 18:01	10° 8 00'35	
minimum elong	7688 May 07 11:10	20° 8 46'53	3°20'45	inferior conj	7689 Apr 21 06:28	_	3°24'48
min. Earth dist.	7688 May 09 15:30	18° 8 13'24	0.64564 AU	minimum elong	7689 Apr 21 06:08	4° 8 15'28	3°24'43
morning rise	7688 May 13 06:21	14° 8 35'04		min. Earth dist.	7689 Apr 22 20:18	2° 8 14'03	0.66163 AU
direct	7688 May 19 23:05	11° 8 50'03			7689 Apr 24 17:06	30°₹ Υ	
desc. node	7688 May 23 09:06	12° 8 27'21	25022125	morning rise	7689 Apr 26 17:50	27° Y 57'07	
morning max el	7688 Jun 02 13:26	19° 8 47'30	27°23'35	direct	7689 May 03 02:41	25° Y 10′29	
	7688 Jun 11 06:27 7688 Jun 30 14:54	0°© 0°∏		desc. node	7689 May 10 06:06	27° Y 52'29 0° と	
morning set	7688 Jul	13° 9 32'03		marning may al	7689 May 12 23:29 7689 May 15 23:47	2° 8 50'04	26°24'55
max. Earth dist.	7688 Jul 12 13:16	13 3 32 03 22° 9 57'51	1.33303 AU	morning max el	7689 Jun 05 12:17	2 O 30 04 0° I	20 24 33
asc. node	7688 Jul 15 07:50	28°945'59	1.55505 AC	morning set	7689 Jun 21 00:06	26° П 32'39	
use. Houe	7688 Jul 15 21:48	0°Ω		morning set	7689 Jun 22 19:49	0°95	
	7000 041 10 21.10	000		max. Earth dist.	7689 Jun 25 00:57		1.34780 AU
superior conj	7688 Jul 16 00:52	0° Ω 16'15	0°07'14		, , , , , , , , , , , , , , , , , , , ,		
minimum elong	7688 Jul 16 00:30	0° Ω 14'19	0°07'04	superior conj	7689 Jun 29 22:37	14° © 09'49	-0°22'41
behind sun begin	7688 Jul 15 19:32	29° 5 47'58		minimum elong	7689 Jun 29 23:54	14° © 16'25	0°22'31
behind sun end	7688 Jul 16 05:27	0° Ω 40'42		asc. node	7689 Jul 02 04:50	18° © 50'26	
evening rise	7688 Jul 23 04:34	15° Ω 34'36		evening rise	7689 Jul 07 13:31	0° Ω 02'28	
	7688 Jul 30 09:14	0° т р			7689 Jul 07 13:02	0 $^{\circ}$ Ω	
evening max el	7688 Aug 13 13:02	20° m 22'08	22°18'43		7689 Jul 25 12:20	0° ™	
desc. node	7688 Aug 19 08:15	24° Mp 49'43		evening max el	7689 Jul 26 10:54	0° ™ 57'50	20°49'09
retrograde	7688 Aug 26 11:04	26° Mp 47'48		desc. node	7689 Aug 06 05:17	6° Mp 38′14	
evening set	7688 Aug 29 15:03	26° Mp 25'41		retrograde	7689 Aug 06 23:19	6° ™ 39'38	
min. Earth dist.	7688 Sep 06 19:14	22° m 51'45		evening set	7689 Aug 09 02:50	6° TD 28'34	
inferior conj	7688 Sep 07 16:25	22° Tp 21'54		inferior conj	7689 Aug 18 08:55	2°m/31'34	
minimum elong	7688 Sep 07 08:38	22° Tp 32'53	4°56'47	minimum elong	7689 Aug 17 23:54	2° Mp 44'23	3°29'18
morning rise	7688 Sep 16 03:54	18° Mp 33'38		min. Earth dist.	7689 Aug 19 04:31	2° Mp 03'41	0.54737 AU
direct	7688 Sep 19 10:34 7688 Oct 01 02:59	18° Mp 09'30 23° Mp 38'17	21021147	morning rice	7689 Aug 23 01:26	30°R Ω 28° Ω 32'53	
morning max el	7688 Oct 01 02:59 7688 Oct 06 16:55	23° II 38°1 / 0° <u>Ω</u>	Z1 Z14/	morning rise direct	7689 Aug 26 21:02 7689 Aug 30 18:42	$28^{\circ} \Omega 32^{\circ} 33$ $28^{\circ} \Omega 00' 17$	
asc. node	7688 Oct 10 16.33	0 <u>₽</u> 6° ₽ 53'56		uncet	7689 Sep 07 02:16	28 32 00 17 0° m)	
morning set	7688 Oct 21 07:07	0 = 33 30 25° £ 55'17		morning max el	7689 Sep 12 20:15	راتا 0 4° ™ 15'45	23°03'08
morning set	7688 Oct 23 05:52	0°M		asc. node	7689 Sep 28 04:18	25° Mp 40'58	25 05 00
	. 555 561 25 65.52	V IIV		a.c. 1040	7689 Sep 30 11:21	25 ال ا م	
superior conj	7688 Oct 28 13:44	11°M11'28	1°40'36	morning set	7689 Oct 05 18:17	0 — 10° Ω 45'37	
minimum elong	7688 Oct 28 14:32	11°M15'35	1°40'40	<i>5</i>			
max. Earth dist.	7688 Nov 01 22:24	20°M04'48	1.35190 AU	superior conj	7689 Oct 12 18:17	25° ≏ 47'47	1°41'16
evening rise	7688 Nov 06 02:34	28°M11'35		minimum elong	7689 Oct 12 17:48	25° ≏ 45'11	1°41'19
				=			

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asc. node	7691 Sep 01 22:17	4° Mp 34′04			7692 Aug 05 20:02	$0 ^{\circ} \Omega$	
morning set	7691 Sep 04 16:43	10° m 19'56		asc. node	7692 Aug 18 19:18	24° Ω 25'34	
				morning set	7692 Aug 19 00:38	24° Ω 53'33	
superior conj	7691 Sep 11 14:38	25° Mp 26′50	1°24'46		7692 Aug 21 10:10	0° m y	
minimum elong	7691 Sep 11 12:33	25° Mp 15'17	1°24'29	max. Earth dist.	7692 Aug 25 14:44	9° Mp 11'23	1.31705 AU
max. Earth dist.	7691 Sep 12 04:16	26° Mp42'15	1.31901 AU				
	7691 Sep 13 16:07	0∘ ⊽		superior conj	7692 Aug 26 02:26	10° m 16'10	1°08'42
evening rise	7691 Sep 18 12:33	10° ≏ 27'29		minimum elong	7692 Aug 26 00:10	10° Mp 03'40	1°08'17
	7691 Sep 28 14:37	0°M.		evening rise	7692 Sep 01 20:51	25° m 05'45	
desc. node	7691 Oct 06 22:24	13°M27'33			7692 Sep 04 04:57	0∘ ⊽	
evening max el	7691 Oct 19 16:53	29°M02'23	27°08'37		7692 Sep 21 13:08	0°M	
Č	7691 Oct 20 18:01	0° √		desc. node	7692 Sep 22 19:29	1°M42'22	
retrograde	7691 Nov 02 14:05	6° х 13'48		evening max el	7692 Sep 30 16:28	10°M41'13	26°14'53
evening set	7691 Nov 09 14:47	4° ₹ '01'50		retrograde	7692 Oct 14 14:43	17°M46'22	
min. Earth dist.	7691 Nov 13 07:37	1° х 18′36	0.61049 AU	evening set	7692 Oct 21 03:33	16°ML03'01	
mm. Bartii dist.	7691 Nov 14 20:28	30°RML	0.01019110	min. Earth dist.	7692 Oct 25 05:39	13°M28'26	0.58965 AU
inferior conj	7691 Nov 16 10:10	28°M37'46	-3°50'03	inferior conj	7692 Oct 28 10:08	11°ML04'55	
minimum elong	7691 Nov 16 16:59	28°M23'02		minimum elong	7692 Oct 28 16:52	10°M52'14	
morning rise	7691 Nov 23 21:27	23°M45'01	3 47 31	morning rise	7692 Nov 05 08:27	6°M34'26	4 40 03
direct	7691 Nov 26 02:56	23°M24'49		direct	7692 Nov 07 15:16	6°M16'38	
	7691 Nov 28 02.36 7691 Nov 28 21:44	23°M57'38		asc. node		9°M22'29	
asc. node			17057120		7692 Nov 14 18:45		10027122
morning max el	7691 Dec 03 07:02	27°M00'29	17°57'20	morning max el	7692 Nov 15 16:03	10°M11'18	18°26'32
	7691 Dec 05 22:30	0° ⊼			7692 Nov 28 15:32	0° ∡ 7	
morning set	7691 Dec 18 23:11	21° ₹ 40'44		morning set	7692 Dec 01 15:21	5° ∡ 741'49	
	7691 Dec 23 12:17	0°ಕ				_	
		_		superior conj	7692 Dec 10 15:47	22° ∡ ¹48'59	1°04'05
superior conj	7691 Dec 29 05:36	10° ろ 12'49		minimum elong	7692 Dec 10 19:18	23° ₹ 05'11	1°03'44
minimum elong	7691 Dec 29 08:17	10° る 24'35	0°33'36		7692 Dec 14 14:45	0° ਰ	
desc. node	7692 Jan 02 21:32	18° る 13'57		max. Earth dist.	7692 Dec 18 03:17	6° る 10'45	1.40456 AU
max. Earth dist.	7692 Jan 05 18:37	23° る 02'27	1.42470 AU	desc. node	7692 Dec 19 18:34	8° る 58'51	
	7692 Jan 10 01:15	0° ≈		evening rise	7692 Dec 22 12:05	13° る 33'36	
evening rise	7692 Jan 11 19:17	2° ≈ 47'27			7693 Jan 01 21:17	0° ≈	
	7692 Jan 29 23:37	0° ∀			7693 Jan 24 05:33	0° ℋ	
evening max el	7692 Feb 13 10:44	18° 升 11'38	22°17'19	evening max el	7693 Jan 26 01:46	1°) 55′01	23°37'15
retrograde	7692 Feb 23 01:33	23° ℋ 53'53		retrograde	7693 Feb 05 19:33	8° ₩ 15'14	
asc. node	7692 Feb 24 20:53	23° ∺ 37′13		evening set	7693 Feb 10 22:10	6° ∺ 07'50	
evening set	7692 Feb 27 16:05	22° ∺ 01'18		asc. node	7693 Feb 10 17:56	6° ℋ 16'40	
inferior conj	7692 Mar 04 00:13	15°) 39′52	2°24'20	inferior conj	7693 Feb 16 08:31	29° ≈ 40'59	1°45'34
minimum elong	7692 Mar 03 21:56	15°)(47'49	2°23'43	minimum elong	7693 Feb 16 06:27	29° ≈ 48′04	1°44'55
min. Earth dist.	7692 Mar 03 21:47	15°) (48′21	0.68358 AU	min. Earth dist.	7693 Feb 15 18:28	0°) 29′05	0.68250 AU
morning rise	7692 Mar 09 03:36	9°) 29′39			7693 Feb 16 02:58	30°R ≈	
direct	7692 Mar 13 21:18	7°) €29'43		morning rise	7693 Feb 21 14:43	23° ≈ 36′18	
morning max el	7692 Mar 23 05:53	12° 升 59′06	22°08'49	direct	7693 Feb 25 18:37	21°≈59'02	
desc. node	7692 Mar 30 21:03	21° ¥ 56′07		morning max el	7693 Mar 05 23:25	26° ≈ 40'41	20°47'55
	7692 Apr 05 19:38	$0^{\circ}\mathbf{\Upsilon}$			7693 Mar 09 00:31	0° ∀	
morning set	7692 Apr 25 10:16	29° Ƴ 43'14		desc. node	7693 Mar 17 18:02	11°) 28'42	
C	7692 Apr 25 14:24	0°8			7693 Mar 30 07:23	$_0$ ° $\boldsymbol{\gamma}$	
max. Earth dist.	7692 Apr 30 19:55		1.41087 AU	morning set	7693 Apr 04 18:23	8° Ƴ 24'34	
	1			max. Earth dist.	7693 Apr 13 01:02	21° Y 33'42	1.43061 AU
superior conj	7692 May 08 14:34	22° 8 03'06	-1°51'11		7693 Apr 18 04:10	0°8	-
minimum elong	7692 May 08 20:11	22° 8 28'04			, .,,		
8	7692 May 13 00:18	0°II		superior conj	7693 Apr 19 21:05	2° 8 51'28	-2°08'15
evening rise	7692 May 19 01:02	11° I I10'15		minimum elong	7693 Apr 20 00:21	3° 8 05'17	
asc. node	7692 May 22 19:56	18° I I1'03		evening rise	7693 May 01 20:04	23° 8 38'04	2 00 11
asc. node	7692 May 29 18:02	0°9		evening rise	7693 May 05 10:15	0° Ⅱ	
evening max el	7692 Jun 04 04:19	6°954'49	18016'24	asc. node	7693 May 09 16:59	7° Ⅱ 23'47	
retrograde	7692 Jun 11 08:15	10°930'27	10 10 24	evening max el	7693 May 18 16:17	19° I I57'44	10005125
•				•	•	23° Ⅱ 19'57	18 03 33
evening set	7692 Jun 13 16:16 7692 Jun 20 21:20	10°©08'21 5°©27'09	1°40'32	retrograde	7693 May 25 05:38	23° I I 19'37 22° I I 46'55	
inferior conj				evening set	7693 May 27 21:00		2020121
minimum elong	7692 Jun 21 00:15	5°920'55	1°39'30	inferior conj	7693 Jun 03 09:40	17° ∏ 45'25	
min. Earth dist.	7692 Jun 24 07:00	2°533'53	0.59090 AU	minimum elong	7693 Jun 03 12:36	17° Ⅱ 38′09	
desc. node	7692 Jun 26 20:27	0°939'45		min. Earth dist.	7693 Jun 06 12:36		0.61335 AU
	7692 Jun 27 21:54	30°RⅡ 200Ⅱ4040		morning rise	7693 Jun 10 02:02	11° II 46'02	
morning rise	7692 Jun 28 05:07	29° I I49'40		desc. node	7693 Jun 13 17:29	9° I 57'12	
direct	7692 Jul 04 11:45	28° Ⅱ 02'33		direct	7693 Jun 16 18:31	9° Ⅱ 29'10	2505
	7692 Jul 11 08:13	0.00	2502515	morning max el	7693 Jul 01 00:12	17° Ⅱ 28'38	2/°54'10
morning max el	7692 Jul 18 20:43	5° © 50'54	27~25'42		7693 Jul 11 10:04	0 \circ	

	7693 Jul 29 13:15	$0^{\circ}\Omega$			7694 Jul 05 09:46	0° ©	
morning set	7693 Aug 03 03:56	9° Ω 10'52		morning set	7694 Jul 18 00:20	23° © 05'32	
asc. node	7693 Aug 05 16:18	14° Ω 26'17		morning set	7694 Jul 21 09:36	0°Ω	
max. Earth dist.	7693 Aug 08 23:34	21° Ω 33'09	1.31955 AU	max. Earth dist.	7694 Jul 23 02:41		1.32667 AU
max. Latin dist.	7075 Aug 00 25.54	21 8633 07	1.51755 AU	asc. node	7694 Jul 23 13:18	$4^{\circ}\Omega 31'49$	1.32007 AC
superior conj	7693 Aug 10 12:52	24° Ω 57'29	0°48'00	asc. node	7094 Jul 23 13.16	4 6631 49	
minimum elong	7693 Aug 10 12:52	24° Ω 46'51	0°47'34	superior conj	7694 Jul 25 20:07	9° Ω 25'23	0°23'09
minimum ciong	7693 Aug 12 19:47	0° m	0 47 54	minimum elong	7694 Jul 25 19:02	9°Ω19'30	0°22'51
evening rise	7693 Aug 17 07:47	9° m)48'40		evening rise	7694 Aug 01 19:27	24° Ω 30'25	0 22 31
evening rise	7693 Aug 27 14:30	0∘ ⊽		evening rise	7694 Aug 04 10:17	0° m)	
desc. node	7693 Sep 09 16:32	0 — 18° ≏ 46'34			7694 Aug 23 01:27	0∘ ⊽ 0 ıı⁄ı	
evening max el	7693 Sep 12 08:02	21° ⊆ 30'20	24°52'43	evening max el	7694 Aug 24 19:28	0 — 1° Ω 47'49	23°15'14
retrograde	7693 Sep 26 04:27	28° £ 29'06	24 32 43	desc. node	7694 Aug 27 13:35	4° £ 13'24	23 13 14
evening set	7693 Oct 01 16:25	27° £ 21'03		retrograde	7694 Sep 07 06:14	8° £ 31'38	
min. Earth dist.	7693 Oct 06 19:15	24° £ 36'54	0.57014 AU	evening set	7694 Sep 11 06:28	7° £ 56'25	
inferior conj	7693 Oct 00 19:13	24° ⊆ 30°34 22° ⊆ 47'28		min. Earth dist.	7694 Sep 18 04:41	4° £ 44'35	0.55499 AU
minimum elong	7693 Oct 09 17:22	22° £ 42'33		inferior conj	7694 Sep 19 22:49	3° £ 43'02	
	7693 Oct 17 20:33	18° Ω 39'50	3 20 30	minimum elong	7694 Sep 19 18:41	3° £ 49'05	
morning rise direct	7693 Oct 17 20.33 7693 Oct 20 09:23	18° £ 21'40		minimum elong	7694 Sep 27 20:08		3 23 33
	7693 Oct 20 09.23 7693 Oct 29 15:40	22° £ 45'03	19°17'21	marning rise	•	30°R My 29° My 51'53	
morning max el		26° £ 02'41	19 1/21	morning rise	7694 Sep 28 09:06 7694 Oct 01 08:02	29° my 30'57	
asc. node	7693 Nov 01 15:47 7693 Nov 04 13:16	0°M		direct	7694 Oct 01 08.02 7694 Oct 04 17:02	0° ت الاعتران	
							20920129
morning set	7693 Nov 15 16:13	20°M.06′20 0° <i>⊀</i> 1		morning max el	7694 Oct 12 03:08	4° £ 33'41	20-30-28
	7693 Nov 20 15:04	0-×,		asc. node	7694 Oct 19 12:47	13° Ω 42'57	
	7(02 N 22 10 15	60 71 4127	100 415 4		7694 Oct 28 14:29	0°M	
superior conj	7693 Nov 23 19:15	6° 🖈 14'37	1°24'54	morning set	7694 Oct 30 22:51	4°M46'09	
minimum elong	7693 Nov 23 22:07	6°×728'30	1°24'44		7(04) 07 11 21	200 m 17120	1027105
max. Earth dist.	7693 Nov 30 09:02	18° 🗷 37'31	1.38294 AU	superior conj	7694 Nov 07 11:21	20°M16'38	1°37'05
evening rise	7693 Dec 04 02:55	25° 🖈 18'03		minimum elong	7694 Nov 07 12:56	20°M24'42	1°37'05
desc. node	7693 Dec 06 15:34	29° х 39′06		D d E c	7694 Nov 12 08:49	0° ⊼ ¹	1.26220.444
	7693 Dec 06 20:30	5°0		max. Earth dist.	7694 Nov 12 16:16	0° ₹ 35'59	1.36238 AU
	7693 Dec 26 12:53	0° ≈	24055112	evening rise	7694 Nov 16 13:41	7°×756'07	
evening max el	7694 Jan 08 14:56	15°≈40'44	24°55'12	desc. node	7694 Nov 23 12:36	20° ₹ 10'57	
retrograde	7694 Jan 20 09:36	22°≈31'34			7694 Nov 29 13:59	0°る	26004101
evening set	7694 Jan 26 01:01	20°≈10'43		evening max el	7694 Dec 22 03:50	29° る 26'35	26°04'01
asc. node	7694 Jan 28 14:59	17°≈32'05	0.67751 ATT	. 1	7694 Dec 22 17:47	0°≈	
min. Earth dist.	7694 Jan 30 13:28	15°≈06'26	0.67751 AU	retrograde	7695 Jan 03 18:52	6°≈37'19	
inferior conj	7694 Jan 31 14:53	13°≈42'43	0°58'47	evening set	7695 Jan 09 22:56	4°≈06'06	
minimum elong	7694 Jan 31 13:32	13°≈47'12	0°58'20	· Patra	7695 Jan 13 20:53	30°₹₹	0.66070.411
morning rise	7694 Feb 06 02:18	7°≈45'11		min. Earth dist.	7695 Jan 14 04:38	29° る 36'21	0.66879 AU
direct	7694 Feb 09 17:25	6°≈29'30	10020111	inferior conj	7695 Jan 15 17:27	27°₹41'59	0°04'32
morning max el	7694 Feb 17 00:52	10°≈34'22	19°39'44	minimum elong	7695 Jan 15 17:20	27°る42'22	0°04'35
greatest brilliancy	7694 Mar 01 19:23	27°≈15'39	-0.7m	transit middle	7695 Jan 15 17:20	27°る42'22	0°04'35
1 1	7694 Mar 03 15:44	0° ∀		transit begin	7695 Jan 15 14:36	27° る 50'53	
desc. node	7694 Mar 04 15:00	1° ¥ 26'53		transit end	7695 Jan 15 20:04	27° る 33'52	
morning set	7694 Mar 14 15:33	16°) 42′38		asc. node	7695 Jan 15 12:02	27°る58'52	
F 4 F 4	7694 Mar 23 04:43	0° Υ	1 44525 ATT	morning rise	7695 Jan 21 12:21	21°る53'28	
max. Earth dist.	7694 Mar 26 13:12	5° Y 17′25	1.44535 AU	direct	7695 Jan 24 16:11	20°る56'35	10046140
	760434 21 02 25	1200024110	2000151	morning max el	7695 Jan 31 09:47	24° る 36'53	18°46'49
superior conj	7694 Mar 31 02:35	12° Y 34'18		1 1	7695 Feb 04 23:48	0°≈	
minimum elong	7694 Mar 30 23:46	12° Y 22'59	2°09'49	desc. node	7695 Feb 19 11:58	21°≈43'46	
	7694 Apr 10 17:04	0° 8		morning set	7695 Feb 22 02:16	25°≈47'36	
evening rise	7694 Apr 13 19:21	5° 8 12'25		75 d. 15 d.	7695 Feb 24 18:43	0°) (20155	1 150 10 177
asc. node	7694 Apr 26 14:01	26° 8 08'43		max. Earth dist.	7695 Mar 09 06:01	19°) 30′55	1.45349 AU
	7694 Apr 29 08:41	0°II	10012145		7(05)/ 10 12 0(210 1/20152	1051124
evening max el	7694 May 02 05:29	3° Ⅱ 17'48	18°13'45	superior conj	7695 Mar 10 12:06	21°\(\frac{1}{2}\)28'53	
retrograde	7694 May 08 14:48	6° Ⅱ 41'13		minimum elong	7695 Mar 10 03:18	20°) 54'19	1°50′53
evening set	7694 May 11 13:09	5° I 55'35	2011114		7695 Mar 15 21:54	0°Υ 150 Ω 40111	
inferior conj	7694 May 17 13:30	0° Ⅱ 35'31	3°11'14	evening rise	7695 Mar 25 19:25	15° Υ 48'11	0.0
minimum elong	7694 May 17 15:19	0° Ⅱ 30′28	3°10'53	greatest brilliancy	7695 Apr 01 11:50	26° Ƴ 34'16	-0.9m
t materi	7694 May 18 02:12	30°R 8	0.62465 ***	1	7695 Apr 03 15:25	0° 8	
min. Earth dist.	7694 May 20 03:28	27° 8 43'47	0.63465 AU	asc. node	7695 Apr 13 11:04	14° 8 17'06	10040111
morning rise	7694 May 23 16:11	24° 8 23'58		evening max el	7695 Apr 15 17:12	16° 8 48'17	18~40'11
direct	7694 May 30 10:43	21° 8 45'47		retrograde	7695 Apr 22 07:27	20° 8 25'51	
desc. node	7694 May 31 14:29	21° 8 50'02	2704444	evening set	7695 Apr 25 12:57	19° 8 26'30	202.422
morning max el	7694 Jun 13 08:33	29° 8 47'56	2/~44'41	inferior conj	7695 May 01 04:49	13° 8 49'33	3°24'23
	7694 Jun 13 13:20	Π $^{\circ}0$		minimum elong	7695 May 01 05:14	13° 8 48'17	5~24'1/

min. Earth dist.	7695 May 03 03:35	11° 8 26'59	0.65293 AU	inferior conj	7696 Apr 14 04:12	27° Y 21'10	3°22'10
morning rise	7695 May 06 20:49	7° 8 32'56		minimum elong	7696 Apr 14 03:23	27° Y 23'51	3°22'03
direct	7695 May 13 10:43	4° 8 45'33		min. Earth dist.	7696 Apr 15 11:46	25° Ƴ 38′05	0.66716 AU
desc. node	7695 May 18 11:29	6° 8 06'30		morning rise	7696 Apr 19 12:48	21° Y 03'51	
morning max el	7695 May 26 18:49	12° 8 38'06	27°01'37	direct	7696 Apr 25 17:11	18° Ƴ 19'32	
	7695 Jun 09 16:55	Π°		desc. node	7696 May 04 08:29	22° Y 15'29	
	7695 Jun 28 00:18	0° ©		morning max el	7696 May 08 04:43	25° Ƴ 47'12	25°53'10
morning set	7695 Jul 01 10:53	6°928'51		_	7696 May 12 01:19	0°B	
max. Earth dist.	7695 Jul 05 20:22	15° © 09'37	1.33867 AU		7696 Jun 02 05:44	$\Pi^{\circ}0$	
				morning set	7696 Jun 13 07:50	19° Ⅱ 10'34	
superior conj	7695 Jul 09 22:03	23° © 33'24	-0°05'12	max. Earth dist.	7696 Jun 17 03:05	26° Ⅱ 19'11	1.35541 AU
minimum elong	7695 Jul 09 22:20	23°934'53	0°05'14	Titali. Darin dibi.	7696 Jun 19 00:41	0.8e	1.500 11 110
behind sun begin	7695 Jul 09 16:58	23°906'45	0 03 14		7070 Juli 17 00.41	0	
behind sun end	7695 Jul 10 03:42	24°503'04		aumorior comi	7696 Jun 22 16:09	70615105	0025155
				superior conj		7°515'05	
asc. node	7695 Jul 10 10:18	24°937'43		minimum elong	7696 Jun 22 18:15	7°525'40	0°35′38
	7695 Jul 12 23:11	0°N		asc. node	7696 Jun 26 07:18	14°5540'24	
evening rise	7695 Jul 17 05:58	9° Ω 04'51		evening rise	7696 Jun 30 13:17	23° © 26'22	
	7695 Jul 28 05:33	0° m ∕			7696 Jul 03 19:13	0 ° Ω	
evening max el	7695 Aug 06 11:20	12° Mp 07'36	21°38'52	evening max el	7696 Jul 18 14:49	23° Ω 00'40	20°16'18
desc. node	7695 Aug 14 10:39	17° m 29'46		retrograde	7696 Jul 29 09:44	28° Ω 19'44	
retrograde	7695 Aug 18 21:07	18° ™ 16'49		evening set	7696 Jul 31 08:30	28° Ω 10′06	
evening set	7695 Aug 21 12:13	18° m 01'09		desc. node	7696 Jul 31 07:41	28° Ω 10′25	
inferior conj	7695 Aug 30 17:34	14° Mp 01'57	-4°27'20	inferior conj	7696 Aug 09 11:43	24° Ω 12'15	-2°44'39
minimum elong	7695 Aug 30 08:20	14° m) 14'53	4°25'06	minimum elong	7696 Aug 09 04:15	24° Ω 23'14	2°42'05
min. Earth dist.	7695 Aug 30 13:39	14° m) 07'26	0.54743 AU	min. Earth dist.	7696 Aug 11 00:06	23° Ω 18'48	0.54940 AU
morning rise	7695 Sep 08 05:33	10° mp 11'32		morning rise	7696 Aug 17 22:55	20° Ω 02'34	
direct	7695 Sep 11 17:58	9° m 44'33		direct	7696 Aug 22 04:30	19° Ω 23'52	
morning max el	7695 Sep 24 02:02	15° m 34'02	22002121	morning max el	7696 Sep 04 16:21	25° Ω 58'31	23°48'16
morning max er	•	13 ilÿ3402 0° Ω	22 03 31	morning max er	•	0°M)	23 46 10
,	7695 Oct 05 03:28			,	7696 Sep 08 12:08		
asc. node	7695 Oct 06 09:47	2° £ 08'34		asc. node	7696 Sep 22 06:47	21° Mp 08'46	
morning set	7695 Oct 15 08:54	19° ≙ 33'40		_	7696 Sep 26 18:08	0∘ ত	
	7695 Oct 20 06:53	0°M₊		morning set	7696 Sep 28 20:30	4° ≏ 23'49	
superior conj	7695 Oct 22 12:13	4°M42'37	1°41'42	superior conj	7696 Oct 05 18:56	19° ≏ 23'57	1°39'39
minimum elong	7695 Oct 22 12:26	4° ™ 43'49	1°41'45	minimum elong	7696 Oct 05 17:59	19° ≙ 18'50	1°39'39
max. Earth dist.	7695 Oct 26 05:59	12°M28'30	1.34481 AU	max. Earth dist.	7696 Oct 08 04:24	24° ₽ 32'53	1.33130 AU
evening rise	7695 Oct 30 16:24	21°M16'48			7696 Oct 10 18:35	0° M	
	7695 Nov 04 08:22	0° ∡ ¹		evening rise	7696 Oct 13 07:17	5° M ₊10'05	
desc. node	7695 Nov 10 09:38	10° ∡ ¹28'35		desc. node	7696 Oct 27 06:41	0° ∡ 25'30	
	7695 Nov 23 10:41	0°ರ			7696 Oct 27 00:21	0° ∡ ¹	
evening max el	7695 Dec 04 17:00	13° る 05'57	26°56'30	evening max el	7696 Nov 16 05:26	26° ₹ 27'46	27°25'19
retrograde	7695 Dec 17 22:35	20° පි 25'04	20 0000	evening man er	7696 Nov 20 09:42	0°る	27 20 19
evening set	7695 Dec 24 13:59	17° පි 48'34		retrograde	7696 Nov 29 19:48	³° ට 46'29	
•	7695 Dec 28 13:43	17 84834 13° 8 53'13	0.65645 AU	evening set		1°る11'49	
min. Earth dist.	7695 Dec 30 14:05			evening set	7696 Dec 06 19:40	1 01149 30°R √	
inferior conj					7696 Dec 08 07:20	-	0.64075.477
minimum elong	7695 Dec 30 15:43	11° ろ 29'27	0°55'38	min. Earth dist.	7696 Dec 10 14:24	27° ∡ ¹49'19	0.64075 AU
asc. node	7696 Jan 02 09:05	8° ප 31'56		inferior conj	7696 Dec 13 02:18	25° ₹ 13'09	
morning rise	7696 Jan 05 18:35	5° る 57'06		minimum elong	7696 Dec 13 06:05	25° ∡ °03′17	2°01'05
direct	7696 Jan 08 13:03	5° る 15'15		asc. node	7696 Dec 19 06:09	20° ∡ °04′03	
morning max el	7696 Jan 15 00:09	8° る 42'13	18°10'26	morning rise	7696 Dec 19 18:07	19° ∡ 50'41	
	7696 Jan 29 19:57	0° ≈		direct	7696 Dec 22 05:27	19° ∡ ′20′00	
morning set	7696 Feb 02 17:27	6° ≈ 19'34		morning max el	7696 Dec 28 17:12	22° ∡ ⁴43'13	17°51'12
desc. node	7696 Feb 06 08:57	12° ≈ 14'01			7697 Jan 03 10:46	8°0	
				morning set	7697 Jan 14 12:54	18° る 14'37	
superior conj	7696 Feb 17 17:24	0°) 19'30	-1°15'26	•	7697 Jan 21 12:12	0° ≈	
minimum elong	7696 Feb 17 08:50	29° ≈ 45'45		desc. node	7697 Jan 23 05:57	2°≈53'06	
	7696 Feb 17 12:27	0°) €					
max. Earth dist.	7696 Feb 20 01:21	3° ¥ 59'10	1.45429 AU	superior conj	7697 Jan 27 13:24	9° ≈ 56'18	0°30'44
			1.43429 AU				
evening rise	7696 Mar 04 21:19	25°) 32′52 0° °		minimum elong	7697 Jan 27 09:55	9°≈42'11	0°30'08
	7696 Mar 07 18:04		0.7	max. Earth dist.	7697 Feb 01 20:37	18° ≈ 25'53	1.44777 AU
greatest brilliancy	7696 Mar 17 02:06	14° Υ 22'10	-0.7m		7697 Feb 09 05:59	0°) {	
	7696 Mar 28 15:52	0°8		evening rise	7697 Feb 12 09:43	4°) €51'49	
evening max el	7696 Mar 29 01:14	0° 8 24'13	19°23'42		7697 Mar 01 04:57	0° Υ	
asc. node	7696 Mar 30 08:07	1° 8 37'48		evening max el	7697 Mar 12 04:08	14° Y ′01'52	20°22'18
retrograde	7696 Apr 05 04:17	4° 8 27'17		asc. node	7697 Mar 17 05:12	17° Y ′56'44	
evening set	7696 Apr 08 17:37	3° 8 13'26		retrograde	7697 Mar 20 02:41	18° Y 39'45	
	7696 Apr 12 01:53	30° ₹ Υ		evening set	7697 Mar 24 00:53	17° Y 10'51	

inferior conj	7697 Mar 29 08:51	11° Ƴ 05'05	3°07'38	asc. node	7698 Mar 04 02:17	2° Y 59'18	
minimum elong	7697 Mar 29 07:08	11° Υ 10'56	3°07'21	evening set	7698 Mar 08 08:57	1° Υ 15'11	
min. Earth dist.	7697 Mar 30 02:13	10° Υ 05'51	0.67698 AU	evening set	7698 Mar 09 17:22	30°R) €	
morning rise	7697 Apr 03 13:11	4° Υ 49'25	0.070707110	inferior conj	7698 Mar 13 16:29	24° H 58'23	2°42'50
direct	7697 Apr 09 04:57	2°Υ18'03		minimum elong	7698 Mar 13 14:17	25° \ 06'02	2°42'18
morning max el	7697 Apr 20 13:44	9° Υ '06'07	24°29'03	min. Earth dist.	7698 Mar 13 20:55	24°) 42'59	0.68240 AU
desc. node	7697 Apr 21 05:30	9° Ƴ 46'36		morning rise	7698 Mar 18 19:27	18°) (45'50	
	7697 May 07 00:40	0°8		direct	7698 Mar 23 21:12	16°) 33'40	
	7697 May 25 21:11	0°II		morning max el	7698 Apr 02 23:33	22°) 32'34	22°59'19
morning set	7697 May 26 10:08	0° Ⅱ 56'29		desc. node	7698 Apr 08 02:30	28° ¥ 17'21	
max. Earth dist.	7697 May 30 01:21	7° Ⅱ 24'50	1.37594 AU		7698 Apr 09 11:41	0°Υ	
	J				7698 Apr 30 08:42	0°B	
superior conj	7697 Jun 05 23:07	20° Ⅲ 21′07	-1°07'22	morning set	7698 May 07 12:14	11° 8 32'48	
minimum elong	7697 Jun 06 03:11	20° Ⅱ 40'48	1°06'49	max. Earth dist.	7698 May 11 21:40	18° 8 58'28	1.39828 AU
C	7697 Jun 10 21:03	0ංම			7698 May 18 03:25	$\Pi^{\circ}0$	
asc. node	7697 Jun 13 04:19	4° © 35'18			•		
evening rise	7697 Jun 14 14:53	7° 5 27'22		superior conj	7698 May 19 14:55	2° Ⅱ 41'48	-1°36'46
	7697 Jun 27 09:13	$0^{\circ}\Omega$		minimum elong	7698 May 19 20:26	3° 耳 07′10	1°36'12
evening max el	7697 Jul 01 07:15	4° £ 37′29	19°13'25	evening rise	7698 May 29 07:45	20° Ⅱ 59'56	
retrograde	7697 Jul 10 09:36	9° Ω 06'48		asc. node	7698 May 31 01:21	24° Ⅱ 18′09	
evening set	7697 Jul 12 07:19	8° Ω 55'50			7698 Jun 03 02:25	0 \circ \odot	
desc. node	7697 Jul 18 04:45	6° Ω 25'56		evening max el	7698 Jun 14 10:11	16° © 55'02	18°31'19
inferior conj	7697 Jul 20 19:12	4° Ω 45'21	-0°47'33	retrograde	7698 Jun 22 03:59	20°9546'08	
minimum elong	7697 Jul 20 17:07	4° Ω 48'50	0°46'49	evening set	7698 Jun 24 07:33	20°©29'15	
min. Earth dist.	7697 Jul 23 13:34	2° Ω 55'01	0.56050 AU	inferior conj	7698 Jul 01 23:36	15° © 59'43	0°54'20
morning rise	7697 Jul 29 00:01	0° Ω 01′22		minimum elong	7698 Jul 02 01:30	15° © 56'00	0°53'33
	7697 Jul 29 01:28	30° ₹ 5		desc. node	7698 Jul 05 01:49	13° © 35'01	
direct	7697 Aug 03 01:37	29° © 02'21		min. Earth dist.	7698 Jul 05 07:59	13° 5 23'28	0.57857 AU
	7697 Aug 08 01:34	$0^{\circ}\Omega$		morning rise	7698 Jul 09 15:59	10° © 39'09	
morning max el	7697 Aug 17 05:12	6° Ω 13'50	25°30'14	direct	7698 Jul 15 13:09	9° © 10'53	
	7697 Sep 03 12:46	0° m ∕		morning max el	7698 Jul 29 22:32	16° © 49'15	26°52'35
asc. node	7697 Sep 09 03:48	10° m ,34'39			7698 Aug 09 18:47	0 \circ Ω	
morning set	7697 Sep 13 08:00	19° m 11'58			7698 Aug 26 21:09	0° m ∕	
	7697 Sep 18 07:08	0∘ ত		asc. node	7698 Aug 27 00:46	0° mp 18'41	
				morning set	7698 Aug 28 17:43	3° m 52'42	
superior conj	7697 Sep 20 05:09	4° £ 13'40			T(00 G 04 16 50	100 - 0450	1010101
minimum elong	7697 Sep 20 03:22	4° £ 03'50	1°31'35	superior conj	7698 Sep 04 16:52	19° Mp 04'59	1°18'31
max. Earth dist.	7697 Sep 21 10:05	6° £ 52'39	1.32220 AU	minimum elong	7698 Sep 04 14:39	18° m 52'42	1°18'12
evening rise	7697 Sep 27 07:00	19° £ 27'05		max. Earth dist.	7698 Sep 04 19:48	19° My 21'15	1.31758 AU
JJ.	7697 Oct 02 14:03	0°M			7698 Sep 09 16:02	0° ჲ 3° ჲ 59'32	
desc. node	7697 Oct 14 03:44 7697 Oct 21 07:56	19° ™ 53'14 0° ₹		evening rise	7698 Sep 11 12:49 7698 Sep 25 08:17		
avanina may al	7697 Oct 21 07.36 7697 Oct 29 14:50	0 x · 9° x 18'43	27924119	desc. node	7698 Oct 01 00:48	0° M 8° M 39'28	
evening max el	7697 Nov 12 09:58	9 x ·1843 16° x ⁷ 32'59	27 24 16	evening max el	7698 Oct 11 18:26	21°M25'31	26°49'43
retrograde evening set	7697 Nov 19 12:53	10 x 32 39 14° x 09'24		retrograde	7698 Oct 25 16:10	28°M34'41	20 49 43
min. Earth dist.	7697 Nov 23 04:53	11° 🖈 14'53	0.62214 AU	evening set	7698 Nov 01 13:28	26°M33'16	
inferior conj	7697 Nov 26 03:10	8°×731'50		min. Earth dist.	7698 Nov 05 08:33	23°M56'07	0.60160 AU
minimum elong	7697 Nov 26 09:06	8° ∡ 18'03		inferior conj	7698 Nov 08 13:12	21°M20'15	
morning rise	7697 Dec 03 07:22	3° × ⁷ 27'27	3 07 13	minimum elong	7698 Nov 08 20:18	21°ML05'45	
direct	7697 Dec 05 14:10	3°×2727		morning rise	7698 Nov 16 05:29	16°MJ37'08	
asc. node	7697 Dec 06 03:12	3° х 05′40		direct	7698 Nov 18 11:00	16°ML18'21	
morning max el	7697 Dec 12 09:54	6° ∡ ³32'39	17°49'47	asc. node	7698 Nov 23 00:15	17° M .40'48	
	7697 Dec 27 14:06	0°ਰ		morning max el	7698 Nov 25 22:49	20°ML00'41	18°07'19
morning set	7697 Dec 28 06:28	1°る13'04		Č	7698 Dec 03 08:41	0° ∡ ¹	
. 8				morning set	7698 Dec 11 15:46	14° ₹ 55'03	
superior conj	7698 Jan 08 10:27	20° る 46'38	0°12'19	<i>3</i>	7698 Dec 19 19:03	0°る	
minimum elong	7698 Jan 08 11:36	20° る 51'34					
behind sun begin	7698 Jan 08 05:53	20° පි 27'15		superior conj	7698 Dec 21 08:18	2° ⋜ 47'47	0°47'50
behind sun end	7698 Jan 08 17:20	21° る 15'50		minimum elong	7698 Dec 21 11:35	3° ⋜ 02'28	0°47'30
desc. node	7698 Jan 10 02:57	23° る 37'32		desc. node	7698 Dec 27 23:57	14° ₹ 23'08	
	7698 Jan 13 23:14	0° ≈		max. Earth dist.	7698 Dec 28 23:57	16° පි 04'22	1.41640 AU
max. Earth dist.	7698 Jan 15 12:54	2° ≈ 33'25	1.43462 AU	evening rise	7699 Jan 03 04:05	24°₹35'00	
evening rise	7698 Jan 22 23:29	14° ≈ 22'13			7699 Jan 06 13:45	0° ≈	
	7698 Feb 02 06:40	0° ∀			7699 Jan 27 04:38	0° ∀	
evening max el	7698 Feb 23 01:30	27°) 40′46	21°32'51	evening max el	7699 Feb 05 18:10	11° ∺ 21′20	22°51'04
		$0^{\circ}\mathbf{\Upsilon}$		retrograde	7699 Feb 15 20:42	17° ∺ 21'01	
	7698 Feb 25 13:32			retrograde	70771 00 13 20.42		
retrograde	7698 Feb 25 13:32 7698 Mar 04 00:43	0°γ 2° Υ 59'19		asc. node	7699 Feb 18 23:22	16° ₩ 32'12	

. ,	7(00 F L 20 1(12	150 156		. 1	7700 I 20 12 12	101/ 40120	
evening set	7699 Feb 20 16:12	15° ¥ 21'56		retrograde	7700 Jan 30 13:13	1° ¥ 40′29	
min. Earth dist.	7699 Feb 25 17:34	9° ∺ 23'25			7700 Feb 04 04:38	30°R ≈	
inferior conj	7699 Feb 26 01:04	8° ¥ 57'25	2°08'56	evening set	7700 Feb 04 21:05	29° ≈ 27'18	
minimum elong	7699 Feb 25 22:49	9°) €05'13	2°08'16	asc. node	7700 Feb 05 20:27	28° ≈ 33'18	
morning rise	7699 Mar 03 05:21	2° ∺ 49'18		min. Earth dist.	7700 Feb 09 13:56	24° ≈ 02'54	0.68079 AU
direct	7699 Mar 07 16:58	0°) 59'14		inferior conj	7700 Feb 10 08:47	22° ≈ 59'15	1°26'42
morning max el	7699 Mar 16 13:21	6° ₩ 07'47	21°33'07	minimum elong	7700 Feb 10 06:57	23°≈05'26	1°26'05
desc. node	7699 Mar 25 23:28	17° ¥ 30'51		morning rise	7700 Feb 15 16:52	16° ≈ 57'07	
	7699 Apr 03 19:00	$_0$ ° γ		direct	7700 Feb 19 15:08	15° ≈ 29'14	
morning set	7699 Apr 17 10:37	20°Υ′52'23		morning max el	7700 Feb 27 10:04	19°≈54'12	20°17'05
morning set	7699 Apr 23 02:17	0° 8		morning max cr	7700 Mar 07 17:14	0° \	20 17 03
Fauth diet		1° 8 21'34	1 41000 ATT	desc. node		0 X 7° ¥ 15'21	
max. Earth dist.	7699 Apr 23 22:06	1 621 34	1.41969 AU		7700 Mar 12 20:26		
				morning set	7700 Mar 27 11:14	29°) 15′14	
superior conj	7699 May 01 10:52	14° 8 06'49			7700 Mar 27 22:48	0° Υ	
minimum elong	7699 May 01 15:58	14° 8 28'55	1°59'39	max. Earth dist.	7700 Apr 06 05:45	14° Ƴ 37'44	1.43755 AU
	7699 May 10 08:37	Π $^{\circ}0$					
evening rise	7699 May 12 12:03	3° Ⅱ 54'42		superior conj	7700 Apr 12 06:48	24° Ƴ 27'19	-2°11'10
asc. node	7699 May 17 22:23	13° Ⅱ 44′02		minimum elong	7700 Apr 12 07:52	24° Ƴ 31'46	2°11'13
evening max el	7699 May 28 19:58	29° ∏ 44′56	18°09'26		7700 Apr 15 14:47	$8^{\circ 0}$	
	7699 May 29 02:12	0°ಅ		evening rise	7700 Apr 24 23:13	16° 8 00'44	
retrograde	7699 Jun 04 16:30	3° © 13'08		Z .	7700 May 03 02:36	0°II	
evening set	7699 Jun 07 03:33	2° © 46'50		asc. node	7700 May 04 19:26	2° I I46'14	
evening set	7699 Jun 11 16:58	30°RII		evening max el	7700 May 12 08:54	12° I I56'51	18°06'50
inforior coni	7699 Jun 14 01:13	•	2°08'25	-		12 Ⅱ 3031 16° Ⅱ 17'36	18 00 30
inferior conj				retrograde	7700 May 18 19:17		
minimum elong	7699 Jun 14 04:20	27° Ⅱ 49'56	2°07'24	evening set	7700 May 21 13:41	15° Ⅱ 39'23	
min. Earth dist.	7699 Jun 17 09:12	24° ∏ 56′00	0.60038 AU	inferior conj	7700 May 27 20:38	10° Ⅲ 30′05	2°55'00
morning rise	7699 Jun 21 02:18	22° Ⅱ 08'40		minimum elong	7700 May 27 23:11	10° Ⅱ 23′28	2°54'24
desc. node	7699 Jun 21 22:51	21° Ⅱ 39'06		min. Earth dist.	7700 May 30 18:41	7° Ⅱ 28'45	0.62270 AU
direct	7699 Jun 27 14:04	20° Ⅱ 07'59		morning rise	7700 Jun 03 06:53	4° Ⅱ 24'41	
morning max el	7699 Jul 11 22:26	28° Ⅱ 03'06	27°42'30	desc. node	7700 Jun 08 19:53	2° Ⅱ 01'45	
	7699 Jul 13 19:45	0 \circ 60		direct	7700 Jun 10 01:22	1° Ⅱ 57′04	
	7699 Aug 03 12:48	$0^{\circ}\Omega$		morning max el	7700 Jun 24 04:04	9° Ⅱ 58'58	27°54'32
morning set	7699 Aug 12 23:56	18° Ω 20'57		-	7700 Jul 09 18:00	0ංම	
asc. node	7699 Aug 13 21:45	20° Ω 15'14			7700 Jul 26 18:55	$0^{\circ}\Omega$	
	7699 Aug 18 10:10	0° m)		morning set	7700 Jul 28 00:35	2° Ω 29'39	
max. Earth dist.	7699 Aug 19 05:56	1° m)48'47	1.31749 AU	asc. node	7700 Jul 31 18:43	10° Ω 18'38	
max. Earm dist.	7099 Aug 19 05.50	1 11/404/	1.31749 AU			14° Ω 02'55	1.32200 AU
	7.000 4 20 04 20	207 52126	1000127	max. Earth dist.	7700 Aug 02 12:37	14 8602 33	1.32200 AU
superior conj	7699 Aug 20 04:20	3° TQ 52'26	1°00'27				
minimum elong	7699 Aug 20 02:09	3° m/40'23	1°00'02	superior conj	7700 Aug 04 13:39	18° Ω 29'11	
evening rise	7699 Aug 26 22:28	18° m 41'00		minimum elong	7700 Aug 04 12:01	18° Ω 20'14	0°37'33
	7699 Sep 01 10:45	0∘ ⊽			7700 Aug 09 20:00	0° m y	
desc. node	7699 Sep 17 21:51	26° ≏ 27'42		evening rise	7700 Aug 11 09:56	3° m 24'24	
	7699 Sep 20 22:43	0° M			7700 Aug 25 14:52	0∘ ত	
evening max el	7699 Sep 23 14:22	2°M42'24	25°42'49	desc. node	7700 Sep 04 18:55	12° ≏ 54'28	
retrograde	7699 Oct 07 12:50	9° ™ 46′02		evening max el	7700 Sep 05 03:31	13° ≙ 15′25	24°12'10
evening set	7699 Oct 13 16:31	8° M 17'15		retrograde	7700 Sep 18 21:26	20° ₽ 09'05	
min. Earth dist.	7699 Oct 18 02:47	5° ™ 40'46	0.58098 AU	evening set	7700 Sep 23 18:47	19° ≏ 16'22	
inferior conj	7699 Oct 21 05:00	3°M29'32		min. Earth dist.	7700 Sep 29 14:21	16° ≏ 22'11	0.56299 AU
minimum elong	7699 Oct 21 10:41	3°M19'27		inferior conj	7700 Oct 02 00:31	14° £ 52'06	
minimum ciong	7699 Oct 26 21:20	30°R ≏	3 00 10	·	7700 Oct 02 00:31	14° ⊆ 51'48	
morning rise	7699 Oct 26 21:20 7699 Oct 29 07:11	30° ₹ 32 29° £ 09'07		minimum elong morning rise	7700 Oct	14° 2 251'48 10° 2 52'19	3 31 30
•				•			
direct	7699 Oct 31 15:44	28° £ 51'38		direct	7700 Oct 13 01:29	10° £ 33'14	10045140
	7699 Nov 05 04:00	0° M		morning max el	7700 Oct 22 22:55	15° ≙ 12'39	19°45'42
morning max el	7699 Nov 09 04:19	2°M57'33	18°45'25	asc. node	7700 Oct 27 18:15	20° ≏ 47'17	
asc. node	7699 Nov 09 21:16	3° ™ 39'49			7700 Nov 02 13:36	0° M	
morning set	7699 Nov 25 12:01	29° ™ 07'03		morning set	7700 Nov 09 15:39	13°M39'02	
	7699 Nov 25 22:51	0° ∡ ¹					
				superior conj	7700 Nov 17 11:46	29°M29'02	1°31'04
superior conj	7699 Dec 04 02:26	15° ∡ ¹46'41	1°14'01	minimum elong	7700 Nov 17 14:07	29°M40'43	1°30'58
minimum elong	7699 Dec 04 05:48	16° ∡ 02'32	1°13'44	-	7700 Nov 17 18:01	0° ∡ ¹	
max. Earth dist.	7699 Dec 11 06:20			max. Earth dist.	7700 Nov 23 12:03	11° ∡ °04'05	1.37397 AU
	7699 Dec 11 21:52	0°る		evening rise	7700 Nov 27 06:03	17° × 754'50	
desc. node	7699 Dec 14 20:56	5° ප 06'30		desc. node	7700 Dec 01 17:56	25° х 43'55	
evening rise	7699 Dec 15 06:17	5° ප් 46'10		desc. node	7700 Dec 01 17:30 7700 Dec 04 07:20	25 メ ・43 33	
evening 1150	7699 Dec 30 15:57	0°≈			7700 Dec 04 07.20 7700 Dec 24 23:25	0°≈	
			24011100				25927110
evening max el	7700 Jan 19 08:06	25°≈05'29	24°11'08	evening max el	7701 Jan 01 21:15	8°≈52'50	25°26'10
	7700 Jan 25 08:33	0° ∀		retrograde	7701 Jan 14 01:15	15° ≈ 53'03	

	7701 1 10 22.02	12027/20		4 4-	7701 N 10 14.57	1.69.71.012.4	
evening set	7701 Jan 19 22:02	13°≈27'39		desc. node	7701 Nov 18 14:57	16° ₹ 10'34	
asc. node	7701 Jan 23 17:30	9°≈22'29	0.67400.444		7701 Nov 27 09:25	0°る	26020151
min. Earth dist.	7701 Jan 24 07:38	8°≈37'52		evening max el	7701 Dec 15 10:23	22°る37'25	26°28'51
inferior conj	7701 Jan 25 13:47	7°≈00'48	0°36'40	retrograde	7701 Dec 28 07:59	29°る52'14	
minimum elong	7701 Jan 25 12:53	7°≈03'42	0°36'23	evening set	7702 Jan 03 17:17	27°る18'02	0.66200.444
morning rise	7701 Jan 31 04:04	1°≈06'38		min. Earth dist.	7702 Jan 07 20:23	23°る03'12	0.66399 AU
	7701 Feb 03 05:00	30°₹₹		inferior conj	7702 Jan 09 14:06	20°る57'40	
direct	7701 Feb 03 14:16	29° る 59'10		minimum elong	7702 Jan 09 14:39		0°20'14
	7701 Feb 03 23:36	0° ≈		asc. node	7702 Jan 10 14:34	19° る 44'42	
morning max el	7701 Feb 10 14:46	3°≈51'59	19°15'15	morning rise	7702 Jan 15 12:50	15° る 13'48	
greatest brilliancy	7701 Feb 23 19:42	21° ≈ 27'22	-0.7m	direct	7702 Jan 18 12:32	14° る 23'39	
desc. node	7701 Feb 27 17:23	27°≈22'31		morning max el	7702 Jan 25 02:19	17° る 56'37	18°29'21
	7701 Mar 01 10:31	0°) €			7702 Feb 03 06:41	0° ≈	
morning set	7701 Mar 06 11:22	7°) 45′39		morning set	7702 Feb 14 09:25	17° ≈ 26′10	
max. Earth dist.	7701 Mar 19 20:29	28° ∺ 37'32	1.44968 AU	desc. node	7702 Feb 14 14:20	17° ≈ 45'42	
	7701 Mar 20 17:24	0° Y			7702 Feb 22 08:03	0°) €	
superior conj	7701 Mar 23 02:38	3° Ƴ 46'34	-2°04'37	superior conj	7702 Mar 02 07:49	12°) 32'15	-1°38'00
minimum elong	7701 Mar 22 02:38	3° Υ 23'32		minimum elong	7702 Mar 01 22:12	11°) 54'37	
evening rise	7701 Apr 06 12:53	27° Υ 10'30	2 0421	max. Earth dist.	7702 Mar 01 22:12 7702 Mar 02 15:18	13° H 01'37	1.45475 AU
evening rise	7701 Apr 08 05:51	0° 8		max. Earth dist.	7702 Mar 13 10:52	13 χ 013/	1.43473 AU
asc. node	7701 Apr 08 03:31 7701 Apr 21 16:30	21° 8 17'19		evening rise	7702 Mar 18 03:01	7°Υ22'56	
	7701 Apr 25 21:53	26° 8 22'54	18°22'50	_	7702 Mar 18 03.01 7702 Mar 27 11:01	22° Υ 07'19	-0.8m
evening max el		_	18-22-50	greatest brilliancy		0° 8	-0.8m
retrograde	7701 May 02 08:04	29° 8 50'26 28° 8 58'54		1-	7702 Apr 01 15:07	9° 8 07'01	
evening set	7701 May 05 09:32		2010152	asc. node	7702 Apr 08 13:35	_	10056140
inferior conj	7701 May 11 05:50	23° 8 31'27	3°18'53	evening max el	7702 Apr 09 08:15	9° 8 56'00	18°56'40
minimum elong	7701 May 11 07:03	23° 8 27'54	3°18'41	retrograde	7702 Apr 16 02:58	13° 8 43'11	
min. Earth dist.	7701 May 13 13:24	20° 8 50'42	0.64292 AU	evening set	7702 Apr 19 11:45	12° 8 37'35	2025105
morning rise	7701 May 17 03:37	17° 8 17'21		inferior conj	7702 Apr 25 00:58	6° 8 53'38	3°25'05
direct	7701 May 23 20:59	14° 8 33'52		minimum elong	7702 Apr 25 00:50	6° 8 54'04	3°25'02
desc. node	7701 May 26 16:54	14° 8 59'24		min. Earth dist.	7702 Apr 26 17:04	4° 8 47'19	0.65949 AU
morning max el	7701 Jun 06 13:25	22° 8 32'37	27°30'02	morning rise	7702 Apr 30 13:26	0° 8 36'21	
	7701 Jun 13 02:55	0°Щ			7702 May 01 06:57	30°₹ Υ	
	7701 Jul 02 23:57	0°€		direct	7702 May 06 23:39	27° Y 49'15	
morning set	7701 Jul 11 17:11	16° © 12'04			7702 May 13 09:07	0°8	
max. Earth dist.	7701 Jul 16 12:11	25° © 54'24	1.33127 AU	desc. node	7702 May 13 13:54	0° 8 07'38	
	7701 Jul 18 11:00	$0^{\circ}\Omega$		morning max el	7702 May 19 23:56	5° 8 32'49	26°35'11
asc. node	7701 Jul 18 15:43	0° Ω 24'56			7702 Jun 07 17:39	Π °0	
				morning set	7702 Jun 24 22:32	29° Ⅱ 19'29	
superior conj	7701 Jul 19 18:57	2° Ω 49'43	0°11'33		7702 Jun 25 07:06	0	
minimum elong	7701 Jul 19 18:22	2° Ω 46'40	0°11'19	max. Earth dist.	7702 Jun 29 01:35	7° © 18'41	1.34527 AU
behind sun begin	7701 Jul 19 14:30	2° Ω 25'59					
behind sun end	7701 Jul 19 22:15	3° Ω 07'22		superior conj	7702 Jul 03 17:55	16° © 47'43	-0°17'59
evening rise	7701 Jul 26 21:23	18° Ω 04'11		minimum elong	7702 Jul 03 18:56	16° © 52'55	0°17'54
	7701 Aug 01 18:06	O° My		asc. node	7702 Jul 05 12:45	20° © 30'18	
evening max el	7701 Aug 17 15:48	23° m 29'41	22°33'05		7702 Jul 10 01:16	$0 {\circ} \Omega$	
desc. node	7701 Aug 22 15:59	27° m 30'11		evening rise	7702 Jul 11 06:51	2° Ω 34'34	
	7701 Aug 30 04:54	0∘ ⊽			7702 Jul 26 22:21	O° m y	
retrograde	7701 Aug 30 17:30	0° ჲ 00'38		evening max el	7702 Jul 30 11:58	4°₩01'06	21°01'31
	7701 Aug 31 06:09	30°₽.₩		desc. node	7702 Aug 09 13:03	9° № 43'21	
evening set	7701 Sep 03 02:35	29° m 35'33		retrograde	7702 Aug 11 06:22	9° ₯ 50'39	
min. Earth dist.	7701 Sep 10 22:55	26°Mp07'51	0.55078 AU	evening set	7702 Aug 13 12:15	9° ™ 38'44	
inferior conj	7701 Sep 12 01:55	25° m 29′35	-5°06'51	inferior conj	7702 Aug 22 18:39	5° Mp41′29	-3°47'52
minimum elong	7701 Sep 11 18:55	25° m/39'31	5°05'46	minimum elong	7702 Aug 22 09:21	5° m 54'38	3°45'08
morning rise	7701 Sep 20 13:09	21°Mp41'17		min. Earth dist.	7702 Aug 23 08:10	5° Mp 22′24	0.54706 AU
direct	7701 Sep 23 17:47	21°M/18'04		morning rise	7702 Aug 31 06:50	1° Mp 45'38	
morning max el	7701 Oct 05 04:41	26° Mp 39'44	21°07'57	direct	7702 Sep 04 01:54	1° m y 14'47	
	7701 Oct 08 08:36	0∘ ⊽		morning max el	7702 Sep 16 23:22	7° m 23'36	22°47'26
asc. node	7701 Oct 14 15:15	8° ≏ 48'24		asc. node	7702 Oct 01 12:14	27° m/30'31	
morning set	7701 Oct 25 00:00	28° ≏ 23'10			7702 Oct 02 20:46	0∘ ⊽	
	7701 Oct 25 18:38	0° M.		morning set	7702 Oct 09 11:00	13° ≏ 13'36	
superior conj	7701 Nov 01 07:59			superior conj	7702 Oct 16 11:44	28° Ω 17'04	1°41'36
minimum elong	7701 Nov 01 08:59			minimum elong	7702 Oct 16 11:25	28° ≙ 15′26	1°41'38
max. Earth dist.	7701 Nov 05 22:00	22°M59'15	1.35449 AU		7702 Oct 17 07:04	0° M	
_	7701 Nov 09 13:00	0°⊀		max. Earth dist.	7702 Oct 19 15:32	4°M56'49	1.33851 AU
evening rise	7701 Nov 10 00:05	0° ≯ 52'14		evening rise	7702 Oct 24 08:29	14°M28'44	

	7702 Nov 01 17:41	0° ∡ ¹			7703 Oct 08 20:34	0°M	
desc. node	7702 Nov 05 12:01	6° х 21′01		desc. node	7703 Oct 23 09:05	26°M06'56	
	7702 Nov 22 04:51	0°る			7703 Oct 25 21:37	0° ⊼ 7	
evening max el	7702 Nov 27 23:16		27°11'54	evening max el	7703 Nov 10 10:33	19° ∡ ¹20'43	27°28'44
retrograde	7702 Dec 11 09:03	13° る 30'46		retrograde	7703 Nov 24 03:40	26° ₹ 38'42	
evening set	7702 Dec 18 04:42	10° る 53'41		evening set	7703 Dec 01 05:32	24° ₹ 07'18	
min. Earth dist.	7702 Dec 22 02:01	7° る 12'58	0.65022 AU	min. Earth dist.	7703 Dec 04 22:36	20° ∡ ′57'34	0.63315 AU
inferior conj	7702 Dec 24 07:29	4° ප 45'17	-1°24'01	inferior conj	7703 Dec 07 15:15	18° ∡ 16'42	-2°31'47
minimum elong	7702 Dec 24 10:00	4° ප 38'21	1°22'51	minimum elong	7703 Dec 07 19:59	18° ∡ 04'55	2°29'52
asc. node	7702 Dec 28 11:36	0° る 37'57		morning rise	7703 Dec 14 12:18	13° ∡ °01'38	
	7702 Dec 29 08:24	30°₹ ҂ 7		asc. node	7703 Dec 15 08:39	12° ∡ °45′56	
morning rise	7702 Dec 30 16:39	29° ₰ 14'24		direct	7703 Dec 16 21:12	12° ∡ ³34'45	
direct	7703 Jan 02 07:47	28° ₹ 37'50		morning max el	7703 Dec 23 11:37	15° ₹ 59'22	17°48'18
	7703 Jan 06 07:46	0°ಕ			7704 Jan 02 09:23	0°ප	
morning max el	7703 Jan 08 18:17	2° る 01'52	18°00'09	morning set	7704 Jan 08 18:49	10° る 59'45	
morning set	7703 Jan 26 13:09	28° る 35'21		desc. node	7704 Jan 19 08:20	29° る 02'15	
	7703 Jan 27 09:36	0° ≈			7704 Jan 19 22:14	0° ≈	
desc. node	7703 Feb 01 11:20	8° ≈ 20′22					
				superior conj	7704 Jan 20 23:31	1° ≈ 44'38	
superior conj	7703 Feb 09 17:22	21°≈37'29		minimum elong	7704 Jan 20 22:17	1°≈39'29	0°11'33
minimum elong	7703 Feb 09 10:43	21°≈11'01	0°55'53	behind sun begin	7704 Jan 20 15:37	1°≈11'59	
max. Earth dist.	7703 Feb 13 10:50	27°≈30'55	1.45237 AU	behind sun end	7704 Jan 21 04:56	2°≈06'57	
	7703 Feb 15 00:49	0°) (52)2€		max. Earth dist.	7704 Jan 27 04:32	11°≈49'26	1.44289 AU
evening rise	7703 Feb 25 21:37	16° ¥ 52′26 0° Υ		evening rise	7704 Feb 05 08:35	26°≈11'16	
4 41 711	7703 Mar 06 11:09	8° Υ 05'06	0.7		7704 Feb 07 20:18	0° ∀ 0° Υ	
greatest brilliancy	7703 Mar 11 20:21	23° Υ 32'13	-0.7m		7704 Feb 28 12:46	7°Υ10'22	20051100
evening max el asc. node	7703 Mar 23 14:06	26° \begin{picture}(70.3 \\ 0.3 \\ 0.3 \end{picture})	19°46'54	evening max el asc. node	7704 Mar 05 14:34	11° Y 51'24	20°51'08
retrograde	7703 Mar 26 10:40 7703 Mar 31 00:52	26° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		retrograde	7704 Mar 12 07:44 7704 Mar 13 23:20	12° Y $05'27$	
evening set	7703 Apr 03 17:45	26° Υ 29'28		evening set	7704 Mar 18 01:32	12 γ 03 27 10° γ '30'19	
inferior conj	7703 Apr 09 02:55	20° Y 31'00	3°17'22	inferior conj	7704 Mar 18 01:32 7704 Mar 23 09:05	4° Υ 19'35	2°58'19
minimum elong	7703 Apr 09 02:33	20° Υ 35'09	3°17'12	minimum elong	7704 Mar 23 07:07	4°Υ26'23	2°57'55
min. Earth dist.	7703 Apr 09 01:40 7703 Apr 10 04:16	19° Υ 06'18	0.67182 AU	min. Earth dist.	7704 Mar 23 20:53	3° Υ 38'51	0.67977 AU
morning rise	7703 Apr 14 09:18	14° Υ 13'53	0.07102710	mm. Earth dist.	7704 Mar 26 16:15	30°R ₩	0.075777110
direct	7703 Apr 20 08:27	11° Y 34'11		morning rise	7704 Mar 28 12:28	28°\04'52	
desc. node	7703 Apr 30 10:55	16°Υ54'33		direct	7704 Apr 02 22:23	25°) (40'50	
morning max el	7703 May 02 09:36	18° Ƴ 47'26	25°18'44		7704 Apr 11 12:02	0° Υ	
S	7703 May 11 21:01	0°8		morning max el	7704 Apr 13 18:32	2° Y ′09'22	23°50'56
	7703 May 31 19:20	0° I I		desc. node	7704 Apr 16 07:55	4° Y 53'28	
morning set	7703 Jun 07 12:15	11° Ⅱ 39′28			7704 May 04 22:09	0°8	
max. Earth dist.	7703 Jun 11 04:08	18° Ⅱ 22'59	1.36369 AU	morning set	7704 May 19 04:58	22° 8 57'51	
				max. Earth dist.	7704 May 23 00:08	29° 8 34'35	1.38529 AU
superior conj	7703 Jun 17 07:42	0°9515'04	-0°49'18		7704 May 23 05:51	Π $^{\circ}0$	
minimum elong	7703 Jun 17 10:39	0° 5 29'41	0°48'53				
	7703 Jun 17 04:40	0 \circ \odot		superior conj	7704 May 30 08:47	13° Ⅱ 03'24	-1°20'19
asc. node	7703 Jun 22 09:47	10° © 30'12		minimum elong	7704 May 30 13:36	13° Ⅱ 26′11	1°19'42
evening rise	7703 Jun 25 12:05	16° © 48'13		evening rise	7704 Jun 08 10:22	0° ട്ട 38'10	
	7703 Jul 02 07:01	$0^{\circ}\Omega$		asc. node	7704 Jun 08 06:49	0° 5 20'46	
evening max el	7703 Jul 12 21:03	15° Ω 12'31	19°47'05		7704 Jun 08 02:35	0ა ௐ	
retrograde	7703 Jul 22 22:38	20°Ω10'01		evening max el	7704 Jun 24 18:30	27°508'18	18°53'06
evening set	7703 Jul 24 19:17	20° Ω 00'35			7704 Jun 28 11:14	0° N	
desc. node	7703 Jul 27 10:08	19° Ω 17'52	1054146	retrograde	7704 Jul 03 05:38	1°Ω19'11	
inferior conj	7703 Aug 02 17:07	15° Ω 58'49		evening set	7704 Jul 05 05:26	1° Ω 06'12	
minimum elong	7703 Aug 02 11:50	16° Ω 06'57			7704 Jul 08 07:18	30°₹©	0001104
min. Earth dist.	7703 Aug 04 20:03	14° Ω 40′20 11° Ω 35′16	0.55300 AU	inferior conj	7704 Jul 13 09:03 7704 Jul 13 08:59	26°\$48'28 26°\$48'35	
morning rise	7703 Aug 11 02:19			minimum elong			
direct	7703 Aug 29 12:25	10° Ω 49'13 17° Ω 41'37	24022157	transit middle	7704 Jul 13 08:59 7704 Jul 13 05:16	26°548'35 26°555'12	0°01'29
morning max el	7703 Aug 29 12:25 7703 Sep 08 15:00	0° Mp	4 3431	transit begin transit end	7704 Jul 13 05:16 7704 Jul 13 12:42	26°935'12 26°941'57	
asc. node	7703 Sep 08 13:00 7703 Sep 18 09:14	0 mg/42'39		desc. node	7704 Jul 13 12.42	26°951'47	
morning set	7703 Sep 18 09.14 7703 Sep 23 22:46	28° Mp 03'44		min. Earth dist.	7704 Jul 16 11:34	20 \$3147 24°\$36'24	0.56749 AU
morning set	7703 Sep 23 22:40 7703 Sep 24 20:31	ე∘ ი 1003 44		morning rise	7704 Jul 21 09:10	21°548'26	0.5017) AU
	, , 05 5 c p 24 20.51	~ –		direct	7704 Jul 26 19:41	20°537'31	
superior conj	7703 Sep 30 20:14	13° ჲ 03'19	1°36'59	morning max el	7704 Aug 10 02:29	28°502'06	26°08'25
minimum elong	7703 Sep 30 28:14 7703 Sep 30 18:53	13° ⊆ 55'58			7704 Aug 12 01:04	0° Ω	
max. Earth dist.	7703 Oct 02 17:06	17° ⊆ 07'10	1.32685 AU		7704 Sep 01 01:40	0° m)	
evening rise	7703 Oct 08 03:30	28° ♀ 33'24	, , ,	asc. node	7704 Sep 04 06:14	6° Mp 17'04	
3		·			-r · · · · · · ·	4	

morning set	7704 Sep 07 09:41	12° m 49'12			7705 Aug 23 23:23	0° m	
superior conj	7704 Sep 14 07:19	27° m 54'34	1°26'45	superior conj	7705 Aug 29 19:07	12° m 44'34	1°11'26
minimum elong	7704 Sep 14 05:18	27° m 43'24	1°26'32	minimum elong	7705 Aug 29 16:51	12° m 32'02	1°11'03
max. Earth dist.	7704 Sep 15 00:48	29° m 31'10	1.31972 AU	max. Earth dist.	7705 Aug 29 11:14	12° m 00'53	1.31701 AU
	7704 Sep 15 06:01	0° ح		evening rise	7705 Sep 05 13:48	27° m 35'08	
evening rise	7704 Sep 21 06:07	12° ≏ 58'07			7705 Sep 06 17:14	0∘ ⊽	
-	7704 Sep 29 23:09	o° m ₊			7705 Sep 23 11:45	0° M .	
desc. node	7704 Oct 09 06:09	15°ML18'38		desc. node	7705 Sep 26 03:12	3° M 42'37	
	7704 Oct 20 19:35	0° ∡ ¹		evening max el	7705 Oct 04 18:42	13° M 41'34	26°24'59
evening max el	7704 Oct 22 17:57	1° ∡7 54'44	27°13'46	retrograde	7705 Oct 18 16:46	20°M47'33	
retrograde	7704 Nov 05 14:41	9° ₰ 06'39		evening set	7705 Oct 25 08:16	18°M59'12	
evening set	7704 Nov 12 16:14	6° ₰ 751'29		min. Earth dist.	7705 Oct 29 08:04	16°M24'38	0.59274 AU
min. Earth dist.	7704 Nov 16 08:42	4° ∡ ¹05'35	0.61356 AU	inferior conj	7705 Nov 01 12:58	13°M57'23	-4°41'36
inferior conj	7704 Nov 19 10:14	1° ∡ ¹23'49	-3°40'05	minimum elong	7705 Nov 01 19:54	13°M44'02	4°39'57
minimum elong	7704 Nov 19 16:51	1° ₹ 09'12	3°37'52	morning rise	7705 Nov 09 09:48	9°M23'34	
	7704 Nov 21 01:00	30°RM₊		direct	7705 Nov 11 16:11	9° ™ 05'33	
morning rise	7704 Nov 26 19:41	26°M27'50		asc. node	7705 Nov 18 02:43	11°M40'13	
direct	7704 Nov 29 01:24	26°M06'58		morning max el	7705 Nov 19 13:14	12°M56'36	18°20'51
asc. node	7704 Dec 01 05:41	26°M27'29			7705 Dec 01 00:49	0°⊀	
morning max el	7704 Dec 06 03:04	29°M40'30	17°54'43	morning set	7705 Dec 05 10:18	8° ≯ 15'52	
	7704 Dec 06 10:51	0° ≯ 7					
morning set	7704 Dec 21 19:46	24° ҂ 18'50		superior conj	7705 Dec 14 14:37	25° ≯ 33'53	1°00'06
	7704 Dec 24 22:42	0°₹		minimum elong	7705 Dec 14 18:07	25° ₹ 49'55	0°59'45
		_			7705 Dec 17 01:19	0° る	
superior conj	7705 Jan 01 07:27			max. Earth dist.	7705 Dec 22 04:03	8° ろ 57'58	1.40773 AU
minimum elong	7705 Jan 01 09:49	13° ठ 16'07	0°28'15	desc. node	7705 Dec 23 02:17	10° る 32'45	
desc. node	7705 Jan 05 05:18	19° る 47'26		evening rise	7705 Dec 26 16:53	16° る 34'33	
max. Earth dist.	7705 Jan 08 18:34	25° る 42'24	1.42742 AU		7706 Jan 04 03:54	0° ≈	
	7705 Jan 11 09:49	0° ≈			7706 Jan 25 21:07	0° ∀	
evening rise	7705 Jan 15 03:21	5°≈56'56		evening max el	7706 Jan 30 01:15		23°25'14
	7705 Jan 31 03:18	0° ∀	2200 512 6	retrograde	7706 Feb 09 15:03	10°) (48′04	
evening max el	7705 Feb 16 09:52	20° ¥ 50′16	22°05'36	asc. node	7706 Feb 14 01:52	9° 升 10'31	
retrograde	7705 Feb 25 20:31	26° ¥ 26′12		evening set	7706 Feb 14 15:50	8°) (42'41	0.60205.444
asc. node	7705 Feb 27 04:48	26° ¥ 16'54		min. Earth dist.	7706 Feb 19 13:21	2° H 58'55	0.68295 AU
evening set	7705 Mar 02 09:24	24°) 35'47	2020121	inferior conj	7706 Feb 20 01:45	2° H 16'19	1°52'00
inferior conj	7705 Mar 07 17:20	18° ¥ 15'32	2°29'31	minimum elong	7706 Feb 19 23:38	2°) €23'38	1°51'19
minimum elong min. Earth dist.	7705 Mar 07 15:03	18° ¥ 23'28	2°28'54 0.68343 AU	morning rise	7706 Feb 21 18:15	30°R≈ 26°≈10'47	
morning rise	7705 Mar 07 16:39 7705 Mar 12 20:32	18 X 17 34 12° X 04'45	0.08343 AU	morning rise direct	7706 Feb 25 07:23 7706 Mar 01 13:15	26 ≈1047 24°≈30'16	
direct	7705 Mar 17 16:20	12 X 04 43 10° X 01'33		morning max el	7706 Mar 09 21:53	24 ≈30 10 29°≈18'27	20°59'13
morning max el	7705 Mar 17 10:20 7705 Mar 27 05:22	15° X 38'15	22°21'43	morning max ci	7706 Mar 10 14:11	0° \	20 39 13
desc. node	7705 Mai 27 03:22 7705 Apr 03 04:53	23°) (43'53	22 21 43	desc. node	7706 Mar 10 14:11	13°) 11'48	
dese. Hode	7705 Apr 03 04:53	0° Υ		desc. node	7706 Apr 01 13:46	0°Υ	
	7705 Apr 27 22:34	0°8		morning set	7706 Apr 09 06:40	11° Υ 50'39	
morning set	7705 Apr 29 19:13	3° 8 00'28		max. Earth dist.	7706 Apr 17 01:31	24°Υ16'04	1.42797 AU
max. Earth dist.	7705 May 04 21:29	11° 8 27'13	1.40770 AU		7706 Apr 20 13:09	0°8	
		<u> </u>			r	-	
superior conj	7705 May 12 16:41	25° 8 01'33	-1°47'40	superior conj	7706 Apr 24 02:45	5° 8 59'28	-2°06'30
minimum elong	7705 May 12 22:21	25° 8 26'59	1°47'11	minimum elong	7706 Apr 24 06:38	6° 8 15'59	2°06'25
-	7705 May 15 10:40	$\Pi^{\circ}0$		evening rise	7706 May 05 19:54	26° 8 30'26	
evening rise	7705 May 22 22:20	13° II 55'15			7706 May 07 18:46	$\Pi^{\circ}0$	
asc. node	7705 May 26 03:50	19° Ⅱ 56'48		asc. node	7706 May 13 00:52	9° Ⅱ 13'13	
	7705 May 31 20:37	0 \circ \odot		evening max el	7706 May 22 12:15	22° Ⅲ 39'59	18°05'55
evening max el	7705 Jun 08 00:47	9° 5 40'24	18°19'37	retrograde	7706 May 29 03:09	26° Ⅲ 03′23	
retrograde	7705 Jun 15 07:54	13° © 19'31		evening set	7706 May 31 17:23	25° Ⅲ 32′10	
evening set	7705 Jun 17 14:47	12° © 58'50		inferior conj	7706 Jun 07 08:15	20° Ⅲ 33'35	
inferior conj	7705 Jun 24 22:36	8° 5 20'31	1°29'20	minimum elong	7706 Jun 07 11:16	20° Ⅲ 26′14	2°30'26
minimum elong	7705 Jun 25 01:19	8° 5 14'49	1°28'19	min. Earth dist.	7706 Jun 10 12:41	17° Ⅱ 29'43	0.61000 AU
min. Earth dist.	7705 Jun 28 08:18	5° © 31'01	0.58764 AU	morning rise	7706 Jun 14 02:49	14° Ⅱ 36'35	
desc. node	7705 Jun 30 04:15	4° গু 08'52		desc. node	7706 Jun 17 01:17	13° Ⅱ 04'53	
morning rise	7705 Jul 02 08:40	2° 5 47'12		direct	7706 Jun 20 18:15	12° Ⅱ 23'45	
direct	7705 Jul 08 13:04	1°905'04		morning max el	7706 Jul 05 00:54	20° ∏ 22′29	27°52'27
morning max el	7705 Jul 22 22:15		27°18'20		7706 Jul 13 07:19	0ಂ ತಾ	
	7705 Aug 08 00:55	$0^{\circ}\Omega$			7706 Jul 31 23:37	0° Ω	
asc. node	7705 Aug 22 03:14	26° Ω 06'48		morning set	7706 Aug 06 22:13	11° Ω 45′04	
morning set	7705 Aug 22 18:07	27° Ω 24'50		asc. node	7706 Aug 09 00:12	16° Ω 06'25	

max. Earth dist.	7706 Aug 12 20:32	24° Ω 24'26	1.31882 AU	morning set	7707 Jul 21 19:49	25°5944'00	
		_			7707 Jul 23 22:09	0 \circ Ω	
superior conj	7706 Aug 14 05:51		0°51'25	asc. node	7707 Jul 26 21:11	6° Ω 11'44	
minimum elong	7706 Aug 14 03:50	27° Ω 16′20	0°50'59	max. Earth dist.	7707 Jul 27 00:40	6° Ω 30'15	1.32529 AU
	7706 Aug 15 09:31	0° m					
evening rise	7706 Aug 21 00:26	12° m 17'39		superior conj	7707 Jul 29 13:44	11° Ω 58'07	0°27'12
	7706 Aug 29 21:39	0∘ ত		minimum elong	7707 Jul 29 12:28	11° Ω 51'21	0°26'50
desc. node	7706 Sep 13 00:16	20° ≏ 59'17		evening rise	7707 Aug 05 12:09	27° Ω 00′12	
evening max el	7706 Sep 16 11:14	24° ₽ 37'08	25°06'24		7707 Aug 06 22:07	0° m)	
•	7706 Sep 23 19:53	0° M			7707 Aug 24 11:17	0∘ ⊽	
retrograde	7706 Sep 30 08:21	1°MJ37'38		evening max el	7707 Aug 28 22:47	4° ≙ 57'20	23°30'04
evening set	7706 Oct 06 00:53	0°M24'03		desc. node	7707 Aug 30 21:21	6° £ 42'52	
o ronning sec	7706 Oct 06 22:27	30°R ≏		retrograde	7707 Sep 11 12:00	11° ≏ 44'27	
min. Earth dist.	7706 Oct 10 22:40	27° £ 42'38	0.57280 AU	evening set	7707 Sep 11 12:00	11° ⊆ 05'07	
inferior conj	7706 Oct 10 22:40 7706 Oct 13 20:11	25° £ 46'57		min. Earth dist.	7707 Sep 13 17:42 7707 Sep 22 08:37	7° ≏ 58'13	0.55682 AU
minimum elong		25° £ 40'31		inferior conj	-	6° £ 48'59	
Č	7706 Oct 14 00:03		3 23 14	3	7707 Sep 24 07:20		
morning rise	7706 Oct 22 01:30	21° Ω 36'16		minimum elong	7707 Sep 24 04:20	6° £ 53'27	5-27-32
direct	7706 Oct 24 13:02	21° £ 18′24		morning rise	7707 Oct 02 17:11	2° ≏ 56'00	
morning max el	7706 Nov 02 14:29	25° ≙ 36'50	19°08'22	direct	7707 Oct 05 14:19	2° ₽ 35'40	
asc. node	7706 Nov 04 23:43	28° ≏ 10′08		morning max el	7707 Oct 16 03:51	7° ≏ 32'17	20°18'13
	7706 Nov 06 10:43	0° M		asc. node	7707 Oct 22 20:43	15° ≏ 41'55	
morning set	7706 Nov 19 10:05	22°M37'37			7707 Oct 31 01:16	0° M .	
	7706 Nov 23 03:03	0° ∡ ¹		morning set	7707 Nov 03 16:01	7°M15'18	
superior conj	7706 Nov 27 15:51		1°22'18	superior conj	7707 Nov 11 06:19	22°M50'25	1°35'44
minimum elong	7706 Nov 27 18:52	9° ∡ 107'55	1°22'06	minimum elong	7707 Nov 11 08:07	22°M59'29	1°35'43
max. Earth dist.	7706 Dec 04 09:50	21° ∡ ¹29'57	1.38616 AU		7707 Nov 14 20:47	0° ∡ ¹	
evening rise	7706 Dec 08 04:31	28° ҂ 10'43		max. Earth dist.	7707 Nov 16 16:16	3° ∡ ³30′02	1.36530 AU
	7706 Dec 09 05:55	0°ರ		evening rise	7707 Nov 20 12:33	10° ∡ ′41′15	
desc. node	7706 Dec 09 23:17	1°る14'05		desc. node	7707 Nov 26 20:19	21° ∡ ¹47'22	
	7706 Dec 28 14:58	0° ≈			7707 Dec 01 20:48	0°ප	
evening max el	7707 Jan 12 14:29	18° ≈ 18'16	24°43'55		7707 Dec 24 02:21	0° ≈	
retrograde	7707 Jan 24 05:49	25°≈05'33	24 43 33	evening max el	7707 Dec 26 03:25	2°≈04'36	25°54'41
•	7707 Jan 29 19:16	23 ≈03 33 22°≈46'32		•	7707 Dec 20 03:23	2 ≈0430 9°≈13'09	23 3441
evening set				retrograde			
asc. node	7707 Jan 31 22:56	20°≈37'09	0.65051 433	evening set	7708 Jan 13 18:03	6°≈43'23	0.65001.444
min. Earth dist.	7707 Feb 03 08:48	17°≈37'00	0.67851 AU	min. Earth dist.	7708 Jan 18 00:45	2°≈08'21	0.67031 AU
inferior conj	7707 Feb 04 08:33	16° ≈ 18'14	1°06'23	asc. node	7708 Jan 18 20:01	1° ≈ 08'04	
minimum elong	7707 Feb 04 07:03	16° ≈ 23'13	1°05'53	inferior conj	7708 Jan 19 11:49	0° ≈ 18'16	0°13'12
morning rise	7707 Feb 09 19:01	10° ≈ 19′28		minimum elong	7708 Jan 19 11:29	0° ≈ 19'21	0°13'11
direct	7707 Feb 13 11:54	9° ≈ 00'47		transit middle	7708 Jan 19 11:29	0° ≈ 19'21	0°13'11
morning max el	7707 Feb 20 22:10	13° ≈ 10′33	19°48'53	transit begin	7708 Jan 19 09:51	0° ≈ 24'29	
	7707 Mar 05 20:14	0° ∀		transit end	7708 Jan 19 13:06	0° ≈ 14'13	
greatest brilliancy	7707 Mar 05 19:36	29° ≈ 57'41	-0.6m		7708 Jan 19 17:38	30°Ŗる	
desc. node	7707 Mar 07 22:47	3°) €06'34		morning rise	7708 Jan 25 05:27	24°る28'08	
morning set	7707 Mar 19 03:56	20° ℋ 07'49		direct	7708 Jan 28 10:51	23° る 28'38	
Č	7707 Mar 25 12:31	$0^{\circ}\Upsilon$		morning max el	7708 Feb 04 06:03	27° る 11'55	18°53'37
max. Earth dist.	7707 Mar 30 12:25	7° Υ 52'38	1.44351 AU	morning man vi	7708 Feb 06 19:10	0° ≈	10 000,
max. Latin dist.	7707 Mai 30 12.23	7 13230	1.11331710	desc. node	7708 Feb 22 19:44	23°≈20'57	
superior conj	7707 Apr 04 11:56	15° Ƴ 51'59	2°10'50	morning set	7708 Feb 26 11:17	29°≈02'00	
minimum elong	7707 Apr 04 11:36	15° Υ 44'58		morning set	7708 Feb 26 11.17 7708 Feb 27 02:09	29 ≈ 02 00 0° ∺	
minimum ciong	•		2 10 31	Fauth diat			1 45272 ATT
	7707 Apr 13 01:40	0° 8		max. Earth dist.	7708 Mar 12 04:37	22° X 02°29	1.45273 AU
evening rise	7707 Apr 17 22:25	8° 8 13'37				2401/21146	1055120
asc. node	7707 Apr 29 21:56	28° 8 03'25		superior conj	7708 Mar 13 23:43	24°) ₹51'46	
	7707 May 01 05:36	$\Pi^{\circ}0$		minimum elong	7708 Mar 13 15:31	24° ∺ 19'30	1°55'03
evening max el	7707 May 06 01:30	5° Ⅱ 58'37	18°11'23		7708 Mar 17 05:54	0° Y	
retrograde	7707 May 12 10:52	9° Ⅱ 21'01		evening rise	7708 Mar 29 02:01	18° Ƴ 57'49	
evening set	7707 May 15 08:08	8° Ⅲ 37′24			7708 Apr 04 21:23	$0^{\circ}B$	
inferior conj	7707 May 21 10:05	3° Ⅱ 20′09	3°07'34	asc. node	7708 Apr 15 19:01	16° 8 18'12	
minimum elong	7707 May 21 12:06	3° Ⅱ 14'37	3°07'11	evening max el	7708 Apr 18 13:39	19° 8 28'14	18°35'11
min. Earth dist.	7707 May 24 02:16	0° Ⅱ 25'12	0.63161 AU	retrograde	7708 Apr 25 02:35	23° 8 02'45	
	7707 May 24 11:56	30° ₹ 8		evening set	7708 Apr 28 07:02	22° 8 05'28	
morning rise	7707 May 27 14:37	27° 8 09'50		inferior conj	7708 May 03 23:57		3°23'25
direct	7707 Jun 03 09:21	24° 8 33'56		minimum elong	7708 May 04 00:34	16° 8 29'10	3°23'18
desc. node	7707 Jun 03 03:21 7707 Jun 03 22:18	24° 8 34'51		min. Earth dist.	7708 May 04 00:54	14° 8 03'19	0.65046 AU
desc. Houc	7707 Jun 14 13:54	0°II		morning rise	7708 May 00 01:03	10° 8 14'59	0.03040 AU
morning may al	7707 Jun 17 08:42	0 H 2°∏36'42	270/0121	direct		7° 8 28'07	
morning max el	7707 Jul 17 08:42	2° ய 3642 0°9	41 70 41		7708 May 16 08:22	8° 8 31'39	
	//U/Jul U/ 10:11	0 😕		desc. node	7708 May 20 19:19	o O3139	

morning max el	7708 May 29 18:46	15° 8 22'46	27°09'50	direct	7709 Apr 29 13:55	20° Ƴ 57'43	
	7708 Jun 10 18:09	0°II		desc. node	7709 May 07 16:19	24° Y 25'40	
	7708 Jun 29 10:18	0°99		morning max el	7709 May 12 04:50	28° Y 29'40	26°04'34
morning set	7708 Jul 04 08:03	9° © 12'35		C	7709 May 13 15:26	0°8	
max. Earth dist.	7708 Jul 08 19:54	18° © 08'38	1.33660 AU		7709 Jun 04 12:40	$\Pi^{\circ}0$	
				morning set	7709 Jun 17 07:17	22° Ⅱ 00'56	
superior conj	7708 Jul 12 16:37	26°509'44	-0°00'40	max. Earth dist.	7709 Jun 21 04:17	29° Ⅱ 21'12	1.35269 AU
minimum elong	7708 Jul 12 16:40	26°9509'57	0°00'47		7709 Jun 21 12:18	0 \circ \odot	
behind sun begin	7708 Jul 12 11:05	25°5940'34					
behind sun end	7708 Jul 12 22:14	26° © 39'22		superior conj	7709 Jun 26 12:04	9° © 55'38	-0°31'09
asc. node	7708 Jul 12 18:11	26° © 17'59		minimum elong	7709 Jun 26 13:52	10° 5 04'48	0°30'55
	7708 Jul 14 12:06	$0^{\circ}\Omega$		asc. node	7709 Jun 29 15:13	16° 5 21'24	
evening rise	7708 Jul 19 22:58	11° Ω 36′12		evening rise	7709 Jul 04 06:54	26° © 00'02	
	7708 Jul 29 09:41	0° ™			7709 Jul 06 05:54	0 $^{\circ}\Omega$	
evening max el	7708 Aug 09 13:31	15° m 14'47	21°52'32	evening max el	7709 Jul 22 15:01	26° Ω 01′29	20°27'23
desc. node	7708 Aug 16 18:27	20°Mp21'05			7709 Jul 27 21:35	0°Щ	
retrograde	7708 Aug 22 03:55	21° m 29'57		retrograde	7709 Aug 02 16:03	1°₩28'28	
evening set	7708 Aug 24 23:10	21°Mp 12'22		desc. node	7709 Aug 03 15:32	1° ™ 26′03	
min. Earth dist.	7708 Sep 02 17:27	-	0.54803 AU	evening set	7709 Aug 04 16:12	1° mp 18'27	
inferior conj	7708 Sep 03 03:26	17° mp 11'52			7709 Aug 08 20:56	30°R Ω	
minimum elong	7708 Sep 02 18:33	17° m 24'19	4°37'26	inferior conj	7709 Aug 13 20:43	27° Ω 21'12	
morning rise	7708 Sep 11 15:15	13° Tp 22'34		minimum elong	7709 Aug 13 12:35	27° Ω 32'58	
direct	7708 Sep 15 01:39	12° M 56'36		min. Earth dist.	7709 Aug 15 03:24	26° Ω 36'42	0.54851 AU
morning max el	7708 Sep 27 04:24	18° m 38'58	21°48'41	morning rise	7709 Aug 22 08:19	23° Ω 15'48	
,	7708 Oct 06 06:29	0° 亞		direct	7709 Aug 26 11:08	22° Ω 39'21	22022121
asc. node	7708 Oct 08 17:42	4° £ 01'17		morning max el	7709 Sep 08 19:33	29° Ω 07'15	23°32'31
morning set	7708 Oct 18 01:42	22° ≙ 01'57 0° M		4-	7709 Sep 09 17:24	0°Mp	
	7708 Oct 21 20:08	บาแน		asc. node	7709 Sep 25 14:41	22° M 56′54 0° <u>₽</u>	
	7700 0-4 25 06:05	70 m 12112	1941126		7709 Sep 29 05:41	6° £ 52'10	
superior conj minimum elong	7708 Oct 25 06:05 7708 Oct 25 06:30	7°M13'13 7°M15'28	1°41'26 1°41'29	morning set	7709 Oct 02 13:11	0 == 32 10	
max. Earth dist.	7708 Oct 23 06:30 7708 Oct 29 04:57	15°M22'36	1.34718 AU	superior conj	7709 Oct 09 12:04	21° ≏ 52'46	1°40'21
evening rise	7708 Oct 29 04:37 7708 Nov 02 13:10	23°M56'12	1.54/16 AU	minimum elong	7709 Oct 09 12:04 7709 Oct 09 11:17	21° ⊆ 3240 21° ⊆ 48'31	1°40'21
evening rise	7708 Nov 05 18:44	0° √		max. Earth dist.	7709 Oct 05 11:17 7709 Oct 12 02:13	27° £ 25'18	1.33302 AU
desc. node	7708 Nov 12 17:23	12° ₹ 07'40		max. Lartii dist.	7709 Oct 12 02:13	0°M	1.55502 AC
dese. Hode	7708 Nov 24 11:12	0°る		evening rise	7709 Oct 13 07:35 7709 Oct 17 02:26	7°M45'10	
evening max el	7708 Dec 07 16:44	15° පි 46'08	26°50'06	evening rise	7709 Oct 29 07:01	0° ₹	
retrograde	7708 Dec 20 20:26	23° る 04'18	20 20 00	desc. node	7709 Oct 30 14:28	2° × ⁷ 08'23	
evening set	7708 Dec 27 10:17	20°る28'20		evening max el	7709 Nov 20 05:22	29° х 11'17	27°22'49
min. Earth dist.	7708 Dec 31 10:55		0.65849 AU	0.08	7709 Nov 21 02:17	0°る	
inferior conj	7709 Jan 02 09:32	14° る 12'12		retrograde	7709 Dec 03 18:34	6° ප 30'19	
minimum elong	7709 Jan 02 10:52	14° る 08'19	0°46'06	evening set	7709 Dec 10 17:33	3° ⋜ 54'46	
asc. node	7709 Jan 04 17:04	11° る 36'52		min. Earth dist.	7709 Dec 14 12:55	0° る 27'44	0.64328 AU
morning rise	7709 Jan 08 12:27	8° ප 33'12			7709 Dec 14 23:35	30°₽ ⋌ 7	
direct	7709 Jan 11 08:14	7° る 49'17		inferior conj	7709 Dec 16 23:10	27° ₹ 53'31	-1°52'24
morning max el	7709 Jan 17 19:46	11° る 17'29	18°14'48	minimum elong	7709 Dec 17 02:37	27° ∡ ¹44'24	1°50'53
	7709 Jan 31 02:45	0° ≈		asc. node	7709 Dec 22 14:07	22° ₹ 57'24	
morning set	7709 Feb 05 22:04	9° ≈ 21'12		morning rise	7709 Dec 23 13:13	22° ₹ 28'46	
desc. node	7709 Feb 08 16:43	13° ≈ 49′39		direct	7709 Dec 26 01:30	21° ≯ 56′38	
	7709 Feb 18 20:32	0° ∀		morning max el	7710 Jan 01 12:37	25° х 19′40	17°53'00
					7710 Jan 05 10:38	0°ಕ	
superior conj	7709 Feb 21 04:25	3°) (39′49		morning set	7710 Jan 18 13:39	21° る 05'00	
minimum elong	7709 Feb 20 19:22	3°) €04'15			7710 Jan 23 21:04	0° ≈	
max. Earth dist.	7709 Feb 23 00:07	6° ∺ 31′09	1.45468 AU	desc. node	7710 Jan 26 13:41	4° ≈ 27'37	
evening rise	7709 Mar 09 06:57	28°) (49'27					
	7709 Mar 10 01:01	0°Υ		superior conj	7710 Jan 31 21:18	13°≈07'19	
greatest brilliancy	7709 Mar 20 18:47	16° Y 39'22	-0.7m	minimum elong	7710 Jan 31 16:58	12°≈49'53	0°36'54
	7709 Mar 30 05:13	0°8	10017111	max. Earth dist.	7710 Feb 05 19:44	20°≈59'49	1.44919 AU
evening max el	7709 Apr 01 22:24	3° 8 03'50	19°16'11	avanisi-	7710 Feb 11 13:36	0°) 8°¥10!14	
asc. node	7709 Apr 02 16:06	3° 8 47'07		evening rise	7710 Feb 16 20:33	8° ℋ 10'14 0° Ƴ	
retrograde	7709 Apr 08 23:00	7° と 02'15 5° と 50'30		amonto et le citt	7710 Mar 03 08:12	0° Υ 21'54	-0.6m
evening set inferior conj	7709 Apr 12 11:09 7709 Apr 17 22:21	0° 8 00'21	3°23'19	greatest brilliancy evening max el	7710 Mar 03 14:12 7710 Mar 16 02:05	16° Υ 41'08	-0.6m 20°12'38
minimum elong	7709 Apr 17 22:21 7709 Apr 17 21:42	0° 8 02'27	3°23'19 3°23'14	asc. node	7710 Mar 16 02:05 7710 Mar 20 13:12	20° Υ 16'22	20 12 38
minimum ciong	7709 Apr 17 22:27	0° 8 Υ	J 2J 14	retrograde	7710 Mar 20 13:12 7710 Mar 23 21:21	20° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
min. Earth dist.	7709 Apr 19 08:05	30 K I 28°Υ11'08	0.66536 AU	evening set	7710 Mar 23 21:21 7710 Mar 27 18:09	21 γ 13 27 19° Υ 46'44	
morning rise	7709 Apr 23 07:52	23° Υ 43'02	0.00330 AU	inferior conj	7710 Mai 27 18:09 7710 Apr 02 02:22	13° Υ 40'44'	3°10'32
	, 105 ripi 25 01.52	25 1 TS 02		microi conj	,,1011pi 02 02.22	10 1 74 74	5 10 52

7712 Feb 24 09:39

evening set

17° **)** 56'34

7711 Mar 15 14:57

30°**₹**

inferior conj	7712 Feb 29 18:13	11° ¥ 33'03	2014138		7713 Feb 09 15:42	30° R ≈	
minimum elong	7712 Feb 29 15:56	11° X 33'03	2°13'59	min. Earth dist.	7713 Feb 12 09:00	26°≈32'39	0.68145 AU
min. Earth dist.	7712 Feb 29 13:30 7712 Feb 29 12:29	11° X 52'56	0.68363 AU	inferior conj	7713 Feb 12 09:00 7713 Feb 13 02:10	25°≈34'25	1°33'37
morning rise	7712 Pco 29 12:29 7712 Mar 05 22:07	5° \ 24'05	0.08303 AU	minimum elong	7713 Feb 13 02:10	25°≈40'57	1°33'00
direct	7712 Mar 10 11:50	3°) (30'31		morning rise	7713 Feb 18 09:31	19°≈31'20	1 33 00
morning max el	7712 Mar 19 12:27	8°) (46'24	21°45'27	direct	7713 Feb 22 09:46	18° ≈ 00'07	
desc. node	7712 Mar 28 07:14	19°) 16'27	21 4327	morning max el	7713 Mar 02 07:58	22°≈30'39	20°27'36
dese. Hode	7712 Apr 04 23:35	0°Υ		morning max ci	7713 Mar 08 16:55	0° ∀	20 27 30
morning set	7712 Apr 20 21:17	24° Υ 14'33		desc. node	7713 Mar 15 04:10	8° ¥ 56'33	
morning sec	7712 Apr 24 10:51	0°8		dese. node	7713 Mar 29 06:04	0°Υ	
max. Earth dist.	7712 Apr 26 22:57		1.41667 AU	morning set	7713 Mar 31 00:05	2° Υ 42'16	
man. Barur dibu	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 00, 2,	1007.110	max. Earth dist.	7713 Apr 09 05:45	17° Υ 16'54	1.43524 AU
superior conj	7712 May 04 14:30	17° 8 09'40	-1°57'02	man. Barar alou.	7,715 11p1 05 00.10	1, 1100.	1.15021110
minimum elong	7712 May 04 19:51	17° 8 33'05		superior conj	7713 Apr 15 14:09	27° Y 39'48	-2°10'30
g	7712 May 11 18:34	0° I	1 00 .5	minimum elong	7713 Apr 15 16:05	27° Υ 47'52	
evening rise	7712 May 15 10:23	6° ∏ 42'56		erong	7713 Apr 16 23:47	0°8	2 1001
asc. node	7712 May 20 06:20	15° Ⅲ 31'41		evening rise	7713 Apr 28 00:22	18° 8 56'34	
use. Houe	7712 May 29 10:31	0°9		evening rise	7713 May 04 08:53	0°Ⅱ	
evening max el	7712 May 31 16:13	2° 5 29'30	18°11'26	asc. node	7713 May 07 03:24	4° ∏ 37'44	
retrograde	7712 Jun 07 15:06	5°959'54	10 11 20	evening max el	7713 May 15 04:56	15° Ⅱ 38'33	18°06'00
evening set	7712 Jun 10 01:05	5° © 35'08		retrograde	7713 May 21 16:05	18° ∏ 59'25	10 00 00
inferior conj	7712 Jun 17 01:17	0°548'26	1°58'58	evening set	7713 May 24 09:27	18° Ⅱ 23'00	
minimum elong	7712 Jun 17 04:22	0°9341'31	1°57'57	inferior conj	7713 May 30 18:20	13° Ⅱ 16'23	2°49'27
minimum ciong	7712 Jun 17 22:52	30°R∏	1 37 37	minimum elong	7713 May 30 10:20	13° Ⅱ 09'29	2°48'48
min. Earth dist.	7712 Jun 20 10:07	27° I I49'30	0.59708 AU	min. Earth dist.	7713 Jun 02 18:11	10° Ⅱ 13'48	0.61950 AU
morning rise	7712 Jun 24 04:44	25° I I03'37	0.03700110	morning rise	7713 Jun 06 06:42	7° Ⅱ 12'58	0.01900110
desc. node	7712 Jun 24 06:39	25° I 100'46		desc. node	7713 Jun 11 03:41	4° П 59'46	
direct	7712 Jun 30 14:54	23° I 107'30		direct	7713 Jun 13 00:41	4° ∏ 48'55	
ancet	7712 Jul 13 22:22	0°95		morning max el	7713 Jun 27 04:25	12° ∏ 49'56	27°55'08
morning max el	7712 Jul 14 23:31	1°900'27	27°37'22		7713 Jul 10 20:27	0.00 12 (2.1)	27 22 00
morning max or	7712 Aug 04 20:39	0°Ω	27 37 22		7713 Jul 28 06:34	$0^{\circ}\Omega$	
morning set	7712 Aug 15 17:42	20° Ω 53'11		morning set	7713 Jul 30 19:20	5° Ω 04'58	
asc. node	7712 Aug 16 05:40	21° Ω 55'53		asc. node	7713 Aug 03 02:40	11° Ω 58'24	
use. Houe	7712 Aug 19 23:50	0°m		max. Earth dist.	7713 Aug 05 09:58	16°Ω55'06	1.32106 AU
max Farth dist	-		1 31723 AU	max. Latur dist.	7/13 Aug 03 09.36	10 6633 00	1.32100 AC
max. Earth dist.	7712 Aug 22 02:25	4° m/38'01	1.31723 AU		-		
	7712 Aug 22 02:25	4° m 38'01		superior conj	7713 Aug 07 06:54	20° Ω 59'53	0°41'39
superior conj	7712 Aug 22 02:25 7712 Aug 22 21:06	4° m 38'01 6° m 21'24	1°03'30		7713 Aug 07 06:54 7713 Aug 07 05:08	20° Ω 59'53 20° Ω 50'17	
superior conj minimum elong	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53	4° m 38'01 6° m 21'24 6° m 09'08		superior conj minimum elong	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21	20° N 59'53 20° N 50'17 0° M	0°41'39
superior conj	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15	4° m 38'01 6° m 21'24 6° m 09'08 21° m 09'57	1°03'30	superior conj	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36	20° N 59'53 20° N 50'17 0° M 5° M 53'24	0°41'39
superior conj minimum elong evening rise	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33	4° ሺ 38'01 6° ሺ 21'24 6° ሺ 09'08 21° ሺ 09'57 0° Ω	1°03'30	superior conj minimum elong evening rise	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25	20° \$\Omega 59'53\$ 20° \$\Omega 50'17\$ 0° \$\mathre{m}\$ 5° \$\mathre{m}\$ 53'24 0° \$\Omega\$	0°41'39
superior conj minimum elong	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33 7712 Sep 20 05:38	4° \mathref{m} 38'01 6° \mathref{m} 21'24 6° \mathref{m} 09'08 21° \mathref{m} 09'57 0° \omega 28° \omega 32'39	1°03'30	superior conj minimum elong evening rise desc. node	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25 7713 Sep 07 02:43	20° \$\alpha 59'53 20° \$\alpha 50'17 0° \$\mathref{m}\$ 5° \$\mathref{m}\$ 53'24 0° \$\alpha\$ 15° \$\alpha 13'26	0°41'39 0°41'13
superior conj minimum elong evening rise desc. node	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33 7712 Sep 20 05:38 7712 Sep 21 09:45	4° \mathred{m} 38'01 6° \mathred{m} 21'24 6° \mathred{m} 09'08 21° \mathred{m} 09'57 0° \overline{\Omega} 28° \overline{\Omega} 32'39 0° \mathred{m}.	1°03'30 1°03'04	superior conj minimum elong evening rise desc. node evening max el	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25 7713 Sep 07 02:43 7713 Sep 08 07:03	20° \$\alpha 59'53 20° \$\alpha 50'17 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 53'24 0° \$\mathbf{\Omega}\$ 15° \$\mathbf{\Omega}\$ 13'26 16° \$\mathbf{\Omega}\$ 23'55	0°41'39 0°41'13
superior conj minimum elong evening rise desc. node evening max el	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33 7712 Sep 20 05:38 7712 Sep 21 09:45 7712 Sep 26 17:02	4° m 38'01 6° m 21'24 6° m 09'08 21° m 09'57 0° Ω 28° Ω 32'39 0° M 5° M 45'22	1°03'30 1°03'04	superior conj minimum elong evening rise desc. node evening max el retrograde	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25 7713 Sep 07 02:43 7713 Sep 08 07:03 7713 Sep 22 01:59	20° \$\alpha 59'53\\ 20° \$\alpha 50'17\\ 0° \$\mathbf{m}\\ 5° \$\mathbf{m} 53'24\\ 0° \$\alpha \\ 15° \$\alpha 13'26\\ 16° \$\alpha 23'55\\ 23° \$\alpha 19'26\\	0°41'39 0°41'13
superior conj minimum elong evening rise desc. node evening max el retrograde	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33 7712 Sep 20 05:38 7712 Sep 21 09:45 7712 Sep 26 17:02 7712 Oct 10 15:36	4° m 38'01 6° m 21'24 6° m 09'08 21° m 09'57 0° £ 28° £ 32'39 0° M 5° M 45'22 12° M 49'32	1°03'30 1°03'04	superior conj minimum elong evening rise desc. node evening max el retrograde evening set	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25 7713 Sep 07 02:43 7713 Sep 08 07:03 7713 Sep 22 01:59 7713 Sep 27 04:41	20° \$\Omega 59'53\) 20° \$\Omega 50'17\) 0° \$\mathbf{m}\) 5° \$\mathbf{m} 53'24\) 0° \$\Omega \] 15° \$\Omega 13'26\) 16° \$\Omega 23'55\) 23° \$\Omega 19'26\) 22° \$\Omega 21'29\)	0°41'39 0°41'13 24°26'39
superior conj minimum elong evening rise desc. node evening max el retrograde evening set	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33 7712 Sep 20 05:38 7712 Sep 21 09:45 7712 Sep 26 17:02 7712 Oct 10 15:36 7712 Oct 16 22:42	4° m 38'01 6° m 21'24 6° m 09'08 21° m 09'57 0° <u>Ω</u> 28° <u>Ω</u> 32'39 0° M 5° M 45'22 12° M 49'32 11° M 15'38	1°03'30 1°03'04 25°54'37	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist.	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25 7713 Sep 07 02:43 7713 Sep 08 07:03 7713 Sep 22 01:59 7713 Sep 27 04:41 7713 Oct 02 18:01	20° \$\alpha 59'53\\ 20° \$\alpha 50'17\\ 0° \$\mathbf{m}\\ 5° \$\mathbf{m} 53'24\\ 0° \$\alpha \\ 15° \$\alpha 13'26\\ 16° \$\alpha 23'55\\ 23° \$\alpha 19'26\\ 22° \$\alpha 21'29\\ 19° \$\alpha 31'12\\	0°41'39 0°41'13 24°26'39 0.56537 AU
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist.	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33 7712 Sep 20 05:38 7712 Sep 21 09:45 7712 Sep 26 17:02 7712 Oct 10 15:36 7712 Oct 16 22:42 7712 Oct 21 05:47	4° m 38'01 6° m 21'24 6° m 09'08 21° m 09'57 0° <u>Ω</u> 28° <u>Ω</u> 32'39 0° m 5° m 45'22 12° m 49'32 11° m 15'38 8° m 40'09	1°03'30 1°03'04 25°54'37 0.58396 AU	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25 7713 Sep 07 02:43 7713 Sep 08 07:03 7713 Sep 22 01:59 7713 Sep 27 04:41 7713 Oct 02 18:01 7713 Oct 05 07:37	20° \$\alpha 59'53\\ 20° \$\alpha 50'17\\ 0° \$\mathbf{m}\\ 5° \$\mathbf{m} 53'24\\ 0° \$\alpha \\ 15° \$\alpha 13'26\\ 16° \$\alpha 23'55\\ 23° \$\alpha 19'26\\ 22° \$\alpha 21'29\\ 19° \$\alpha 31'12\\ 17° \$\alpha 54'11	0°41'39 0°41'13 24°26'39 0.56537 AU -5°31'15
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33 7712 Sep 20 05:38 7712 Sep 21 09:45 7712 Oct 10 15:36 7712 Oct 16 22:42 7712 Oct 21 05:47 7712 Oct 24 09:01	4° m 38'01 6° m 21'24 6° m 09'08 21° m 09'57 0° £ 28° £ 32'39 0° m 5° m 45'22 12° m 49'32 11° m 15'38 8° m 40'09 6° m 24'18	1°03'30 1°03'04 25°54'37 0.58396 AU -5°02'51	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25 7713 Sep 07 02:43 7713 Sep 08 07:03 7713 Sep 22 01:59 7713 Oct 02 18:01 7713 Oct 05 07:37 7713 Oct 05 08:53	20° \$\alpha 59'53\\ 20° \$\alpha 50'17\\ 0° \$\mathbf{m}\\ 5° \$\mathbf{m} 53'24\\ 0° \$\alpha \\ 15° \$\alpha 13'26\\ 16° \$\alpha 23'55\\ 23° \$\alpha 19'26\\ 22° \$\alpha 21'29\\ 19° \$\alpha 31'12\\ 17° \$\alpha 54'11\\ 17° \$\alpha 52'11\\	0°41'39 0°41'13 24°26'39 0.56537 AU -5°31'15
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33 7712 Sep 20 05:38 7712 Sep 21 09:45 7712 Sep 26 17:02 7712 Oct 10 15:36 7712 Oct 16 22:42 7712 Oct 21 05:47 7712 Oct 24 09:01 7712 Oct 24 15:09	4° m 38'01 6° m 21'24 6° m 09'08 21° m 09'57 0° £ 28° £ 32'39 0° m 5° m 45'22 12° m 49'32 11° m 15'38 8° m 40'09 6° m 24'18 6° m 13'10	1°03'30 1°03'04 25°54'37 0.58396 AU -5°02'51	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25 7713 Sep 07 02:43 7713 Sep 08 07:03 7713 Sep 22 01:59 7713 Sep 27 04:41 7713 Oct 02 18:01 7713 Oct 05 07:37 7713 Oct 05 08:53 7713 Oct 13 15:15	20° \$\alpha 59'53\\ 20° \$\alpha 50'17\\ 0° \$\mathbf{m}\\ 5° \$\mathbf{m} 53'24\\ 0° \$\alpha \\ 15° \$\alpha 13'26\\ 16° \$\alpha 23'55\\ 23° \$\alpha 19'26\\ 22° \$\alpha 21'29\\ 19° \$\alpha 31'12\\ 17° \$\alpha 54'11\\ 17° \$\alpha 52'11\\ 13° \$\alpha 51'46\\	0°41'39 0°41'13 24°26'39 0.56537 AU -5°31'15
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33 7712 Sep 20 05:38 7712 Sep 21 09:45 7712 Sep 26 17:02 7712 Oct 10 15:36 7712 Oct 16 22:42 7712 Oct 21 05:47 7712 Oct 24 09:01 7712 Oct 24 15:09 7712 Nov 01 09:55	4° m 38'01 6° m 21'24 6° m 09'08 21° m 09'57 0° £ 28° £ 32'39 0° m 5° m 45'22 12° m 49'32 11° m 15'38 8° m 40'09 6° m 24'18 6° m 13'10 2° m 00'18	1°03'30 1°03'04 25°54'37 0.58396 AU -5°02'51	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25 7713 Sep 07 02:43 7713 Sep 08 07:03 7713 Sep 22 01:59 7713 Sep 27 04:41 7713 Oct 02 18:01 7713 Oct 05 07:37 7713 Oct 05 08:53 7713 Oct 13 15:15 7713 Oct 16 06:31	20° \$\alpha 59'53\\ 20° \$\alpha 50'17\\ 0° \$\mathbf{m}\\ 5° \$\mathbf{m} 53'24\\ 0° \$\alpha \\ 15° \$\alpha 13'26\\ 16° \$\alpha 23'55\\ 23° \$\alpha 19'26\\ 22° \$\alpha 21'29\\ 19° \$\alpha 31'12\\ 17° \$\alpha 54'11\\ 17° \$\alpha 52'11\\	0°41'39 0°41'13 24°26'39 0.56537 AU -5°31'15 5°31'11
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33 7712 Sep 20 05:38 7712 Sep 21 09:45 7712 Sep 26 17:02 7712 Oct 10 15:36 7712 Oct 16 22:42 7712 Oct 21 05:47 7712 Oct 24 09:01 7712 Oct 24 15:09 7712 Nov 01 09:55 7712 Nov 03 17:45	4° m 38'01 6° m 21'24 6° m 09'08 21° m 09'57 0° Ω 28° Ω 32'39 0° m 5° m 45'22 12° m 49'32 11° m 15'38 8° m 40'09 6° m 24'18 6° m 13'10 2° m 00'18 1° m 42'46	1°03'30 1°03'04 25°54'37 0.58396 AU -5°02'51 5°01'43	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25 7713 Sep 07 02:43 7713 Sep 08 07:03 7713 Sep 22 01:59 7713 Sep 27 04:41 7713 Oct 02 18:01 7713 Oct 05 07:37 7713 Oct 05 08:53 7713 Oct 13 15:15 7713 Oct 16 06:31 7713 Oct 25 22:29	20° \$\alpha 59'53\) 20° \$\alpha 50'17\) 0° \$\mathbf{m}\) 5° \$\mathbf{m} 53'24\) 0° \$\alpha \] 15° \$\alpha 13'26\] 16° \$\alpha 23'55\] 23° \$\alpha 19'26\] 22° \$\alpha 21'29\] 19° \$\alpha 31'12\] 17° \$\alpha 54'11\] 17° \$\alpha 52'11\] 13° \$\alpha 51'46\] 13° \$\alpha 33'02\] 18° \$\alpha 06'38\]	0°41'39 0°41'13 24°26'39 0.56537 AU -5°31'15
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superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33 7712 Sep 20 05:38 7712 Sep 21 09:45 7712 Sep 26 17:02 7712 Oct 10 15:36 7712 Oct 16 22:42 7712 Oct 21 05:47 7712 Oct 24 09:01 7712 Oct 24 15:09 7712 Nov 01 09:55 7712 Nov 03 17:45 7712 Nov 12 02:03 7712 Nov 12 05:08	4° m 38'01 6° m 21'24 6° m 09'08 21° m 09'57 0° £ 28° £ 32'39 0° m 5° m 45'22 11° m 15'38 8° m 40'09 6° m 24'18 6° m 13'10 2° m 00'18 1° m 42'46 5° m 44'41 5° m 52'10	1°03'30 1°03'04 25°54'37 0.58396 AU -5°02'51 5°01'43	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25 7713 Sep 07 02:43 7713 Sep 08 07:03 7713 Sep 22 01:59 7713 Sep 27 04:41 7713 Oct 02 18:01 7713 Oct 05 08:53 7713 Oct 13 15:15 7713 Oct 16 06:31 7713 Oct 25 22:29 7713 Oct 30 02:10 7713 Nov 03 19:47	20° \$\alpha 59'53\) 20° \$\alpha 50'17\) 0° \$\mathbf{m}\) 5° \$\mathbf{m} 53'24\) 0° \$\alpha \] 15° \$\alpha 13'26\] 16° \$\alpha 23'55\] 23° \$\alpha 19'26\] 22° \$\alpha 21'29\] 19° \$\alpha 31'12\] 17° \$\alpha 54'11\] 17° \$\alpha 52'11\] 13° \$\alpha 51'46\] 13° \$\alpha 33'02\] 18° \$\alpha 06'38\] 22° \$\alpha 50'22\] 0° \$\mathbf{m}.	0°41'39 0°41'13 24°26'39 0.56537 AU -5°31'15 5°31'11
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33 7712 Sep 20 05:38 7712 Sep 21 09:45 7712 Sep 26 17:02 7712 Oct 10 15:36 7712 Oct 16 22:42 7712 Oct 21 05:47 7712 Oct 24 09:01 7712 Oct 24 15:09 7712 Nov 01 09:55 7712 Nov 03 17:45 7712 Nov 12 02:03 7712 Nov 12 05:08 7712 Nov 27 09:56	4° m 38'01 6° m 21'24 6° m 09'08 21° m 09'57 0° 2 28° 232'39 0° m 5° m 45'22 12° m 49'32 11° m 15'38 8° m 40'09 6° m 24'18 6° m 13'10 2° m 00'18 1° m 42'46 5° m 44'41 5° m 52'10 0° \$7	1°03'30 1°03'04 25°54'37 0.58396 AU -5°02'51 5°01'43	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25 7713 Sep 07 02:43 7713 Sep 08 07:03 7713 Sep 22 01:59 7713 Sep 27 04:41 7713 Oct 02 18:01 7713 Oct 05 08:53 7713 Oct 13 15:15 7713 Oct 16 06:31 7713 Oct 25 22:29 7713 Oct 30 02:10 7713 Nov 03 19:47 7713 Nov 12 09:12	20° \$\alpha 59'53\) 20° \$\alpha 50'17\) 0° \$\mathbf{m}\) 5° \$\mathbf{m} 53'24\) 0° \$\alpha \] 15° \$\alpha 13'26\] 16° \$\alpha 23'55\] 23° \$\alpha 19'26\] 22° \$\alpha 21'29\] 19° \$\alpha 31'12\] 17° \$\alpha 54'11\] 17° \$\alpha 52'11\] 13° \$\alpha 51'46\] 13° \$\alpha 33'02\] 18° \$\alpha 06'38\] 22° \$\alpha 50'22\] 0° \$\mathbf{m}\] 16° \$\mathbf{m} 09'06	0°41'39 0°41'13 24°26'39 0.56537 AU -5°31'15 5°31'11
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33 7712 Sep 20 05:38 7712 Sep 21 09:45 7712 Sep 26 17:02 7712 Oct 10 15:36 7712 Oct 16 22:42 7712 Oct 21 05:47 7712 Oct 24 09:01 7712 Oct 24 15:09 7712 Nov 01 09:55 7712 Nov 03 17:45 7712 Nov 12 02:03 7712 Nov 12 05:08	4° m 38'01 6° m 21'24 6° m 09'08 21° m 09'57 0° £ 28° £ 32'39 0° m 5° m 45'22 11° m 15'38 8° m 40'09 6° m 24'18 6° m 13'10 2° m 00'18 1° m 42'46 5° m 44'41 5° m 52'10	1°03'30 1°03'04 25°54'37 0.58396 AU -5°02'51 5°01'43	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25 7713 Sep 07 02:43 7713 Sep 08 07:03 7713 Sep 22 01:59 7713 Sep 27 04:41 7713 Oct 02 18:01 7713 Oct 05 08:53 7713 Oct 13 15:15 7713 Oct 16 06:31 7713 Oct 25 22:29 7713 Oct 30 02:10 7713 Nov 03 19:47	20° \$\alpha 59'53\) 20° \$\alpha 50'17\) 0° \$\mathbf{m}\) 5° \$\mathbf{m} 53'24\) 0° \$\alpha \] 15° \$\alpha 13'26\] 16° \$\alpha 23'55\] 23° \$\alpha 19'26\] 22° \$\alpha 21'29\] 19° \$\alpha 31'12\] 17° \$\alpha 54'11\] 17° \$\alpha 52'11\] 13° \$\alpha 51'46\] 13° \$\alpha 33'02\] 18° \$\alpha 06'38\] 22° \$\alpha 50'22\] 0° \$\mathbf{m}.	0°41'39 0°41'13 24°26'39 0.56537 AU -5°31'15 5°31'11
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33 7712 Sep 20 05:38 7712 Sep 21 09:45 7712 Sep 26 17:02 7712 Oct 10 15:36 7712 Oct 16 22:42 7712 Oct 21 05:47 7712 Oct 24 09:01 7712 Nov 01 09:55 7712 Nov 03 17:45 7712 Nov 12 02:03 7712 Nov 12 05:08 7712 Nov 27 09:56 7712 Nov 28 06:24	4° m 38'01 6° m 21'24 6° m 09'08 21° m 09'57 0° \(\odoldow{\text{D}}\) 28° \(\odoldow{\text{D}}\) 32'39 0° m 5° m 45'22 12° m 49'32 11° m 15'38 8° m 40'09 6° m 24'18 6° m 13'10 2° m 00'18 1° m 42'46 5° m 44'41 5° m 52'10 0° \(\text{P}\) 1° \(\text{P}\) 39'06	1°03'30 1°03'04 25°54'37 0.58396 AU -5°02'51 5°01'43	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25 7713 Sep 07 02:43 7713 Sep 08 07:03 7713 Sep 22 01:59 7713 Sep 27 04:41 7713 Oct 02 18:01 7713 Oct 05 07:37 7713 Oct 05 08:53 7713 Oct 13 15:15 7713 Oct 16 06:31 7713 Oct 25 22:29 7713 Nov 12 09:12 7713 Nov 19 06:18	20° \$\alpha 59'53\) 20° \$\alpha 59'17\) 0° \$\mathbf{m}\) 5° \$\mathbf{m} 53'24\) 0° \$\alpha \] 15° \$\alpha 13'26\] 16° \$\alpha 23'55\] 23° \$\alpha 19'26\] 22° \$\alpha 21'29\] 19° \$\alpha 31'12\] 17° \$\alpha 54'11\] 17° \$\alpha 52'11\] 13° \$\alpha 51'46\] 13° \$\alpha 33'02\] 18° \$\alpha 06'38\] 22° \$\alpha 50'22\] 0° \$\mathbf{m}\] 16° \$\mathbf{m} 09'06\] 0° \$\nabla \]	0°41'39 0°41'13 24°26'39 0.56537 AU -5°31'15 5°31'11
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superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33 7712 Sep 20 05:38 7712 Sep 21 09:45 7712 Sep 26 17:02 7712 Oct 10 15:36 7712 Oct 16 22:42 7712 Oct 21 05:47 7712 Oct 24 09:01 7712 Oct 24 15:09 7712 Nov 01 09:55 7712 Nov 12 02:03 7712 Nov 12 02:03 7712 Nov 12 02:03 7712 Nov 27 09:56 7712 Nov 28 06:24 7712 Dec 07 00:09 7712 Dec 13 08:11 7712 Dec 14 06:59 7712 Dec 17 04:40 7712 Dec 18 09:38 7712 Dec 31 21:18	4° m 38'01 6° m 21'24 6° m 09'08 21° m 09'57 0° Ω 28° Ω 32'39 0° m 5° m 45'22 11° m 15'38 8° m 40'09 6° m 24'18 6° m 13'10 2° m 00'18 1° m 42'46 5° m 44'41 5° m 52'10 0° ズ 1° ズ 39'06 18° ズ 27'50 18° ズ 43'56 0° ℧ 1° ℧ 40'34 8° ℧ 40'34 8° ℧ 42'53 0° ※	1°03'30 1°03'04 25°54'37 0.58396 AU -5°02'51 5°01'43 18°38'19 1°10'40 1°10'21 1.39860 AU	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25 7713 Sep 07 02:43 7713 Sep 08 07:03 7713 Sep 22 01:59 7713 Sep 27 04:41 7713 Oct 02 18:01 7713 Oct 05 08:53 7713 Oct 13 15:15 7713 Oct 16 06:31 7713 Oct 25 22:29 7713 Oct 30 02:10 7713 Nov 12 09:12 7713 Nov 12 09:12 7713 Nov 12 09:12 7713 Nov 20 07:36 7713 Nov 20 10:08 7713 Nov 20 10:08 7713 Nov 20 10:08 7713 Nov 20 10:08 7713 Dec 04 01:42 7713 Dec 05 15:58 7713 Dec 25 21:43	20° \$\alpha 59'53 20° \$\alpha 59'17 0° m 5° m 53'24 0° \Overline{	0°41'39 0°41'13 24°26'39 0.56537 AU -5°31'15 5°31'11 19°35'19 1°29'01 1°28'53 1.37710 AU
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superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening rise	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33 7712 Sep 20 05:38 7712 Sep 21 09:45 7712 Sep 26 17:02 7712 Oct 10 15:36 7712 Oct 16 22:42 7712 Oct 21 05:47 7712 Oct 24 09:01 7712 Oct 24 15:09 7712 Nov 01 09:55 7712 Nov 03 17:45 7712 Nov 12 02:03 7712 Nov 12 02:03 7712 Nov 12 05:08 7712 Nov 27 09:56 7712 Nov 28 06:24 7712 Dec 07 00:09 7712 Dec 17 00:09 7712 Dec 13 08:11 7712 Dec 14 06:59 7712 Dec 17 04:40 7712 Dec 31 21:18 7713 Jan 22 07:43 7713 Jan 24 18:31	4° \$\mathrm{0}\ 38'01 6° \$\mathrm{0}\ 21'24 6° \$\mathrm{0}\ 09'08 21° \$\mathrm{0}\ 09'57 0° \$\omega\$ 28° \$\omega\$ 32'39 0° \$\mathrm{0}\ 5° \$\mathrm{M}\ 45'22 11° \$\mathrm{M}\ 15'38 8° \$\mathrm{M}\ 40'09 6° \$\mathrm{M}\ 24'18 6° \$\mathrm{M}\ 13'10 2° \$\mathrm{M}\ 00'18 1° \$\mathrm{M}\ 42'46 5° \$\mathrm{M}\ 44'41 5° \$\mathrm{M}\ 52'10 0° \$\nall{m}\ 1° \$\nall{m}\ 43'56 0° \$\nall{m}\ 1° \$\nall{M}\ 40'34 8° \$\nall{M}\ 42'53 0° \$\implies 27° \$\implies 43'17 0° \$\mathrm{H}\ 40'34	1°03'30 1°03'04 25°54'37 0.58396 AU -5°02'51 5°01'43 18°38'19 1°10'40 1°10'21 1.39860 AU	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25 7713 Sep 07 02:43 7713 Sep 08 07:03 7713 Sep 22 01:59 7713 Sep 27 04:41 7713 Oct 05 07:37 7713 Oct 05 08:53 7713 Oct 13 15:15 7713 Oct 16 06:31 7713 Oct 25 22:29 7713 Oct 30 02:10 7713 Nov 12 09:12 7713 Nov 12 09:12 7713 Nov 12 09:12 7713 Nov 12 09:12 7713 Nov 20 07:36 7713 Nov 20 07:36 7713 Nov 20 10:08 7713 Nov 20 10:08 7713 Nov 20 10:08 7713 Dec 04 01:42 7713 Dec 05 15:58 7713 Dec 25 21:43 7714 Jan 04 20:55 7714 Jan 16 21:40	20° \$\alpha 59'53 20° \$\alpha 59'17 0° m 5° m 53'24 0° \omega 15° \omega 13'26 16° \omega 23'55 23° \omega 19'26 22° \omega 21'29 19° \omega 31'12 17° \omega 52'11 17° \omega 52'11 17° \omega 52'11 13° \omega 51'46 13° \omega 33'02 18° \omega 06'38 22° \omega 50'22 0° m 16° m 09'06 0° \neq " 2° \neq "05'02 2° \neq "17'34 13° \neq 58'21 20° \neq "43'45 27° \neq "19'17 0° \omega 0° \text{\$\infty} 10° \omega 00'22 18° \text{\$\infty} 30'22 18° \text{\$\infty} 30'22 18° \text{\$\infty} 27'20	0°41'39 0°41'13 24°26'39 0.56537 AU -5°31'15 5°31'11 19°35'19 1°29'01 1°28'53 1.37710 AU
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening rise evening max el	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33 7712 Sep 20 05:38 7712 Sep 21 09:45 7712 Sep 26 17:02 7712 Oct 10 15:36 7712 Oct 16 22:42 7712 Oct 21 05:47 7712 Oct 24 09:01 7712 Nov 01 09:55 7712 Nov 03 17:45 7712 Nov 12 02:03 7712 Nov 12 02:03 7712 Nov 12 05:08 7712 Nov 27 09:56 7712 Nov 28 06:24 7712 Dec 07 00:09 7712 Dec 13 08:11 7712 Dec 14 06:59 7712 Dec 18 09:38 7712 Dec 31 21:18 7713 Jan 22 07:43 7713 Jan 24 18:31 7713 Feb 02 08:58	4° m 38'01 6° m 21'24 6° m 09'08 21° m 09'57 0° Ω 28° Ω 32'39 0° M 5° M 45'22 12° M 49'32 11° M 15'38 8° M 40'09 6° M 24'18 6° M 13'10 2° M 00'18 1° M 42'46 5° M 44'41 5° M 52'10 0° ጾ 1° ጾ 39'06 18° ጾ 27'50 18° ጾ 43'56 0° ℧ 1° ℧ 40'12 6° ℧ 40'34 8° ℧ 42'53 0° ‰ 27° ‰ 43'17 0° ℋ 4° ℋ 13'14	1°03'30 1°03'04 25°54'37 0.58396 AU -5°02'51 5°01'43 18°38'19 1°10'40 1°10'21 1.39860 AU	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25 7713 Sep 07 02:43 7713 Sep 08 07:03 7713 Sep 22 01:59 7713 Sep 27 04:41 7713 Oct 05 07:37 7713 Oct 05 08:53 7713 Oct 13 15:15 7713 Oct 16 06:31 7713 Oct 13 15:15 7713 Oct 16 06:31 7713 Oct 25 22:29 7713 Oct 30 02:10 7713 Nov 03 19:47 7713 Nov 12 09:12 7713 Nov 12 09:12 7713 Nov 19 06:18 7713 Nov 20 07:36 7713 Nov 20 07:36 7713 Nov 20 10:08 7713 Nov 20 10:08 7713 Nov 20 10:08 7713 Dec 04 01:42 7713 Dec 05 15:58 7713 Dec 25 21:43 7714 Jan 04 20:55 7714 Jan 16 21:40 7714 Jan 22 16:37	20° \$\alpha 59'53 20° \$\alpha 59'17 0° m 5° m 53'24 0° \omega 15° \omega 13'26 16° \omega 23'55 23° \omega 19'26 22° \omega 21'29 19° \omega 31'12 17° \omega 52'11 17° \omega 52'11 17° \omega 52'11 13° \omega 53'02 18° \omega 06'38 22° \omega 50'22 0° m 16° m 09'06 0° \neq " 2° \neq "05'02 2° \neq "17'34 13° \neq 58'21 20° \neq "43'45 27° \neq "19'17 0° \omega 0° \infty 11° \infty 30'22 18° \infty 27'20 16° \infty 30'26	0°41'39 0°41'13 24°26'39 0.56537 AU -5°31'15 5°31'11 19°35'19 1°29'01 1°28'53 1.37710 AU
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening rise	7712 Aug 22 02:25 7712 Aug 22 21:06 7712 Aug 22 18:53 7712 Aug 29 15:15 7712 Sep 02 21:33 7712 Sep 20 05:38 7712 Sep 21 09:45 7712 Sep 26 17:02 7712 Oct 10 15:36 7712 Oct 16 22:42 7712 Oct 21 05:47 7712 Oct 24 09:01 7712 Oct 24 15:09 7712 Nov 01 09:55 7712 Nov 03 17:45 7712 Nov 12 02:03 7712 Nov 12 02:03 7712 Nov 12 05:08 7712 Nov 27 09:56 7712 Nov 28 06:24 7712 Dec 07 00:09 7712 Dec 17 00:09 7712 Dec 13 08:11 7712 Dec 14 06:59 7712 Dec 17 04:40 7712 Dec 31 21:18 7713 Jan 22 07:43 7713 Jan 24 18:31	4° \$\mathrm{0}\ 38'01 6° \$\mathrm{0}\ 21'24 6° \$\mathrm{0}\ 09'08 21° \$\mathrm{0}\ 09'57 0° \$\omega\$ 28° \$\omega\$ 32'39 0° \$\mathrm{0}\ 5° \$\mathrm{M}\ 45'22 11° \$\mathrm{M}\ 15'38 8° \$\mathrm{M}\ 40'09 6° \$\mathrm{M}\ 24'18 6° \$\mathrm{M}\ 13'10 2° \$\mathrm{M}\ 00'18 1° \$\mathrm{M}\ 42'46 5° \$\mathrm{M}\ 44'41 5° \$\mathrm{M}\ 52'10 0° \$\nall{m}\ 1° \$\nall{m}\ 43'56 0° \$\nall{m}\ 1° \$\nall{M}\ 40'34 8° \$\nall{M}\ 42'53 0° \$\implies 27° \$\implies 43'17 0° \$\mathrm{H}\ 40'34	1°03'30 1°03'04 25°54'37 0.58396 AU -5°02'51 5°01'43 18°38'19 1°10'40 1°10'21 1.39860 AU	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	7713 Aug 07 06:54 7713 Aug 07 05:08 7713 Aug 11 09:21 7713 Aug 14 02:36 7713 Aug 26 17:25 7713 Sep 07 02:43 7713 Sep 08 07:03 7713 Sep 22 01:59 7713 Sep 27 04:41 7713 Oct 05 07:37 7713 Oct 05 08:53 7713 Oct 13 15:15 7713 Oct 16 06:31 7713 Oct 25 22:29 7713 Oct 30 02:10 7713 Nov 12 09:12 7713 Nov 12 09:12 7713 Nov 12 09:12 7713 Nov 12 09:12 7713 Nov 20 07:36 7713 Nov 20 07:36 7713 Nov 20 10:08 7713 Nov 20 10:08 7713 Nov 20 10:08 7713 Dec 04 01:42 7713 Dec 05 15:58 7713 Dec 25 21:43 7714 Jan 04 20:55 7714 Jan 16 21:40	20° \$\alpha 59'53 20° \$\alpha 59'17 0° m 5° m 53'24 0° \omega 15° \omega 13'26 16° \omega 23'55 23° \omega 19'26 22° \omega 21'29 19° \omega 31'12 17° \omega 52'11 17° \omega 52'11 17° \omega 52'11 13° \omega 51'46 13° \omega 33'02 18° \omega 06'38 22° \omega 50'22 0° m 16° m 09'06 0° \neq " 2° \neq "05'02 2° \neq "17'34 13° \neq 58'21 20° \neq "43'45 27° \neq "19'17 0° \omega 0° \text{\$\infty} 10° \omega 00'22 18° \text{\$\infty} 30'22 18° \text{\$\infty} 30'22 18° \text{\$\infty} 27'20	0°41'39 0°41'13 24°26'39 0.56537 AU -5°31'15 5°31'11 19°35'19 1°29'01 1°28'53 1.37710 AU

		00 2000	0044445		55115 210111	00	
inferior conj	7714 Jan 28 07:42	9°≈36'08	0°44'45		7714 Dec 24 04:41	0° ≈	
minimum elong	7714 Jan 28 06:38	9°≈39'38	0°44'25	retrograde	7714 Dec 31 05:20	2°≈28'59	
morning rise	7714 Feb 02 20:56	3°≈40'46			7715 Jan 06 10:44	30°Rる	
direct	7714 Feb 06 08:51	2°≈30'27	10022120	evening set	7715 Jan 06 12:52	29°る55'39 25°る35'40	0.66570 ATT
morning max el	7714 Feb 13 11:35 7714 Feb 26 10:54	6°≈27'04 23°≈35'57	19°23'28 -0.7m	min. Earth dist. inferior conj	7715 Jan 10 16:50 7715 Jan 12 08:52	23° る 33'49	0.66578 AU
greatest brilliancy desc. node	7714 Feb 26 10.34 7714 Mar 02 01:08	23 ≈3337 29°≈00'30	-0.7111	,	7715 Jan 12 09:10	23° る 32'53	0°11'12
desc. node	7714 Mar 02 01:08	29 ≈ 00 30		minimum elong transit middle	7715 Jan 12 09:10	23° る 32'53	0°11'12
morning set	7714 Mar 02 10:48	11° X 06'39		transit initiale	7715 Jan 12 07:06	23° る 32'33	0 11 12
morning set	7714 Mar 09 22:38	0° Υ		transit ocgin	7715 Jan 12 07:00	23° る 26'35	
max. Earth dist.	7714 Mar 22 01:30		1.44832 AU	asc. node	7715 Jan 12 11:14	23° ろ 52'31	
max. Lattii dist.	//14 Widi 22 17.43	1 11133	1.44032 AC	morning rise	7715 Jan 18 06:14	17°る48'22	
superior conj	7714 Mar 26 13:11	7° Ƴ 06'28	-2°06'55	direct	7715 Jan 21 07:21	16°る55'57	
minimum elong	7714 Mar 26 08:25	6° Υ 47'25		morning max el	7715 Jan 27 22:18	20° る 31'10	18°35'06
evening rise	7714 Apr 09 17:27	0° 8 14'45	2 00 13	morning max or	7715 Feb 04 09:53	0° ≈	10 33 00
e vennig 1150	7714 Apr 09 13:55	0°8		desc. node	7715 Feb 16 22:07	19° ≈ 21'24	
asc. node	7714 Apr 24 00:28	23° 8 13'44		morning set	7715 Feb 17 16:32	20° ≈ 34'07	
evening max el	7714 Apr 28 18:04	29° 8 02'27	18°19'18	8 - 11	7715 Feb 23 16:06	0°) €	
<i>y</i>	7714 Apr 29 18:39	0°Щ					
retrograde	7714 May 05 03:44	2° Ⅱ 28'18		superior conj	7715 Mar 05 19:31	15° ¥ 54'03	-1°43'09
evening set	7714 May 08 04:07	1° Ⅱ 38'48		minimum elong	7715 Mar 05 10:02	15° ¥ 16'54	1°42'17
•	7714 May 10 11:11	30° ₹ 8		max. Earth dist.	7715 Mar 05 13:55	15° ¥ 32′07	1.45446 AU
inferior conj	7714 May 14 01:45	26° 8 13'49	3°16'29		7715 Mar 14 18:52	0° Υ	
minimum elong	7714 May 14 03:11	26° 8 09'42	3°16'14	evening rise	7715 Mar 21 11:02	10° Ƴ 35′00	
min. Earth dist.	7714 May 16 11:32	23° 8 29'00	0.64008 AU	greatest brilliancy	7715 Mar 29 23:28	24° Y 07'38	-0.8m
morning rise	7714 May 20 01:11	20° 8 00'29			7715 Apr 02 18:15	0°8	
direct	7714 May 26 19:04	17° 8 18'42		asc. node	7715 Apr 10 21:32	11° 8 10'15	
desc. node	7714 May 29 00:42	17° 8 34'36		evening max el	7715 Apr 12 04:55	12° 8 34'32	18°50'35
morning max el	7714 Jun 09 13:31	25° 8 18'45	27°35'51	retrograde	7715 Apr 18 21:57	16° 8 18'15	
	7714 Jun 13 20:18	Π $^{\circ}0$		evening set	7715 Apr 22 05:34	15° 8 14'51	
	7714 Jul 04 08:22	0		inferior conj	7715 Apr 27 19:38		3°25'08
morning set	7714 Jul 14 13:21	18° © 51'52		minimum elong	7715 Apr 27 19:41	9° 8 33'07	3°25'03
max. Earth dist.	7714 Jul 19 10:57	28° © 50'57	1.32958 AU	min. Earth dist.	7715 Apr 29 14:03	7° 8 21'04	0.65723 AU
	7714 Jul 20 00:07	$0^{\circ}\Omega$		morning rise	7715 May 03 09:15	3° 8 16'05	
asc. node	7714 Jul 20 23:41	2° Ω 04'30		direct	7715 May 09 20:48	0° 8 28'41	
		0		desc. node	7715 May 15 21:42	2° 8 24'59	
superior conj	7714 Jul 22 12:57	5° Ω 23'09		morning max el	7715 May 23 00:04	8° 8 15'56	26°44'59
minimum elong	7714 Jul 22 12:11	5° Ω 19'02	0°15'31		7715 Jun 08 22:11	0°Π	
behind sun begin	7714 Jul 22 10:52	5° Ω 12'02		. ,	7715 Jun 26 18:06	0°©	
behind sun end	7714 Jul 22 13:29 7714 Jul 29 14:13	5° Ω 26'03		morning set max. Earth dist.	7715 Jun 27 20:39	2°505'24	1.34284 AU
evening rise		20° Ω 34'07 0° m		max. Earth dist.	7715 Jul 02 01:59	10°©19'08	1.34284 AU
evening max el	7714 Aug 03 04:01 7714 Aug 20 18:49	26° Mp 38'16	22047141	superior conj	7715 Jul 06 13:02	19° © 24'58	0012121
desc. node	7714 Aug 20 18:49 7714 Aug 24 23:49	20 iij 38 10 0° Ω 07'58	22 4/41	minimum elong	7715 Jul 06 13:46	19 3 24 38	0°13'18
dese. Hode	7714 Aug 24 25:45	0° ರ 0 – 07 38		behind sun begin	7715 Jul 06 10:31	19° 9 511'54	0 13 16
retrograde	7714 Sep 02 23:56	ა — 3° ჲ 14'10		behind sun end	7715 Jul 06 17:02	19°5945'43	
evening set	7714 Sep 06 14:17	2° £ 45'48		asc. node	7715 Jul 07 20:43	22° © 10'16	
	7714 Sep 13 01:01	2 <u>—</u> 13 16 30°R, Mp			7715 Jul 11 13:51	0°Ω	
min. Earth dist.	7714 Sep 14 02:45	-	0.55208 AU	evening rise	7715 Jul 14 00:07	5° Ω 06'14	
inferior conj	7714 Sep 15 11:18	28° m 37'23		-	7715 Jul 27 16:31	0° m/	
minimum elong	7714 Sep 15 05:15	28° mp 46'04		evening max el	7715 Aug 02 13:21	7° m, 05'09	21°14'14
morning rise	7714 Sep 23 22:15	24° Mp 48'33		desc. node	7715 Aug 11 20:53	12° m 44'21	
direct	7714 Sep 27 00:50	24° Mp 26'13		retrograde	7715 Aug 14 13:26	13° m)01'58	
morning max el	7714 Oct 08 06:14	29°M/41'00	20°54'29	evening set	7715 Aug 16 22:08	12° m 48'59	
	7714 Oct 08 14:15	0∘ ত		inferior conj	7715 Aug 26 04:30	8° m 51'16	-4°02'50
asc. node	7714 Oct 16 23:10	10° ≏ 44'03		minimum elong	7715 Aug 25 19:04	9° m 04'33	4°00'13
	7714 Oct 27 06:59	0°M₊		min. Earth dist.	7715 Aug 26 11:53	8° m 40'52	0.54701 AU
morning set	7714 Oct 27 17:02	0°M51'50		morning rise	7715 Sep 03 16:39	4° m 57'43	
				direct	7715 Sep 07 09:17	4° m/28'22	
superior conj	7714 Nov 04 02:29	16°M14'36	1°39'01	morning max el	7715 Sep 20 02:22	10° mp 30'31	22°31'51
minimum elong	7714 Nov 04 03:41	16° ™ 20'49	1°39'04	asc. node	7715 Oct 03 20:11	29° m 20'24	
max. Earth dist.	7714 Nov 08 21:47	25°M54'05	1.35718 AU		7715 Oct 04 05:02	0∘ ⊽	
	7714 Nov 11 00:36	0° 🗖		morning set	7715 Oct 12 03:43	15° ≏ 41'01	
evening rise	7714 Nov 12 22:01	3° ₹ 34'26			7715 Oct 18 20:35	0°M₊	
desc. node	7714 Nov 20 22:45	17° ₹ 47'47			7715 0 + 10 05 15	00 m 4300	1041144
evening max el	7714 Nov 28 14:24	0°る 25° ろ 15'21	26920120	superior conj	7715 Oct 19 05:16	0°M46'09	1°41'44
evening may el	7714 Dec 18 09:57	25° る 15'21	20-20-28	minimum elong	7715 Oct 19 05:09	0°M45'31	1°41'48

minimum elong	7717 Sep 16 22:00	0° £ 10'45	1°28'27	minimum elong	7718 Sep 01 09:31	14° m 59'45	1°13'43
	7717 Sep 16 20:04	0。 亚		max. Earth dist.	7718 Sep 01 07:44	14° m 49'49	1.31708 AU
max. Earth dist.	7717 Sep 17 21:23	2° ≏ 19'44	1.32048 AU	evening rise	7718 Sep 08 06:49	0° ჲ 04'03	
evening rise	7717 Sep 23 23:43	15° ≏ 28'16			7718 Sep 08 06:03	0∘ ত	
	7717 Oct 01 08:34	0° M			7718 Sep 24 13:04	0° M	
desc. node	7717 Oct 11 13:57	17°M08'31		desc. node	7718 Sep 28 11:00	5°M41'00	
	7717 Oct 21 05:53	0°⊀		evening max el	7718 Oct 07 20:40	16° ™ 39'48	26°34'20
evening max el	7717 Oct 25 18:53	4° ₹ 45'36	27°18'12	retrograde	7718 Oct 21 18:33	23°M46'46	
retrograde	7717 Nov 08 15:02	11° ₰ ′58′08		evening set	7718 Oct 28 12:24	21°M53'35	
evening set	7717 Nov 15 17:15	9° ∡ ³39'51		min. Earth dist.	7718 Nov 01 10:15	19° ™ 18'33	0.59585 AU
min. Earth dist.	7717 Nov 19 09:28	6° ₰ 751'10	0.61661 AU	inferior conj	7718 Nov 04 15:18	16° ™ 47'55	-4°33'12
inferior conj	7717 Nov 22 09:56	4° ₰ 08'42	-3°30'00	minimum elong	7718 Nov 04 22:22	16°M34'02	4°31'24
minimum elong	7717 Nov 22 16:20	3° ≯ 54'18	3°27'46	morning rise	7718 Nov 12 10:37	12°M10'50	
	7717 Nov 27 19:17	30°RM		direct	7718 Nov 14 16:38	11°M52'35	
morning rise	7717 Nov 29 17:33	29°M09'36		asc. node	7718 Nov 20 10:36	13°M58'48	
direct	7717 Dec 01 23:35	28°M48'00		morning max el	7718 Nov 22 10:11	15°M40'16	18°15'39
asc. node	7717 Dec 03 13:35	28°M59'03			7718 Dec 02 09:16	0°⊀	
	7717 Dec 06 00:31	0°⊀		morning set	7718 Dec 08 05:27	10° х 49′32	
morning max el	7717 Dec 08 22:58	2° ҂ 19'31	17°52'33				
morning set	7717 Dec 24 16:37	26° ₹ 57'15		superior conj	7718 Dec 17 13:51	28° ≯ 19'03	
	7717 Dec 26 09:00	0°ප		minimum elong	7718 Dec 17 17:19	28° ≯ 34'46	0°55'32
					7718 Dec 18 12:09	0°ප	
superior conj	7718 Jan 04 09:48	15° る 59'52		max. Earth dist.	7718 Dec 25 04:38	11° る 42'51	1.41085 AU
minimum elong	7718 Jan 04 11:48	16° る 08'27	0°22'42	desc. node	7718 Dec 25 10:05	12° る 05'59	
desc. node	7718 Jan 07 13:04	21° る 20'19		evening rise	7718 Dec 29 22:11	19° る 35'49	
max. Earth dist.	7718 Jan 11 18:32	28° る 21'23	1.43006 AU		7719 Jan 05 11:13	0° ≈	
	7718 Jan 12 18:44	0° ≈			7719 Jan 26 16:42	0° ∀	
evening rise	7718 Jan 18 11:51	9° ≈ 07'02		evening max el	7719 Feb 02 00:38	7° ∺ 09'58	23°13'14
	7718 Feb 01 07:54	0° ∀		retrograde	7719 Feb 12 10:30	13°) 1 9′47	
evening max el	7718 Feb 19 08:53	23°) €28'14	21°53'58	asc. node	7719 Feb 16 09:47	12° 米 01′26	
retrograde	7718 Feb 28 15:25	28° ¥ 57'55		evening set	7719 Feb 17 09:27	11° ∺ 16′29	
asc. node	7718 Mar 01 12:43	28° ¥ 53′52		inferior conj	7719 Feb 22 18:58	4° ¥ 50′39	1°58'12
evening set	7718 Mar 05 02:41	27°) €09'40		minimum elong	7719 Feb 22 16:47	4°) 58′11	1°57'32
inferior conj	7718 Mar 10 10:26	20° 米 50′36	2°34'25	min. Earth dist.	7719 Feb 22 08:15	5°) €27'36	0.68328 AU
minimum elong	7718 Mar 10 08:10	20° ¥ 58′28	2°33'51		7719 Feb 26 15:22	30° R ≈	
min. Earth dist.	7718 Mar 10 11:31	20°) 46′51	0.68320 AU	morning rise	7719 Feb 28 00:04	28° ≈ 44'15	
morning rise	7718 Mar 15 13:30	14°) (39′13		direct	7719 Mar 04 07:55	27°≈00'26	
direct	7718 Mar 20 11:24	12°) 32′52			7719 Mar 10 18:21	0° ∀	
morning max el	7718 Mar 30 05:00	18°) 17' 07	22°34'43	morning max el	7719 Mar 12 20:34	1° ¥ 55'34	21°10'49
desc. node	7718 Apr 05 12:36	25°) €31'30		desc. node	7719 Mar 23 09:34	14°) € 54'21	
	7718 Apr 08 23:15	0° Υ			7719 Apr 02 20:01	0° Υ	
	7718 Apr 29 06:37	0°8		morning set	7719 Apr 12 18:38	15° Y 15'14	
morning set	7718 May 03 03:32	6° 8 15'20		max. Earth dist.	7719 Apr 20 02:04	26° Y 58'19	1.42516 AU
max. Earth dist.	7718 May 07 23:15	14° 8 18'07	1.40447 AU		7719 Apr 21 22:14	9° 8	
superior conj	7718 May 15 18:18	27° 8 57'54		superior conj	7719 Apr 27 07:54	9° 8 05'23	
minimum elong	7718 May 15 23:58	28° 8 23'33	1°43'25	minimum elong	7719 Apr 27 12:18	9° 8 24'13	2°04'18
	7718 May 16 21:13	0°II		evening rise	7719 May 08 19:21	29° 8 21'08	
evening rise	7718 May 25 19:18	16° Ⅲ 38'43			7719 May 09 03:59	$\Pi^{\circ 0}$	
asc. node	7718 May 28 11:47	21° ∏ 41'43		asc. node	7719 May 15 08:49	11° Ⅱ 01'46	
	7718 Jun 02 01:54	0∘ ௐ		evening max el	7719 May 25 08:18	25° ∏ 22'19	18°06'44
evening max el	7718 Jun 10 21:21	12° © 25'53	18°23'16	retrograde	7719 Jun 01 01:01	28° ∏ 47'12	
retrograde	7718 Jun 18 07:56	16° © 08'53		evening set	7719 Jun 03 14:05	28° Ⅱ 17'47	
evening set	7718 Jun 20 13:39	15° © 49'36		inferior conj	7719 Jun 10 07:15	23° Ⅱ 22'14	2°23'37
inferior conj	7718 Jun 28 00:16	11°5514'18	1°17'25	minimum elong	7719 Jun 10 10:20		2°22'43
minimum elong	7718 Jun 28 02:46	11° © 09'12	1°16'29	min. Earth dist.	7719 Jun 13 13:04	20° Ⅱ 18'49	0.60662 AU
min. Earth dist.	7718 Jul 01 09:46	8° © 28'59	0.58438 AU	morning rise	7719 Jun 17 04:04	17° ∏ 27'57	
desc. node	7718 Jul 02 11:59	7° © 39'47		desc. node	7719 Jun 19 09:02	16°∏16'09	
morning rise	7718 Jul 05 12:35	5° © 45'15		direct	7719 Jun 23 18:20	15° Ⅱ 19'13	
direct	7718 Jul 11 14:35	4°9508'05		morning max el	7719 Jul 08 01:46	23° Ⅱ 17'02	27°49'50
morning max el	7718 Jul 25 23:58	11° © 51'21	27°10'10		7719 Jul 14 01:39	0°€	
	7718 Aug 09 04:25	0 $^{\circ}$ Ω			7719 Aug 02 09:30	0 $^{\circ}\Omega$	
asc. node	7718 Aug 24 11:09	27° Ω 47'48		morning set	7719 Aug 09 16:23	14° Ω 18'24	
morning set	7718 Aug 25 11:30	29° Ω 55'18		asc. node	7719 Aug 11 08:09	17° Ω 46′26	
	7718 Aug 25 12:24	0° m		max. Earth dist.	7719 Aug 15 17:22	27° Ω 14'41	1.31823 AU
superior conj	7718 Sep 01 11:46	15° m 12'14	1°14'05	superior conj	7719 Aug 16 22:48	29° Ω 56'41	0°54'46

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minimum elong	7719 Aug 16 20:43	29° Ω 45'11	0°54'19	superior conj	7720 Jul 31 07:15	14° Ω 29'37	0°31'07
	7719 Aug 16 23:24	0° m		minimum elong	7720 Jul 31 05:51	14° Ω 22'00	0°30'45
evening rise	7719 Aug 23 17:09	14° Mp 46'07		evening rise	7720 Aug 07 04:50	29° Ω 28'58	
	7719 Aug 31 06:13	0∘ ⊽			7720 Aug 07 10:39	0° m	
desc. node	7719 Sep 15 08:05	23° ≏ 09'17			7720 Aug 24 04:22	0∘ ⊽	
evening max el	7719 Sep 19 14:16	27° £ 42'10	25°19'36	evening max el	7720 Aug 31 02:14	8° ഫ 06'02	23°44'53
	7719 Sep 22 05:02	0° M		desc. node	7720 Sep 01 05:09	9° ჲ 08'40	
retrograde	7719 Oct 03 12:01	4°M44'06		retrograde	7720 Sep 13 17:28	14° ≏ 55'47	
evening set	7719 Oct 09 08:45	3°M25'05		evening set	7720 Sep 18 04:40	14° ≏ 12'04	
min. Earth dist.	7719 Oct 14 02:02	0°M45'48	0.57557 AU	min. Earth dist.	7720 Sep 24 12:32	11° ≏ 09'51	0.55882 AU
	7719 Oct 15 05:22	30° ₹ Ω		inferior conj	7720 Sep 26 15:31	9° ჲ 53'11	-5°30'37
inferior conj	7719 Oct 17 01:32	28° ≏ 44'18		minimum elong	7720 Sep 26 13:40	9° Ω 55'59	5°30'32
minimum elong	7719 Oct 17 06:08	28° ≏ 36′27	5°18'41	morning rise	7720 Oct 05 00:52	5° ≏ 58'00	
morning rise	7719 Oct 25 05:52	24° ≏ 30′22		direct	7720 Oct 07 20:20	5° ≏ 38'10	
direct	7719 Oct 27 16:13	24° ≏ 12'44		morning max el	7720 Oct 18 04:15	10° ≏ 28'48	20°06'26
morning max el	7719 Nov 05 13:03	28° ≏ 26'34	18°59'54	asc. node	7720 Oct 24 04:39	17° ≏ 41'10	
asc. node	7719 Nov 07 07:38	0° M 17′54			7720 Oct 31 11:21	0° M	
	7719 Nov 07 01:15	0°M₊		morning set	7720 Nov 05 09:16	9°M43'47	
morning set	7719 Nov 22 04:06	25°M08'08					
	7719 Nov 24 15:06	0°⊀		superior conj	7720 Nov 13 01:29		1°34'12
				minimum elong	7720 Nov 13 03:30	25°M33'55	1°34'10
superior conj	7719 Nov 30 12:45	11° ≯ 31'51	1°19'30		7720 Nov 15 09:04	0°⊀	
minimum elong	7719 Nov 30 15:54	11° ∡ 746′57	1°19'16	max. Earth dist.	7720 Nov 18 16:29		1.36826 AU
max. Earth dist.	7719 Dec 07 10:28	24° ∡ 19'47	1.38937 AU	evening rise	7720 Nov 22 11:47	13° ∡ ¹26'35	
	7719 Dec 10 15:50	0° ろ		desc. node	7720 Nov 28 04:10	23° х 23'19	
evening rise	7719 Dec 11 06:34	1° る 03'29			7720 Dec 02 04:23	0°る	
desc. node	7719 Dec 12 07:07	2° る 48'22			7720 Dec 23 16:51	0° ≈	
	7719 Dec 29 18:24	0° ≈		evening max el	7720 Dec 28 03:07	4°≈42'09	25°45'02
evening max el	7720 Jan 15 14:05		24°32'35	retrograde	7721 Jan 09 12:49	11° ≈ 48′06	
retrograde	7720 Jan 27 01:59	27° ≈ 38'30		evening set	7721 Jan 15 13:04	9° ≈ 19'50	
evening set	7720 Feb 01 13:28	25°≈21'28		min. Earth dist.	7721 Jan 19 20:46	4°≈39'35	0.67175 AU
asc. node	7720 Feb 03 06:51	23°≈40'29		asc. node	7721 Jan 20 03:55	4°≈17'07	
min. Earth dist.	7720 Feb 06 04:06	20°≈06'42	0.67938 AU	inferior conj	7721 Jan 21 06:06	2°≈53'58	
inferior conj	7720 Feb 07 02:10	18°≈53'04	1°13'51	minimum elong	7721 Jan 21 05:33	2°≈55'44	0°21'40
minimum elong	7720 Feb 07 00:32	18°≈58'30	1°13'18		7721 Jan 23 15:22	30°₹₹	
morning rise	7720 Feb 12 11:45	12°≈53'04		morning rise	7721 Jan 26 22:31	27°る02'18	
direct	7720 Feb 16 06:28	11°≈31'16		direct	7721 Jan 30 05:34	26°る00'03	
morning max el	7720 Feb 23 19:39	15°≈46'10	19°58'25	morning max el	7721 Feb 06 02:27	29° ප් 46'30	19°00'49
	7720 Mar 06 00:01	0°) (4515.4			7721 Feb 06 07:51	0° ≈	0.0
desc. node	7720 Mar 09 06:34	4°) (45'54		greatest brilliancy	7721 Feb 20 05:08	18°≈55'11	-0.8m
morning set	7720 Mar 21 16:36	23°) €33'14		desc. node	7721 Feb 24 03:33	24°≈58'02	
n d ti	7720 Mar 25 20:23	0° Υ	1 44155 ATT	. ,	7721 Feb 27 09:29	0°) (10102	
max. Earth dist.	7720 Apr 01 11:46	10° Y 27′55	1.44155 AU	morning set	7721 Feb 28 21:01	2°) 18'02	1 45104 411
	7720 4 06 20 51	1000007150	2011122	max. Earth dist.	7721 Mar 15 03:29	24° 大 34'34	1.45184 AU
superior conj	7720 Apr 06 20:51	19° Υ 07'50			7721.14 17 11 12	2001/12/55	1050115
minimum elong	7720 Apr 06 20:10	19° Y 05'03	2°11'24	superior conj	7721 Mar 17 11:13	28°) 13'55	
avaniei-	7720 Apr 13 10:36	0° 8		minimum elong	7721 Mar 17 03:45	27°) 44′30 0° °	1~58'48
evening rise	7720 Apr 20 01:01	11° 8 12'43		ovonii-	7721 Mar 18 14:05		
asc. node	7720 May 01 05:53	29° ႘ 56'39		evening rise	7721 Apr 01 08:10	22° Y 05'49	
avanie 1	7720 May 01 06:46	0° Ⅱ ∞ Ⅲ 20′05	10000125	000 m-J-	7721 Apr 06 04:15	0°8	
evening max el	7720 May 07 21:34	8° Ⅱ 39'05	18°09'25	asc. node	7721 Apr 18 02:57	18° 8 17'28	10020120
retrograde	7720 May 14 07:06	12° Ⅱ 00'39		evening max el	7721 Apr 21 10:04	22° 8 07'39	18°30'30
evening set	7720 May 17 03:21	11° Ⅱ 18'59	2002127	retrograde	7721 Apr 27 21:50	25° 8 39'22	
inferior conj	7720 May 23 06:59	6°П04'34 5°П58'36		evening set	7721 May 01 01:15	24° 8 44'06	2922105
minimum elong	7720 May 23 09:12			inferior conj	7721 May 06 19:17	19° 8 12'09	
min. Earth dist.	7720 May 26 01:19 7720 May 29 11:14	3°Ⅱ06'53 30°R ႘	0.62856 AU	minimum elong min. Earth dist.	7721 May 06 20:07 7721 May 08 22:40	19° 8 09'39 16° 8 39'36	3°21'56 0.64793 AU
	•						0.04/93 AU
morning rise	7720 May 29 13:28 7720 Jun 05 08:15	29° 8 55'45 27° 8 22'27		morning rise direct	7721 May 12 14:10	12° と 56'43 10° と 10'44	
direct					7721 May 19 06:10		
desc. node	7720 Jun 05 06:03	27° ႘ 22'28 0° 川		desc. node	7721 May 23 03:03	10° 8 58'40	27017127
mannin 1	7720 Jun 12 21:28		27051111	morning max el	7721 Jun 01 18:43	18° ႘ 07'02	21-17-26
morning max el	7720 Jun 19 08:54	5° Ⅱ 25'18	2/~51/11		7721 Jun 11 18:00	0° ∏	
	7720 Jul 07 21:56	0°9			7721 Jun 30 20:06	0°95	
morning set	7720 Jul 23 15:07	28°©20'51		morning set	7721 Jul 07 04:56	11°954'28	1 22464 433
,	7720 Jul 24 10:40	0° Ω		max. Earth dist.	7721 Jul 11 19:11	21° © 06'05	1.33464 AU
asc. node	7720 Jul 28 05:10	7° Ω 51'18	1 22404 433		7701 1.1 15 11 00	2005/4127	0002146
max. Earth dist.	7720 Jul 28 22:26	9° Ω 23'20	1.32404 AU	superior conj	7721 Jul 15 11:02	28°5944'36	0°03'46

minimum elong	7721 Jul 15 10:51	28° © 43'37	0°03'38	max. Earth dist.	7722 Jun 24 05:21	2° 5 22'42	1.35001 AU
behind sun begin	7721 Jul 15 05:26	28° © 14'59					
behind sun end	7721 Jul 15 16:15	29° © 12'17		superior conj	7722 Jun 29 07:45	12° © 34'50	-0°26'26
asc. node	7721 Jul 15 02:11	27° 9 57'46		minimum elong	7722 Jun 29 09:16	12°5642'33	0°26'14
	7721 Jul 16 01:15	0 $^{\circ}\Omega$		asc. node	7722 Jul 01 23:11	18° © 01'56	
evening rise	7721 Jul 22 15:55	14° Ω 06'31		evening rise	7722 Jul 07 00:24	28°532'45	
	7721 Jul 30 16:07	0° m ∕			7722 Jul 07 17:20	$0^{\circ}\Omega$	
evening max el	7721 Aug 12 16:00	18° m 22'01	22°06'30	evening max el	7722 Jul 25 15:30	29° Ω 02'46	20°38'55
desc. node	7721 Aug 19 02:12	23° m 08'15			7722 Jul 26 15:45	0° m y	
retrograde	7721 Aug 25 10:38	24° Mp 42'56		retrograde	7722 Aug 05 22:41	4° ™ 37'50	
evening set	7721 Aug 28 10:27	24° m 23'04		desc. node	7722 Aug 05 23:15	4° m ,37'49	
min. Earth dist.	7721 Sep 05 21:14	20° m 43'29	0.54879 AU	evening set	7722 Aug 08 00:31	4° m)27'18	
inferior conj	7721 Sep 06 13:16	20° m 20'59	-4°50'23	inferior conj	7722 Aug 17 06:00	0° My 30′20	-3°18'52
minimum elong	7721 Sep 06 04:55	20° m 32'43	4°48'42	minimum elong	7722 Aug 16 21:19	0° Mp 42′46	3°16'05
morning rise	7721 Sep 15 00:53	16° Mp 32'27			7722 Aug 18 03:08	30° ₹Ω	
direct	7721 Sep 18 09:16	16° m 07'29		min. Earth dist.	7722 Aug 18 06:47	29° Ω 54'48	0.54779 AU
morning max el	7721 Sep 30 06:33	21°Mp42'36	21°34'08	morning rise	7722 Aug 25 17:53	26° Ω 28'47	
	7721 Oct 07 06:25	0∘ ⊽		direct	7722 Aug 29 17:55	25° Ω 54'29	
asc. node	7721 Oct 11 01:39	5° ₽ 54'39			7722 Sep 09 06:51	0° m	
morning set	7721 Oct 20 18:32	24° ₽ 30'01		morning max el	7722 Sep 11 22:45	2° m 15'43	23°16'44
Ü	7721 Oct 23 09:17	0° M .		asc. node	7722 Sep 27 22:39	24° m 45'45	
					7722 Sep 30 16:31	0° ق	
superior conj	7721 Oct 28 00:04	9° M .43'48	1°41'01	morning set	7722 Oct 05 05:51	9° £ 20'20	
minimum elong	7721 Oct 28 00:42	9° M 47'06	1°41'05		,, ,,,	. —	
max. Earth dist.	7721 Nov 01 04:13	18°M17'06	1.34965 AU	superior conj	7722 Oct 12 05:17	24° £ 21'37	1°40'55
evening rise	7721 Nov 05 10:12	26°M36'00	1.5 .7 00 110	minimum elong	7722 Oct 12 04:40	24° £ 18'17	1°40'57
evening 1130	7721 Nov 07 05:34	0° √		minimum ciong	7722 Oct 12 04:40	0°M	1 4037
desc. node	7721 Nov 15 01:12	13° ∡ 46'13		max. Earth dist.	7722 Oct 14 20:47 7722 Oct 15 00:11	0°ML17'55	1.33483 AU
desc. flode	7721 Nov 25 13:22	0°₹ 4013		evening rise	7722 Oct 19 21:46	10°M20'30	1.55465 AC
evening max el	7721 Nov 23 13:22 7721 Dec 10 16:26	18°る25'26	26°43'06	evening rise	7722 Oct 30 14:33	10 ll c 20 30	
retrograde	7721 Dec 10 10:20 7721 Dec 23 18:04	18 3 23 20 25° る 42'27	20 43 00	desc. node	7722 Oct 30 14.33 7722 Nov 01 22:14	3° ∡ ¹50′25	
•	7721 Dec 30 06:23	23° る 4227 23° る 07'04		desc. node	7722 Nov 21 07:30	ッズ・3023 0°る	
evening set		23 3 07 04 19° る 01'34	0.66050 ATT			0 3 1° る 53'29	27910124
min. Earth dist.	7722 Jan 03 07:53		0.66050 AU	evening max el	7722 Nov 23 05:09		2/-19/34
inferior conj	7722 Jan 05 04:46	16° る 49'21		retrograde	7722 Dec 06 17:10	9° る 12'54	
minimum elong	7722 Jan 05 05:48	16° 3 46'16	0°36'41	evening set	7722 Dec 13 15:06	6° る 36'35	0.64570 ATT
asc. node	7722 Jan 07 00:57	14°る42'36		min. Earth dist.	7722 Dec 17 11:06	3°₹04'56	0.64578 AU
morning rise	7722 Jan 11 06:10	11° る 08'33		inferior conj	7722 Dec 19 19:44	0°る32'48	
direct	7722 Jan 14 03:19	10°る22'29		minimum elong	7722 Dec 19 22:50	0°る24'26	1°40'47
morning max el	7722 Jan 20 15:26		18°19'33		7722 Dec 20 07:57	30°R. ✓	
	7722 Feb 01 08:59	0° ≈		asc. node	7722 Dec 24 21:59	25° ₹ 52'11	
morning set	7722 Feb 09 03:19	12° ≈ 24'02		morning rise	7722 Dec 26 08:02	25° ₹ 05'52	
desc. node	7722 Feb 11 00:32	15°≈25'13		direct	7722 Dec 28 21:17	24° ⋌ ³32'14	
	7722 Feb 20 04:45	0° ∀		morning max el	7723 Jan 04 08:00	27° ₹ '55'21	17°55'10
		70 1 1 1 1 1 1 1 1 1 1			7723 Jan 06 05:34	0°る	
superior conj	7722 Feb 24 15:42	7° ₩ 00'19		morning set	7723 Jan 21 14:49	23° る 56'01	
minimum elong	7722 Feb 24 06:18	6° ¥ 23'27			7723 Jan 25 05:54	0° ≈	
max. Earth dist.	7722 Feb 25 22:54		1.45491 AU	desc. node	7723 Jan 28 21:30	6° ≈ 02'07	
	7722 Mar 11 08:25	0° Υ					
evening rise	7722 Mar 12 16:13	2° Y ′04'39		superior conj	7723 Feb 04 05:41	16° ≈ 19'14	
greatest brilliancy	7722 Mar 23 10:25	18° Y ′52'04	-0.8m	minimum elong	7723 Feb 04 00:31	15° ≈ 58'29	0°43'41
	7722 Mar 31 01:09	0° 8		max. Earth dist.	7723 Feb 08 18:38	23° ≈ 32'12	1.45046 AU
evening max el	7722 Apr 04 19:25	5° 8 42'33	19°08'58		7723 Feb 12 21:30	0° ∀	
asc. node	7722 Apr 05 00:00	5° 8 54'04		evening rise	7723 Feb 20 07:16	11° ∺ 27'52	
retrograde	7722 Apr 11 17:44	9° 8 36'41			7723 Mar 04 12:31	0 ° $\mathbf{\Upsilon}$	
evening set	7722 Apr 15 04:44	8° 8 27'02		greatest brilliancy	7723 Mar 07 00:45	3° Y 42′10	-0.6m
inferior conj	7722 Apr 20 16:34	2° 8 39'00	3°24'11	evening max el	7723 Mar 18 23:50	19° Ƴ 19'44	20°03'19
minimum elong	7722 Apr 20 16:05	2° 8 40'31	3°24'06	asc. node	7723 Mar 22 21:03	22° Y 33'30	
min. Earth dist.	7722 Apr 22 04:30	0° ႘ 43'44	0.66345 AU	retrograde	7723 Mar 26 16:00	23° Ƴ 46'42	
	7722 Apr 22 18:28	30° ŖƳ		evening set	7723 Mar 30 11:25	22° Y 22'15	
morning rise	7722 Apr 26 03:04	26° Y 21'40		inferior conj	7723 Apr 04 19:54	16° Ƴ 20′03	3°13'11
direct	7722 May 02 10:39	23° Y 35'35		minimum elong	7723 Apr 04 18:25	16° Y 25′03	3°12'58
desc. node	7722 May 10 00:04	26° Y 37'00		min. Earth dist.	7723 Apr 05 17:19	15° Ƴ 07'41	0.67451 AU
	7722 May 13 23:51	0° 8		morning rise	7723 Apr 10 01:11	10° Ƴ 03'34	
morning max el	7722 May 15 04:55	1° 8 11'39	26°15'38	direct	7723 Apr 15 20:48	7° Ƴ 27'43	
	7722 Jun 05 19:08	$\Pi^{\circ}0$		desc. node	7723 Apr 26 21:04	13° Y 46'16	
morning set	7722 Jun 20 06:22	24° Ⅱ 49'36		morning max el	7723 Apr 27 14:21	14° Ƴ 29'17	24°55'09
	7722 Jun 22 23:53	0 \circ \odot			7723 May 10 06:05	8°	
					•		

	7725 Apr 06 03:22	$0^{\circ}\mathbf{\Upsilon}$			7726 Mar 09 13:55	0° ∀	
morning set	7725 Apr 24 07:21	27° Y 35'02		desc. node	7726 Mar 17 11:59	10°) 38'46	
	7725 Apr 25 19:15	0°8			7726 Mar 30 12:59	0°Υ	
max. Earth dist.	7725 Apr 30 00:04		1.41361 AU	morning set	7726 Apr 03 12:49	6° Ƴ 09'24	
	1	_		max. Earth dist.	7726 Apr 12 05:57	19° Ƴ 57'27	1.43281 AU
superior conj	7725 May 07 17:35	20° 8 11'01	-1°53'54		7726 Apr 18 08:44	0°8	
minimum elong	7725 May 07 23:07	20° 8 35'27	1°53'31		•		
	7725 May 13 04:41	$\Pi^{\circ}0$		superior conj	7726 Apr 18 20:55	0° 8 50'56	-2°09'26
evening rise	7725 May 18 08:21	9° Ⅲ 30′03		minimum elong	7726 Apr 18 23:39	1° 8 02'20	2°09'24
asc. node	7725 May 22 14:15	17° Ⅲ 18'33		evening rise	7726 May 01 01:04	21° 8 51'24	
	7725 May 30 05:27	0°€			7726 May 05 16:10	$\Pi^{\circ}0$	
evening max el	7725 Jun 03 12:35	5° © 14'38	18°13'52	asc. node	7726 May 09 11:18	6° Ⅱ 28'32	
retrograde	7725 Jun 10 14:02	8° © 47'39		evening max el	7726 May 18 00:57	18° Ⅲ 20'48	18°05'37
evening set	7725 Jun 12 22:58	8° © 24'20		retrograde	7726 May 24 13:11	21° II 42'13	
inferior conj	7725 Jun 20 01:46	3° © 40'35	1°48'57	evening set	7726 May 27 05:29	21° II 07'38	
minimum elong	7725 Jun 20 04:47	3° 5 34'01	1°47'54	inferior conj	7726 Jun 02 16:21	16° Ⅱ 03'44	2°43'26
min. Earth dist.	7725 Jun 23 11:11	0°5544'27	0.59378 AU	minimum elong	7726 Jun 02 19:11	15° Ⅱ 56'36	2°42'41
	7725 Jun 24 09:18	30° Ŗ Ⅱ		min. Earth dist.	7726 Jun 05 17:54	13° Ⅱ 00′19	0.61618 AU
desc. node	7725 Jun 26 14:24	28° Ⅲ 25'34		morning rise	7726 Jun 09 06:51	10° Ⅱ 02'25	
morning rise	7725 Jun 27 07:33	27° Ⅱ 59'36		desc. node	7726 Jun 13 11:26	8° Ⅱ 01'44	
direct	7725 Jul 03 15:55	26° Ⅱ 08'16		direct	7726 Jun 16 00:08	7° Ⅱ 42'12	
	7725 Jul 13 10:26	0		morning max el	7726 Jun 30 04:55	15° Ⅱ 42'25	27°55'03
morning max el	7725 Jul 18 00:44	3° © 58'45	27°31'27		7726 Jul 11 21:08	0 \circ \odot	
	7725 Aug 06 03:28	$0^{\circ}\Omega$			7726 Jul 29 17:41	$0^{\circ}\Omega$	
morning set	7725 Aug 18 11:23	23° Ω 25'15		morning set	7726 Aug 02 13:59	7° Ω 40'39	
asc. node	7725 Aug 18 13:38	23° Ω 36′59		asc. node	7726 Aug 05 10:38	13° Ω 38'56	
	7725 Aug 21 13:23	O° My		max. Earth dist.	7726 Aug 08 07:17	19° Ω 48'01	1.32018 AU
max. Earth dist.	7725 Aug 24 22:56	7° Mg 27'33	1.31706 AU			_	
				superior conj	7726 Aug 10 00:06	23° Ω 31′06	0°45'15
superior conj	7725 Aug 25 13:54	8° Mp 50'24	1°06'27	minimum elong	7726 Aug 09 22:14	23° Ω 20′53	0°44'49
minimum elong	7725 Aug 25 11:39	8° ™ 37'59	1°06'02		7726 Aug 12 22:49	0° m ∕	
evening rise	7725 Sep 01 08:08	23°m/39'22		evening rise	7726 Aug 16 19:20	8° m 23'13	
	7725 Sep 04 09:00	0∘ ⊽			7726 Aug 27 21:57	0∘ ⊽	
	7725 Sep 22 02:26	0°M		desc. node	7726 Sep 09 10:29	17° £ 30'30	
desc. node	7725 Sep 22 13:25	0°M36'01		evening max el	7726 Sep 11 10:32	19° £ 32'30	24°40'51
evening max el	7725 Sep 29 19:39	8°M47'53	26°05'52	retrograde	7726 Sep 25 06:16	26° £ 29'46	
retrograde	7725 Oct 13 18:06	15°M52'33		evening set	7726 Sep 30 14:07	25° £ 26'22	0.56500 ATT
evening set	7725 Oct 20 04:24	14°M 13'32	0.50607.411	min. Earth dist.	7726 Oct 05 21:37	22° £ 39'36	0.56789 AU
min. Earth dist.	7725 Oct 24 08:39	11°M38'44	0.58697 AU	inferior conj	7726 Oct 08 14:19	20° £ 55'50	
inferior conj	7725 Oct 27 12:39	9°M18'38		minimum elong	7726 Oct 08 16:35 7726 Oct 16 21:14	20° £ 52'11	5-29-19
minimum elong morning rise	7725 Oct 27 19:10	9°M06'35 4°M51'07	4 34 30	morning rise direct	7726 Oct 16 21:14 7726 Oct 19 11:09	16° £ 50'40	
direct	7725 Nov 04 12:12 7725 Nov 06 19:24	4°M33'29		morning max el	7726 Oct 19 11:09 7726 Oct 28 21:49	16° △ 32'16 21° △ 00'15	19°25'25
asc. node	7725 Nov 14 13:07	8°M06'48		asc. node	7726 Nov 01 10:08	24° £ 55'25	19 23 23
morning max el	7725 Nov 14 13:07 7725 Nov 14 23:37	8°M31'29	18°31'46	asc. node	7726 Nov 04 23:29	0°M	
morning max er	7725 Nov 28 20:26	0°×7	10 31 40	morning set	7726 Nov 15 02:54	18°M-40'00	
morning set	7725 Dec 01 01:03	4° ₹ 12'26		morning set	7726 Nov 20 18:30	0° × 7	
morning sec	7723 BCC 01 01.03	. 7 12 20			77201107 20 10.30	0 %	
superior conj	7725 Dec 09 22:19	21° ∡ 10′51	1°07'03	superior conj	7726 Nov 23 03:43	4° ×1 42'19	1°26'46
minimum elong	7725 Dec 10 01:49	21° × ⁷ 27'03	1°06'44	minimum elong	7726 Nov 23 06:26	4° × 755'38	1°26'37
	7725 Dec 14 18:36	0°る		max. Earth dist.	7726 Nov 29 13:42	16° ₹ 52'20	1.38027 AU
max. Earth dist.	7725 Dec 17 07:52	4° る 29'12	1.40183 AU	evening rise	7726 Dec 03 07:15	23° х 34'14	
desc. node	7725 Dec 19 12:29	8° ප 15'09		desc. node	7726 Dec 06 09:32	28° ∡ 54'59	
evening rise	7725 Dec 21 13:34	11° る 41'43			7726 Dec 07 00:54	0°ರ	
Č	7726 Jan 02 03:07	0° ≈			7726 Dec 26 21:41	0° ≈	
	7726 Jan 24 22:45	0°) €		evening max el	7727 Jan 07 20:33	14° ≈ 08'05	25°04'38
evening max el	7726 Jan 25 07:22	0°) 21'39	23°47'31	retrograde	7727 Jan 19 18:01	21° ≈ 01'46	
retrograde	7726 Feb 05 04:37	6°) 46′22		evening set	7727 Jan 25 11:06	18° ≈ 39'28	
evening set	7726 Feb 10 08:47	4°) €37'14		asc. node	7727 Jan 28 09:21	15° ≈ 36'58	
asc. node	7726 Feb 10 12:17	4°) €29'43		min. Earth dist.	7727 Jan 29 22:41	13° ≈ 39'35	0.67667 AU
	7726 Feb 14 11:03	30° R ≈		inferior conj	7727 Jan 31 01:33	12° ≈ 11'45	0°52'40
min. Earth dist.	7726 Feb 15 04:02	29° ≈ 02'48	0.68208 AU	minimum elong	7727 Jan 31 00:18	12° ≈ 15'48	0°52'16
inferior conj	7726 Feb 15 19:32	28° ≈ 09'59	1°40'23	morning rise	7727 Feb 05 13:46	6° ≈ 15'13	
minimum elong	7726 Feb 15 17:31	28° ≈ 16'51	1°39'44	direct	7727 Feb 09 03:24	5° ≈ 02'02	
morning rise	7726 Feb 21 02:14	22° ≈ 06′02		morning max el	7727 Feb 16 08:34	9° ≈ 02'51	19°32'00
direct	7726 Feb 25 04:27	20° ≈ 31'32		greatest brilliancy	7727 Mar 01 04:17	25° ≈ 52'59	-0.7m
morning max el	7726 Mar 05 06:06	25° ≈ 07'55	20°38'22		7727 Mar 03 22:28	0°) €	

desc. node	7727 Mar 04 08:58	0°) (39′30		transit end	7728 Jan 15 06:22	26° る 01'29	
morning set	7727 Mar 13 10:20	14°) 29'27		asc. node	7728 Jan 15 06:24	26°る01'29	
morning set	7727 Mar 13 10:20 7727 Mar 23 09:36	0°Υ		morning rise	7728 Jan 20 23:30	20° ට 0124	
max. Earth dist.	7727 Mar 25 09:50	3° Υ 46'09	1.44679 AU	direct	7728 Jan 24 02:03	19°る28'34	
max. Earth dist.	7727 Will 23 10.37	3 1 40 07	1.44077110	morning max el	7728 Jan 30 18:22	23°る06'24	18°41'14
superior conj	7727 Mar 29 23:20	10° Y 25'47	-2°08'44	morning max cr	7728 Feb 05 10:48	0°≈	10 41 14
minimum elong	7727 Mar 29 19:37	10° Υ 10'57		desc. node	7728 Feb 19 05:57	20°≈58'25	
g	7727 Apr 10 22:08	0°8	2 003)	morning set	7728 Feb 21 00:18	23° ≈ 44'54	
evening rise	7727 Apr 12 21:29	3° 8 18'07		morning sec	7728 Feb 24 23:48	0° ∀	
asc. node	7727 Apr 26 08:22	25° 8 09'37		max. Earth dist.	7728 Mar 07 12:32	18°) €03'38	1.45401 AU
	7727 Apr 30 00:20	0°П				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
evening max el	7727 May 01 14:08	1° Ⅱ 42'35	18°16'11	superior conj	7728 Mar 08 07:16	19°) 17′03	-1°47'59
retrograde	7727 May 07 23:33	5° Ⅱ 07'04		minimum elong	7728 Mar 07 22:05	18°) 41′04	1°47'12
evening set	7727 May 10 22:50	4° Ⅱ 19'39		8	7728 Mar 15 02:45	$0^{\circ}\Upsilon$	
· ·	7727 May 15 23:24	30° ₹ 8		evening rise	7728 Mar 23 18:35	13° Ƴ 46'54	
inferior conj	7727 May 16 21:53	28° 8 57'17	3°13'40	greatest brilliancy	7728 Mar 31 09:36	25° Y ′59'30	-0.9m
minimum elong	7727 May 16 23:31	28° 8 52'37	3°13'22		7728 Apr 02 22:34	0°B	
min. Earth dist.	7727 May 19 09:55	26° 8 08'37	0.63714 AU	asc. node	7728 Apr 12 05:25	13° 8 12'56	
morning rise	7727 May 22 23:02	22° 8 44'49		evening max el	7728 Apr 14 01:28	15° 8 13'52	18°44'49
direct	7727 May 29 17:16	20° 8 04'55		retrograde	7728 Apr 20 16:57	18° 8 54'10	
desc. node	7727 May 31 08:27	20° 8 13'24		evening set	7728 Apr 23 23:24	17° 8 52'59	
morning max el	7727 Jun 12 13:38	28° 8 06'15	27°40'59	inferior conj	7728 Apr 29 14:24	12° 8 13'55	3°24'46
	7727 Jun 14 09:11	Π $^{\circ}0$		minimum elong	7728 Apr 29 14:39	12° 8 13'07	3°24'41
	7727 Jul 05 15:58	0 \circ \odot		min. Earth dist.	7728 May 01 11:10	9° 8 55'58	0.65495 AU
morning set	7727 Jul 17 09:17	21° © 31'48		morning rise	7728 May 05 05:17	5° 8 56'55	
	7727 Jul 21 12:56	$\mathfrak{O}^{\circ}\mathfrak{O}$		direct	7728 May 11 18:07	3° 8 09'26	
max. Earth dist.	7727 Jul 22 09:29	1° Ω 47'42	1.32796 AU	desc. node	7728 May 17 05:27	4° 8 45'11	
asc. node	7727 Jul 23 07:37	3° Ω 44'41		morning max el	7728 May 25 00:05	10° 8 59'50	26°54'10
					7728 Jun 09 01:32	Π °0	
superior conj	7727 Jul 25 06:47	7° Ω 56′50	0°19'57		7728 Jun 27 04:40	0 \circ \odot	
minimum elong	7727 Jul 25 05:50	7° Ω 51'43	0°19'39	morning set	7728 Jun 29 18:20	4° 9 50'28	
evening rise	7727 Aug 01 06:59	23° Ω 04'32		max. Earth dist.	7728 Jul 04 01:54	13° © 18'43	1.34054 AU
	7727 Aug 04 14:41	O° m y					
evening max el	7727 Aug 23 21:57	29° m 47'53	23°02'28	superior conj	7728 Jul 08 07:52	22° © 01'50	-0°08'46
	7727 Aug 24 02:58	0∘ ⊽		minimum elong	7728 Jul 08 08:20	22° © 04'20	0°08'47
desc. node	7727 Aug 27 07:34	2° ≏ 43'11		behind sun begin	7728 Jul 08 03:32	21° © 39'14	
retrograde	7727 Sep 06 06:14	6° ≏ 28'15		behind sun end	7728 Jul 08 13:09	22° 5 29'28	
evening set	7727 Sep 10 01:56	5° ≏ 56'18		asc. node	7728 Jul 09 04:37	23° © 50'30	
min. Earth dist.	7727 Sep 17 06:37	2° Ω 39'56	0.55359 AU		7728 Jul 12 02:34	0 ° Ω	
inferior conj	7727 Sep 18 20:27	1° Ω 45'14		evening rise	7728 Jul 15 17:11	7° Ω 37'40	
minimum elong	7727 Sep 18 15:26	1° ≏ 52'31	5°19'52		7728 Jul 27 15:34	0° m	
	7727 Sep 21 23:58	30°R.Mp		evening max el	7728 Aug 04 14:57	10° m 10'30	21°27'21
morning rise	7727 Sep 27 07:05	27° m 55'21		desc. node	7728 Aug 13 04:36	15° m 41'50	
direct	7727 Sep 30 07:41	27° m 33'48		retrograde	7728 Aug 16 20:25	16° Mp 14'07	
	7727 Oct 07 21:41	0∘ ʊ	20041122	evening set	7728 Aug 19 08:23	15° TD 59'49	401 (140
morning max el	7727 Oct 11 07:32	2° Ω 42'00	20°41'22	inferior conj	7728 Aug 28 14:20	12° Mp 01'24	
asc. node	7727 Oct 19 07:08	12° Ω 41'25		minimum elong	7728 Aug 28 04:56	12° Mp 14'35	4°14'23
marning act	7727 Oct 28 18:46 7727 Oct 30 10:04	0°M 3°M20'54		min. Earth dist.	7728 Aug 28 15:38 7728 Sep 06 02:23	11° m 59'35 8° m 09'41	0.54716 AU
morning set	//2/ Oct 30 10.04	3 11620 34		morning rise	•		
superior conj	7727 Nov 06 21:06	18° M 47'37	1°38'00	direct morning max el	7728 Sep 09 16:44 7728 Sep 22 05:05	7° Mp 41'38 13° Mp 37'02	22°16'30
minimum elong	7727 Nov 06 21:00 7727 Nov 06 22:32	18°M54'52	1°38'00	morning max er	7728 Oct 04 11:34	0° ⊽	22 10 30
max. Earth dist.	7727 Nov 00 22:32 7727 Nov 11 21:36	28°M48'46	1.35995 AU	asc. node	7728 Oct 04 11:34 7728 Oct 05 04:07	0 = 1° £ 11'48	
max. Lattii dist.	7727 Nov 11 21:30	20 110+0 +0 0° 📈	1.33773 AU	morning set	7728 Oct 03 04:07 7728 Oct 13 20:24	18° ≏ 09'01	
evening rise	7727 Nov 12 12:18 7727 Nov 15 20:14	6° √ 17'51		morning set	7728 Oct 13 20:24 7728 Oct 19 09:56	0°M	
desc. node	7727 Nov 13 20:14 7727 Nov 23 06:34	19° ∡ ¹25'11			7728 Oct 17 07.30	O IIIG	
dese. Hode	7727 Nov 29 20:05	0°る		superior conj	7728 Oct 20 22:51	3°M₁6′05	1°41'46
evening max el	7727 Nov 25 20:05 7727 Dec 21 09:29	0 3 27° る 53'34	26°11'47	minimum elong	7728 Oct 20 22:55	3°M16'28	1°41'49
- , Junio man Ci	7727 Dec 21 05:25 7727 Dec 23 16:40	27 ⊙ 33 3 ∓	20 11 17	max. Earth dist.	7728 Oct 24 12:20	10°M41'56	1.34284 AU
retrograde	7728 Jan 03 02:36	5° ≈ 05'49		evening rise	7728 Oct 29 00:42	19°M43'07	20 . 110
evening set	7728 Jan 09 08:17	2°≈33'34			7728 Nov 03 12:47	0° ⊼	
	7728 Jan 11 22:59	2 %35 5 4 30°Rる		desc. node	7728 Nov 09 03:35	9° × ⁷ 40'32	
min. Earth dist.	7728 Jan 13 13:09	28°る08'23	0.66744 AU	acce. node	7728 Nov 22 21:03	0°る	
inferior conj	7728 Jan 15 03:29	26°る10'24		evening max el	7728 Dec 02 22:32	11° る 30'56	27°01'38
minimum elong	7728 Jan 15 03:32	26° ට 10'13	0°02'19	retrograde	7728 Dec 16 05:32	18° る 50'44	
transit middle	7728 Jan 15 03:32	26° ට 10'13	0°02'19	evening set	7728 Dec 22 22:15	16° ප 13'55	
transit begin	7728 Jan 15 00:42	26° ප 18'58		min. Earth dist.	7728 Dec 26 21:14	12° る 23'00	0.65461 AU
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inferior conj	7728 Dec 28 23:10	10° ට 01'06	-1°04'13	evening set	7729 Dec 06 02:34	29° ∡ ³34'50	
minimum elong	7728 Dec 29 01:02	9° ප 55'46		min. Earth dist.	7729 Dec 09 02:34 7729 Dec 09 20:47	26° 🖈 16'11	0.63851 AU
asc. node	7729 Jan 01 03:27	6° ප 38'51	1 03 10	inferior conj	7729 Dec 12 10:08	23° × ⁷ 38'23	
morning rise	7729 Jan 04 05:01	4° る 25'52		minimum elong	7729 Dec 12 14:11	23° × ⁷ 27'56	
direct	7729 Jan 06 22:24	3°₹45'44		morning rise	7729 Dec 19 03:29	18° ≯ 18'01	
morning max el	7729 Jan 13 09:14	7° る 11'42	18°07'01	asc. node	7729 Dec 19 00:30	18° ∡ ¹21'03	
Ü	7729 Jan 29 01:40	0° ≈		direct	7729 Dec 21 14:02	17° ∡ 748'33	
morning set	7729 Jan 31 19:18	4° ≈ 28'07		morning max el	7729 Dec 28 02:26	21° 尽 12'03	17°49'57
desc. node	7729 Feb 05 02:55	11° ≈ 29'50		Č	7730 Jan 03 19:47	0°⋜	
				morning set	7730 Jan 13 17:58	16° る 32'38	
superior conj	7729 Feb 15 13:31	28°≈11'14	-1°10'12	Ü	7730 Jan 21 16:39	0° ≈	
minimum elong	7729 Feb 15 05:26	27° ≈ 39'19	1°09'08	desc. node	7730 Jan 22 23:53	2° ≈ 09'46	
· ·	7729 Feb 16 17:08	0°) €					
max. Earth dist.	7729 Feb 18 07:52	2°) 32′08	1.45386 AU	superior conj	7730 Jan 26 12:27	7° ≈ 57'01	-0°25'15
evening rise	7729 Mar 03 18:04	23°) €26'22		minimum elong	7730 Jan 26 09:38	7° ≈ 45'34	0°24'45
<i>8</i> 11	7729 Mar 07 23:45	$0^{\circ}\Upsilon$		max. Earth dist.	7730 Feb 01 02:40	16° ≈ 56'39	1.44646 AU
greatest brilliancy	7729 Mar 16 12:28	13° Y 02'42	-0.7m		7730 Feb 09 10:57	0°) €	
evening max el	7729 Mar 28 08:50	28° Ƴ 49'39	19°30'21	evening rise	7730 Feb 11 05:47	2°) (44'50	
<i>8</i>	7729 Mar 29 14:11	0°8		<i>8</i>	7730 Mar 01 13:23	0° Υ	
asc. node	7729 Mar 30 02:28	0° 8 26'41		evening max el	7730 Mar 11 11:03	12° Y 27'46	20°30'40
retrograde	7729 Apr 04 14:05	2° 8 56'50		asc. node	7730 Mar 16 23:33	16° Ƴ 37'20	
evening set	7729 Apr 08 04:27	1° 8 41'08		retrograde	7730 Mar 19 12:32	17° Ƴ 10'31	
8	7729 Apr 10 02:58	30°R Ƴ		evening set	7730 Mar 23 11:55	15° Ƴ 39'45	
inferior conj	7729 Apr 13 14:34	25° Ƴ 47'01	3°20'56	inferior conj	7730 Mar 28 19:44	9° Ƴ 32'30	3°05'08
minimum elong	7729 Apr 13 13:38	25°Υ50'08	3°20'49	minimum elong	7730 Mar 28 17:56	9° Y 38'39	3°04'48
min. Earth dist.	7729 Apr 14 20:17	24° Ƴ 09'17	0.66868 AU	min. Earth dist.	7730 Mar 29 11:26	8° Y 38'46	0.67798 AU
morning rise	7729 Apr 18 22:27	19° Y 29'39		morning rise	7730 Apr 02 23:44	3° Ƴ 17'06	
direct	7729 Apr 25 01:19	16° Ƴ 46′29		direct	7730 Apr 08 13:48	0° Ƴ 47'47	
desc. node	7729 May 04 02:28	21° Y 05'08		morning max el	7730 Apr 19 18:46	7° Ƴ 29'57	24°17'33
morning max el	7729 May 07 09:52	24° Υ 10'14	25°43'01	desc. node	7730 Apr 20 23:29	8° Ƴ 44'35	
Ü	7729 May 12 15:11	0°8			7730 May 07 08:09	0°8	
	7729 Jun 02 11:30	0°II		morning set	7730 May 25 12:39	29° 8 02'51	
morning set	7729 Jun 12 13:08	17° Ⅲ 25'12		Č	7730 May 26 01:46	0° I I	
max. Earth dist.	7729 Jun 16 07:02	24° Ⅱ 24'36	1.35781 AU	max. Earth dist.	7730 May 29 04:29	5° Ⅱ 31'15	1.37877 AU
	7729 Jun 19 04:27	0°©			,		
				superior conj	7730 Jun 05 05:56	18° Ⅱ 39'23	-1°11'08
superior conj	7729 Jun 22 00:40	5°538'40	-0°39'44	minimum elong	7730 Jun 05 10:14	19° Ⅱ 00'04	1°10'34
minimum elong	7729 Jun 22 03:00	5° © 50'25	0°39'25		7730 Jun 11 01:09	0ංම	
asc. node	7729 Jun 26 01:37	13° © 52'01		asc. node	7730 Jun 12 22:38	3°545'32	
evening rise	7729 Jun 29 23:51	21° © 56'12		evening rise	7730 Jun 14 00:31	5° © 53'47	
•	7729 Jul 04 00:25	$0^{\circ}\Omega$		•	7730 Jun 28 00:53	$0^{\circ}\Omega$	
evening max el	7729 Jul 17 20:04	21° Ω 08′28	20°07'12	evening max el	7730 Jun 30 14:02	2° Ω 50'39	19°06'54
retrograde	7729 Jul 28 09:49	26° Ω 20'59		retrograde	7730 Jul 09 11:35	7° Ω 14'10	
evening set	7729 Jul 30 07:38	26° Ω 11'33		evening set	7730 Jul 11 09:51	7° Ω 02'38	
desc. node	7729 Jul 31 01:38	26° Ω 02'53		desc. node	7730 Jul 17 22:43	4° Ω 04'21	
inferior conj	7729 Aug 08 09:28	22° Ω 12'53	-2°30'28	inferior conj	7730 Jul 19 19:18	2° Ω 50'06	-0°33'53
minimum elong	7729 Aug 08 02:35	22° Ω 23'08	2°28'03	minimum elong	7730 Jul 19 17:51	2° Ω 52'35	0°33'25
min. Earth dist.	7729 Aug 10 02:31	21° Ω 11'50	0.55026 AU	min. Earth dist.	7730 Jul 22 16:27	0° Ω 52'59	0.56245 AU
morning rise	7729 Aug 16 20:07	17° Ω 59'20			7730 Jul 24 01:51	30° ₹ 5	
direct	7729 Aug 21 04:07	17° Ω 18'31		morning rise	7730 Jul 27 22:47	28° © 01'24	
morning max el	7729 Sep 03 18:49	23° Ω 58'48	24°01'51	direct	7730 Aug 02 03:10	26° © 58'57	
-	7729 Sep 09 06:18	0° m			7730 Aug 11 01:56	$0^{\circ}\Omega$	
asc. node	7729 Sep 22 01:07	20° m 15'40		morning max el	7730 Aug 16 07:50	4° Ω 14'29	25°42'17
	7729 Sep 26 22:00	0∘ ত			7730 Sep 03 19:25	0° m)	
morning set	7729 Sep 28 08:04	2° £ 59'27		asc. node	7730 Sep 08 22:06	9° m 43'48	
				morning set	7730 Sep 12 19:25	17° m 46'34	
superior conj	7729 Oct 05 06:08	17° ≏ 59'16	1°39'00		7730 Sep 18 09:58	0∘ ত	
minimum elong	7729 Oct 05 05:04	17° £ 53'29	1°38'59				
max. Earth dist.	7729 Oct 07 11:44	22° ≏ 48'24	1.32985 AU	superior conj	7730 Sep 19 16:37	2° ≏ 49'13	1°30'25
	7729 Oct 10 21:43	0°M₊		minimum elong	7730 Sep 19 14:46	2° ₽ 38'58	1°30'15
evening rise	7729 Oct 12 16:52	3°M40'20		max. Earth dist.	7730 Sep 20 18:06	5° ≏ 09'32	1.32132 AU
desc. node	7729 Oct 27 00:36	29°MJ34'37		evening rise	7730 Sep 26 17:28	17° ≏ 59'30	
	7729 Oct 27 06:58	0° ∡ ¹		-	7730 Oct 02 18:31	0°M₊	
evening max el	7729 Nov 15 10:43	24° ₹ ′50′00	27°26'59	desc. node	7730 Oct 13 21:40	18° M 57'51	
	7729 Nov 22 02:41	5°0			7730 Oct 21 21:24	0°⊀	
retrograde	7729 Nov 29 02:04	2° る 08'35		evening max el	7730 Oct 28 19:37	7° ∡ ³36′05	27°21'51
-	7729 Dec 05 12:11	30°R ✓		retrograde	7730 Nov 11 15:12	14° ∡ °49′26	
		•		-			

evening set min. Earth dist. inferior conj	7730 Nov 18 17:54 7730 Nov 22 09:57 7730 Nov 25 09:17	12° ₹ 28'12 9° ₹ 36'29 6° ₹ 53'35	0.61962 AU -3°19'45	min. Earth dist. inferior conj minimum elong	7731 Nov 04 12:14 7731 Nov 07 17:10 7731 Nov 08 00:17	22°M11'02 19°M37'26 19°M23'09	
minimum elong	7730 Nov 25 05:17	6° ₹ 39'30		morning rise	7731 Nov 05 00:17	14°ML57'08	7 22 31
morning rise	7730 Dec 02 15:04	1° ∡ 751'34		direct	7731 Nov 17 16:36	14°M38'38	
direct	7730 Dec 04 21:29	1° ₹ 29'11		asc. node	7731 Nov 22 18:36	16°M19'31	
asc. node	7730 Dec 05 21:34	1° ₹ 33'42		morning max el	7731 Nov 25 06:58	18°M23'17	18°10'57
morning max el	7730 Dec 11 18:48 7730 Dec 27 13:49	4° 尽 58'50 29° 尽 37'14	17°50'50	morning got	7731 Dec 03 16:19	0° ⊀ 13° ⊀ 23'52	
morning set	7730 Dec 27 13:49 7730 Dec 27 18:53	29 x ·3/14		morning set	7731 Dec 11 00:48 7731 Dec 19 22:58	13 x·23 32	
	7750 Bec 27 10.55	° C			7731 Bec 17 22.30	° C	
superior conj	7731 Jan 07 12:43	18° පි 56'10	0°17'05	superior conj	7731 Dec 20 13:30	1° る 05'37	0°51'29
minimum elong	7731 Jan 07 14:17	19° る 02'48	0°16'58	minimum elong	7731 Dec 20 16:52	1° る 20'48	0°51'08
desc. node	7731 Jan 09 20:52	22° る 54'02		desc. node	7731 Dec 27 17:52	13°る39'26	1 41207 411
max. Earth dist.	7731 Jan 14 03:39 7731 Jan 14 18:23	0° ≈ 1° ≈ 00'06	1.43260 AU	max. Earth dist. evening rise	7731 Dec 28 04:58 7732 Jan 02 03:56	14°පි26'24 22°පි38'36	1.41387 AU
evening rise	7731 Jan 21 20:44	12°≈18'43	1.43200 AU	evening rise	7732 Jan 02 03:30	0°≈	
e vennig 1190	7731 Feb 02 12:59	0° ∀			7732 Jan 27 14:40	0° ∀	
evening max el	7731 Feb 22 07:47	26°) €06'41	21°42'34	evening max el	7732 Feb 04 23:59	9°) 47′33	23°01'20
	7731 Feb 26 22:57	$0^{\circ}\Upsilon$		retrograde	7732 Feb 15 05:56	15° ¥ 52′05	
retrograde	7731 Mar 03 10:20	1° Y 30′21		asc. node	7732 Feb 18 17:45	14° ¥ 50'57	
asc. node	7731 Mar 03 20:39	1° Υ 29'24		evening set	7732 Feb 20 03:02	13° ¥ 50′59	0.60247.411
evening set	7731 Mar 07 11:56 7731 Mar 07 19:59	30° ₹ ₩ 29° ₩ 44'15		min. Earth dist. inferior conj	7732 Feb 25 03:11 7732 Feb 25 12:11	7° ¥ 56'55 7° ¥ 25'47	0.68347 AU 2°04'17
inferior conj	7731 Mar 13 03:36	23°)(26'22	2°39'12	minimum elong	7732 Feb 25 09:58		2°03'36
minimum elong	7731 Mar 13 01:22	23°) (34'08	2°38'39	morning rise	7732 Mar 01 16:49	1°) 18′26	
min. Earth dist.	7731 Mar 13 06:27	23° ¥ 16′25	0.68281 AU	_	7732 Mar 03 19:17	30° R ≈	
morning rise	7731 Mar 18 06:35	17°) (14′24		direct	7732 Mar 06 02:40	29° ≈ 31'17	
direct	7731 Mar 23 06:33	15°) €04'54			7732 Mar 08 13:08	0° ∀	
morning max el	7731 Apr 02 04:51	20°) 57'02 27°) 21'02	22°47'55	morning max el	7732 Mar 14 19:27	4°) 33'34 16°) 38'32	21°22'41
desc. node	7731 Apr 07 20:28 7731 Apr 09 22:46	2/° π 21'02 0° Υ		desc. node	7732 Mar 24 17:26 7732 Apr 03 01:40	10°π38'32 0°Υ	
	7731 Apr 30 14:11	0°8		morning set	7732 Apr 15 06:14	18° Υ 39'32	
morning set	7731 May 06 11:19	9° 8 29'37		max. Earth dist.	7732 Apr 22 02:42	29° Y 41'59	1.42225 AU
max. Earth dist.	7731 May 11 01:15	17° 8 11'26	1.40115 AU		7732 Apr 22 07:05	9° 8	
	7731 May 18 07:38	$\Pi^{\circ}0$					
	7721 M 10 10 21	001154100	1040102	superior conj	7732 Apr 29 12:33	12° 8 10'34	
superior conj minimum elong	7731 May 18 19:31 7731 May 19 01:08	0° П 54'00 1° П 19'36		minimum elong	7732 Apr 29 17:22 7732 May 09 13:30	12° ႘ 31'22 0° 川	2°01′52
evening rise	7731 May 19 01:08	19° Ⅲ 22'28	1 37 27	evening rise	7732 May 10 18:27	2° П 11'20	
asc. node	7731 May 30 19:41	23° Ⅱ 26′52		asc. node	7732 May 16 16:44	12° Ⅱ 50′03	
	7731 Jun 03 08:45	0 \circ \odot		evening max el	7732 May 27 04:28	28° Ⅱ 05'50	18°08'00
evening max el	7731 Jun 13 18:07	15° © 13'10	18°27'23		7732 May 29 11:13	0∘ ©	
retrograde	7731 Jun 21 08:29	19°500'26		retrograde	7732 Jun 02 23:10	1°532'24	
evening set inferior conj	7731 Jun 23 13:01 7731 Jul 01 02:33	18°542'29 14°510'14	1°04'51	evening set	7732 Jun 05 11:07 7732 Jun 07 14:51	1° © 04'43 30°Ŗ ∏	
minimum elong	7731 Jul 01 02:33	14°905'52	1°03'58	inferior conj	7732 Jun 12 06:40	26° Ⅱ 12'15	2°15'21
min. Earth dist.	7731 Jul 04 11:32	11° © 29'39	0.58122 AU	minimum elong	7732 Jun 12 09:47	26° ∏ 04'59	
desc. node	7731 Jul 04 19:47	11° 5 014'09		min. Earth dist.	7732 Jun 15 13:44	23° Ⅱ 09'51	0.60327 AU
morning rise	7731 Jul 08 17:04	8° 5 45'40		morning rise	7732 Jun 19 05:46	20° Ⅱ 20'58	
direct	7731 Jul 14 16:31	7°513'20	25001104	desc. node	7732 Jun 20 16:51	19° Ⅱ 31'41	
morning max el	7731 Jul 29 01:57	14° © 53'59 0° Ω	27°01'04	direct	7732 Jun 25 18:45	18° Ⅱ 16'30 26° Ⅱ 12'59	27°46'14
asc. node	7731 Aug 10 05:56 7731 Aug 26 19:05	0 δ ℓ 29° Ω 29'32		morning max el	7732 Jul 10 02:45 7732 Jul 13 15:42	20 п 12 39	27 40 14
use. Houe	7731 Aug 20 17:03	0° m			7732 Aug 02 18:41	$0 {\circ} \Omega$	
morning set	7731 Aug 28 04:49	2° m 25'56		morning set	7732 Aug 11 10:26	16° Ω 51'27	
				asc. node	7732 Aug 12 16:05	19° Ω 26′39	
superior conj	7731 Sep 04 04:27	17° m 40'14	1°16'36	max. Earth dist.	7732 Aug 17 14:05	0° Mp 04'33	1.31779 AU
minimum elong	7731 Sep 04 02:12	17° mp 27'50	1°16'16		7732 Aug 17 13:15	0° m	
max. Earth dist.	7731 Sep 04 04:10 7731 Sep 09 19:12	17° ™ 38'43 0° ₽	1.31731 AU	superior conj	7732 Aug 18 15:43	2° m/25'56	0°57'59
evening rise	7731 Sep 10 19:12 7731 Sep 10 23:55	0° 11 2° 1 33'24		minimum elong	7732 Aug 18 13:43 7732 Aug 18 13:35	2° m/ 14'06	0°57'39 0°57'33
	7731 Sep 25 16:19	0°M		evening rise	7732 Aug 25 09:55	17° Mp 14'45	
desc. node	7731 Sep 30 18:44	7°M37'50		-	7732 Aug 31 15:50	0∘ ⊽	
evening max el	7731 Oct 10 22:22		26°42'54	desc. node	7732 Sep 16 15:49	25° £ 17′02	
retrograde	7721 0 4 24 20 00	2 COM 4 4147			EE22 C 20 20 10	0000	
evening set	7731 Oct 24 20:08 7731 Oct 31 16:00	26°M44'47 24°M47'04		evening max el	7732 Sep 20 22:10 7732 Sep 21 17:11	0°M 0°M46'17	25022115

ratra ara da	7722 Oct. 05, 15:26	70 m 40112		daga mada	7722 San 02 12:54	110 0 21152	
retrograde	7732 Oct 05 15:26	7°M49'13		desc. node	7733 Sep 03 12:54	11° Ω 31'53 18° Ω 06'48	
evening set	7732 Oct 11 15:59	6°M24'56	0.57842 AU	retrograde	7733 Sep 16 22:34		
min. Earth dist.	7732 Oct 16 05:18 7732 Oct 19 06:23	1°M40'28		evening set min. Earth dist.	7733 Sep 21 15:16 7733 Sep 27 16:24	17° £ 18′20	0.56097 AU
minimum elong	7732 Oct 19 00:23	1°M31'20		inferior conj	7733 Sep 27 10.24 7733 Sep 29 23:20	14 = 20 33 12° ⊆ 56'41	
minimum ciong	7732 Oct 19 11:38 7732 Oct 21 18:03	30°R ≏	3 13 23	minimum elong	7733 Sep 29 23:20 7733 Sep 29 22:37	12 ⊆ 5041 12° ⊆ 57'46	5°31'56
morning rise	7732 Oct 21 18:03 7732 Oct 27 09:37	27° £ 23'06		morning rise	7733 Oct 08 08:08	8° £ 59'04	3 31 30
direct	7732 Oct 27 09:57 7732 Oct 29 18:55	27° 2 300° 27° 2 05'36		direct	7733 Oct 08 08:08 7733 Oct 11 02:02	8° ⊆ 39'41	
uncet	7732 Nov 06 01:10	0° ™		morning max el	7733 Oct 21 04:20	13° ≏ 24'18	19°55'06
morning max el	7732 Nov 07 11:17	1°ML15'13	18°51'57	asc. node	7733 Oct 26 12:35	19° £ 41'52	17 33 00
asc. node	7732 Nov 08 15:36	2°M27'20	10 31 37	asc. node	7733 Nov 01 20:13	0°M	
morning set	7732 Nov 23 22:13	27°M39'02		morning set	7733 Nov 08 02:35	12°ML12'41	
morning sec	7732 Nov 25 02:54	0° ₹		morning sec	7755 1101 00 02.55	12 11012 11	
	77321107 23 02.31	· /		superior conj	7733 Nov 15 20:50	27°M57'57	1°32'30
superior conj	7732 Dec 02 09:54	14° ½ 11'10	1°16'30	minimum elong	7733 Nov 15 23:02	28°ML08'56	1°32'26
minimum elong	7732 Dec 02 13:10	14°×726'43	1°16'15	manuam erong	7733 Nov 16 21:25	0° %	1 32 20
max. Earth dist.	7732 Dec 09 11:05	27°×709'03	1.39257 AU	max. Earth dist.	7733 Nov 21 16:54	9° × 717'07	1.37129 AU
man zarur uiov.	7732 Dec 11 01:56	0°ਰ	1.5/20/110	evening rise	7733 Nov 25 11:22	16° ₹ 13'01	1.5 / 12 / 110
evening rise	7732 Dec 13 09:03	。3° ろ 57'38		desc. node	7733 Nov 30 11:53	24° × ⁷ 58'36	
desc. node	7732 Dec 13 14:53	4° る 22'25		dese. Hode	7733 Dec 03 12:24	0°중	
desc. Hode	7732 Dec 29 22:40	0° ≈			7733 Dec 24 11:09	0° ≈	
evening max el	7733 Jan 17 13:42	23° ≈ 32'24	24°21'06	evening max el	7733 Dec 31 02:46	7°≈19'32	25°35'00
evening max or	7733 Jan 27 05:42	0° ∀	21 21 00	retrograde	7734 Jan 12 09:29	14°≈22'31	23 33 00
retrograde	7733 Jan 28 22:01	0° ¥ 11'27		evening set	7734 Jan 18 07:51	11°≈55'48	
remograde	7733 Jan 30 12:48	30°R≈		asc. node	7734 Jan 22 11:51	7°≈25'20	
evening set	7733 Feb 03 07:32	27° ≈ 56'28		min. Earth dist.	7734 Jan 22 16:35	7°≈10'24	0.67314 AU
asc. node	7733 Feb 04 14:48	26°≈42'20		inferior conj	7734 Jan 24 00:12	5°≈29'21	0°30'10
min. Earth dist.	7733 Feb 07 23:20	22° ≈ 36'31	0.68019 AU	minimum elong	7734 Jan 23 23:27	5°≈31'45	
inferior conj	7733 Feb 08 19:41	21°≈28'09	1°21'06	minimum crong	7734 Jan 29 01:47	30°Rる	0 2) 30
minimum elong	7733 Feb 08 17:56	21° ≈ 34'02		morning rise	7734 Jan 29 15:26	29° පි 36'17	
morning rise	7733 Feb 14 04:26	15°≈26'58	1 2032	direct	7734 Feb 02 00:11	28° る 31'13	
direct	7733 Feb 18 01:03	14° ≈ 01'54			7734 Feb 06 03:53	0°≈	
morning max el	7733 Feb 25 17:16	18° ≈ 22'08	20°08'18	morning max el	7734 Feb 08 22:56	2°≈20'56	19°08'24
morning man er	7733 Mar 07 02:30	0° ¥	20 00 10	greatest brilliancy	7734 Feb 22 11:12	20°≈28'49	-0.7m
desc. node	7733 Mar 11 14:23	6° ¥ 26'13		desc. node	7734 Feb 26 11:20	26°≈35'26	0.7111
morning set	7733 Mar 25 05:25	26°) 59'27		acco. noue	7734 Feb 28 16:28	0° ∀	
morning sec	7733 Mar 27 04:04	0°Υ		morning set	7734 Mar 04 07:18	5°) 35'48	
max. Earth dist.	7733 Apr 04 11:18	13° Υ '04'19	1.43948 AU	max. Earth dist.	7734 Mar 18 02:26	27° ₩ 07'04	1.45079 AU
man zarin dibi.	7,755 11p1 01 11.10	15 (0.1)	1.157.10110	man. Darvir dige.	7734 Mar 19 22:19	0°Υ	1.10075110
superior conj	7733 Apr 10 05:14	22° Y ′22'33	-2°11'27		773 1 1 1 2 2 2 1 7	• •	
minimum elong	7733 Apr 10 05:33	22° Y '23'51		superior conj	7734 Mar 20 22:25	1° Y 35'16	-2°02'25
	7733 Apr 14 19:36	0°ප		minimum elong	7734 Mar 20 15:50	1°Υ09'12	
evening rise	7733 Apr 23 03:06	14° 8 10'31		evening rise	7734 Apr 04 13:43	25° Υ 12'18	2 02 0 .
e vennig 1190	7733 May 02 10:29	0°II		e vennig 1150	7734 Apr 07 11:40	0°8	
asc. node	7733 May 03 13:48	1° Ⅱ 48'56		asc. node	7734 Apr 20 10:51	20° 8 15'24	
evening max el	7733 May 10 17:35	11° Ⅱ 19'49	18°07'51	evening max el	7734 Apr 24 06:21	24° 8 46'54	18°26'13
retrograde	7733 May 17 03:28	14° Ⅱ 40'46	10 0/01	retrograde	7734 Apr 30 17:10	28° 8 16'11	10 20 13
evening set	7733 May 19 22:43	14° Ⅱ 00'58		evening set	7734 May 03 19:32	27° 8 22'55	
inferior conj	7733 May 26 04:07	8° Ⅱ 49'20	2°58'51	inferior conj	7734 May 09 14:45		3°20'22
minimum elong	7733 May 26 06:31	8° Ⅱ 42'59	2°58'19	minimum elong	7734 May 09 15:48	21° 8 50'17	3°20'13
min. Earth dist.	7733 May 29 00:30	5° Ⅱ 49'28	0.62544 AU	min. Earth dist.	7734 May 11 20:24	19° 8 16'17	0.64527 AU
morning rise	7733 Jun 01 12:37	2° Ⅱ 42'14		morning rise	7734 May 15 11:11	15° 8 38'38	
desc. node	7733 Jun 07 13:52	0° Ⅱ 13'30		direct	7734 May 22 03:59	12° 8 53'53	
direct	7733 Jun 08 07:18	0° Ⅱ 11'51		desc. node	7734 May 25 10:53	13° 8 28'25	
morning max el	7733 Jun 22 09:06	8° Ⅱ 14'22	27°53'19	morning max el	7734 Jun 04 18:38	20° 8 51'34	27°24'32
5 5	7733 Jul 09 02:36	0°ಅ		. 8	7734 Jun 12 15:56	0°II	
	7733 Jul 25 22:54	$0^{\circ}\Omega$			7734 Jul 02 05:24	0ංම _	
morning set	7733 Jul 26 10:12	0° Ω 57'06		morning set	7734 Jul 10 01:34	14°935'40	
asc. node	7733 Jul 30 13:04	9° Ω 30'34		max. Earth dist.	7734 Jul 14 18:18	24°503'34	1.33273 AU
max. Earth dist.	7733 Jul 31 20:00	12° Ω 15'52	1.32288 AU	asc. node	7734 Jul 17 10:04	29° 5 37'09	
		00.002			7734 Jul 17 14:23	0° Ω	
superior conj	7733 Aug 03 00:39	17° Ω 00'49	0°34'59				
minimum elong	7733 Aug 02 23:07	16° Ω 52'26	0°34'35	superior conj	7734 Jul 18 05:17	1° Ω 19'04	0°08'09
	7733 Aug 02 23:37 7733 Aug 08 23:33	0° m)	3 2 . 33	minimum elong	7734 Jul 18 04:52	1° Ω 16'54	0°07'58
evening rise	7733 Aug 08 23:33 7733 Aug 09 21:29	1° Mp 57'45		behind sun begin	7734 Jul 18 00:05	0°Ω51'26	0 07 00
- ,	7733 Aug 25 02:02	0° ت		behind sun end	7734 Jul 18 09:40	1° Ω 42'24	
evening max el	7733 Sep 03 05:45	0 <u>=</u> 11° £ 14'50	23°59'39	evening rise	7734 Jul 25 08:47	16° Ω 36'48	
Croning max of	, 155 бор 65 65.45	— 1730	_5 5/5/	- , ching 1150	, , 5 1 3 di 23 00.T/	10 0630 70	

	7734 Aug 01 00:05	0° m		evening rise	7735 Jul 09 17:48	1° Ω 05'00	
evening max el	7734 Aug 15 18:41		22°20'48	evening rise	7735 Jul 26 17:23	0° m)	
desc. node	7734 Aug 21 09:58	25° mp 52'17	22 20 40	evening max el	7735 Jul 28 16:17	2° m)04'59	20°50'56
retrograde	7734 Aug 28 17:14	27° m 56'31		desc. node	7735 Aug 08 07:02	7° Mp 45'48	20 30 30
evening set	7734 Aug 31 22:01	27° mp 33'57		retrograde	7735 Aug 09 05:35	7° m) 47'59	
min. Earth dist.	7734 Sep 09 01:01	-	0.54977 AU	evening set	7735 Aug 11 09:27	7° Mp 36'47	
inferior conj	7734 Sep 09 01:01 7734 Sep 09 23:02	23° m 29'56		inferior conj	7735 Aug 20 15:33	3° Mg 39'47	-3°35'13
minimum elong	7734 Sep 09 25:02 7734 Sep 09 15:22	23° m/40'46	4°58'45	minimum elong	7735 Aug 20 15:35	3° My 52'41	3°32'26
morning rise	7734 Sep 18 10:26	19° m 41'44	1 50 15	min. Earth dist.	7735 Aug 21 10:16		0.54730 AU
direct	7734 Sep 21 16:50	19° m) 17'44		mm. Darm dist.	7735 Aug 28 03:13	30°R Ω	0.5 1750 710
morning max el	7734 Oct 03 08:30		21°19'50	morning rise	7735 Aug 29 03:36	29° Ω 41'34	
morning max or	7734 Oct 08 01:52	0∘ ಹ	21 1730	direct	7735 Sep 02 00:58	29° Ω 09'11	
asc. node	7734 Oct 13 09:34	ი — 7° Ω 48'42		direct	7735 Sep 02 00:38	0° m	
morning set	7734 Oct 23 11:23	26° £ 58'00		morning max el	7735 Sep 00 17:13	5° Mp 23'43	23°00'56
morning set	7734 Oct 24 22:13	0°M		asc. node	7735 Sep 30 06:34	26° Mp 34'31	23 00 30
	7754 000 24 22.15	0 110		ase. Houe	7735 Oct 02 02:35	0° ರ	
superior conj	7734 Oct 30 18:11	12°M14'33	1°40'27	morning set	7735 Oct 02 02:33	0 — 11° ≏ 48'01	
minimum elong	7734 Oct 30 19:01	12°M18'54	1°40'29	morning set	7755 000 07 22.51	11 = 4001	
max. Earth dist.	7734 Nov 04 03:40	21°M11'33	1.35224 AU	superior conj	7735 Oct 14 22:36	26° £ 50'16	1°41'20
evening rise	7734 Nov 04 03:40 7734 Nov 08 07:29	29°M16'09	1.33224 AU	minimum elong	7735 Oct 14 22:30 7735 Oct 14 22:10	26° £ 47'54	1°41'23
evening rise	7734 Nov 08 07:29 7734 Nov 08 16:47	29 IIC1009 0° ⊼		minimum ciong	7735 Oct 14 22:10 7735 Oct 16 10:12	20 = 47 34 0° M	1 41 23
4 4-				Danth diet		3°ML10'11	1 22/70 AII
desc. node	7734 Nov 17 08:55	15° メ 23'38 0°る		max. Earth dist.	7735 Oct 17 22:19		1.33678 AU
	7734 Nov 26 16:51	0°る 21°る03'35	26925124	evening rise	7735 Oct 22 17:21	12° ™ 55'55 0° ₹	
evening max el	7734 Dec 13 16:02	21°03'33 28° る 19'22	20-33-34	JJ.	7735 Oct 31 22:58 7735 Nov 04 05:58		
retrograde	7734 Dec 26 15:31	28 31922 25° 3 44'37		desc. node		5° オ 31'02 0° る	
evening set	7735 Jan 02 02:13		0.66246.411		7735 Nov 21 19:52	0°る 4° る 34'10	27915142
min. Earth dist.	7735 Jan 06 04:35	21°₹34'06	0.66246 AU	evening max el	7735 Nov 26 04:50		2/*15.42
inferior conj	7735 Jan 07 23:45	19° る 25'24		retrograde	7735 Dec 09 15:40	11° る 53'59	
minimum elong	7735 Jan 08 00:32	19° る 23'06	0°27'26	evening set	7735 Dec 16 12:24	9°る17'10	0.64020.441
asc. node	7735 Jan 09 08:53	17°る48'15		min. Earth dist.	7735 Dec 20 09:06	5° る 40'41	0.64820 AU
morning rise	7735 Jan 13 23:42	13° る 42'56		inferior conj	7735 Dec 22 16:03	3°る10'51	
direct	7735 Jan 16 22:14	12°る54'41	1000 412.7	minimum elong	7735 Dec 22 18:49	3°る03'17	1°30'46
morning max el	7735 Jan 23 11:08	16° පි 25'52	18°24'37		7735 Dec 25 18:47	30°R.✓	
	7735 Feb 02 14:25	0°≈		asc. node	7735 Dec 27 05:56	28° ∡ ¹47'57	
morning set	7735 Feb 12 09:06	15°≈27'52		morning rise	7735 Dec 29 02:39	27° ∡ 741'48	
desc. node	7735 Feb 13 08:17	17°≈00'16		direct	7735 Dec 31 16:54	27° ∡ ¹06'38	
	7735 Feb 21 13:01	0° ℋ			7736 Jan 06 14:49	0° ろ	
				morning max el	7736 Jan 07 03:25	0°る30'08	17°57'41
superior conj	7735 Feb 28 03:05	10°) € 20'40		morning set	7736 Jan 24 16:29	26° ප් 47'43	
minimum elong	7735 Feb 27 17:30	9°) (43'07	1°32'32	1 1	7736 Jan 26 14:43	0°≈ 7035153	
max. Earth dist.	7735 Feb 28 21:36		1.45493 AU	desc. node	7736 Jan 31 05:16	7° ≈ 35'53	
	7735 Mar 12 16:07	0°Υ 5°Υ18'14			772 (F. 1 . 07 . 1 4. 2 5	100 - 22100	0051101
evening rise	7735 Mar 16 00:59		0.0	superior conj	7736 Feb 07 14:35	19°≈32'00	
greatest brilliancy	7735 Mar 26 01:06	21° Y 00'55	-0.8m	minimum elong	7736 Feb 07 08:34	19°≈08'03	0°50'28
	7735 Apr 01 00:49	0°8		max. Earth dist.	7736 Feb 11 17:21		1.45154 AU
asc. node	7735 Apr 07 07:55	7° 8 59'22	10000111		7736 Feb 14 05:41	0° ∀	
evening max el	7735 Apr 07 16:14	8° 8 20'49	19°02'11	evening rise	7736 Feb 23 17:52	14°) 44'47	
retrograde	7735 Apr 14 12:31	12° 8 11'03		4 41 311	7736 Mar 04 17:44	0°Υ 6° W 20147	0.6
evening set	7735 Apr 17 22:21	11° 8 03'33	202445	greatest brilliancy	7736 Mar 09 02:36	6° Y 30'47	-0.6m
inferior conj	7735 Apr 23 10:53	5° 8 17'41	3°24'45	evening max el	7736 Mar 20 21:28	21° Y 57'46	19°54'19
minimum elong	7735 Apr 23 10:36	5° 8 18'36		asc. node	7736 Mar 24 04:59	24° Y 48'29	
min. Earth dist.	7735 Apr 25 01:04		0.66136 AU	retrograde	7736 Mar 28 10:40	26° Y 19'32	
	7735 Apr 27 21:18	30°RƳ		evening set	7736 Apr 01 04:42	24° Y 57'25	201.512.6
morning rise	7735 Apr 28 22:26	29° Y 00′20		inferior conj	7736 Apr 06 13:31	18° Y 57'10	3°15'36
direct	7735 May 05 07:26	26° Y 13'40		minimum elong	7736 Apr 06 12:10	19° Y 01'42	3°15'24
desc. node	7735 May 12 07:53	28° Y 50′19		min. Earth dist.	7736 Apr 07 13:03	17° Y 38′08	0.67311 AU
	7735 May 13 21:49	0° 8		morning rise	7736 Apr 11 19:22	12° Y 40′17	
morning max el	7735 May 18 05:01	_	26°26'21	direct	7736 Apr 17 16:54	10° Y 02'19	
	7735 Jun 07 00:57	0°II		desc. node	7736 Apr 28 04:52	15° Y 47'41	
morning set	7735 Jun 23 05:05	27° Ⅲ 37'07		morning max el	7736 Apr 29 14:38	17° Y 10′23	25°07'56
	7735 Jun 24 11:18	0°©			7736 May 10 07:11	0° 8	
max. Earth dist.	7735 Jun 27 06:14	5° 5 24'06	1.34740 AU		7736 May 30 00:35	0°II	
				morning set	7736 Jun 04 16:28	9° Ⅱ 50′20	
superior conj	7735 Jul 02 03:12	15°513'10		max. Earth dist.	7736 Jun 08 07:47	16° Ⅱ 28'33	1.36637 AU
minimum elong	7735 Jul 02 04:26	15° © 19'29	0°21'35				
asc. node	7735 Jul 04 07:04	19° © 41'46		superior conj	7736 Jun 14 15:35	28° I I36'13	
	7735 Jul 09 05:18	0 ° Ω		minimum elong	7736 Jun 14 18:47	28° Ⅱ 51'58	0°52'40

,	7736 Jun 15 08:32	0°95		superior conj	7737 May 28 14:43	11° I I18'36	
asc. node	7736 Jun 20 04:06	9°540'56		minimum elong	7737 May 28 19:43	11° Ⅱ 42'08 29° Ⅱ 02'37	1°23'18
evening rise	7736 Jun 22 22:20 7736 Jun 30 14:27	15° © 16′21 0° Ω		evening rise asc. node	7737 Jun 06 19:31 7737 Jun 07 01:08	29°Щ02'37 29°Щ29'56	
evening max el	7736 Jul 10 03:00	13° Ω 21'51	19°38'57	asc. node	7737 Jun 07 07:19	29 π 29 30	
retrograde	7736 Jul 19 23:20	$18^{\circ}\Omega 13'00$	19 36 37	evening max el	7737 Jun 23 01:45	25° © 22'35	18°47'37
evening set	7736 Jul 21 19:53	18° Ω 03'24		retrograde	7737 Jul 01 08:45	29° © 28'38	10 4/3/
desc. node	7736 Jul 25 04:06	17° Ω 02'17		evening set	7737 Jul 03 09:16	29° © 14'55	
inferior conj	7736 Jul 30 15:42	13° Ω 59'53	-1°40'17	inferior conj	7737 Jul 11 10:20	24°954'44	0°11'07
minimum elong	7736 Jul 30 11:07	14° Ω 07'04	1°38'37	minimum elong	7737 Jul 11 10:46	24° © 53'57	0°10'51
min. Earth dist.	7736 Aug 01 22:28	12° Ω 34'07	0.55443 AU	transit middle	7737 Jul 11 10:46	24°953'57	0°10'51
morning rise	7736 Aug 08 00:04	9° £ 31′56		transit begin	7737 Jul 11 08:02	24° © 58'55	
direct	7736 Aug 12 16:15	8° Ω 43'18		transit end	7737 Jul 11 13:30	24° 5 48'58	
morning max el	7736 Aug 26 14:47	15° Ω 40'17	24°46'11	desc. node	7737 Jul 12 01:10	24° 5 27'36	
	7736 Sep 07 02:07	0° т р		min. Earth dist.	7737 Jul 14 14:41	22° © 36'37	0.56982 AU
asc. node	7736 Sep 16 03:34	15° m 49'41		morning rise	7737 Jul 19 08:48	19° 5 49'54	
morning set	7736 Sep 21 10:16	26° Mp 37′48		direct	7737 Jul 24 21:52	18° © 35'08	
	7736 Sep 22 23:57	0∘ ⊽		morning max el	7737 Aug 08 05:29	26° © 03'21	26°19'11
					7737 Aug 11 22:59	0 $^{\circ}$ Ω	
superior conj	7736 Sep 28 07:33	11° ≏ 37'25	1°36'01		7737 Aug 31 06:56	0° ™	
minimum elong	7736 Sep 28 06:06	11° ≏ 29'30	1°35'57	asc. node	7737 Sep 03 00:34	5° Mp 26'14	
max. Earth dist.	7736 Sep 30 00:50	15° ≙ 22'23	1.32565 AU	morning set	7737 Sep 05 21:00	11°M)22'26	
evening rise	7736 Oct 05 13:28	27° £ 03′20					
	7736 Oct 07 00:21	0°M		superior conj	7737 Sep 12 18:52	26° m/29'06	1°25'11
desc. node	7736 Oct 21 03:02	25°M13'18		minimum elong	7737 Sep 12 16:48	26° m) 17'38	1°24'56
	7736 Oct 24 06:25	0° ⊀ 7	27020142	max. Earth dist.	7737 Sep 13 09:01	27° m/47'25	1.31903 AU
evening max el	7736 Nov 07 15:39	17° 🗷 39'50	27°28'42		7737 Sep 14 09:02	0° ⊽	
retrograde	7736 Nov 21 09:20	24° 🖈 57'19		evening rise	7737 Sep 19 16:53	11° ≏ 30'08 0° I L	
evening set min. Earth dist.	7736 Nov 28 11:39 7736 Dec 02 04:19	22° х 27'16 19° х 21'13	0.63074 AU	desc. node	7737 Sep 29 04:53 7737 Oct 08 00:06	14°M20'18	
inferior conj	7736 Dec 02 04.19	16° 🗷 39'23		desc. node	7737 Oct 08 00.06 7737 Oct 20 18:41	0° √	
minimum elong	7736 Dec 04 22.21 7736 Dec 05 03:21	16° 🗷 27'06	2°38'13	evening max el	7737 Oct 20 18.41 7737 Oct 20 22:21	0° ⊼ ¹08'40	27°09'31
morning rise	7736 Dec 03 03:21 7736 Dec 11 21:00	10 × 27 00 11°× 26'43	2 36 13	retrograde	7737 Nov 03 19:32	7°×720'12	27 0931
asc. node	7736 Dec 11 21:00 7736 Dec 13 03:00	11°×706'33		evening set	7737 Nov 10 20:19	5°×707'49	
direct	7736 Dec 14 05:19	11° х 00'33		min. Earth dist.	7737 Nov 10 20:19	2° × ⁷ 24'14	0.61088 AU
morning max el	7736 Dec 20 20:43	14° × ⁷ 25'58	17°48'06	mm. Darm dist.	7737 Nov 17 07:50	30°RML	0.01000110
5 5	7736 Dec 31 15:57	0°る		inferior conj	7737 Nov 17 15:31	29°M43'15	-3°48'14
morning set	7737 Jan 06 00:56	9° ට 19'47		minimum elong	7737 Nov 17 22:18	29°M28'30	3°46'01
desc. node	7737 Jan 17 02:14	28° る 18'04		morning rise	7737 Nov 25 02:33	24°M50'02	
				direct	7737 Nov 27 08:02	24°M29'46	
superior conj	7737 Jan 17 23:55	29° る 48'17	-0°06'35	asc. node	7737 Nov 30 00:03	24°M59'59	
minimum elong	7737 Jan 17 23:15	29° る 45'30	0°06'22	morning max el	7737 Dec 04 11:47	28°M05'10	17°56'55
behind sun begin	7737 Jan 17 14:38	29° る 09'40			7737 Dec 06 06:10	0° ∡ 7	
behind sun end	7737 Jan 18 07:53	0° ≈ 21'17		morning set	7737 Dec 20 03:57	22° ∡ ¹44'56	
	7737 Jan 18 02:45	0°≈			7737 Dec 24 03:02	0°ප	
max. Earth dist.	7737 Jan 24 10:35	10° ≈ 18'46	1.44118 AU				
evening rise	7737 Feb 02 04:55	24°≈04'31		superior conj	7737 Dec 30 11:07	11º ろ 19'11	
	7737 Feb 06 01:49	0°) €		minimum elong	7737 Dec 30 13:45	11° ろ 30'38	0°32'30
	7737 Feb 27 00:33	0° Υ	21000100	desc. node	7738 Jan 03 23:14	19° る 03'41	1 40 500 : *-
evening max el	7737 Mar 03 21:11	5° Υ 35'45	21°00'08	max. Earth dist.	7738 Jan 06 23:55	24°る07'09	1.42509 AU
asc. node	7737 Mar 11 02:05	10° Y 27'32			7738 Jan 10 14:30	0°≈	
retrograde	7737 Mar 12 09:08	10° Ƴ 36'11 8° Ƴ 59'03		evening rise	7738 Jan 13 01:41	3°≈56'07 0°) €	
evening set	7737 Mar 16 12:37	8° γ 39 03 2° Υ 46'51	2°55'19		7738 Jan 30 10:42	19° ∺ 16'00	22915126
inferior conj	7737 Mar 21 20:06 7737 Mar 21 18:04	2° Υ 53'53	2°54'53	evening max el	7738 Feb 14 15:54 7738 Feb 24 06:07	24° H 57'19	22-15-36
minimum elong min. Earth dist.	7737 Mar 22 06:14	2 γ 33 33 2° Υ 11'45	0.68047 AU	retrograde asc. node	7738 Feb 24 06.07 7738 Feb 25 23:10	24 X 37 19 24° X 42'21	
mm. Barui uist.	7737 Mar 23 21:14	2 1 11 43 30° ₹光	0.0004/ AU	evening set	7738 Feb 28 20:25	24 X 42 21 23° X 05'01	
morning rise	7737 Mar 26 23:18	26°)(32'28		inferior conj	7738 Mar 06 04:30	16°) 43'45	2°25'27
direct	7737 Apr 01 07:22	24° X 10'59		minimum elong	7738 Mar 06 02:13	16°) 51'42	
	7737 Apr 11 10:19	0°Υ		min. Earth dist.	7738 Mar 06 02:19	16° X 51'42	0.68361 AU
morning max el	7737 Apr 11 23:41	0° Υ 33'17	23°39'25	morning rise	7738 Mar 11 07:52	10°) €33'27	
desc. node	7737 Apr 15 01:51	3°Y53'38		direct	7738 Mar 16 01:52	8°) €33'02	
	7737 May 04 04:39	0°8		morning max el	7738 Mar 25 11:04	14°) €03'24	22°10'35
morning set	7737 May 17 06:05	20° 8 59'49		desc. node	7738 Apr 01 22:49	22°) 49'12	
max. Earth dist.	7737 May 21 03:33	27° 8 43'50	1.38821 AU		7738 Apr 07 06:33	0° Y	
	7737 May 22 10:20	$\Pi^{\circ}0$			7738 Apr 27 03:43	0° 8	
				morning set	7738 Apr 27 16:47	0° 8 52'47	

desc. node

7739 Mar 19 19:46

7739 Mar 31 19:48

12°**)** € 20'36

 $0^{\circ}\Upsilon$

7740 Mar 15 22:28

7740 Mar 23 17:38

morning set

17°**)** 53'07

 $0^{\circ}\Upsilon$

max. Earth dist.	7740 Mar 27 18:14	6° Ƴ 20'43	1.44509 AU		7741 Feb 05 08:49	0° ≈	
				desc. node	7741 Feb 20 13:41	22° ≈ 34'52	
superior conj	7740 Apr 01 09:05	13° Ƴ 43'42	-2°10'06	morning set	7741 Feb 23 08:48	26° ≈ 57'23	
minimum elong	7740 Apr 01 06:28	13° Y 33'10	2°10'05		7741 Feb 25 07:28	0° ∀	
	7740 Apr 11 06:45	9° 8		max. Earth dist.	7741 Mar 10 11:07	20°) 34'45	1.45341 AU
evening rise	7740 Apr 15 01:01	6° 8 19'43					
asc. node	7740 Apr 27 16:17	27° 8 04'09		superior conj	7741 Mar 11 19:01	22°) 39′51	-1°52'24
	7740 Apr 29 17:49	Π $^{\circ}0$		minimum elong	7741 Mar 11 10:19	22°) €05'40	1°51'43
evening max el	7740 May 03 10:09	4° Ⅲ 22'15	18°13'25		7741 Mar 16 10:49	0 ° Υ	
retrograde	7740 May 09 19:28	7° Ⅱ 45'32		evening rise	7741 Mar 27 01:39	16° Ƴ 57'16	
evening set	7740 May 12 17:39	7° Ⅲ 00'11		greatest brilliancy	7741 Apr 02 13:27	27° Y 25'26	-0.9m
inferior conj	7740 May 18 18:13	1° Ⅱ 40′32	3°10'22		7741 Apr 04 04:06	0°B	
minimum elong	7740 May 18 20:04	1° Ⅱ 35'23	3°10'01	asc. node	7741 Apr 14 13:21	15° 8 14'13	
	7740 May 20 06:15	30°₹ ႘		evening max el	7741 Apr 16 21:57	17° 8 52'54	18°39'25
min. Earth dist.	7740 May 21 08:31	_	0.63418 AU	retrograde	7741 Apr 23 11:59	21° 8 29'57	
morning rise	7740 May 24 21:11	25° 8 29'07		evening set	7741 Apr 26 17:21	20° 8 30'54	
direct	7740 May 31 15:41	22° 8 51'18		inferior conj	7741 May 02 09:21	_	3°24'05
desc. node	7740 Jun 01 16:16	22° 8 54'38		minimum elong	7741 May 02 09:48	14° 8 52'55	3°23'59
	7740 Jun 13 15:59	Π $\circ 0$		min. Earth dist.	7741 May 04 08:27	12° 8 30'58	0.65261 AU
morning max el	7740 Jun 14 13:47	0° Ⅱ 53'38	27°45'18	morning rise	7741 May 08 01:34	8° 8 37'43	
	7740 Jul 05 23:02	0 \circ		direct	7741 May 14 15:37	5° 8 50'26	
morning set	7740 Jul 19 04:56	24° © 10'00		desc. node	7741 May 19 13:16	7° 8 07'22	
	7740 Jul 22 01:44	$0 {\circ} \Omega$		morning max el	7741 May 28 00:02	13° 8 43'21	27°02'48
max. Earth dist.	7740 Jul 24 07:40	4° Ω 42'22	1.32647 AU		7741 Jun 10 03:51	Π $^{\circ}0$	
asc. node	7740 Jul 24 15:30	5° Ω 23'58			7741 Jun 28 15:02	0 \circ	
				morning set	7741 Jul 02 15:43	7° © 33'55	
superior conj	7740 Jul 27 00:27	10° Ω 29'03	0°24'02	max. Earth dist.	7741 Jul 07 01:30	16° 5 016'39	1.33836 AU
minimum elong	7740 Jul 26 23:20	10° Ω 22'58	0°23'42				
evening rise	7740 Aug 02 23:39	25° Ω 33'36		superior conj	7741 Jul 11 02:32	24° © 37'32	-0°04'15
	7740 Aug 05 02:15	0° m		minimum elong	7741 Jul 11 02:45	24° © 38'44	0°04'19
	7740 Aug 23 06:25	0∘ ⊽		behind sun begin	7741 Jul 10 21:18	24° © 10'06	
evening max el	7740 Aug 26 01:09	2° £ 56'33	23°17'17	behind sun end	7741 Jul 11 08:13	25° © 07'24	
desc. node	7740 Aug 28 15:20	5° ≏ 14'18		asc. node	7741 Jul 11 12:31	25° © 30'03	
retrograde	7740 Sep 08 12:16	9° ≏ 40'46			7741 Jul 13 15:33	$0 {\circ} \Omega$	
evening set	7740 Sep 12 13:20	9° ≙ 04'57		evening rise	7741 Jul 18 10:11	10° Ω 08'09	
min. Earth dist.	7740 Sep 19 10:28	5° £ 53'48	0.55527 AU		7741 Jul 28 18:15	0° m y	
inferior conj	7740 Sep 21 05:13	4° £ 51'12	-5°25'15	evening max el	7741 Aug 07 16:51	13°Mp 16'08	21°40'48
minimum elong	7740 Sep 21 01:17	4° £ 56'58	5°24'55	desc. node	7741 Aug 15 12:25	18° m 35'13	
morning rise	7740 Sep 29 15:27	0° ჲ 59'47		retrograde	7741 Aug 20 03:18	19° m 26'11	
direct	7740 Oct 02 14:09	0° ჲ 38'56		evening set	7741 Aug 22 19:01	19° Mp 10'15	
morning max el	7740 Oct 13 08:29	5° ≏ 40'52	20°28'44	inferior conj	7741 Sep 01 00:12	15° Mp 10'54	-4°29'49
asc. node	7740 Oct 20 15:01	14° ≏ 38'49		minimum elong	7741 Aug 31 15:00	15° m 23'47	
	7740 Oct 29 06:05	0°M₊		min. Earth dist.	7741 Aug 31 19:25	15° m 17'35	0.54750 AU
morning set	7740 Nov 01 03:08	5° M 49′12		morning rise	7741 Sep 09 12:06	11° m)20'41	
				direct	7741 Sep 13 00:16	10° Mp 53′49	
superior conj	7740 Nov 08 15:52	21°M20'20	1°36'47	morning max el	7741 Sep 25 07:36	16°Mp42'18	22°01'26
minimum elong	7740 Nov 08 17:30	21°M28'37	1°36'47		7741 Oct 05 16:10	0。 ⊽	
	7740 Nov 13 00:18	0° ∡ ¹		asc. node	7741 Oct 07 12:01	3° ჲ 03'28	
max. Earth dist.	7740 Nov 13 21:29	1° ∡ ⁴42′29	1.36278 AU	morning set	7741 Oct 16 13:07	20° ≏ 36'52	
evening rise	7740 Nov 17 18:45	9° ₰ 01'29			7741 Oct 20 23:17	0° M ₊	
desc. node	7740 Nov 24 14:17	21° ₹ 01'23					
	7740 Nov 30 02:38	0°₹		superior conj	7741 Oct 23 16:34	5°M46'05	1°41'37
	7740 Dec 22 20:21	0° ≈		minimum elong	7741 Oct 23 16:50	5° ™ 47'31	1°41'41
evening max el	7740 Dec 23 09:01	0° ≈ 31'08	26°02'46	max. Earth dist.	7741 Oct 27 11:05	13°M35'26	1.34513 AU
retrograde	7741 Jan 04 23:44	7° ≈ 41'41		evening rise	7741 Oct 31 21:11	22°M21'36	
evening set	7741 Jan 11 03:31	5°≈10'43			7741 Nov 04 22:58	0°⊀	
min. Earth dist.	7741 Jan 15 09:21	0° ≈ 40'15	0.66899 AU	desc. node	7741 Nov 11 11:20	11° ∡ 19'43	
	7741 Jan 15 22:22	30°Rる			7741 Nov 23 20:34	0° ろ	
inferior conj	7741 Jan 16 21:56	28° る 46'25	0°06'22	evening max el	7741 Dec 05 22:13	14° る 10'58	26°55'39
minimum elong	7741 Jan 16 21:46	28° る 46'57	0°06'25	retrograde	7741 Dec 19 03:33	21° る 30'02	
transit middle	7741 Jan 16 21:46	28° る 46'57	0°06'25	evening set	7741 Dec 25 18:43	18° る 53'40	
transit begin	7741 Jan 16 19:09	28° る 55'06		min. Earth dist.	7741 Dec 29 18:35	14° る 57'36	0.65674 AU
transit end	7741 Jan 17 00:23	28° ⋜ 38'48		inferior conj	7741 Dec 31 18:44	12° る 38'57	
asc. node	7741 Jan 16 14:19	29° る 10'10		minimum elong	7741 Dec 31 20:18	12° る 34'25	0°53'40
morning rise	7741 Jan 22 16:38	22° る 57'41		asc. node	7742 Jan 03 11:23	9° ප 42'12	
direct	7741 Jan 25 20:42	22° る 00'25		morning rise	7742 Jan 06 22:59	7° る 01'39	
morning max el	7741 Feb 01 14:31	25° ප් 41'08	18°47'46	direct	7742 Jan 09 17:38	6° ප 19'31	

mamina may al	7742 Ion 16 04:47	9° ⋜ 46'36	10011101	morning rise	7742 Dec. 21, 22:45	200.75550	
morning max el	7742 Jan 16 04:47 7742 Jan 30 08:57	9° ~ 4636	18-11-01	morning rise direct	7742 Dec 21 22:45 7742 Dec 24 10:13	20° ₹ 55'59 20° ₹ 25'06	
morning set	7742 Feb 03 23:20	0 ≈ 7°≈27'32		morning max el	7742 Dec 24 10.13	20 x · 23 06 23° x · 48'13	17°51'21
desc. node	7742 Feb 03 23:20 7742 Feb 07 10:38	7 ≈27 32 13°≈04'43		morning max er	7742 Dec 30 21:30 7743 Jan 04 21:43	23 メ ・4613	17 31 21
desc. Hode	7742 Feb 18 01:19	0°) €		morning set	7743 Jan 16 18:13	0 3 19° る 21'07	
	//42 FC0 18 01.19	0 /		morning set	7743 Jan 23 01:44	0°≈	
superior conj	7742 Feb 19 00:13	1°) 30′08	-1°16'30	desc. node	7743 Jan 25 07:38	0 ∞ 3°≈43'42	
minimum elong	7742 Feb 18 15:32	0° \ 56'01		desc. node	7743 Jan 23 07.30	3 ~ 73 72	
max. Earth dist.	7742 Feb 21 06:27	5° \ 03'03	1.45439 AU	superior conj	7743 Jan 29 19:46	11° ≈ 05'44	-0°32'05
evening rise	7742 Mar 07 03:56	26°) 42'56	1.15157710	minimum elong	7743 Jan 29 16:07	10°≈51'00	
evening rise	7742 Mar 09 06:37	0°Υ		max. Earth dist.	7743 Feb 04 01:45	19° ≈ 30'05	1.44804 AU
greatest brilliancy	7742 Mar 19 06:20	15° Υ 23'48	-0.7m	max. Dartii dist.	7743 Feb 10 18:34	0° ∀	1.11001710
greatest simule)	7742 Mar 29 21:03	0°8	0.7111	evening rise	7743 Feb 14 16:29	6° ₩ 02'10	
evening max el	7742 Mar 31 06:05	1° 8 28'48	19°22'33	evening rise	7743 Mar 02 16:04	0°Υ	
asc. node	7742 Apr 01 10:26	2° 8 36'42	1, 22,00	evening max el	7743 Mar 14 09:07	15°Υ06'36	20°20'52
retrograde	7742 Apr 07 08:45	5° 8 31'07		asc. node	7743 Mar 19 07:32	18° Y 57'56	
evening set	7742 Apr 10 21:56	4° 8 17'32		retrograde	7743 Mar 22 07:11	19° Y 43'36	
8-11	7742 Apr 15 03:15	30°RY		evening set	7743 Mar 26 05:11	18° Ƴ 14'59	
inferior conj	7742 Apr 16 08:36	28° Y 25'34	3°22'20	inferior conj	7743 Mar 31 13:10	12° Υ '09'28	3°08'12
minimum elong	7742 Apr 16 07:49	28° Ƴ 28'07	3°22'13	minimum elong	7743 Mar 31 11:29	12° Y 15'13	3°07'55
min. Earth dist.	7742 Apr 17 16:29	26° Υ 41'34	0.66697 AU	min. Earth dist.	7743 Apr 01 06:50	11° Y ′09'16	0.67687 AU
morning rise	7742 Apr 21 17:21	22° Y 08'12		morning rise	7743 Apr 05 17:35	5° Y 53'42	
direct	7742 Apr 27 21:57	19° Υ 23'45		direct	7743 Apr 11 09:37	3°Y22'02	
desc. node	7742 May 06 10:15	23° Υ 13'17		morning max el	7743 Apr 22 19:01	10° Υ 11'03	24°30'49
morning max el	7742 May 10 09:58	26° Y 52'00	25°54'44	desc. node	7743 Apr 23 07:14	10° Ƴ 42'21	
	7742 May 13 07:57	0°8			7743 May 08 11:55	0°8	
	7742 Jun 03 18:50	0°II			7743 May 27 11:18	0°II	
morning set	7742 Jun 15 12:58	20° Ⅱ 16′26		morning set	7743 May 28 15:45	2° П 03'51	
max. Earth dist.	7742 Jun 19 08:23	27° Ⅱ 26′16	1.35499 AU	max. Earth dist.	7743 Jun 01 06:53	8° Ⅲ 32′13	1.37549 AU
	7742 Jun 20 16:11	0∘ ©					
				superior conj	7743 Jun 08 04:04	21° ∏ 26'43	-1°06'27
superior conj	7742 Jun 24 20:49	8° © 19'42	-0°34'58	minimum elong	7743 Jun 08 08:06	21° ∏ 46′12	1°05'54
minimum elong	7742 Jun 24 22:51	8°930'00	0°34'40	C	7743 Jun 12 12:42	0ంతె	
asc. node	7742 Jun 28 09:34	15° © 33'03		asc. node	7743 Jun 15 06:37	5°\$28'28	
evening rise	7742 Jul 02 17:36	24° © 29'58		evening rise	7743 Jun 16 19:24	8° 5 31'42	
Ü	7742 Jul 05 10:42	$0^{\circ}\Omega$		C	7743 Jun 28 19:08	$0^{\circ}\Omega$	
evening max el	7742 Jul 20 20:04	24° Ω 08'22	20°17'55	evening max el	7743 Jul 03 12:13	5° Ω 44'09	19°14'30
retrograde	7742 Jul 31 15:53	29° Ω 28'43		retrograde	7743 Jul 12 15:25	10° Ω 14'33	
desc. node	7742 Aug 02 09:29	29° Ω 21′05		evening set	7743 Jul 14 13:00	10° Ω 03'40	
evening set	7742 Aug 02 14:50	29° Ω 19'01		desc. node	7743 Jul 20 06:33	7° Ω 40'17	
inferior conj	7742 Aug 11 18:14	25° Ω 21′20	-2°48'05	inferior conj	7743 Jul 23 01:18	5° Ω 53'33	-0°50'51
minimum elong	7742 Aug 11 10:37	25° Ω 32'29	2°45'28	minimum elong	7743 Jul 22 23:03	5° Ω 57'17	0°50'06
min. Earth dist.	7742 Aug 13 05:49	24° Ω 29'11	0.54918 AU	min. Earth dist.	7743 Jul 25 19:09	4° Ω 04'21	0.56013 AU
morning rise	7742 Aug 20 05:24	21° Ω 12'24		morning rise	7743 Jul 31 06:14	1° Ω 10′25	
direct	7742 Aug 24 10:39	20° Ω 34'00		direct	7743 Aug 05 07:26	0° Ω 11'55	
morning max el	7742 Sep 06 22:03	27° Ω 07'44	23°46'07	morning max el	7743 Aug 19 10:52	7° Ω 22'47	25°28'23
	7742 Sep 09 17:25	O° Mp			7743 Sep 05 02:27	0° ™	
asc. node	7742 Sep 24 09:01	22°Mp03'14		asc. node	7743 Sep 11 06:02	11° m 28'17	
	7742 Sep 28 09:57	0∘ ত		morning set	7743 Sep 15 12:17	20° m 15'49	
morning set	7742 Oct 01 00:46	5° £ 27'46			7743 Sep 19 23:49	0∘ ⊽	
superior conj	7742 Oct 07 23:13	20° £ 27'53	1°39'47	superior conj	7743 Sep 22 09:23	5° ≙ 17'17	1°32'05
minimum elong	7742 Oct 07 22:19	20° £ 22'58	1°39'48	minimum elong	7743 Sep 22 07:37	5° ≏ 07'35	1°31'55
max. Earth dist.	7742 Oct 10 09:26	25° ≏ 40'33	1.33151 AU	max. Earth dist.	7743 Sep 23 14:57	7° £ 59'43	1.32230 AU
	7742 Oct 12 10:39	0°M		evening rise	7743 Sep 29 11:25	20° ≏ 31'16	
evening rise	7742 Oct 15 11:52	6° ™ 14'59			7743 Oct 04 05:07	0° M	
	7742 Oct 28 13:10	0°⊀		desc. node	7743 Oct 16 05:30	20°M46'39	
desc. node	7742 Oct 29 08:25	1° ≯ 17'58			7743 Oct 22 16:45	0° ∡ ″	
evening max el	7742 Nov 18 10:44	27° ∡ ³33'55	27°24'59	evening max el	7743 Oct 31 20:10	10° ≯ 25′16	27°24'39
	7742 Nov 21 04:51	0° ප		retrograde	7743 Nov 14 15:13	17° ∡ ³39'40	
retrograde	7742 Dec 02 00:57	4° る 52'39		evening set	7743 Nov 21 18:08	15° ⊀ 15'43	
evening set	7742 Dec 09 00:39	2° る 17'53		min. Earth dist.	7743 Nov 25 10:11	12° ≯ 20'41	0.62258 AU
	7742 Dec 11 17:06	30°R. ✓		inferior conj	7743 Nov 28 08:17	9° ∡ ³37'37	
min. Earth dist.	7742 Dec 12 19:30	28° ₹ 54'44	0.64116 AU	minimum elong	7743 Nov 28 14:10	9° ∡ ¹23'55	3°07'14
inferior conj	7742 Dec 15 07:11	26° ∡ 18'47		morning rise	7743 Dec 05 12:14	4° ∡ ³32'51	
minimum elong	7742 Dec 15 10:54	26° ₹ 09'04	1°59'00	direct	7743 Dec 07 19:04	4° ₰ 09'38	
asc. node	7742 Dec 21 08:26	21° ∡ 12'19		asc. node	7743 Dec 08 05:27	4° ∡ 10′29	

7745 Oct 30 12:52

7745 Nov 01 04:40

morning rise

0°M15'54

30°**Ŗ**Ω

7744 Nov 17 10:42

7744 Nov 19 16:10

17°ML43'00

17°M24'11

morning rise

direct

morning max el asc. node morning set	7745 Nov 01 21:16 7745 Nov 02 13:45 7745 Nov 10 09:17 7745 Nov 10 23:29 7745 Nov 26 16:29 7745 Nov 26 14:10	29°\$\overline\$58'27 0°\$\mathbb{M}\$ 4°\$\mathbb{M}\$03'56 4°\$\mathbb{M}\$39'08 0°\$\sqrt{11'21} 0°\$\sqrt{2}\$	18°44'26	direct morning max el asc. node morning set	7746 Oct 14 07:28 7746 Oct 24 04:08 7746 Oct 28 20:30 7746 Nov 03 03:22 7746 Nov 10 20:01 7746 Nov 18 09:39	11° ១ 41'06 16° ១ 19'46 21° ១ 44'33 0° ៣ 14° ៣ 42'53	19°44'14
superior conj minimum elong max. Earth dist.	7745 Dec 05 07:22 7745 Dec 05 10:45 7745 Dec 12 11:47 7745 Dec 12 12:03	16°♂52'18 17°♂08'11 29°♂58'50 0°♂	1°13'18 1°13'00 1.39582 AU	superior conj minimum elong max. Earth dist. evening rise	7746 Nov 18 16:26 7746 Nov 18 18:50 7746 Nov 24 17:30 7746 Nov 28 11:23	0° ₹33'40 0° ₹45'33 12° ₹11'39 19° ₹01'25	1°30'36 1°30'31 1.37441 AU
desc. node evening rise	7745 Dec 15 22:39 7745 Dec 16 12:02 7745 Dec 31 03:29	5°♂57'18 6°♂54'03 0°≈		desc. node	7746 Dec 02 19:41 7746 Dec 04 20:42 7746 Dec 25 07:59	26°♂34'45 0°♂ 0°≈	
evening max el	7746 Jan 20 13:18 7746 Jan 24 22:41 7746 Jan 31 17:52	26°≈10'33 0°¥ 2°¥44'48	24°09'25	evening max el retrograde	7747 Jan 03 02:27 7747 Jan 15 05:59 7747 Jan 21 02:32	9°≈57'36 16°≈57'22 14°≈32'11	25°24'37
retrograde evening set	7746 Feb 06 01:29	0°) 31′54		evening set asc. node	7747 Jan 24 19:44	10° ≈ 33'51	
asc. node	7746 Feb 06 22:40 7746 Feb 06 15:43	29°≈43'15 30°R≈		min. Earth dist. inferior conj	7747 Jan 25 12:16 7747 Jan 26 18:12	9°≈41'42 8°≈05'13	0.67446 AU 0°38'24
min. Earth dist.	7746 Feb 10 18:29	25°≈06'48	0.68096 AU	minimum elong	7747 Jan 26 17:15	8°≈08'15	0°38'07
inferior conj minimum elong	7746 Feb 11 13:06 7746 Feb 11 11:15	24°≈03'52 24°≈10'07	1°28'11 1°27'35	morning rise direct	7747 Feb 01 08:19 7747 Feb 04 18:47	2°≈10'54 1°≈03'00	
morning rise	7746 Feb 16 21:05	18°≈01'35		morning max el	7747 Feb 11 19:33	4°≈56'14	19°16'20
direct morning max el	7746 Feb 20 19:39 7746 Feb 28 15:00	16°≈33'12 20°≈58'51	20°18'28	greatest brilliancy desc. node	7747 Feb 24 23:39 7747 Feb 28 19:06	22°≈27'34 28°≈13'49	-0.7m
	7746 Mar 08 03:13	0°) (°712°			7747 Mar 01 22:52	0° ∀	
desc. node	7746 Mar 13 22:07 7746 Mar 28 11:22	8°) 07′29 0° Υ		morning set max. Earth dist.	7747 Mar 07 18:09 7747 Mar 21 01:34	8° ∺ 56'05 29° ∺ 41'11	1.44954 AU
morning set	7746 Mar 28 18:14	0° Y 26'33			7747 Mar 21 06:21	0° Υ	
max. Earth dist.	7746 Apr 07 10:57	15° Ƴ 42'16	1.43731 AU	superior conj	7747 Mar 24 09:19	4° Υ 56'44	-2°05'06
superior conj	7746 Apr 13 13:01	25° Y 36'24	-2°11'07	minimum elong	7747 Mar 24 03:42		2°04'52
minimum elong	7746 Apr 13 14:15	25° Y 41'32	2°11'09	evening rise	7747 Apr 07 18:46	28° Y 18'30	
evening rise	7746 Apr 16 04:27 7746 Apr 26 04:36	0° と 17° と 07'31		asc. node	7747 Apr 08 19:17 7747 Apr 22 18:46	0°8 22°813'16	
J	7746 May 03 15:49	$\Pi^{\circ}0$		evening max el	7747 Apr 27 02:34	27° 8 27'12	18°22'18
asc. node evening max el	7746 May 05 21:43 7746 May 13 13:33	3° Ⅱ 41'10 14° Ⅱ 01'23	18°06'//1	retrograde	7747 Apr 30 08:01 7747 May 03 12:39	0°П 0°П54'28	
retrograde	7746 May 13 13:33	17° Ⅲ 22'06	10 00 41	evening set	7747 May 06 13:58	0° П 03'13	
evening set	7746 May 22 18:15	16° ∏ 44'09			7747 May 06 16:16	30°R ∀	
inferior conj minimum elong	7746 May 29 01:29 7746 May 29 04:04	11° П 35'13 11° П 28'32	2°53'46 2°53'10	inferior conj minimum elong	7747 May 12 10:26 7747 May 12 11:42	24° 8 36'07 24° 8 32'26	3°18'19 3°18'06
min. Earth dist.	7746 May 31 23:48	8° Ⅲ 33'40	0.62227 AU	min. Earth dist.	7747 May 14 18:20	21° 8 54'43	0.64252 AU
morning rise	7746 Jun 04 12:03	5°Ⅲ30′02		morning rise	7747 May 18 08:29	18° 8 22'05	
desc. node direct	7746 Jun 09 21:37 7746 Jun 11 06:27	3° П 08'46 3° П 02'57		direct desc. node	7747 May 25 01:54 7747 May 27 18:38	15° 8 38'52 16° 8 02'05	
morning max el	7746 Jun 25 09:18	11° Ⅱ 04'45	27°54'41	morning max el	7747 Jun 07 18:38	23° 8 37'51	27°30'56
	7746 Jul 10 05:48 7746 Jul 27 10:37	0ა V 0ა©			7747 Jun 13 11:01 7747 Jul 03 13:59	0°© 0°∏	
morning set	7746 Jul 29 05:05	3° Ω 33′28		morning set	7747 Jul 12 21:54	17° © 16'44	
asc. node	7746 Aug 01 21:00	11°Ω11'00	1 22102 177	max. Earth dist.	7747 Jul 17 17:16	27°501'26	1.33099 AU
max. Earth dist.	7746 Aug 03 17:26	15° Ω 08'54	1.32182 AU	asc. node	7747 Jul 19 03:21 7747 Jul 19 18:01	0° Ω 1° Ω 17'26	
superior conj	7746 Aug 05 17:57	19° Ω 32'27	0°38'45				
minimum elong	7746 Aug 05 16:17 7746 Aug 10 12:36	19° Ω 23'21 0° m	0°38'20	superior conj minimum elong	7747 Jul 20 23:22 7747 Jul 20 22:45	3° Ω 53'34 3° Ω 50'18	0°12'27 0°12'13
evening rise	7746 Aug 12 14:07	4° الله 27'22		behind sun begin	7747 Jul 20 19:13	3° £ 30 16	0 12 13
	7746 Aug 26 02:47	0° ⊽		behind sun end	7747 Jul 21 02:17	4° Ω 09'11	
desc. node evening max el	7746 Sep 05 20:41 7746 Sep 06 09:19	13° £ 53'36 14° £ 24'26	24°14'20	evening rise	7747 Jul 28 01:37 7747 Aug 02 09:13	19° Ω 07'31 0° m	
retrograde	7746 Sep 20 03:21	21° ≙ 18′21		evening max el	7747 Aug 18 21:30		22°35'12
evening set	7746 Sep 25 01:33	20° £ 24'51	0.56226 ATT	desc. node	7747 Aug 23 17:45	28° Mp 33'11	
min. Earth dist. inferior conj	7746 Sep 30 20:10 7746 Oct 03 06:48	1/° 22 31′1/ 16° 2 00′16	0.56326 AU -5°32'09	retrograde	7747 Aug 26 11:18 7747 Aug 31 23:41	0° 요 1° 요 10'24	
minimum elong	7746 Oct 03 07:12	15° ≏ 59'39		evening set	7747 Sep 04 09:36	0° ჲ 44'50	
morning rise	7746 Oct 11 15:00	12° £ 00'07			7747 Sep 06 18:04	30°R Mp	

minimum elong	7751 May 14 03:51	26° ႘ 33'21 0°Ⅱ	1°46'30	minimum elong	7752 Apr 24 12:43	7° 8 24'01	2°06'04
evening rise	7751 May 16 01:33 7751 May 24 03:10	0°Д 14°Д59'48		evening rise	7752 May 06 01:06 7752 May 07 09:16	27° ႘ 36'00 0° Ⅱ	
asc. node	7751 May 24 05:10 7751 May 27 06:07	14 Ⅲ 3948 20° Ⅱ 49'48		asc. node	7752 May 07 09:16 7752 May 13 03:09	0 H 10°H06'59	
asc. Houc	7751 Jun 01 09:45	0°95		evening max el	7752 May 13 05:09 7752 May 22 16:56	23° I I44'20	18°06'03
evening max el	7751 Jun 09 05:32	10° © 45'10	18°20'07	retrograde	7752 May 29 08:07	27° I 108'00	18 00 03
retrograde	7751 Jun 16 13:07	14°9524'51	10 2007	evening set	7752 May 31 22:09	26° I 37'04	
evening set	7751 Jun 18 19:49	14°904'24		inferior conj	7752 Jun 07 13:20	21° II 38'54	2°29'38
inferior conj	7751 Jun 26 04:02	9°926'30	1°26'53	minimum elong	7752 Jun 07 16:23		2°28'47
minimum elong	7751 Jun 26 06:43	9° © 20'55	1°25'54	min. Earth dist.	7752 Jun 10 17:59	18° II 35'06	0.60948 AU
min. Earth dist.	7751 Jun 29 13:41	6°937'37	0.58713 AU	morning rise	7752 Jun 14 08:14	15° Ⅱ 42'17	0.000 10 710
desc. node	7751 Jul 01 05:57	5° 9 22'10	0.00713110	desc. node	7752 Jun 17 02:58	14° I I14'29	
morning rise	7751 Jul 03 14:25	3°953'48		direct	7752 Jun 20 23:28	13° Ⅱ 30′03	
direct	7751 Jul 09 18:29	2°512'22		morning max el	7752 Jul 05 06:16	21° Ⅱ 28'41	27°52'10
morning max el	7751 Jul 24 03:41	9° © 57'44	27°17'18	3	7752 Jul 12 16:22	0°ಅ	
C	7751 Aug 08 13:32	$0^{\circ}\Omega$			7752 Jul 31 14:39	$0^{\circ}\Omega$	
asc. node	7751 Aug 23 05:29	26° Ω 58'53		morning set	7752 Aug 07 02:40	12° Ω 48′23	
morning set	7751 Aug 23 22:27	28° Ω 27'46		asc. node	7752 Aug 09 02:29	16° Ω 58'26	
C	7751 Aug 24 15:54	0° m y		max. Earth dist.	7752 Aug 13 01:22	25° Ω 30'13	1.31873 AU
					•		
superior conj	7751 Aug 30 23:20	13° m 47'04	1°12'02	superior conj	7752 Aug 14 10:06	28° Ω 30′08	0°52'09
minimum elong	7751 Aug 30 21:04	13° m 34'33	1°11'38	minimum elong	7752 Aug 14 08:05	28° Ω 18'56	0°51'43
max. Earth dist.	7751 Aug 30 16:00	13° Mp 06'26	1.31701 AU		7752 Aug 15 02:25	0° m)	
evening rise	7751 Sep 06 18:03	28° m 37'47		evening rise	7752 Aug 21 04:39	13° m 20'11	
	7751 Sep 07 09:34	0∘ ত			7752 Aug 29 12:11	0∘ ऌ	
	7751 Sep 23 23:01	0° M .		desc. node	7752 Sep 13 02:01	21° ≙ 55'43	
desc. node	7751 Sep 27 04:58	4°M37'00		evening max el	7752 Sep 16 16:55	25° £ 44'45	25°08'16
evening max el	7751 Oct 06 00:14	14°M48'21	26°26'19		7752 Sep 22 01:15	0° M	
retrograde	7751 Oct 19 22:14	21°M54'23		retrograde	7752 Sep 30 14:06	2°M45'21	
evening set	7751 Oct 26 14:06	20°M05'21		evening set	7752 Oct 06 07:17	1°M30'56	
min. Earth dist.	7751 Oct 30 13:38	17° M 30'41	0.59319 AU		7752 Oct 09 06:59	30° ₹	
inferior conj	7751 Nov 02 18:32	15°ML03'00	-4°40'09	min. Earth dist.	7752 Oct 11 04:24	28° ≙ 49'48	0.57321 AU
minimum elong	7751 Nov 03 01:31	14°M49'32	4°38'30	inferior conj	7752 Oct 14 02:11	26° ≙ 53′20	-5°23'03
morning rise	7751 Nov 10 15:13	10°M28'43		minimum elong	7752 Oct 14 06:11	26° ≙ 46'37	5°22'37
direct	7751 Nov 12 21:31	10° M 10'42		morning rise	7752 Oct 22 07:24	22° ≙ 42'10	
asc. node	7751 Nov 19 04:56	12°M39'42		direct	7752 Oct 24 18:44	22° ≏ 24'21	
morning max el	7751 Nov 20 18:04	14°ML01'17	18°20'05	morning max el	7752 Nov 02 19:33	26° £ 42'10	19°07'08
	7751 Dec 01 15:26	0°⊀		asc. node	7752 Nov 05 01:57	29° ≏ 07'13	
morning set	7751 Dec 06 14:50	9° ≯ 19'00			7752 Nov 05 19:22	0° M ₊	
		-		morning set	7752 Nov 19 14:27	23°M40'05	
superior conj	7751 Dec 15 19:44	26° ₹ 38'38	0°59'14		7752 Nov 22 18:54	0° ∡ ¹	
minimum elong	7751 Dec 15 23:14	26° ∡ 54'36	0°58'52				
	7751 Dec 17 16:06	0°る		superior conj	7752 Nov 27 20:37	9° ∡ 56'58	1°21'42
max. Earth dist.	7751 Dec 23 09:22	10°る02'38	1.40819 AU	minimum elong	7752 Nov 27 23:40	10° ∡ 11'36	1°21'30
desc. node	7751 Dec 24 04:04	11°る22'20		max. Earth dist.	7752 Dec 04 15:07	22° х 35'05	1.38661 AU
evening rise	7751 Dec 27 22:52	17° ප් 41'31		evening rise	7752 Dec 08 10:01	29° х 16′19	
	7752 Jan 04 16:37	0° ≈			7752 Dec 08 20:09	0°る	
avanina may al	7752 Jan 26 04:51 7752 Jan 31 06:23	0° ∺ 5° ∺ 36'29	22022122	desc. node	7752 Dec 10 01:04 7752 Dec 28 02:02	2°る03'43 0°≈	
evening max el		3 ₹3029 11°¥50'48	23 23 32	avanina may al		0 ≈ 19°≈21'43	24942121
retrograde	7752 Feb 10 19:38 7752 Feb 15 04:06	11° X 50'48 10° X 17'24		evening max el	7753 Jan 24 10:39		24°42'21
asc. node evening set	7752 Feb 15 04:06 7752 Feb 15 20:11	9° H 45'40		retrograde evening set	7753 Jan 24 10:32 7753 Jan 29 23:42	26°≈08'32 23°≈49'48	
min. Earth dist.	7752 Feb 13 20:11 7752 Feb 20 17:52		0.68303 AU	asc. node	7753 Feb 01 01:09	23 ≈4948 21°≈46'38	
inferior conj	7752 Feb 20 17:32 7752 Feb 21 06:03	3° ¥ 19′21	1°53'19	min. Earth dist.	7753 Feb 01 01:09 7753 Feb 03 13:22	21 ≈40 38 18°≈39'35	0.67865 AU
minimum elong	7752 Feb 21 00:03		1°52'39	inferior conj	7753 Feb 03 13.22 7753 Feb 04 12:54	18 ≈3933 17°≈21'28	1°08'00
minimum clong	7752 Feb 21 03:34 7752 Feb 23 18:32	30°R≈	1 32 39	minimum elong	7753 Feb 04 12:34 7753 Feb 04 11:22	17 ≈21 28 17°≈26'32	1°07'29
morning rise	7752 Feb 25 18:32 7752 Feb 26 11:35	30 k∞ 27°≈13'43		morning rise	7753 Feb 04 11.22 7753 Feb 09 23:14	17 ≈20 32 11°≈22'32	1 0/4)
direct	7752 Mar 01 17:45	25°≈32'43		direct	7753 Feb 13 16:23	11 ≈ 22 32 10° ≈ 03'24	
	7752 Mar 09 18:03	0° ∺		morning max el	7753 Feb 21 03:03	14°≈13'50	19°50'11
morning max el	7752 Mar 10 02:56	0° ∺ 21'50	21°00'49		7753 New 21 03:03	0° \	-, , , , 11
desc. node	7752 Mar 21 03:33	14°) (03'11		greatest brilliancy	7753 Mar 06 01:44	1°) €04'48	-0.6m
	7752 Apr 01 02:11	0°Υ		desc. node	7753 Mar 08 00:31	3° ¥ 57′20	
morning set	7752 Apr 09 13:37	13° Υ 00'52		morning set	7753 Mar 19 10:56	21° H 17'58	
max. Earth dist.	7752 Apr 17 06:48	25° Y 20'07	1.42756 AU		7753 Mar 25 01:33	0°Υ	
	7752 Apr 20 02:56	0°8		max. Earth dist.	7753 Mar 30 17:35	8° Υ 55'50	1.44328 AU
		-					
superior conj	7752 Apr 24 08:43	7° 8 07'01	-2°06'12	superior conj	7753 Apr 04 18:24	17° Ƴ 00'39	-2°11'00

minimum elong	7753 Apr 04 16:52	16° Ƴ 54'25	2°11'01		7754 Feb 26 15:01	0° ∀	
	7753 Apr 12 15:34	9° 8		max. Earth dist.	7754 Mar 13 09:44	23° ∺ 05'30	1.45267 AU
evening rise	7753 Apr 18 04:03	9° 8 20'00					
asc. node	7753 Apr 30 00:12	28° 8 57'45		superior conj	7754 Mar 15 06:38	26°) €01'52	
	7753 Apr 30 16:50	0° П	10011104	minimum elong	7754 Mar 14 22:33	25°) 30′04 0° °	1°55'49
evening max el	7753 May 06 06:10	7° Ⅲ 02'08 10° Ⅲ 24'21	18°11'04	ovenina rice	7754 Mar 17 19:03 7754 Mar 30 08:12	0°γ' 20°Υ'05'53	
retrograde evening set	7753 May 12 15:32 7753 May 15 12:40	10 П 2421 9° П 41'02		evening rise	7754 Apr 05 10:35	0° 8	
inferior conj	7753 May 15 12:40 7753 May 21 14:51	4° ∏ 24'11	3°06'39	asc. node	7754 Apr 16 21:16	17° 8 13'53	
minimum elong	7753 May 21 16:54	4° Ⅱ 18'33	3°06'13	evening max el	7754 Apr 19 18:24	20° 8 31'46	18°34'25
min. Earth dist.	7753 May 24 07:21	1° ∏ 28'48	0.63120 AU	retrograde	7754 Apr 26 07:08	24° 8 05'48	
	7753 May 25 18:39	30° ₹ 8		evening set	7754 Apr 29 11:26	23° 8 08'48	
morning rise	7753 May 27 19:41	28° 8 14'01		inferior conj	7754 May 05 04:30	17° 8 34'43	3°23'02
direct	7753 Jun 03 14:24	25° 8 38'30		minimum elong	7754 May 05 05:10	17° 8 32'42	3°22'54
desc. node	7753 Jun 04 00:00	25° 8 39'01		min. Earth dist.	7754 May 07 05:56	15° 8 06'15	0.65016 AU
	7753 Jun 13 12:07	0°II		morning rise	7754 May 10 22:08	11° 8 18'41	
morning max el	7753 Jun 17 13:57	3° Ⅱ 41′22	27°48'48	direct	7754 May 17 13:17	8° 8 31'56	
	7753 Jul 07 05:25	0.20		desc. node	7754 May 21 21:02	9° 8 31'48	25010154
morning set	7753 Jul 22 00:24	26°\$47'11 0°Ω		morning max el	7754 May 30 23:58	16° ႘ 26'49 0° Ⅱ	27°10'54
asc. node	7753 Jul 23 14:24 7753 Jul 26 23:30	7° Ω 03'20			7754 Jun 11 04:50 7754 Jun 30 01:09	0₀ © 0∘П	
max. Earth dist.	7753 Jul 26 25:30 7753 Jul 27 05:33		1.32506 AU	morning set	7754 Jul 05 12:52	10° © 16'20	
max. Earth dist.	7733 Jul 27 03.33	1 66 33 32	1.32300 AU	max. Earth dist.	7754 Jul 10 00:57	10 \$310 20 19° \$514'09	1.33628 AU
superior conj	7753 Jul 29 18:03	13° Ω 00'37	0°28'01	max. Lartii dist.	7754341 10 00.57	1) 3140)	1.55020 710
minimum elong	7753 Jul 29 16:46	12° £ 53′39	0°27'41	superior conj	7754 Jul 13 21:05	27° © 12'36	0°00'15
evening rise	7753 Aug 05 16:19	28° Ω 02'14		minimum elong	7754 Jul 13 21:05	27° © 12'34	0°00'09
C	7753 Aug 06 14:30	0° m p		behind sun begin	7754 Jul 13 15:32	26°543'17	
	7753 Aug 23 19:27	0∘ ⊽		behind sun end	7754 Jul 14 02:38	27° © 41'53	
evening max el	7753 Aug 29 04:33	6° ჲ 05'30	23°32'17	asc. node	7754 Jul 13 20:30	27° © 09'30	
desc. node	7753 Aug 30 23:04	7° £ 42'25			7754 Jul 15 04:43	0 ° Ω	
retrograde	7753 Sep 11 18:05	12° £ 53′01		evening rise	7754 Jul 21 03:12	12° Ω 38′22	
evening set	7753 Sep 16 00:38	12° £ 13′02			7754 Jul 29 23:32	0° m	
min. Earth dist.	7753 Sep 22 14:28	9° Ω 06'52	0.55705 AU	evening max el	7754 Aug 10 19:07	16° m 22'33	21°54'34
inferior conj	7753 Sep 24 13:47	7° £ 56'36 8° £ 00'46		desc. node	7754 Aug 17 20:09	21°Mp24'55	
minimum elong morning rise	7753 Sep 24 10:59 7753 Oct 02 23:33	8° <u>≈</u> 00′46 4° <u>≈</u> 03'18	5°28'43	retrograde evening set	7754 Aug 23 10:08 7754 Aug 26 06:05	22° m 38'37 22° m 20'42	
direct	7753 Oct 02 23:35 7753 Oct 05 20:26	3° £ 43'04		inferior conj	7754 Sep 04 10:06	18° Mp 20'06	-4°41'45
morning max el	7753 Oct 16 09:12	8° £ 38'55	20°16'32	minimum elong	7754 Sep 04 01:17	18° m) 32'27	
asc. node	7753 Oct 22 22:59	16° £ 37'42	20 10 52	min. Earth dist.	7754 Sep 03 23:15	•	0.54806 AU
	7753 Oct 30 16:39	0°M		morning rise	7754 Sep 12 21:50	14° mp 31'00	
morning set	7753 Nov 03 20:19	8°M17'58		direct	7754 Sep 16 07:59	14° m 05'10	
				morning max el	7754 Sep 28 09:59	19° m 46'36	21°46'39
superior conj	7753 Nov 11 10:53	23°M53'46	1°35'23		7754 Oct 06 18:13	0∘ ⊽	
minimum elong	7753 Nov 11 12:44	24°M03'03	1°35'22	asc. node	7754 Oct 09 20:01	4° £ 56′03	
	7753 Nov 14 12:28	0° ∡ ¹		morning set	7754 Oct 19 05:58	23° Ω 04'45	
max. Earth dist.	7753 Nov 16 21:37	4° ₹ 36'31	1.36571 AU		7754 Oct 22 12:37	0°M	
evening rise	7753 Nov 20 17:43	11° 🖈 46'24			7754 0-4 26 10-20	00 M 17110	1941110
desc. node	7753 Nov 26 22:06 7753 Dec 01 09:51	22°♂37'35 0°る		superior conj minimum elong	7754 Oct 26 10:29 7754 Oct 26 10:58	8°M16'18 8°M18'46	1°41'19 1°41'23
	7753 Dec 01 09:31 7753 Dec 23 07:46	0°≈		max. Earth dist.	7754 Oct 30 10:10	16°M29'26	1.34751 AU
evening max el	7753 Dec 26 08:39	3°≈08'37	25°53'18	evening rise	7754 Nov 03 18:01	25°M00'41	1.54/51 AO
retrograde	7754 Jan 07 20:45	10°≈16'52	20 00 10	evening rise	7754 Nov 06 09:39	0° ⊼	
evening set	7754 Jan 13 22:38	7° ≈ 47'20		desc. node	7754 Nov 13 19:08	12° ₹ '58'18	
min. Earth dist.	7754 Jan 18 05:28	3°≈11'35	0.67055 AU		7754 Nov 24 21:56	5°0	
asc. node	7754 Jan 18 22:14	2° ≈ 19'04		evening max el	7754 Dec 08 21:58	16° る 50'23	26°49'05
inferior conj	7754 Jan 19 16:18	1° ≈ 22'04	0°15'05	retrograde	7754 Dec 22 01:23	24° る 08'20	
minimum elong	7754 Jan 19 15:55	1° ≈ 23'18	0°15'01	evening set	7754 Dec 28 15:00	21° る 32'30	
transit middle	7754 Jan 19 15:55	1° ≈ 23'18	0°15'01	min. Earth dist.	7755 Jan 01 15:45	17° る 31'20	0.65884 AU
transit begin	7754 Jan 19 14:53	1°≈26'33		inferior conj	7755 Jan 03 14:08	15°る16'04	
transit end	7754 Jan 19 16:56	1°≈20'04		minimum elong	7755 Jan 03 15:25	15° る 12'20	0°44'08
	7754 Jan 20 18:42	30°Rる		asc. node	7755 Jan 05 19:19	12° る 46'38	
morning rise	7754 Jan 25 09:44	25° る 31'43		morning rise	7755 Jan 09 16:50	9° る 36'49	
direct morning max el	7754 Jan 28 15:23 7754 Feb 04 10:48	24°る31'49 28°る15'29	18°54'36	direct morning max el	7755 Jan 12 12:50 7755 Jan 19 00:24	8°る52'35 12°る20'51	18°15'23
morning max er	7754 Feb 04 10:48 7754 Feb 06 02:07	28° ⊘ 15′29	10 54 30	morning max er	7755 Jan 19 00:24 7755 Jan 31 15:45	0°≈	10 13 43
desc. node	7754 Feb 22 21:31	0 ∞ 24°≈11'34		morning set	7755 Feb 07 03:59	0 ∞ 10°≈28'10	
morning set	7754 Feb 26 17:55	0°) 11'17		desc. node	7755 Feb 09 18:29	10 ≈ 28 10 14° ≈ 39'44	
		- / /				2	

	7755 Feb 19 09:41	0°) €		morning max el	7756 Jan 02 17:13		17°53'12
	######################################	40)/ 404.5	1000174		7756 Jan 05 20:11	0°る	
superior conj	7755 Feb 22 11:13	4°) (49'17		morning set	7756 Jan 19 18:58	22°る10'21	
minimum elong	7755 Feb 22 02:05	4° ★ 13'26		1 1	7756 Jan 24 10:50	0°≈	
max. Earth dist.	7755 Feb 24 05:08	7° ∺ 33'38	1.45477 AU	desc. node	7756 Jan 27 15:27	5°≈17'31	
evening rise	7755 Mar 10 13:29	29° ¥ 58'10 0° Ƴ			775 (E-1- 02 02-20	1.401.512.5	0929157
araataat brillianay	7755 Mar 10 13:57	0° γ 17° Υ 39'55	-0.7m	superior conj	7756 Feb 02 03:39 7756 Feb 01 23:10	14°≈15'35 13°≈57'31	-0°38'57 0°38'13
greatest brilliancy	7755 Mar 21 23:00 7755 Mar 30 13:46	0° 8	-0.7111	minimum elong max. Earth dist.	7756 Feb 07 00:47	13 ≈3731 22°≈02'38	0 38 13 1.44942 AU
avanina may al	7755 Apr 03 03:14	4° 8 07'24	19°15'07	max. Earth dist.	7756 Feb 12 02:32	22 ≈ 02 38 0° ∺	1.44942 AU
evening max el asc. node	7755 Apr 03 18:20	4° 8 44'32	19 13 07	evening rise	7756 Feb 18 03:13	9° ∺ 19'10	
retrograde	7755 Apr 10 03:28	8° 8 05'08		evening rise	7756 Mar 02 19:58	9 γ 1910	
evening set	7755 Apr 13 15:29	6° 8 53'40		greatest brilliancy	7756 Mar 03 22:30	1° Υ 37'12	-0.6m
•	7755 Apr 19 02:44	1° 8 03'50	3°23'25	evening max el	7756 Mar 16 06:59	1 γ 3/ 12 17° Υ 44'43	-0.0m 20°11'19
inferior conj minimum elong	7755 Apr 19 02:08	_		asc. node	7756 Mar 20 15:24	17 γ 44 43 21° γ 16'00	20 11 19
minimum ciong	7755 Apr 19 02:06	1 003 49 30°RΥ	3 23 19	retrograde	7756 Mar 24 01:48	21 γ 10 00 22°Υ16'15	
min. Earth dist.	7755 Apr 20 12:48	29° Υ 13'43	0.66511 AU	evening set	7756 Mar 27 22:26	22 Υ 10 13 20° Υ 49'49	
morning rise	7755 Apr 24 12:25	24°\bar{\gamma}46'29	0.00311 AU	inferior conj	7756 Apr 02 06:39	14° Υ 46'03	3°11'02
direct	7755 Apr 30 18:39	22°\bar{\gamma}01'05		minimum elong	7756 Apr 02 05:05	14° Υ 51'24	3°10'47
desc. node	7755 May 08 18:03	25°Υ22'56		min. Earth dist.	7756 Apr 03 02:19	13° Y $39'21$	0.67566 AU
morning max el	7755 May 13 10:05	29° Υ 33'41	26°06'09	morning rise	7756 Apr 07 11:31	8° Υ 29'55	0.07300 AC
morning max ci	7755 May 13 20:22	0° 8	20 00 07	direct	7756 Apr 13 05:28	5°Υ55'58	
	7755 Jun 05 01:43	0°II		desc. node	7756 Apr 24 15:02	12° Υ 41'04	
morning set	7755 Jun 18 12:26	23° Ⅱ 06'04		morning max el	7756 Apr 24 19:18	12° Y 51'48	24°43'58
morning set	7755 Jun 22 03:54	0°9		morning max cr	7756 May 08 14:57	0° 8	24 43 30
max. Earth dist.	7755 Jun 22 09:41		1.35229 AU		7756 May 27 20:41	0°II	
max. Earth dist.	7755 Juli 22 09.41	0 32/39	1.33229 AU	morning set	7756 May 30 18:16	5° Ⅱ 02'34	
superior conj	7755 Jun 27 16:45	10°959'34	-0°30'11	max. Earth dist.	7756 Jun 03 09:10	11° II 32'58	1.37227 AU
minimum elong	7755 Jun 27 18:30	11°908'26		max. Lartii dist.	7730 Juli 03 07.10	11 1132 36	1.37227 AC
asc. node	7755 Jun 30 17:31	17° © 13'19	0 2737	superior conj	7756 Jun 10 01:49	24° Ⅱ 12'07	-1°01'//3
evening rise	7755 Jul 05 11:15	27°902'58		minimum elong	7756 Jun 10 01:49	24° II 30'19	
evening rise	7755 Jul 06 21:49	0°Ω		minimum ciong	7756 Jun 13 00:31	0°95	1 01 12
evening max el	7755 Jul 23 20:20	27° Ω 08'32	20°29'00	asc. node	7756 Jun 16 14:31	7° © 10'00	
evening max er	7755 Jul 27 06:10	0° m)	20 27 00	evening rise	7756 Jun 18 14:01	11°908'07	
retrograde	7755 Aug 03 22:15	2° Mp 36'46		evening rise	7756 Jun 28 19:09	0°Ω	
desc. node	7755 Aug 04 17:13	2° m/35'11		evening max el	7756 Jul 05 10:34	8° Ω 37'31	19°22'35
evening set	7755 Aug 05 22:37	2° m/26'41		retrograde	7756 Jul 14 19:39	13° Ω 15'05	17 22 33
e venning see	7755 Aug 12 10:58	30°RΩ		evening set	7756 Jul 16 16:41	13° Ω 04'46	
inferior conj	7755 Aug 15 03:17	28° Ω 29'31	-3°05'17	desc. node	7756 Jul 21 14:17	11° Ω 13'39	
minimum elong	7755 Aug 14 19:02	28° Ω 41'26		inferior conj	7756 Jul 25 07:43	8° Ω 57'01	-1°08'14
min. Earth dist.	7755 Aug 16 09:08	27° Ω 46'19		minimum elong	7756 Jul 25 04:40	9° Ω 01'59	
morning rise	7755 Aug 23 14:51	24° Ω 24'47	0.5 1050 110	min. Earth dist.	7756 Jul 27 21:59		0.55800 AU
direct	7755 Aug 27 17:21	23° Ω 48'37		morning rise	7756 Aug 02 13:59	4° Ω 19'17	0.55000 710
direct	7755 Sep 09 18:33	0°m)		direct	7756 Aug 07 11:58	3° Ω 24'28	
morning max el	7755 Sep 10 01:17	0° mp 15'36	23°30'20	morning max el	7756 Aug 21 13:58	10° Ω 30'36	25°13'59
asc. node	7755 Sep 26 17:01	23° m 50'54	23 20 20	morning man er	7756 Sep 05 08:15	0°m	20 13 09
	7755 Sep 29 21:25	0∘ ⊽		asc. node	7756 Sep 12 14:00	13° m 12'29	
morning set	7755 Oct 03 17:27	7° ≙ 55'07		morning set	7756 Sep 17 05:02	22° m 43'46	
2 ·				5 ·	7756 Sep 20 13:41	0ಂ ರ	
superior conj	7755 Oct 10 16:23	22° ≏ 55'42	1°40'28				
minimum elong	7755 Oct 10 15:38	22° £ 51'39		superior conj	7756 Sep 24 02:07	7° ≏ 44'17	1°33'36
max. Earth dist.	7755 Oct 13 07:16		1.33325 AU	minimum elong	7756 Sep 24 00:28	7° ≏ 35'11	1°33'29
	7755 Oct 13 23:57	0°M		max. Earth dist.	7756 Sep 25 11:45	10° ≏ 48'32	1.32336 AU
evening rise	7755 Oct 18 07:03	8°M49'03		evening rise	7756 Oct 01 05:25	23° ♀ 02'11	
8 21	7755 Oct 29 20:27	0° ∡ 7		<i>5</i>	7756 Oct 04 16:28	0°M	
desc. node	7755 Oct 31 16:11	2° ∡ 759'37		desc. node	7756 Oct 17 13:14	22°M33'21	
	7755 Nov 21 03:54	0°⋜			7756 Oct 22 15:11	0°⊀	
evening max el	7755 Nov 21 10:36	0°る16'02	27°22'22	evening max el	7756 Nov 02 20:32	13° ∡ 12'29	27°26'48
retrograde	7755 Dec 04 23:38	7° る 35'06		retrograde	7756 Nov 16 15:08	20° ≯ 28'08	-
evening set	7755 Dec 11 22:27	4°る59'27		evening set	7756 Nov 23 18:02	18° ₹ '01'46	
min. Earth dist.	7755 Dec 15 17:56		0.64368 AU	min. Earth dist.	7756 Nov 27 10:08	15° ₹ '03'11	0.62544 AU
	7755 Dec 17 04:43	30°R. ₹		inferior conj	7756 Nov 30 06:56	12° × ⁷ 20'11	
inferior conj	7755 Dec 17 04:45	28° × 757'48	-1°50'22	minimum elong	7756 Nov 30 12:31	12° × 2011	
minimum elong	7755 Dec 18 07:21	28° × ⁷ 48'49		morning rise	7756 Dec 07 09:02	7°×712'42	_ 5550
asc. node	7755 Dec 23 16:23	24° × 04'47	1 1001	direct	7756 Dec 07 09:02	6° ₹ 48'37	
morning rise	7755 Dec 24 17:47	23°×732'43		asc. node	7756 Dec 09 13:24	6° × ⁷ 48'41	
direct	7755 Dec 27 06:11	23°× 00'24		morning max el	7756 Dec 16 10:13	10° ₹ 15'28	17°48'43
	,,55 500 2, 00.11				.,55 200 10 10.13	10 7 10 20	1, 10 15

morning set	7756 Dec 29 13:31 7757 Jan 01 09:12	0°궁 4°궁59'19		direct asc. node morning max el	7757 Nov 22 15:22 7757 Nov 26 10:26 7757 Nov 30 00:01	20°M08'12 21°M06'55 23°M47'48	18°02'55
superior conj	7757 Jan 12 20:14	24° පි 53'16	0°04'57		7757 Dec 04 23:37	0° ≯	
minimum elong	7757 Jan 12 20:44	24° る 55'21	0°04'58	morning set	7757 Dec 15 16:12	18° ₹ 35'02	
behind sun begin	7757 Jan 12 12:08	24° る 19'08			7757 Dec 21 20:29	8°0	
behind sun end	7757 Jan 13 05:20	25° る 31'29					
desc. node	7757 Jan 13 12:26	26° පි 01'17		superior conj	7757 Dec 25 14:07	6° る 43'07	0°42'00
n d r	7757 Jan 15 21:51	0° ≈	1 42525 411	minimum elong	7757 Dec 25 17:11	6° る 56'43	0°41'41
max. Earth dist. evening rise	7757 Jan 19 17:29 7757 Jan 27 15:36	6°≈13'49 18°≈44'56	1.43725 AU	desc. node max. Earth dist.	7757 Dec 31 09:26 7758 Jan 02 05:13	16° ප් 46'55 19° ප් 50'55	1.41977 AU
evening rise	7757 Feb 04 00:44	0°) (evening rise	7758 Jan 02 03:13	19 3 3033	1.419// AU
	7757 Feb 25 21:37	0° Υ		evening rise	7758 Jan 08 10:45	0°≈	
evening max el	7757 Feb 27 05:11	1° Υ 23'22	21°20'08		7758 Jan 28 15:44	0° ∀	
asc. node	7757 Mar 07 12:28	6°Υ33'54		evening max el	7758 Feb 09 22:34	15°) €03'48	22°37'29
retrograde	7757 Mar 08 00:04	6° Ƴ 35′07		retrograde	7758 Feb 19 20:28	20°) 56'45	
evening set	7757 Mar 12 06:29	4° Y 53'36		asc. node	7758 Feb 22 09:32	20°) 23′55	
	7757 Mar 16 14:16	30° ₹ ₩		evening set	7758 Feb 24 13:57	19° ∺ 00'15	
inferior conj	7757 Mar 17 13:55	28°) ₹38′23	2°48'03	inferior conj	7758 Mar 01 22:29	12°) ₹36′52	2°15'48
minimum elong	7757 Mar 17 11:47	28°) 45'49	2°47'34	minimum elong	7758 Mar 01 20:13	12°) 44′46	2°15'09
min. Earth dist.	7757 Mar 17 20:29	28°) 15′34	0.68180 AU	min. Earth dist.	7758 Mar 01 17:00	12° ¥ 55'55	0.68371 AU
morning rise	7757 Mar 22 16:55	22°) 25'03		morning rise	7758 Mar 07 02:20	6°) €27'47	
direct	7757 Mar 27 21:03	20°) (15'20	2221.4120	direct	7758 Mar 11 16:22	4°) €33'42	21045105
morning max el	7757 Apr 07 04:48	26°) 17′20 0° °	23°14'28	morning max el	7758 Mar 20 17:34	9°) 50'32	21°47'05
daga mada	7757 Apr 10 14:42	1° Υ 02'29		desc. node	7758 Mar 29 08:58	20°) 09'09 0° °	
desc. node	7757 Apr 11 12:00 7757 May 02 04:22	0° 8		morning set	7758 Apr 05 11:04 7758 Apr 22 03:52	0° γ 25° Υ 24'06	
morning set	7757 May 12 00:52	15° 8 52'01		morning set	7758 Apr 25 00:17	0° 8	
max. Earth dist.	7757 May 16 05:05	22° 8 59'12	1.39448 AU	max. Earth dist.	7758 Apr 28 04:15	·	1.41630 AU
man. Darm dist.	7757 May 20 04:26	0°II	1.57 . 10 110	man. Barar alou.	770011p1 20 010	0 01212	1.11000110
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-		superior conj	7758 May 05 20:06	18° 8 16'29	-1°56'30
superior conj	7757 May 23 20:28	6° Ⅱ 41'17	-1°31'48	minimum elong	7758 May 06 01:30	18° 8 40'09	
minimum elong	7757 May 24 01:50	7° Ⅱ 06'09	1°31'12	-	7758 May 12 09:21	$\Pi^{\circ}0$	
evening rise	7757 Jun 02 08:36	24° Ⅱ 46′13		evening rise	7758 May 16 15:18	7° Ⅱ 47'51	
asc. node	7757 Jun 03 11:31	26° Ⅱ 55'32		asc. node	7758 May 21 08:34	16° Ⅱ 24'56	
	7757 Jun 05 02:12	0 \circ \odot			7758 May 29 19:01	0 \circ \odot	
evening max el	7757 Jun 18 11:58	20° © 48'51	18°37'00	evening max el	7758 Jun 01 20:53	3° © 34'03	18°11'46
retrograde	7757 Jun 26 10:36	24° © 45'22		retrograde	7758 Jun 08 20:07	7° 5 04'49	
evening set	7757 Jun 28 12:52	24° © 29'50		evening set	7758 Jun 11 05:56	6°5540'16	
inferior conj	7757 Jul 06 08:22	20°503'55		inferior conj	7758 Jun 18 06:30	1°954'00	1°56'57
minimum elong	7757 Jul 06 09:45	20°501'17	0°37'06	minimum elong	7758 Jun 18 09:35	1°5647'09	1°55'55
desc. node min. Earth dist.	7757 Jul 08 11:19 7757 Jul 09 15:34	18° © 26'29 17° © 34'04	0.57514 AU	min Earth dist	7758 Jun 20 09:33 7758 Jun 21 15:26	30°ŖⅡ 28°Ⅱ55'27	0.59658 AU
morning rise	7757 Jul 14 03:06	17 \$34 04 14°\$49'05	0.37314 AU	min. Earth dist. morning rise	7758 Jun 25 10:16	26° ∏ 09'44	0.39038 AU
direct	7757 Jul 19 21:17	13°526'00		desc. node	7758 Jun 25 08:21	26° Ⅲ 12'35	
morning max el	7757 Aug 03 06:14	21°500'57	26°40'39	direct	7758 Jul 01 20:12	24° ∏ 14'18	
morning man er	7757 Aug 11 01:29	0°Ω	20 .035		7758 Jul 13 22:15	0.2 2.2	
	7757 Aug 29 00:46	0° m		morning max el	7758 Jul 16 04:51	2° © 06'59	27°36'41
asc. node	7757 Aug 30 10:57	2° m 53'34			7758 Aug 05 10:29	$0^{\circ}\Omega$	
morning set	7757 Sep 01 15:08	7°M 25'55		morning set	7758 Aug 16 22:05	21° Ω 56′37	
				asc. node	7758 Aug 17 07:56	22° Ω 48′17	
superior conj	7757 Sep 08 13:43	22° Mp 35'47			7758 Aug 20 16:33	0° ™	
minimum elong	7757 Sep 08 11:33	22° m 23'46	1°21'02	max. Earth dist.	7758 Aug 23 07:10	5° Mp 43'52	1.31715 AU
max. Earth dist.	7757 Sep 08 20:52	23° m 15'29	1.31799 AU				
	7757 Sep 11 22:14	0∘ ⊽		superior conj	7758 Aug 24 01:21	7° Mp 24'26	1°04'09
evening rise	7757 Sep 15 10:20	7° Ω 32'24		minimum elong	7758 Aug 23 23:07	7°Mp12'07	1°03'44
daga mada	7757 Sep 27 03:29	0°M 11° m 20'04		evening rise	7758 Aug 30 19:29	22° Mp 13'01	
desc. node evening max el	7757 Oct 04 10:18 7757 Oct 16 01:16	11°M28'04 25°M27'25	26°58'05	desc. node	7758 Sep 03 13:15 7758 Sep 21 07:21	0° ჲ 29° ჲ 28'24	
Cvening max ei	7757 Oct 16 01:16 7757 Oct 21 19:53	25°11627'25 0° x 7	20 3003	desc. Hode	7758 Sep 21 07:21 7758 Sep 21 17:19	29° ±± 28°24 0° ™	
retrograde	7757 Oct 21 19:53	0 x ⁴ 2° x ³37'44		evening max el	7758 Sep 27 17:19	6°M53'37	25°56'21
evening set	7757 Nov 05 21:46	0° ₹ 31'52		retrograde	7758 Oct 11 21:16	13°M57'51	
	7757 Nov 06 18:18	30°RM		evening set	7758 Oct 18 04:52	12°M23'11	
min. Earth dist.	7757 Nov 09 15:43		0.60509 AU	min. Earth dist.	7758 Oct 22 11:32	9° M 47'49	0.58435 AU
inferior conj	7757 Nov 12 19:41	25°M14'22		inferior conj	7758 Oct 25 14:51	7°M31'25	
minimum elong	7757 Nov 13 02:45	24°M59'38		minimum elong	7758 Oct 25 21:05	7°M20'05	5°00'34
morning rise	7757 Nov 20 10:03	20°M27'24		morning rise	7758 Nov 02 15:36	3°M06'55	

direct	7758 Nov 04 23:17	2°M49'24		morning max el	7759 Oct 27 03:41	19° ≙ 13′28	19°33'52
asc. node	7758 Nov 13 07:27	6° ™ 51'49		asc. node	7759 Oct 31 04:28	23° ≏ 47'53	
morning max el	7758 Nov 13 07:02	6° ™ 50'49	18°37'23		7759 Nov 04 08:45	0°M₊	
	7758 Nov 28 01:09	0° ≯		morning set	7759 Nov 13 13:34	17°M12'36	
morning set	7758 Nov 29 10:56	2° ≯ 43'17			7759 Nov 19 22:02	0° ∡ 7	
superior conj	7758 Dec 08 05:12	19° ∡ ³33'26	1°09'52	superior conj	7759 Nov 21 12:17	3° ₹ 09'22	1°28'31
minimum elong	7758 Dec 08 08:38	19° ,∕ 49'32	1°09'34	minimum elong	7759 Nov 21 14:52	3° ҂ ¹22'04	1°28'24
	7758 Dec 13 22:34	8°0		max. Earth dist.	7759 Nov 27 18:13	15° ₹ 05'03	1.37755 AU
max. Earth dist.	7758 Dec 15 12:28	2° ප් 46'51	1.39908 AU	evening rise	7759 Dec 01 11:48	21° 渘 ¹50′00	
desc. node	7758 Dec 18 06:27	7° る 31'09		desc. node	7759 Dec 05 03:28	28° 渘 ¹09'50	
evening rise	7758 Dec 19 15:30	9° る 50'47			7759 Dec 06 05:36	0°ರ	
	7759 Jan 01 09:12	0° ≈			7759 Dec 26 07:09	0° ≈	
evening max el	7759 Jan 23 12:56	28° ≈ 47'57	23°57'39	evening max el	7760 Jan 06 02:08	12° ≈ 34'55	25°14'01
	7759 Jan 24 18:52	0° ∀		retrograde	7760 Jan 18 02:27	19° ≈ 31'29	
retrograde	7759 Feb 03 13:36	5°) (17′07		evening set	7760 Jan 23 21:07	17° ≈ 07'49	
evening set	7759 Feb 08 19:21	3°) €06'15		asc. node	7760 Jan 27 03:42	13° ≈ 40′59	
asc. node	7759 Feb 09 06:37	2°) (41′19		min. Earth dist.	7760 Jan 28 07:50	12° ≈ 12′20	0.67566 AU
	7759 Feb 11 17:34	30° R ≈		inferior conj	7760 Jan 29 12:07	10° ≈ 40′26	0°46'27
min. Earth dist.	7759 Feb 13 13:34	27° ≈ 36′06	0.68162 AU	minimum elong	7760 Jan 29 11:01	10° ≈ 44′03	0°46'06
inferior conj	7759 Feb 14 06:30	26° ≈ 38'36	1°35'06	morning rise	7760 Feb 04 01:12	4° ≈ 44'57	
minimum elong	7759 Feb 14 04:33	26° ≈ 45′13	1°34'27	direct	7760 Feb 07 13:22	3° ≈ 34'12	
morning rise	7759 Feb 19 13:45	20° ≈ 35′24		morning max el	7760 Feb 14 16:24	7° ≈ 31'22	19°24'38
direct	7759 Feb 23 14:18	19° ≈ 03'42		greatest brilliancy	7760 Feb 27 14:45	24° ≈ 35'49	-0.7m
morning max el	7759 Mar 03 12:56	23° ≈ 34'57	20°29'01	desc. node	7760 Mar 02 02:56	29° ≈ 52'16	
	7759 Mar 09 02:06	0° ∀			7760 Mar 02 04:58	0° ℋ	
desc. node	7759 Mar 16 05:57	9°) (48'43		morning set	7760 Mar 10 05:34	12° 升 17′40	
	7759 Mar 29 18:37	$0^{\circ}\Upsilon$			7760 Mar 21 14:28	0 ° $\mathbf{\gamma}$	
morning set	7759 Apr 01 07:06	3° Y 53'16		max. Earth dist.	7760 Mar 23 00:56	2° Y 15'50	1.44812 AU
max. Earth dist.	7759 Apr 10 10:56	18° Ƴ 21'04	1.43495 AU				
				superior conj	7760 Mar 26 19:54	8° Ƴ 16'58	
superior conj	7759 Apr 16 20:18	28° Ƴ 48′25	-2°10'21	minimum elong	7760 Mar 26 15:19	7° Ƴ 58'41	2°07'11
minimum elong	7759 Apr 16 22:24	28° Y 57'09	2°10'22		7760 Apr 09 03:23	0° 8	
	7759 Apr 17 13:30	0°8		evening rise	7760 Apr 09 23:20	1° 8 23'07	
evening rise	7759 Apr 29 05:43	20° 8 02'57		asc. node	7760 Apr 24 02:42	24° 8 09'43	
	7759 May 04 22:35	0°Ⅲ			7760 Apr 28 19:53	$\Pi^{\circ}0$	
asc. node	7759 May 08 05:37	5° Ⅱ 32'03		evening max el	7760 Apr 28 22:45	0° Ⅱ 07'14	18°18'47
evening max el	7759 May 16 09:34	16° Ⅱ 42'57	18°05'55	retrograde	7760 May 05 08:21	3° Ⅱ 32'49	
retrograde	7759 May 22 20:52	20° Ⅱ 03'52		evening set	7760 May 08 08:35	2° Ⅱ 43'38	
evening set	7759 May 25 14:04	19° ∏ 27'44			7760 May 11 19:18	30°R 8	
inferior conj	7759 May 31 23:13	14° ∏ 21'30	2°48'10	inferior conj	7760 May 14 06:25	27° 8 19'01	3°15'47
minimum elong	7759 Jun 01 01:57	14° ∏ 14'32	2°47'29	minimum elong	7760 May 14 07:54	27° 8 14'47	3°15'32
min. Earth dist.	7759 Jun 03 23:20	11° Ⅱ 18'45	0.61901 AU	min. Earth dist.	7760 May 16 16:32	24° 8 33'36	0.63968 AU
morning rise	7759 Jun 07 11:54	8° Ⅱ 18'21		morning rise	7760 May 20 06:07	21° 8 05'44	
desc. node	7759 Jun 12 05:24	6° Ⅱ 07'23		direct	7760 May 27 00:01	18° 8 24'17	
direct	7759 Jun 14 05:46	5° ∏ 54'52		desc. node	7760 May 29 02:26	18° 8 38'21	
morning max el	7759 Jun 28 09:39	13° Ⅱ 55'48	27°55'15	morning max el	7760 Jun 09 18:46	26° 8 24'33	27°36'36
	7759 Jul 11 07:40	0° ©			7760 Jun 13 02:50	0°Ⅱ	
	7759 Jul 28 22:04	0°N			7760 Jul 03 22:05	0°9	
morning set	7759 Jul 31 23:50	6° Ω 08'58		morning set	7760 Jul 14 18:01	19° © 56'33	
asc. node	7759 Aug 04 04:55	12° Ω 50'47	1 22000 111	max. Earth dist.	7760 Jul 19 15:59	29° © 58'00	1.32934 AU
max. Earth dist.	7759 Aug 06 14:49	18° Ω 01'32	1.32088 AU		7760 Jul 19 16:22	0°Ω	
	77. 50 1 00 11 10	222 0 221 2	0040105	asc. node	7760 Jul 21 01:56	2° Ω 56'58	
superior conj	7759 Aug 08 11:10	22°Ω03'18	0°42'25		55(0 X 1 . 00 . 15 . 10	60 00 7100	0016140
minimum elong	7759 Aug 08 09:24	21° Q 53'33	0°42'00	superior conj	7760 Jul 22 17:19	6° Ω 27'00	0°16'40
	7759 Aug 12 02:01	0° m/y		minimum elong	7760 Jul 22 16:31	6° Ω 22'40	0°16'24
evening rise	7759 Aug 15 06:48	6° Mp 56'34		evening rise	7760 Jul 29 18:25	21° Ω 37'25	
4 1	7759 Aug 27 06:11	0° Ω			7760 Aug 02 19:29	0° Mp	22940146
desc. node	7759 Sep 08 04:26	16° £ 11'57	24920142	evening max el	7760 Aug 21 00:29	27° mp 47'13	22-49-46
evening max el	7759 Sep 09 12:49	17° Ω 32'52	24°28'43	daga mada	7760 Aug 23 12:08	1₀ ∵ 10,0€	
retrograde	7759 Sep 23 07:51	24° £ 28'34		desc. node	7760 Aug 25 01:30	1° £ 10'06	
evening set	7759 Sep 28 11:21	23° Ω 29'47	0.56572 411	retrograde	7760 Sep 03 06:04	4° £ 23'44	
min. Earth dist.	7759 Oct 03 23:48	20° Ω 40'03	0.56572 AU	evening set	7760 Sep 06 21:14	3° £ 54'50	0.55220 411
inferior conj	7759 Oct 06 13:51	19° Ω 02'06		min. Earth dist.	7760 Sep 14 08:31		0.55230 AU
minimum elong	7759 Oct 06 15:18	18° Ω 59'47	3 31 00	inforior con:	7760 Sep 15 08:08	30°RM⊅	5015142
morning rise	7759 Oct 14 21:24	14° £ 59'17		inferior conj	7760 Sep 15 17:50	29° Mp 46'05	
direct	7759 Oct 17 12:28	14° ≏ 40'37		minimum elong	7760 Sep 15 11:57	29° m 54'32	3 143/

	7760 6 24 04 44	250 m. 57107		1 1	7761 4 11 22 24	120m. 50142	
morning rise	7760 Sep 24 04:44	25° m 57'07		desc. node	7761 Aug 11 22:34	13° m 50'43	
direct	7760 Sep 27 07:03	25° Tp 34'53		retrograde	7761 Aug 14 19:36	14° Mp 10'52	
	7760 Oct 07 13:56	0∘ ⊽		evening set	7761 Aug 17 04:45	13° m 57'42	
morning max el	7760 Oct 08 11:41	0° ≙ 48'46	20°52'36	inferior conj	7761 Aug 26 11:02	9° m 59'58	
asc. node	7760 Oct 17 01:29	11° ≏ 40'03		minimum elong	7761 Aug 26 01:35	10° Mp 13'15	4°03'00
	7760 Oct 26 22:56	0° M		min. Earth dist.	7761 Aug 26 17:37	9° m 50'43	0.54698 AU
morning set	7760 Oct 27 21:17	1° M 55'01		morning rise	7761 Sep 03 23:06	6° Mp 06′44	
				direct	7761 Sep 07 15:27	5° m 37'33	
superior conj	7760 Nov 04 06:56	17° M 18'16	1°38'48	morning max el	7761 Sep 20 07:56	11° m) 38'52	22°29'48
minimum elong	7760 Nov 04 08:11	17° M 24'43	1°38'49	asc. node	7761 Oct 03 22:28	0° ≙ 15′20	
max. Earth dist.	7760 Nov 09 03:00	27° ™ 00′56	1.35757 AU		7761 Oct 03 19:00	0∘ 亚	
	7760 Nov 10 15:55	0° ∡ ¹		morning set	7761 Oct 12 07:56	16° ≙ 44'27	
evening rise	7760 Nov 13 02:59	4° ∡ ³39'37			7761 Oct 18 12:57	0° M	
desc. node	7760 Nov 21 00:30	18° ∡ ³38'36					
	7760 Nov 28 02:32	5°0		superior conj	7761 Oct 19 09:35	1° ľľ 49'47	1°41'44
evening max el	7760 Dec 18 15:08	26° る 19'57	26°19'20	minimum elong	7761 Oct 19 09:31	1°M49'23	1°41'48
	7760 Dec 22 20:55	0° ≈		max. Earth dist.	7761 Oct 22 18:54	8°M55'59	1.34088 AU
retrograde	7760 Dec 31 10:14	3° ≈ 33'30		evening rise	7761 Oct 27 09:11	18° M ₊10'05	
evening set	7761 Jan 06 17:29	1°≈00'20			7761 Nov 02 17:18	0° ∡ ¹	
•	7761 Jan 07 20:34	30°Ŗ⋜		desc. node	7761 Nov 07 21:31	8° ∡ ′52'15	
min. Earth dist.	7761 Jan 10 21:35	26° る 39'39	0.66599 AU		7761 Nov 22 08:09	0°ರ	
inferior conj	7761 Jan 12 13:23	24° る 38'17	-0°09'34	evening max el	7761 Dec 01 04:07	9° る 55'59	27°06'20
minimum elong	7761 Jan 12 13:39	24° る 37'30	0°09'21	retrograde	7761 Dec 14 12:26	17° る 16'09	
transit middle	7761 Jan 12 13:39	24° る 37'30	0°09'21	evening set	7761 Dec 21 06:24	14° る 39'10	
transit begin	7761 Jan 12 11:18	24° ろ 44'40		min. Earth dist.	7761 Dec 25 04:38	10°る52'41	0.65276 AU
transit end	7761 Jan 12 15:59	24° පි 30'21		inferior conj	7761 Dec 27 08:08	8° る 28'05	
asc. node	7761 Jan 13 00:47	24° る 03'36		minimum elong	7761 Dec 27 10:15	8° る 22'06	1°11'01
morning rise	7761 Jan 18 10:33	18° る 52'38		asc. node	7761 Dec 30 21:50	4° る 47'06	1 11 01
direct	7761 Jan 21 11:52	17° る 59'53		morning rise	7762 Jan 02 15:24	2°る54'44	
morning max el	7761 Jan 28 02:59	21° る 35'26	18°35'56	direct	7762 Jan 05 07:47	2°る16'11	
morning max cr	7761 Feb 03 20:51	0°≈	16 33 30	morning max el	7762 Jan 11 18:23		18°03'51
desc. node	7761 Feb 16 23:53	0 ∞ 20°≈12'44		morning max ci	7762 Jan 28 07:10	0°≈	16 03 31
morning set	7761 Feb 17 22:51	20 ≈12 44 21°≈43'21		morning set	7762 Jan 29 21:37	0 ∞ 2°≈38'00	
morning set	7761 Feb 23 04:53	0°) €		desc. node	7762 Feb 03 20:51	2 ≈38 00 10°≈45'36	
	//01 Feb 23 04.33	$^{\circ}$ $^{\circ}$		desc. node	//02 Feb 03 20.31	10 243 30	
superior coni	7761 Mar 06 02:26	17°¥05'09	-1°44'08	superior coni	7762 Feb. 13, 00:56	26°2203'48	-1°04'52
superior conj	7761 Mar 06 02:26	17° 米 05'09		superior conj	7762 Feb 13 09:56	26°≈03'48	
minimum elong	7761 Mar 05 16:59	16° ∺ 28'10	1°43'16	superior conj minimum elong	7762 Feb 13 02:23	25° ≈ 33'57	
	7761 Mar 05 16:59 7761 Mar 05 19:02	16° ¥ 28'10 16° ¥ 36'12		minimum elong	7762 Feb 13 02:23 7762 Feb 15 21:51	25°≈33'57 0°¥	1°03'51
minimum elong max. Earth dist.	7761 Mar 05 16:59 7761 Mar 05 19:02 7761 Mar 14 07:42	16°¥28'10 16°¥36'12 0° Υ	1°43'16	minimum elong max. Earth dist.	7762 Feb 13 02:23 7762 Feb 15 21:51 7762 Feb 16 14:23	25°≈33'57 0°¥ 1°¥05'00	
minimum elong max. Earth dist.	7761 Mar 05 16:59 7761 Mar 05 19:02 7761 Mar 14 07:42 7761 Mar 21 17:24	16°¥28'10 16°¥36'12 0° ° 11° ° ¥44'41	1°43'16 1.45441 AU	minimum elong	7762 Feb 13 02:23 7762 Feb 15 21:51 7762 Feb 16 14:23 7762 Mar 01 14:39	25°≈33'57 0°¥ 1°¥05'00 21°¥19'31	1°03'51
minimum elong max. Earth dist.	7761 Mar 05 16:59 7761 Mar 05 19:02 7761 Mar 14 07:42 7761 Mar 21 17:24 7761 Mar 30 03:04	16° X 28'10 16° X 36'12 0° Υ 11° Υ 44'41 25° Υ 07'01	1°43'16	minimum elong max. Earth dist. evening rise	7762 Feb 13 02:23 7762 Feb 15 21:51 7762 Feb 16 14:23 7762 Mar 01 14:39 7762 Mar 07 05:38	25°≈33'57 0°₩ 1°₩05'00 21°₩19'31 0°Ψ	1°03'51 1.45332 AU
minimum elong max. Earth dist. evening rise greatest brilliancy	7761 Mar 05 16:59 7761 Mar 05 19:02 7761 Mar 14 07:42 7761 Mar 21 17:24 7761 Mar 30 03:04 7761 Apr 02 06:13	16° χ 28'10 16° χ 36'12 0° Υ 11° Υ 44'41 25° Υ 07'01 0° ႘	1°43'16 1.45441 AU	minimum elong max. Earth dist. evening rise greatest brilliancy	7762 Feb 13 02:23 7762 Feb 15 21:51 7762 Feb 16 14:23 7762 Mar 01 14:39 7762 Mar 07 05:38 7762 Mar 14 22:05	25°≈33'57 0°ℋ 1°ℋ05'00 21°ℋ19'31 0°Ƴ 11°Ƴ40'30	1°03'51 1.45332 AU -0.7m
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node	7761 Mar 05 16:59 7761 Mar 05 19:02 7761 Mar 14 07:42 7761 Mar 21 17:24 7761 Mar 30 03:04 7761 Apr 02 06:13 7761 Apr 10 23:47	16° X 28'10 16° X 36'12 0° Y 11° Y 44'41 25° Y 07'01 0° Z 12° Z 07'54	1°43'16 1.45441 AU -0.8m	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el	7762 Feb 13 02:23 7762 Feb 15 21:51 7762 Feb 16 14:23 7762 Mar 01 14:39 7762 Mar 07 05:38 7762 Mar 14 22:05 7762 Mar 26 16:25	25°≈33'57 0°₩ 1°₩05'00 21°₩19'31 0°Ψ 11°Ψ40'30 27°Ψ15'25	1°03'51 1.45332 AU
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el	7761 Mar 05 16:59 7761 Mar 05 19:02 7761 Mar 14 07:42 7761 Mar 21 17:24 7761 Mar 30 03:04 7761 Apr 02 06:13 7761 Apr 10 23:47 7761 Apr 12 09:41	16° ¥28'10 16° ¥36'12 0° Υ 11° Υ44'41 25° Υ07'01 0° ႘ 12° ႘07'54 13° ႘39'20	1°43'16 1.45441 AU	minimum elong max. Earth dist. evening rise greatest brilliancy	7762 Feb 13 02:23 7762 Feb 15 21:51 7762 Feb 16 14:23 7762 Mar 01 14:39 7762 Mar 07 05:38 7762 Mar 14 22:05 7762 Mar 26 16:25 7762 Mar 28 20:51	25°≈33'57 0°₩ 1°₩05'00 21°₩19'31 0°Ψ 11°Ψ'40'30 27°Ψ15'25 29°Ψ'14'54	1°03'51 1.45332 AU -0.7m
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde	7761 Mar 05 16:59 7761 Mar 05 19:02 7761 Mar 14 07:42 7761 Mar 21 17:24 7761 Mar 30 03:04 7761 Apr 02 06:13 7761 Apr 10 23:47 7761 Apr 12 09:41 7761 Apr 19 02:29	16° ¥28'10 16° ¥36'12 0° Υ 11° Υ44'41 25° Υ07'01 0° 8 12° 8 07'54 13° 8 39'20 17° 8 22'29	1°43'16 1.45441 AU -0.8m	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node	7762 Feb 13 02:23 7762 Feb 15 21:51 7762 Feb 16 14:23 7762 Mar 01 14:39 7762 Mar 07 05:38 7762 Mar 14 22:05 7762 Mar 26 16:25 7762 Mar 28 20:51 7762 Mar 29 21:30	25°≈33'57 0°₩ 1°₩05'00 21°₩19'31 0°Ψ 11°Ψ40'30 27°Ψ15'25 29°Ψ14'54 0°₩	1°03'51 1.45332 AU -0.7m
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set	7761 Mar 05 16:59 7761 Mar 05 19:02 7761 Mar 14 07:42 7761 Mar 21 17:24 7761 Mar 30 03:04 7761 Apr 02 06:13 7761 Apr 10 23:47 7761 Apr 12 09:41 7761 Apr 19 02:29 7761 Apr 22 09:55	16° χ28'10 16° χ36'12 0° Υ 11° Υ44'41 25° Υ07'01 0° ႘ 12° ႘07'54 13° ႘39'20 17° ႘22'29 16° ႘19'25	1°43'16 1.45441 AU -0.8m 18°49'40	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde	7762 Feb 13 02:23 7762 Feb 15 21:51 7762 Feb 16 14:23 7762 Mar 01 14:39 7762 Mar 07 05:38 7762 Mar 14 22:05 7762 Mar 26 16:25 7762 Mar 28 20:51 7762 Mar 29 21:30 7762 Apr 02 23:58	25°≈33'57 0°₩ 1°₩05'00 21°₩19'31 0°Ψ 11°Ψ40'30 27°Ψ15'25 29°Ψ14'54 0°℧ 1°℧26'52	1°03'51 1.45332 AU -0.7m
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj	7761 Mar 05 16:59 7761 Mar 05 19:02 7761 Mar 14 07:42 7761 Mar 21 17:24 7761 Mar 30 03:04 7761 Apr 02 06:13 7761 Apr 10 23:47 7761 Apr 12 09:41 7761 Apr 19 02:29 7761 Apr 22 09:55 7761 Apr 28 00:06	16° χ28'10 16° χ36'12 0° Υ 11° Υ44'41 25° Υ07'01 0° ႘ 12° ႘07'54 13° ႘39'20 17° ႘22'29 16° ႘19'25 10° ႘38'12	1°43'16 1.45441 AU -0.8m 18°49'40 3°24'55	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node	7762 Feb 13 02:23 7762 Feb 15 21:51 7762 Feb 16 14:23 7762 Mar 01 14:39 7762 Mar 07 05:38 7762 Mar 14 22:05 7762 Mar 26 16:25 7762 Mar 28 20:51 7762 Mar 29 21:30 7762 Apr 02 23:58 7762 Apr 06 15:25	25°≈33'57 0° ₩ 1° ₩ 05'00 21° ₩ 19'31 0° Ψ 11° Ψ 40'30 27° Ψ 15'25 29° Ψ 14'54 0° ℧ 1° ℧ 26'52 0° ℧ 09'16	1°03'51 1.45332 AU -0.7m
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong	7761 Mar 05 16:59 7761 Mar 05 19:02 7761 Mar 14 07:42 7761 Mar 21 17:24 7761 Mar 30 03:04 7761 Apr 02 06:13 7761 Apr 10 23:47 7761 Apr 12 09:41 7761 Apr 19 02:29 7761 Apr 22 09:55 7761 Apr 28 00:06 7761 Apr 28 00:12	16° \ 28'10 16° \ 36'12 0° \ Y 11° \ Y 44'41 25° \ Y 07'01 0° \ S 12° \ S 07'54 13° \ S 39'20 17° \ S 22'29 16° \ S 19'25 10° \ S 38'12 10° \ S 37'53	1°43'16 1.45441 AU -0.8m 18°49'40 3°24'55 3°24'51	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set	7762 Feb 13 02:23 7762 Feb 15 21:51 7762 Feb 16 14:23 7762 Mar 01 14:39 7762 Mar 07 05:38 7762 Mar 14 22:05 7762 Mar 26 16:25 7762 Mar 28 20:51 7762 Mar 29 21:30 7762 Apr 02 23:58 7762 Apr 06 15:25 7762 Apr 06 20:30	25°≈33'57 0° ₩ 1° ₩05'00 21° ₩19'31 0° Ψ 11° Ψ40'30 27° Ψ15'25 29° Ψ14'54 0° ₩ 1° ₩26'52 0° ₩09'16 30° ₹ Ψ	1°03'51 1.45332 AU -0.7m 19°37'16
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minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin	7761 Mar 05 16:59 7761 Mar 05 19:02 7761 Mar 14 07:42 7761 Mar 21 17:24 7761 Mar 30 03:04 7761 Apr 02 06:13 7761 Apr 10 23:47 7761 Apr 12 09:41 7761 Apr 19 02:29 7761 Apr 22 09:55 7761 Apr 28 00:06 7761 Apr 28 00:12 7761 Apr 29 18:52 7761 May 03 13:56 7761 May 10 01:39 7761 May 15 23:27 7761 Jun 08 09:50 7761 Jun 26 09:05 7761 Jun 28 01:32 7761 Jul 06 17:32 7761 Jul 06 17:32 7761 Jul 06 18:13 7761 Jul 06 14:31	16° \(28'10\) 16° \(36'12\) 0° \(\gamma\) 11° \(\gamma 44'41\) 25° \(\gamma 07'54\) 12° \(\gamma 07'54\) 13° \(\gamma 39'20\) 17° \(\gamma 22'29\) 16° \(\gamma 19'25\) 10° \(\gamma 38'12\) 10° \(\gamma 37'53\) 8° \(\gamma 25'07\) 4° \(\gamma 20'57\) 1° \(\gamma 33'33\) 3° \(\gamma 25'06\) 9° \(\gamma 21'15\) 0° \(\gamma 3° \gamma 10'30\) 11° \(\gamma 25'55\) 20° \(\gamma 28'59\) 20° \(\gamma 32'32\) 20° \(\gamma 31'20\)	1°43'16 1.45441 AU -0.8m 18°49'40 3°24'55 3°24'51 0.65696 AU 26°46'14 1.34254 AU -0°12'24	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	7762 Feb 13 02:23 7762 Feb 15 21:51 7762 Feb 16 14:23 7762 Mar 01 14:39 7762 Mar 07 05:38 7762 Mar 14 22:05 7762 Mar 26 16:25 7762 Mar 28 20:51 7762 Apr 02 23:58 7762 Apr 06 20:30 7762 Apr 12 01:05 7762 Apr 12 00:01 7762 Apr 13 04:56 7762 Apr 17 08:18 7762 Apr 23 09:34 7762 May 02 20:27 7762 May 05 15:03 7762 May 12 03:52 7762 May 12 03:52 7762 May 12 03:52 7762 May 12 03:52 7762 Jun 01 17:04 7762 Jun 10 18:13 7762 Jun 14 11:05 7762 Jun 18 08:13	25°≈33'57 0° ₭ 1° ₭05'00 21° ₭19'31 0° Ŷ 11° Ŷ40'30 27° Ŷ15'25 29° Ŷ14'54 0° ₭ 1° ₺26'52 0° ₺09'16 30° ₭Ŷ 24° Ŷ13'19 24° Ŷ16'50 22° Ŷ41'02 17° Ŷ55'56 15° Ŷ14'09 19° Ŷ56'08 22° Ŷ33'41 0° ₺ 0° Ⅱ 15° Ⅲ39'20 22° Ⅲ31'06 0° ₺	1°03'51 1.45332 AU -0.7m 19°37'16 3°19'34 3°19'26 0.67010 AU 25°32'41 1.36030 AU
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	7761 Mar 05 16:59 7761 Mar 05 19:02 7761 Mar 14 07:42 7761 Mar 21 17:24 7761 Mar 30 03:04 7761 Apr 02 06:13 7761 Apr 10 23:47 7761 Apr 12 09:41 7761 Apr 19 02:29 7761 Apr 28 00:06 7761 Apr 28 00:12 7761 Apr 28 00:12 7761 Apr 29 18:52 7761 May 03 13:56 7761 May 10 01:39 7761 May 15 23:27 7761 May 23 05:17 7761 Jun 08 09:50 7761 Jun 28 01:32 7761 Jun 28 01:32 7761 Jul 06 17:32 7761 Jul 06 17:32 7761 Jul 06 17:32 7761 Jul 06 14:31 7761 Jul 06 12:54	16° \(\) 28'10 16° \(\) 36'12 0° \(\) 11° \(\) 44'41 25° \(\) 07'54 13° \(\) 39'20 17° \(\) 22'29 16° \(\) 19'25 10° \(\) 38'12 10° \(\) 37'53 8° \(\) 25'07 4° \(\) 20'57 1° \(\) 33'33 3° \(\) 25'06 9° \(\) 21'15 0° \(\) 1 0° \(\) 3° \(\) 10'30 11° \(\) 25'55 20° \(\) 28'59 20° \(\) 23'32 20° \(\) 31'320 20° \(\) 51'46	1°43'16 1.45441 AU -0.8m 18°49'40 3°24'55 3°24'51 0.65696 AU 26°46'14 1.34254 AU -0°12'24	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	7762 Feb 13 02:23 7762 Feb 15 21:51 7762 Feb 16 14:23 7762 Mar 01 14:39 7762 Mar 07 05:38 7762 Mar 14 22:05 7762 Mar 26 16:25 7762 Mar 28 20:51 7762 Apr 02 23:58 7762 Apr 06 15:25 7762 Apr 06 20:30 7762 Apr 12 01:05 7762 Apr 12 00:01 7762 Apr 13 04:56 7762 Apr 14 08:18 7762 Apr 15 09:34 7762 Apr 17 08:18 7762 Apr 23 09:34 7762 May 02 20:27 7762 May 05 15:03 7762 Jun 01 17:04 7762 Jun 10 18:13 7762 Jun 10 18:13 7762 Jun 18 08:13	25°≈33'57 0°	1°03'51 1.45332 AU -0.7m 19°37'16 3°19'34 3°19'26 0.67010 AU 25°32'41 1.36030 AU -0°43'33
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin	7761 Mar 05 16:59 7761 Mar 05 19:02 7761 Mar 14 07:42 7761 Mar 21 17:24 7761 Mar 30 03:04 7761 Apr 02 06:13 7761 Apr 10 23:47 7761 Apr 12 09:41 7761 Apr 19 02:29 7761 Apr 22 09:55 7761 Apr 28 00:06 7761 Apr 28 00:12 7761 Apr 29 18:52 7761 May 03 13:56 7761 May 10 01:39 7761 May 15 23:27 7761 Jun 08 09:50 7761 Jun 26 09:05 7761 Jun 28 01:32 7761 Jul 06 17:32 7761 Jul 06 17:32 7761 Jul 06 18:13 7761 Jul 06 14:31	16° \(\) 28'10 16° \(\) 36'12 0° \(\) 11° \(\) 44'41 25° \(\) 07'54 13° \(\) 39'20 17° \(\) 22'29 16° \(\) 19'25 10° \(\) 38'12 10° \(\) 37'53 8° \(\) 22'507 4° \(\) 20'57 1° \(\) 33'33 3° \(\) 25'06 9° \(\) 21'15 0° \(\) 1 0° \(\) 3° \(\) 11° \(\) 25'55 20° \(\) 28'59 20° \(\) 32'32 20° \(\) 31'20 20° \(\) 51'46 23° \(\) 902'34	1°43'16 1.45441 AU -0.8m 18°49'40 3°24'55 3°24'51 0.65696 AU 26°46'14 1.34254 AU -0°12'24	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	7762 Feb 13 02:23 7762 Feb 15 21:51 7762 Feb 16 14:23 7762 Mar 01 14:39 7762 Mar 07 05:38 7762 Mar 14 22:05 7762 Mar 26 16:25 7762 Mar 28 20:51 7762 Apr 02 23:58 7762 Apr 06 20:30 7762 Apr 12 01:05 7762 Apr 12 00:01 7762 Apr 13 04:56 7762 Apr 17 08:18 7762 Apr 23 09:34 7762 May 02 20:27 7762 May 05 15:03 7762 May 12 03:52 7762 May 12 03:52 7762 May 12 03:52 7762 May 12 03:52 7762 Jun 01 17:04 7762 Jun 10 18:13 7762 Jun 14 11:05 7762 Jun 18 08:13	25°≈33'57 0°	1°03'51 1.45332 AU -0.7m 19°37'16 3°19'34 3°19'26 0.67010 AU 25°32'41 1.36030 AU -0°43'33
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end	7761 Mar 05 16:59 7761 Mar 05 19:02 7761 Mar 14 07:42 7761 Mar 21 17:24 7761 Mar 30 03:04 7761 Apr 02 06:13 7761 Apr 10 23:47 7761 Apr 12 09:41 7761 Apr 19 02:29 7761 Apr 28 00:06 7761 Apr 28 00:12 7761 Apr 28 00:12 7761 Apr 29 18:52 7761 May 03 13:56 7761 May 10 01:39 7761 May 15 23:27 7761 May 23 05:17 7761 Jun 08 09:50 7761 Jun 28 01:32 7761 Jun 28 01:32 7761 Jul 06 17:32 7761 Jul 06 17:32 7761 Jul 06 17:32 7761 Jul 06 14:31 7761 Jul 06 12:54	16° \text{\te}\text{\tex	1°43'16 1.45441 AU -0.8m 18°49'40 3°24'55 3°24'51 0.65696 AU 26°46'14 1.34254 AU -0°12'24	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	7762 Feb 13 02:23 7762 Feb 15 21:51 7762 Feb 16 14:23 7762 Mar 01 14:39 7762 Mar 07 05:38 7762 Mar 14 22:05 7762 Mar 26 16:25 7762 Mar 28 20:51 7762 Apr 02 23:58 7762 Apr 06 15:25 7762 Apr 12 01:05 7762 Apr 12 00:01 7762 Apr 13 04:56 7762 Apr 17 08:18 7762 Apr 18 09:34 7762 Apr 23 09:34 7762 May 02 20:27 7762 May 05 15:03 7762 May 12 03:52 7762 Jun 10 18:13 7762 Jun 10 18:13 7762 Jun 10 18:13 7762 Jun 10 09:05 7762 Jun 20 09:05 7762 Jun 20 11:40 7762 Jun 20 11:40 7762 Jun 20 11:40 7762 Jun 20 11:40	25°≈33'57 0° ₭ 1° ₭05'00 21° ₭19'31 0° ℉ 11° ℉40'30 27° ℉15'25 29° ℉14'54 0° ₭ 1° ₭26'52 0° ₭09'16 30° ₭ ℉ 24° ℉13'19 24° ℉16'50 22° ℉41'02 17° ℉56'08 22° ℉33'41 0° ₭ 0° Ⅲ 15° Ⅲ39'20 22° Ⅲ31'06 0° ☞ 4° ©02'07 4° ©15'02 13° ©03'41	1°03'51 1.45332 AU -0.7m 19°37'16 3°19'34 3°19'26 0.67010 AU 25°32'41 1.36030 AU -0°43'33
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end	7761 Mar 05 16:59 7761 Mar 05 19:02 7761 Mar 14 07:42 7761 Mar 21 17:24 7761 Mar 30 03:04 7761 Apr 02 06:13 7761 Apr 10 23:47 7761 Apr 12 09:41 7761 Apr 19 02:29 7761 Apr 28 00:06 7761 Apr 28 00:06 7761 Apr 29 18:52 7761 Apr 29 18:52 7761 May 03 13:56 7761 May 10 01:39 7761 May 15 23:27 7761 Jun 08 09:50 7761 Jun 08 09:50 7761 Jun 28 01:32 7761 Jul 06 17:32 7761 Jul 06 18:13 7761 Jul 06 18:13 7761 Jul 06 12:54 7761 Jul 07 22:57	16° \(\) 28'10 16° \(\) 36'12 0° \(\) 11° \(\) 44'41 25° \(\) 07'54 13° \(\) 39'20 17° \(\) 22'29 16° \(\) 19'25 10° \(\) 38'12 10° \(\) 37'53 8° \(\) 22'507 4° \(\) 20'57 1° \(\) 33'33 3° \(\) 25'06 9° \(\) 21'15 0° \(\) 1 0° \(\) 3° \(\) 11° \(\) 25'55 20° \(\) 28'59 20° \(\) 32'32 20° \(\) 31'20 20° \(\) 51'46 23° \(\) 902'34	1°43'16 1.45441 AU -0.8m 18°49'40 3°24'55 3°24'51 0.65696 AU 26°46'14 1.34254 AU -0°12'24	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	7762 Feb 13 02:23 7762 Feb 15 21:51 7762 Feb 16 14:23 7762 Mar 01 14:39 7762 Mar 07 05:38 7762 Mar 14 22:05 7762 Mar 26 16:25 7762 Mar 28 20:51 7762 Apr 02 23:58 7762 Apr 06 15:25 7762 Apr 12 01:05 7762 Apr 12 00:01 7762 Apr 13 04:56 7762 Apr 17 08:18 7762 Apr 18 18 7762 Apr 19 09:03 7762 Apr 19 09:04 7762 Mar 29 11:05 7762 Apr 19 00:01 7762 May 05 15:03 7762 May 19 03:52 7762 Jun 10 18:13 7762 Jun 10 18:13 7762 Jun 10 09:05 7762 Jun 20 09:05 7762 Jun 20 11:40	25°≈33'57 0° ₭ 1° ₭05'00 21° ₭19'31 0° ℉ 11° ℉40'30 27° ℉15'25 29° ℉14'54 0° ₭ 1° ₭26'52 0° ₭09'16 30° ₭ ℉ 24° ℉13'19 24° ℉16'50 22° ℉41'02 17° ℉55'56 15° ℉14'09 19° ℉56'08 22° ℉33'41 0° ₭ 0° Ⅲ 15° Ⅲ39'20 22° Ⅲ31'06 0° ₺	1°03'51 1.45332 AU -0.7m 19°37'16 3°19'34 3°19'26 0.67010 AU 25°32'41 1.36030 AU -0°43'33
minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node	7761 Mar 05 16:59 7761 Mar 05 19:02 7761 Mar 14 07:42 7761 Mar 21 17:24 7761 Mar 30 03:04 7761 Apr 02 06:13 7761 Apr 10 23:47 7761 Apr 12 09:41 7761 Apr 19 02:29 7761 Apr 28 00:06 7761 Apr 28 00:06 7761 Apr 28 00:12 7761 Apr 29 18:52 7761 May 03 13:56 7761 May 10 01:39 7761 May 15 23:27 7761 Jun 08 09:50 7761 Jun 08 09:50 7761 Jun 28 01:32 7761 Jul 06 17:32 7761 Jul 06 18:13 7761 Jul 06 18:13 7761 Jul 06 21:54 7761 Jul 07 22:57 7761 Jul 07 22:57 7761 Jul 07 22:57	16° \text{\te}\text{\tex	1°43'16 1.45441 AU -0.8m 18°49'40 3°24'55 3°24'51 0.65696 AU 26°46'14 1.34254 AU -0°12'24 0°12'23	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	7762 Feb 13 02:23 7762 Feb 15 21:51 7762 Feb 16 14:23 7762 Mar 01 14:39 7762 Mar 07 05:38 7762 Mar 14 22:05 7762 Mar 26 16:25 7762 Mar 28 20:51 7762 Apr 02 23:58 7762 Apr 06 15:25 7762 Apr 12 01:05 7762 Apr 12 00:01 7762 Apr 13 04:56 7762 Apr 17 08:18 7762 Apr 18 09:34 7762 Apr 23 09:34 7762 May 02 20:27 7762 May 05 15:03 7762 May 12 03:52 7762 Jun 10 18:13 7762 Jun 10 18:13 7762 Jun 10 18:13 7762 Jun 10 09:05 7762 Jun 20 09:05 7762 Jun 20 11:40 7762 Jun 20 11:40 7762 Jun 20 11:40 7762 Jun 20 11:40	25°≈33'57 0° ₭ 1° ₭05'00 21° ₭19'31 0° ℉ 11° ℉40'30 27° ℉15'25 29° ℉14'54 0° ₭ 1° ₭26'52 0° ₭09'16 30° ₭ ℉ 24° ℉13'19 24° ℉16'50 22° ℉41'02 17° ℉56'08 22° ℉33'41 0° ₭ 0° Ⅲ 15° Ⅲ39'20 22° Ⅲ31'06 0° ☞ 4° ©02'07 4° ©15'02 13° ©03'41	1°03'51 1.45332 AU -0.7m 19°37'16 3°19'34 3°19'26 0.67010 AU 25°32'41 1.36030 AU -0°43'33

		0				0	
retrograde	7762 Jul 26 10:05	24° Ω 23'01			7763 Jun 27 19:53	0 ° Ω	
evening set	7762 Jul 28 07:14	24° Ω 13'39		evening max el	7763 Jun 28 21:07	1° Ω 05'38	19°00'47
desc. node	7762 Jul 29 19:38	23° Ω 53'14		retrograde	7763 Jul 07 14:04	5° Ω 23'36	
inferior conj	7762 Aug 06 07:28	20° Ω 13'51		evening set	7763 Jul 09 12:57	5° Ω 11'29	
minimum elong	7762 Aug 06 01:13	20° Ω 23'17		desc. node	7763 Jul 16 16:42	1° Ω 43'32	
min. Earth dist.	7762 Aug 08 04:56		0.55134 AU	inferior conj	7763 Jul 17 19:56	0° Ω 56'46	
morning rise	7762 Aug 14 17:30	15° Ω 56′08		minimum elong	7763 Jul 17 19:04	0° Ω 58'16	0°20'25
direct	7762 Aug 19 03:58	15° Ω 13′05			7763 Jul 19 04:29	30° ₹ ∽	
morning max el	7762 Sep 01 21:17	21° Ω 58'45	24°15'22	min. Earth dist.	7763 Jul 20 19:32	28° © 53'10	0.56454 AU
	7762 Sep 08 22:09	O° m y		morning rise	7763 Jul 25 22:00	26° © 03'17	
asc. node	7762 Sep 20 19:26	19° m 22'30		direct	7763 Jul 31 05:06	24° © 57'14	
	7762 Sep 26 01:46	0∘ ⊽			7763 Aug 11 21:19	0 $^{\circ}\Omega$	
morning set	7762 Sep 26 19:39	1° ≏ 34'41		morning max el	7763 Aug 14 10:42	2° Ω 16′35	25°53'46
					7763 Sep 03 01:34	0° m ∕	
superior conj	7762 Oct 03 17:24	16° ≏ 34'16	1°38'15	asc. node	7763 Sep 07 16:25	8° m 53'26	
minimum elong	7762 Oct 03 16:13	16° ≏ 27'51	1°38'13	morning set	7763 Sep 11 06:50	16°Mp21'21	
max. Earth dist.	7762 Oct 05 19:12	21° ≙ 03'50	1.32848 AU		7763 Sep 17 12:47	0∘ ত	
	7762 Oct 10 01:01	0°M					
evening rise	7762 Oct 11 02:35	2°M10'27		superior conj	7763 Sep 18 04:10	1° ≏ 25′04	1°29'02
desc. node	7762 Oct 25 18:34	28°M43'04		minimum elong	7763 Sep 18 02:15	1° ≏ 14'26	1°28'50
	7762 Oct 26 14:02	0° ∡ ¹		max. Earth dist.	7763 Sep 19 02:12	ვ° ჲ 26'32	1.32060 AU
evening max el	7762 Nov 13 15:55	23° √ 11'11	27°28'07	evening rise	7763 Sep 25 04:06	16° ≙ 32'20	
5	7762 Nov 24 01:55	0°る		8 21	7763 Oct 01 23:14	0°M₊	
retrograde	7762 Nov 27 08:08	0° る 29'37		desc. node	7763 Oct 12 15:37	18° ™ 01'48	
roundgrade	7762 Nov 30 11:13	30°R. ✓		dose. Hode	7763 Oct 21 12:21	0° ₹	
evening set	7762 Dec 04 09:14	27° ∡ 56'51		evening max el	7763 Oct 27 00:14	5° х 52′18	27°18'44
min. Earth dist.	7762 Dec 08 02:56	24° × 42'03	0.63623 AU	retrograde	7763 Nov 09 20:18	13°×704'54	27 10 44
inferior conj	7762 Dec 10 17:43	22°×702'47		evening set	7763 Nov 16 22:35	10° × 46'15	
minimum elong	7762 Dec 10 17:43	21° x 51'47		min. Earth dist.	7763 Nov 20 14:48	7° х 40 13	0.61704 AU
•	7762 Dec 17 12:40	16° × 44'38	2 1/31		7763 Nov 23 15:06	5° ∡ 14'34	
morning rise		16° ₹ 38'58		inferior conj			3°25'50
asc. node	7762 Dec 17 18:51			minimum elong	7763 Nov 23 21:28	0° ₹ 15'04	3 23 30
direct	7762 Dec 19 22:27	16° ₹ 16'20	17940100	morning rise	7763 Nov 30 22:29		
morning max el	7762 Dec 26 11:38	19° ∡ 740′15	17°49'00	1.	7763 Dec 01 22:52	30°RM.	
	7763 Jan 03 04:04	0°る		direct	7763 Dec 03 04:33	29°M53'22	
morning set	7763 Jan 11 23:19	14° ප 51'03			7763 Dec 04 09:58	0° ₹	
1 1	7763 Jan 20 21:08	0°≈		asc. node	7763 Dec 04 15:52	0° ₹ 02'56	17050116
desc. node	7763 Jan 21 17:49	1° ≈ 26′07		morning max el	7763 Dec 10 03:37	3° ∡ °24'35	17°52'16
				morning set	7763 Dec 25 21:25	28° ∡ '02'09	
superior conj	7763 Jan 24 11:50	5°≈58'17			7763 Dec 26 23:29	0°る	
minimum elong	7763 Jan 24 09:40	5°≈49'26				_	
max. Earth dist.	7763 Jan 30 08:39	15° ≈ 26'41	1.44503 AU	superior conj	7764 Jan 05 15:25	17° る 07'04	0°21'43
	7763 Feb 08 16:04	0° ∀		minimum elong	7764 Jan 05 17:20	17° る 15'15	0°21'33
evening rise	7763 Feb 09 01:47	0°) 37′19		desc. node	7764 Jan 08 14:47	22° る 10'47	
	7763 Feb 28 22:27	0° Υ		max. Earth dist.	7764 Jan 12 23:43	29° る 26'04	1.43046 AU
evening max el	7763 Mar 09 17:51	10° Y 53′20	20°39'22		7764 Jan 13 08:02	0° ≈	
asc. node	7763 Mar 15 17:54	15° Ƴ 16'40		evening rise	7764 Jan 19 18:17	10° ≈ 16′13	
retrograde	7763 Mar 17 22:25	15° Ƴ 41'17			7764 Feb 01 19:25	0° ∀	
evening set	7763 Mar 21 23:00	14° Y ′08'37		evening max el	7764 Feb 20 13:56	24°) 32'44	21°52'22
inferior conj	7763 Mar 27 06:40	7° Ƴ 59'54	3°02'30		7764 Feb 29 06:27	0° Y	
minimum elong	7763 Mar 27 04:48	8° Ƴ 06'19	3°02'08	retrograde	7764 Feb 29 19:54	0° Ƴ 01'34	
min. Earth dist.	7763 Mar 27 20:42	7° Ƴ 11'41	0.67881 AU		7764 Mar 01 09:11	30° Ŗ ₩	
morning rise	7763 Apr 01 10:23	1° Y 44'47		asc. node	7764 Mar 01 14:58	29° ¥ 58'19	
	7763 Apr 03 22:39	30°Ŗ ℋ		evening set	7764 Mar 05 06:59	28° ∺ 13'34	
direct	7763 Apr 06 22:42	29°) (17′38		inferior conj	7764 Mar 10 14:42	21°) 54′40	2°35'27
	7763 Apr 10 04:15	0° Y		minimum elong	7764 Mar 10 12:27	22° ∺ 02'30	2°34'52
morning max el	7763 Apr 17 23:53	5° Y 54'06	24°06'09	min. Earth dist.	7764 Mar 10 16:02	21° ¥ 50′02	0.68317 AU
desc. node	7763 Apr 19 17:26	7° Y 43'21		morning rise	7764 Mar 15 17:45	15°) 43′12	
	7763 May 06 15:17	0° ႘		direct	7764 Mar 20 15:57	13°) € 36′23	
morning set	7763 May 23 14:51	27° 8 08'59		morning max el	7764 Mar 30 10:12	19°) €21'44	22°36'33
	7763 May 25 06:11	$\Pi^{\circ}0$		desc. node	7764 Apr 05 14:24	26°) €25'24	
max. Earth dist.	7763 May 27 07:47	3° Ⅱ 39'34	1.38153 AU		7764 Apr 08 09:02	0° Y	
	•				7764 Apr 28 19:32	0° ႘	
superior conj	7763 Jun 03 12:35	16° Ⅱ 57'50	-1°14'51	morning set	7764 May 03 09:52	7° 8 24'56	
minimum elong	7763 Jun 03 17:07	17° Ⅱ 19′25		max. Earth dist.	7764 May 08 04:45	15° 8 24'43	1.40399 AU
	7763 Jun 10 05:14	0ಂಣ			,		-
asc. node	7763 Jun 11 16:58	2°\$56'20		superior conj	7764 May 15 23:43	29° 8 05'00	-1°43'13
evening rise	7763 Jun 12 10:06	4°\$20'47		minimum elong	7764 May 16 05:23	29° 8 30'42	
<i>5</i>		,			,	-	

evening rise asc. node	7764 May 16 11:51 7764 May 26 00:07 7764 May 28 14:00	0° Ц 17° Ц 44'11 22° Ц 35'22		evening rise asc. node	7765 May 08 18:26 7765 May 09 00:31 7765 May 15 11:04	0° Ц 0° Ц 27'23 11° Ц 55'58	
evening max el	7764 Jun 01 15:34 7764 Jun 11 02:08	0°ഇ 13° ഇ 31'51	18°23'51	evening max el retrograde	7765 May 25 12:59 7765 Jun 01 05:58	26°Ⅲ27'20 29°Ⅲ52'26	18°06'52
retrograde	7764 Jun 18 13:17	17° © 15'32		evening set	7765 Jun 03 18:52	29° Ⅲ 23'17	
evening set	7764 Jun 20 18:47	16° 9 56'28		inferior conj	7765 Jun 10 12:22	24° Ⅱ 28'10	2°21'53
inferior conj	7764 Jun 28 05:51	12° © 21'33	1°14'54	minimum elong	7765 Jun 10 15:28	24° Ⅱ 20'49	2°20'57
minimum elong	7764 Jun 28 08:16	12° © 16'37	1°13'57	min. Earth dist.	7765 Jun 13 18:23	21° Ⅱ 24'51	0.60615 AU
min. Earth dist.	7764 Jul 01 15:15	9° © 36'59	0.58392 AU	morning rise	7765 Jun 17 09:31	18° Ⅱ 34'15	
desc. node	7764 Jul 02 13:46	8°954'38		desc. node	7765 Jun 19 10:49	17° Ⅱ 26'46	
morning rise	7764 Jul 05 18:28	6°953'11		direct	7765 Jun 23 23:36	16° Ⅱ 26'08	27040124
direct	7764 Jul 11 20:05	5°916'41	27000155	morning max el	7765 Jul 08 07:08	24° II 23'49	27°49'24
morning max el	7764 Jul 26 05:28 7764 Aug 08 16:09	12° © 59'31 0° Ω	27°08'55		7765 Jul 13 09:11	$0 {\circ} \Omega$	
asc. node	7764 Aug 08 16.09	28° Ω 40'40		morning set	7765 Aug 02 00:11 7765 Aug 09 20:49	15° Ω 22'09	
asc. node	7764 Aug 25 04:36	0° M)		asc. node	7765 Aug 11 10:24	13° 02 2209	
morning set	7764 Aug 25 15:49	0° mp 58'57		max. Earth dist.	7765 Aug 15 22:09	28° Ω 20'43	1.31813 AU
superior conj	7764 Sep 01 15:59	•	1°14'38	man Barar dige.	7765 Aug 16 16:12	0° mp	1.51015110
minimum elong	7764 Sep 01 13:44	16° Mp 03'00	1°14'16	superior conj	7765 Aug 17 03:04	0° m 59'53	0°55'28
max. Earth dist.	7764 Sep 01 12:29	15° m 56'00	1.31712 AU	minimum elong	7765 Aug 17 00:58	0° m 48'18	0°55'01
	7764 Sep 07 22:25	0∘ ⊽		evening rise	7765 Aug 23 21:22	15° m)49'10	
evening rise	7764 Sep 08 11:05	1° ≏ 07'26		C	7765 Aug 30 21:04	0∘ ⊽	
	7764 Sep 24 00:58	0°M		desc. node	7765 Sep 15 09:47	24° ≏ 05'56	
desc. node	7764 Sep 28 12:42	6°M35'29		evening max el	7765 Sep 19 19:58	28° ≏ 50'30	25°21'28
evening max el	7764 Oct 08 02:10	17° M 46'59	26°35'33		7765 Sep 21 02:16	0°M₊	
retrograde	7764 Oct 22 00:01	24°M54'05		retrograde	7765 Oct 03 17:47	5°M52'31	
evening set	7764 Oct 28 18:10	23°M00'15		evening set	7765 Oct 09 15:06	4°M32'43	
min. Earth dist.	7764 Nov 01 15:47	20°M25'03	0.59627 AU	min. Earth dist.	7765 Oct 14 07:47		0.57595 AU
inferior conj	7764 Nov 04 20:48	17°M54'02		inferior conj	7765 Oct 17 07:30	29° £ 51'28	
minimum elong	7764 Nov 05 03:54	17°M40'04	4°29'53	minimum elong	7765 Oct 17 12:14	29° £ 43'22	5°17'59
morning rise direct	7764 Nov 12 15:56 7764 Nov 14 21:52	13°M16'31 12°M58'16		marnina risa	7765 Oct 17 02:32 7765 Oct 25 11:42	30° ₹ Ω 25° Ω 37'02	
asc. node	7764 Nov 20 12:54	14°M59'32		morning rise direct	7765 Oct 27 21:51	25° £ 19'27	
morning max el	7764 Nov 20 12:54 7764 Nov 22 14:59	16°M45'33	18°14'59	morning max el	7765 Nov 05 18:05	29° ⊆ 32'45	18°58'45
	7764 Dec 01 23:12	0° ∡ 7	10 110)	morning must er	7765 Nov 06 05:13	0°M	10 00 10
morning set	7764 Dec 08 10:00	11° ≯ 53'33		asc. node	7765 Nov 07 09:56	1°M16'26	
				morning set	7765 Nov 22 08:29	26°M11'40	
superior conj	7764 Dec 17 19:02	29° х 24'51	0°54'59		7765 Nov 24 06:42	0° ∡ ¹	
minimum elong	7764 Dec 17 22:28	29° ∡ 740′27	0°54'38				
	7764 Dec 18 02:47	0° ප		superior conj	7765 Nov 30 17:34	12° ∡ ³36'35	1°18'51
desc. node	7764 Dec 25 11:48	12° ろ 56'15		minimum elong	7765 Nov 30 20:45	12° ∡ 51'45	1°18'37
max. Earth dist.	7764 Dec 25 09:56	12°る48'20	1.41126 AU	max. Earth dist.	7765 Dec 07 15:49	25° ∡ ¹26'07	1.38982 AU
evening rise	7764 Dec 30 04:13	20° ⋜ 43'54			7765 Dec 10 05:58	0°る	
	7765 Jan 04 23:50 7765 Jan 26 01:10	0° ≈ 0° ∀		evening rise desc. node	7765 Dec 11 12:09 7765 Dec 12 08:48	2°る10'20 3°る38'29	
evening max el	7765 Feb 02 05:47	8° 升 14'42	23°11'32	desc. node	7765 Dec 12 08.48	0°≈	
retrograde	7765 Feb 12 15:06	14°)(23'49	23 1132	evening max el	7766 Jan 15 19:15	0 ~ 21° ≈ 59'30	24°30'57
asc. node	7765 Feb 16 12:03	13°) (09'10		retrograde	7766 Jan 27 06:41	28°≈42'21	21 3037
evening set	7765 Feb 17 13:48	12°) €20'48		evening set	7766 Feb 01 17:53	26°≈25'36	
inferior conj	7765 Feb 22 23:16	5°) 55′01	1°59'31	asc. node	7766 Feb 03 09:09	24° ≈ 50'18	
minimum elong	7765 Feb 22 21:04	6°) €02'35	1°58'51	min. Earth dist.	7766 Feb 06 08:40	21° ≈ 10′07	0.67954 AU
min. Earth dist.	7765 Feb 22 12:46	6°) €31'12	0.68333 AU	inferior conj	7766 Feb 07 06:30	19° ≈ 57'10	1°15'23
	7765 Feb 27 22:44	30° R ≈		minimum elong	7766 Feb 07 04:51	20° ≈ 02'43	1°14'50
morning rise	7765 Feb 28 04:17	29° ≈ 48′29		morning rise	7766 Feb 12 15:57	13° ≈ 57′00	
direct	7765 Mar 04 12:26	28° ≈ 04'11		direct	7766 Feb 16 10:56	12° ≈ 34'42	
	7765 Mar 09 13:57	0°)		morning max el	7766 Feb 24 00:33	16°≈50'19	19°59'45
morning max el	7765 Mar 13 01:39	3° ₩ 00'17	21°12'27	1 1	7766 Mar 06 11:06	0° \ 50 \ (27142	
desc. node	7765 Mar 23 11:22	15° 米 47′20 0° Υ		desc. node	7766 Mar 10 08:19	5° 升 37'42	
morning sat	7765 Apr 13 01:32	0°'γ' 16° Υ 26'24		morning set	7766 Mar 22 23:38 7766 Mar 26 09:09	24°) 44' 17 0° °	
morning set max. Earth dist.	7765 Apr 13 01:32 7765 Apr 20 07:25	16°°γ′26′24 28° Υ 03'43	1.42480 AU	max. Earth dist.	7766 Mar 26 09:09 7766 Apr 02 16:55	0°'γ' 11° Υ 31'49	1.44131 AU
max. Earm Wist.	7765 Apr 21 11:44	0° 8	1.72700 AU	man. Darui uist.	7700 Apr 02 10.33	11 13149	1.771 <i>J</i> 1 AU
	7,00 11pi 21 11.77	v O		superior conj	7766 Apr 08 03:15	20° Ƴ 17'07	-2°11'27
superior conj	7765 Apr 27 13:48	10° 8 13'41	-2°04'03	minimum elong	7766 Apr 08 02:45	20°Υ15'06	
minimum elong	7765 Apr 27 18:18	10° 8 32'57		8	7766 Apr 14 00:20	0°8	
Ţ.	-				-		

evening rise	7766 Apr 21 06:34	12° 8 19'41		minimum elong	7767 Mar 18 10:40	28°) 55′03	1°59'28
Č	7766 May 01 18:56	0° I I		Č	7767 Mar 19 03:08	$_{0}$ ° γ	
asc. node	7766 May 02 08:09	0° Ⅱ 51'31		evening rise	7767 Apr 02 14:10	23° Ƴ 13'46	
evening max el	7766 May 09 02:13	9° Ⅱ 43′20	18°09'09	C	7767 Apr 06 17:31	9° 8	
retrograde	7766 May 15 11:47	13° Ⅱ 04'44		asc. node	7767 Apr 19 05:13	19° 8 13'29	
evening set	7766 May 18 07:53	12° Ⅲ 23'22		evening max el	7767 Apr 22 14:46	23° 8 11'39	18°29'52
inferior conj	7766 May 24 11:45	7° Ⅱ 09'20	3°02'24	retrograde	7767 Apr 29 02:22	26° 8 42'58	
minimum elong	7766 May 24 14:00	7° Ⅱ 03'17	3°01'56	evening set	7767 May 02 05:38	25° 8 47'57	
min. Earth dist.	7766 May 27 06:24	4° Ⅱ 11'17	0.62811 AU	inferior conj	7767 May 07 23:49	20° 8 16'21	3°21'37
morning rise	7766 May 30 18:33	1° Ⅱ 00'43		minimum elong	7767 May 08 00:42	20° 8 13'43	3°21'29
C	7766 Jun 01 06:43	30° ₹ 8		min. Earth dist.	7767 May 10 03:33	17° 8 43'05	0.64756 AU
desc. node	7766 Jun 06 07:51	28° 8 27'59		morning rise	7767 May 13 18:56	14° 8 00'58	
direct	7766 Jun 06 13:19	28° 8 27'49		direct	7767 May 20 11:02	11° 8 15'11	
	7766 Jun 12 05:39	$\Pi^{\circ}0$		desc. node	7767 May 24 04:51	12° 8 00'01	
morning max el	7766 Jun 20 14:08	6° Ⅱ 30'44	27°51'37	morning max el	7767 Jun 02 23:53	19° 8 11'41	27°18'30
C	7766 Jul 08 10:34	0ം ഉ		, and the second	7767 Jun 12 03:47	0° I I	
morning set	7766 Jul 24 19:43	29° © 25'02			7767 Jul 01 10:34	0°€	
C	7766 Jul 25 02:38	$0^{\circ}\Omega$		morning set	7767 Jul 08 09:43	12° © 58'58	
asc. node	7766 Jul 29 07:25	8° Ω 43'25		max. Earth dist.	7767 Jul 13 00:17	22°©12'44	1.33433 AU
max. Earth dist.	7766 Jul 30 03:20	10°Ω29'33	1.32379 AU	asc. node	7767 Jul 16 04:24	28°\$49'36	
superior conj	7766 Aug 01 11:36	15° Ω 33'08	0°31'58	superior conj	7767 Jul 16 15:29	29° 5 48'16	0°04'43
minimum elong	7766 Aug 01 10:10	15° Ω 25'21	0°31'35	minimum elong	7767 Jul 16 15:15	29°5647'00	0°04'33
evening rise	7766 Aug 08 09:02	0° Mp 32′04		behind sun begin	7767 Jul 16 09:55	29° © 18'48	
	7766 Aug 08 03:03	0° m		behind sun end	7767 Jul 16 20:35	0° Ω 15'14	
	7766 Aug 24 14:10	0∘ ट			7767 Jul 16 17:42	$0^{\circ}\Omega$	
evening max el	7766 Sep 01 08:04	9° ≏ 15'26	23°47'08	evening rise	7767 Jul 23 20:08	15° Ω 09'30	
desc. node	7766 Sep 02 06:53	10° ≙ 08'49			7767 Jul 31 06:28	0°Щ	
retrograde	7766 Sep 14 23:32	16° £ 05'34		evening max el	7767 Aug 13 21:38	19° m 30'35	22°08'34
evening set	7766 Sep 19 11:37	15° £ 21'07		desc. node	7767 Aug 20 03:58	24° m 12'10	
min. Earth dist.	7766 Sep 25 18:26		0.55907 AU	retrograde	7767 Aug 26 16:50	25° m 52'20	
inferior conj	7766 Sep 27 22:00	11° ≏ 01'57		evening set	7767 Aug 29 17:25	25° m/32'03	
minimum elong	7766 Sep 27 20:21	11° ≏ 04'26	5°31'08	min. Earth dist.	7767 Sep 07 03:02	21° m 53'29	0.54890 AU
morning rise	7766 Oct 06 07:17	7° Ω 06'27		inferior conj	7767 Sep 07 19:56	21° m/29'46	
direct	7766 Oct 09 02:30	6° £ 46'42	20004145	minimum elong	7767 Sep 07 11:40		4°50'50
morning max el	7766 Oct 19 09:38	11° £ 36'31	20°04'45	morning rise	7767 Sep 16 07:29	17° mp 41'21	
asc. node	7766 Oct 25 06:56	18° ≏ 38'16		direct	7767 Sep 19 15:38	17° Mp 16'30	21022105
	7766 Nov 01 02:06	0°M		morning max el	7767 Oct 01 12:07	22° m 50'37	21°32'05
morning set	7766 Nov 06 13:37	10°M47'32		asc. node	7767 Oct 07 16:30 7767 Oct 12 03:55	0° 亞 6° 亞 49'44	
superior conj	7766 Nov 14 06:06	26°M28'16	1922140	morning set	7767 Oct 12 03:33	0 2 4944 25° 2 33'04	
	7766 Nov 14 08:09		1°33'49 1°33'46	morning set	7767 Oct 24 01:39	23 = 33 04 0° M	
minimum elong	7766 Nov 16 00:40	20 IIL3631 0° √	1 33 40		//0/ Oct 24 01.39	U IIL	
max. Earth dist.	7766 Nov 19 21:53	7° ∡ ¹30'53	1.36872 AU	superior conj	7767 Oct 29 04:29	10° M 47'09	1°40'52
evening rise	7766 Nov 23 17:02	14°×732'48	1.30072 AC	minimum elong	7767 Oct 29 05:10	10°M50'40	1°40'56
desc. node	7766 Nov 29 05:50	24° 🖈 13'46		max. Earth dist.	7767 Nov 02 09:26	19°M24'02	1.35003 AU
dese. Hode	7766 Dec 02 17:28	0°중		evening rise	7767 Nov 02 05:20	27°M40'42	1.55005 AC
	7766 Dec 23 23:45	0°≈		Croming rise	7767 Nov 00 13:04 7767 Nov 07 20:36	27 11 0 40 42	
evening max el	7766 Dec 29 08:19	5°≈46'37	25°43'32	desc. node	7767 Nov 16 02:53	14° × ⁷ 36'41	
retrograde	7767 Jan 10 17:36	12°≈52'06			7767 Nov 26 00:35	0° ਰ	
evening set	7767 Jan 16 17:35	10°≈24'05		evening max el	7767 Dec 11 21:38	19° る 29'39	26°42'02
min. Earth dist.	7767 Jan 21 01:26	5°≈43'06	0.67202 AU	retrograde	7767 Dec 24 22:58	26° පි 46'27	
asc. node	7767 Jan 21 06:13	5°≈28'02		evening set	7767 Dec 31 11:02	24° ට 11'11	
inferior conj	7767 Jan 22 10:32	3° ≈ 58'03	0°23'34	min. Earth dist.	7768 Jan 04 12:40	20°る05'00	0.66082 AU
minimum elong	7767 Jan 22 09:56	3°≈59'57	0°23'26	inferior conj	7768 Jan 06 09:20	17° る 53'12	
Č	7767 Jan 25 19:43	30°R₹		minimum elong	7768 Jan 06 10:19	17° る 50'17	0°34'45
morning rise	7767 Jan 28 02:46	28° පි 06'11		asc. node	7768 Jan 08 03:15	15° る 52'29	
direct	7767 Jan 31 10:04	27° ප 03'31		morning rise	7768 Jan 12 10:31	12° る 12'11	
	7767 Feb 06 09:53	0° ≈		direct	7768 Jan 15 07:52	11° る 25'48	
morning max el	7767 Feb 07 07:10	0° ≈ 50'18	19°01'46	morning max el	7768 Jan 21 20:03	14° る 55'29	18°20'09
greatest brilliancy	7767 Feb 21 06:30	19° ≈ 45'12	-0.8m	-	7768 Feb 01 21:37	0° ≈	
desc. node	7767 Feb 25 05:16	25° ≈ 48'55		morning set	7768 Feb 10 09:16	13° ≈ 31'18	
	7767 Feb 27 22:09	0° ∀		desc. node	7768 Feb 12 02:14	16° ≈ 15′18	
morning set	7767 Mar 02 03:37	3° ∺ 27'32			7768 Feb 20 17:49	0° ∀	
max. Earth dist.	7767 Mar 16 08:30	25°) 37′35	1.45173 AU				
				superior conj	7768 Feb 25 22:27	8° ₩ 09'54	
superior conj	7767 Mar 18 17:59	29° ∺ 23'54	-1°59'55	minimum elong	7768 Feb 25 13:01	7°) €32'53	1°27'51

7769 Jan 24 19:38

0°≈

superior conj	7770 Jan 16 00:53	27° る 54'22	-0°01'26	morning set	7770 Dec 18 12:19	21° ₹ 11'38	
minimum elong	7770 Jan 16 00:44	27°る53'47	0°01'18		7770 Dec 23 07:13	0°ප	
behind sun begin	7770 Jan 15 15:36	27° る 15'36					
behind sun end	7770 Jan 16 09:52	28° ප 31'54		superior conj	7770 Dec 28 15:09	9° ප 33'37	0°36'56
	7770 Jan 17 07:05	0° ≈		minimum elong	7770 Dec 28 17:59	9° ප 46'06	0°36'38
max. Earth dist.	7770 Jan 22 16:45	8° ≈ 49'00	1.43945 AU	desc. node	7771 Jan 02 17:11	18° පි 20'08	
evening rise	7770 Jan 31 01:32	21° ≈ 59'24		max. Earth dist.	7771 Jan 05 05:11	22° る 31'22	1.42268 AU
•	7770 Feb 05 07:18	0° ∀			7771 Jan 09 19:12	0° ≈	
	7770 Feb 26 13:24	$_0$ ° $\boldsymbol{\gamma}$		evening rise	7771 Jan 11 00:19	1°≈56'17	
evening max el	7770 Mar 02 03:44	4° Υ 01'34	21°09'12	Č	7771 Jan 29 18:22	0°) €	
asc. node	7770 Mar 09 20:24	9° Y ′02'39		evening max el	7771 Feb 12 21:49	17°) (41'49	22°25'40
retrograde	7770 Mar 10 18:52	9° Y 07'10		retrograde	7771 Feb 22 15:37	23°) (28'34	
evening set	7770 Mar 14 23:41	7° Y 28′02		asc. node	7771 Feb 24 17:29	23°) (06'34	
inferior conj	7770 Mar 20 07:08	1° Υ 14'22	2°52'11	evening set	7771 Feb 27 07:22	21°) (34'20	
minimum elong	7770 Mar 20 05:03	1° Υ 21'35	2°51'43	inferior conj	7771 Mar 04 15:39	15°) 12'05	2°21'16
min. Earth dist.	7770 Mar 20 05:03	0° Υ 44'57	0.68118 AU	minimum elong	7771 Mar 04 13:39	15° X 12'03	
iiiii. Eartii tiist.	7770 Mar 21 04:38	0 1 44 37 30° ₹	0.08118 AU	min. Earth dist.		15° X 20'02	0.68371 AU
					7771 Mar 04 11:57		0.083/1 AU
morning rise	7770 Mar 25 10:13	25°) € 00'24		morning rise	7771 Mar 09 19:12	9°) €02'18	
direct	7770 Mar 30 16:28	22°) (41'32	22025145	direct	7771 Mar 14 11:23	7°) (04'46	21050120
morning max el	7770 Apr 10 04:51	28° ¥ 57′20	23°27'47	morning max el	7771 Mar 23 16:51	12°) € 28'52	21°59'38
	7770 Apr 11 05:05	$0^{\circ}\Upsilon$		desc. node	7771 Mar 31 16:46	21° ∺ 55′11	
desc. node	7770 Apr 13 19:48	2° Y 54'33			7771 Apr 06 14:43	$0^{\circ}\mathbf{\Upsilon}$	
	7770 May 03 10:57	$_{0\circ}$ 8		morning set	7771 Apr 25 13:54	28° Ƴ 43'59	
morning set	7770 May 15 06:41	19° 8 00'14			7771 Apr 26 08:45	$_{0\circ}$ 8	
max. Earth dist.	7770 May 19 06:57	25° 8 53'39	1.39111 AU	max. Earth dist.	7771 May 01 05:24	7° 8 59'19	1.41320 AU
	7770 May 21 14:45	Π $^{\circ}0$					
				superior conj	7771 May 08 23:10	21° 8 17'17	-1°53'18
superior conj	7770 May 26 20:18	9° Ⅲ 32'52	-1°27'30	minimum elong	7771 May 09 04:44	21° 8 41'55	1°52'55
minimum elong	7770 May 27 01:30	9° Ⅱ 57'05	1°26'53		7771 May 13 19:37	$\Pi^{\circ}0$	
evening rise	7770 Jun 05 04:27	27° Ⅲ 26′28		evening rise	7771 May 19 13:15	10° Ⅲ 34′27	
asc. node	7770 Jun 05 19:28	28° Ⅱ 39'06		asc. node	7771 May 23 16:31	18° Ⅱ 11′23	
	7770 Jun 06 12:14	0ංම			7771 May 30 16:34	0°ಅ	
evening max el	7770 Jun 21 09:10	23° © 37'49	18°42'33	evening max el	7771 Jun 04 17:17	6°€18'55	18°14'16
retrograde	7770 Jun 29 12:14	27°\$39'20		retrograde	7771 Jun 11 19:10	9° © 52'23	
evening set	7770 Jul 01 13:30	27°924'51		evening set	7771 Jun 14 03:54	9° 5 29'18	
inferior conj	7770 Jul 09 12:00	23°902'05	0°23'13	inferior conj	7771 Jun 21 07:06	4°945'57	1°46'45
minimum elong	7770 Jul 09 12:53	23°900'27	0°22'46	minimum elong	7771 Jun 21 10:04	4°939'29	1°45'43
desc. node	7770 Jul 10 19:08	22°903'52	0 22 10	min. Earth dist.	7771 Jun 24 16:33	1°950'18	0.59327 AU
min. Earth dist.	7770 Jul 10 17:49		0.57219 AU	iiiii. Lartii dist.	7771 Jun 27 02:41	30°RⅡ	0.57527 AC
morning rise	7770 Jul 17 08:45	17°952'35	0.57217 AC	desc. node	7771 Jun 27 02:41	29° I I37'35	
direct	7770 Jul 23 00:15	16°933'58		morning rise	7771 Jun 28 13:12	29° I I05'36	
morning max el			26920129	•	7771 Jul 04 21:17	29 H 03 30 27° H 14'58	
morning max er	7770 Aug 06 08:34	24°905'32	20 29 28	direct		27 п 1438	
	7770 Aug 11 17:47	0° N			7771 Jul 13 01:13		27020120
1	7770 Aug 30 11:49	0° m/)		morning max el	7771 Jul 19 06:07	5° © 05'06	27-30-39
asc. node	7770 Sep 01 18:52	4° m/ 35'58			7771 Aug 06 16:58	0°N	
morning set	7770 Sep 04 08:13	9° m 55'44		morning set	7771 Aug 19 15:45	24° Ω 28'10	
				asc. node	7771 Aug 19 15:52	24° Ω 28'49	
superior conj	7770 Sep 11 06:22	25° Mp 03'46			7771 Aug 22 06:05	0° m	
minimum elong	7770 Sep 11 04:15	24° m 52'03		max. Earth dist.	7771 Aug 26 03:42	8° m 33'04	1.31700 AU
max. Earth dist.	7770 Sep 11 17:17		1.31847 AU				
	7770 Sep 13 11:59	0 ∘ ⊽		superior conj	7771 Aug 26 18:07	9° ™ 52'54	1°07'04
evening rise	7770 Sep 18 03:41	10° £ 02'37		minimum elong	7771 Aug 26 15:53	9° Mp 40′27	1°06'39
	7770 Sep 28 10:52	0°M₊		evening rise	7771 Sep 02 12:22	24° m 41'55	
desc. node	7770 Oct 06 18:04	13°M21'26			7771 Sep 05 01:02	0∘ ত	
evening max el	7770 Oct 19 02:34	28°M21'42	27°04'36		7771 Sep 22 11:52	0° M	
	7770 Oct 20 22:25	0° ∡ ¹		desc. node	7771 Sep 23 15:09	1°M30'51	
retrograde	7770 Nov 02 00:02	5° ∡ ³32'46		evening max el	7771 Oct 01 01:18	9°M55'14	26°07'27
evening set	7770 Nov 09 00:01	3° ∡ 23′18		retrograde	7771 Oct 14 23:42	16°M59'54	
min. Earth dist.	7770 Nov 12 17:15	0° ∡ 741'47	0.60820 AU	evening set	7771 Oct 21 10:27	15°M20'09	
	7770 Nov 13 13:20	30°RM		min. Earth dist.	7771 Oct 25 14:20	12°M45'23	0.58742 AU
inferior conj	7770 Nov 15 20:26	28°ML01'55	-3°56'18	inferior conj	7771 Oct 28 18:25	10°M24'44	-4°54'37
minimum elong	7770 Nov 16 03:22	27° M 47'07		minimum elong	7771 Oct 29 00:59	10°ML12'31	4°53'15
morning rise	7770 Nov 23 09:03	23°M11'33		morning rise	7771 Nov 05 17:48	5°M56'41	
direct	7770 Nov 25 14:23	22°M51'50		direct	7771 Nov 08 00:54	5°M39'03	
asc. node	7770 Nov 28 18:21	23°M33'37		asc. node	7771 Nov 15 15:23	9° M 05'47	
morning max el	7770 Dec 02 20:20	26°M29'08	17°59'29	morning max el	7771 Nov 16 04:32		18°30'51
	7770 Dec 05 21:35	0°×7	-: -/ - /		7771 Nov 10 04:32	0° x 7	
	200 00 21.00	- ··				~ *·	

morning set	7771 Dec 02 05:34	5° ⊀ 15'32			7772 Nov 20 10:24	0° ∡ 7	
superior conj	7771 Dec 11 03:22	22° ∡ 15'23	1°06'15	superior conj	7772 Nov 23 08:24	5° ∡ 745'40	1°26'14
minimum elong	7771 Dec 11 05:22	22° × ⁷ 31'34	1°05'55	minimum elong	7772 Nov 23 11:09	5° × ¹ 59'07	1°26'05
g	7771 Dec 15 09:18	0°ਰ	1 00 00	max. Earth dist.	7772 Nov 29 19:03	17° ₹ '58'01	1.38068 AU
max. Earth dist.	7771 Dec 18 13:14	5° ਰ 34'18	1.40231 AU	evening rise	7772 Dec 03 12:37	24° ₹ ³39'31	
desc. node	7771 Dec 20 14:12	9° ට 04'28		desc. node	7772 Dec 06 11:13	29° √ 44'19	
evening rise	7771 Dec 22 19:27	12° る 48'32			7772 Dec 06 14:55	8°0	
C	7772 Jan 02 15:30	0° ≈			7772 Dec 26 07:57	0° ≈	
	7772 Jan 25 03:24	0° ∀		evening max el	7773 Jan 08 01:45	15°≈11'50	25°03'08
evening max el	7772 Jan 26 12:35	1° ∺ 25'20	23°45'49	retrograde	7773 Jan 19 22:47	22°≈05'10	
retrograde	7772 Feb 06 09:16	7°) 49′19		evening set	7773 Jan 25 15:35	19° ≈ 43′05	
evening set	7772 Feb 11 13:11	5°) 40′27		asc. node	7773 Jan 28 11:38	16° ≈ 47'02	
asc. node	7772 Feb 11 14:35	5° 升 37′29		min. Earth dist.	7773 Jan 30 03:18	14° ≈ 42'31	0.67680 AU
	7772 Feb 16 10:09	30° R ≈		inferior conj	7773 Jan 31 05:56	13° ≈ 15′17	0°54'19
inferior conj	7772 Feb 16 23:51	29° ≈ 13'15	1°41'46	minimum elong	7773 Jan 31 04:40	13° ≈ 19′28	0°53'55
minimum elong	7772 Feb 16 21:50	29° ≈ 20′10	1°41'08	morning rise	7773 Feb 05 18:00	7°≈18'38	
min. Earth dist.	7772 Feb 16 08:35	0° ₩ 05'20	0.68220 AU	direct	7773 Feb 09 07:54	6°≈05'00	
morning rise	7772 Feb 22 06:27	23° ≈ 09'12		morning max el	7773 Feb 16 13:26	10° ≈ 06′28	19°33'16
direct	7772 Feb 26 08:58	21° ≈ 34'13		greatest brilliancy	7773 Mar 01 08:25	26° ≈ 53'08	-0.7m
morning max el	7772 Mar 05 11:07	26°≈11′23	20°39'52		7773 Mar 03 10:37	0° ∀	
	7772 Mar 08 22:02	0° ∀		desc. node	7773 Mar 04 10:40	1°) (30′19	
desc. node	7772 Mar 17 13:44	11°) € 30'07		morning set	7773 Mar 13 17:23	15°) (40′09	
	7772 Mar 30 01:37	0° Υ		F 4 F	7773 Mar 22 22:37	0°Υ 4° Ω 5010.4	
morning set	7772 Apr 03 19:52	7° Υ 19'49	1 42240 444	max. Earth dist.	7773 Mar 26 00:14	4° Ƴ 50'04	1.44658 AU
max. Earth dist.	7772 Apr 12 11:16	21° Y 01'28	1.43249 AU		7772 M 20 06 02	1.10002.512.0	2000105
	7772 Apr 17 22:36	0° 8		superior conj	7773 Mar 30 06:03	11° Υ 35'39 11° Υ 21'36	
aumorior aoni	7772 Amr. 10, 02:04	1° 8 58'51	2000112	minimum elong	7773 Mar 30 02:33	0° 8	2-09-00
superior conj minimum elong	7772 Apr 19 03:04 7772 Apr 19 05:56	2° 8 10'50		evening rise	7773 Apr 10 11:52 7773 Apr 13 03:21	4° 8 25'45	
evening rise	7772 Apr 19 05.36 7772 May 01 06:24	22° 8 57'10	2 09 12	asc. node	7773 Apr 26 10:39	26° 8 04'46	
evening rise	7772 May 05 06:22	0°II		asc. node	7773 Apr 29 07:53	0°II	
asc. node	7772 May 09 00:22	7° Ⅱ 22'15		evening max el	7773 May 01 18:50	2° ∏ 46'32	18°15'40
evening max el	7772 May 18 05:37	19° Ⅱ 24'34	18°05'31	retrograde	7773 May 08 04:12	6° Ⅱ 10'46	10 13 10
retrograde	7772 May 24 18:00	22° I I46'06	10 03 31	evening set	7773 May 11 03:19	5° ∏ 23'40	
evening set	7772 May 27 10:07	22° I I1'47		inferior conj	7773 May 17 02:35	0° Д 01'40	3°12'51
inferior conj	7772 Jun 02 21:18	17° Ⅱ 08'16	2°41'59	minimum elong	7773 May 17 04:16	29° 8 56'54	3°12'32
minimum elong	7772 Jun 03 00:09	17° Ⅱ 01'07	2°41'14		7773 May 17 03:10	30° ₹ 8	
min. Earth dist.	7772 Jun 05 23:05	14° Ⅱ 04'46	0.61574 AU	min. Earth dist.	7773 May 19 14:57	27° 8 12'27	0.63679 AU
morning rise	7772 Jun 09 12:08	11° Ⅱ 07'13		morning rise	7773 May 23 04:01	23° 8 49'16	
desc. node	7772 Jun 13 13:13	9° Ⅱ 09'18		direct	7773 May 29 22:17	21° 8 09'42	
direct	7772 Jun 16 05:14	8° Ⅱ 47'36		desc. node	7773 May 31 10:14	21° 8 16'50	
morning max el	7772 Jun 30 10:11	16° Ⅱ 47'40	27°54'57	morning max el	7773 Jun 12 18:54	29° 8 11'09	27°41'33
	7772 Jul 11 07:53	0 \circ \odot			7773 Jun 13 14:00	Π °0	
	7772 Jul 29 09:11	$0^{\circ}\Omega$			7773 Jul 05 05:40	0 \circ	
morning set	7772 Aug 02 18:25	8° Ω 43′22		morning set	7773 Jul 17 13:54	22° © 35'04	
asc. node	7772 Aug 05 12:53	14° Ω 30'11			7773 Jul 21 05:20	$0^{\circ}\Omega$	
max. Earth dist.	7772 Aug 08 12:05	20° Ω 53'05	1.32006 AU	max. Earth dist.	7773 Jul 22 14:24		1.32776 AU
	7772 4 10 04 20	240 02211	004701	asc. node	7773 Jul 23 09:52	4° Ω 35'58	
superior conj	7772 Aug 10 04:20	24° Ω 33'11	0°46'01	·	7772 1.1 25 11 00	00 0 50110	0020140
minimum elong	7772 Aug 10 02:27	24° Ω 22'52	0°45'34	superior conj	7773 Jul 25 11:08 7773 Jul 25 10:09	8° Ω 59'18 8° Ω 53'58	0°20'49 0°20'30
avanina riaa	7772 Aug 12 15:44	0°M)		minimum elong		24°Ω06'26	0-20-30
evening rise	7772 Aug 16 23:29 7772 Aug 27 11:41	9° ™ 25'05 0° ≏		evening rise	7773 Aug 01 11:09 7773 Aug 04 06:43	0° m	
desc. node	7772 Sep 09 12:14	0 ≗ 18° £ 27'20			7773 Aug 04 06.43 7773 Aug 23 05:29	0∘ ⊽ ० ार्ष	
evening max el	7772 Sep 09 12:14 7772 Sep 11 16:13	20° £ 39'55	24°42'50	evening max el	7773 Aug 23 03:29 7773 Aug 24 03:35	0° ⊆ 55'23	23°04'31
retrograde	7772 Sep 11 10:13	27° ⊆ 37'22	24 42 30	desc. node	7773 Aug 27 09:19	3° ≏ 43'24	25 0451
evening set	7772 Sep 23 12:03 7772 Sep 30 20:39	26° £ 33'10		retrograde	7773 Sep 06 12:17	7° £ 36'19	
min. Earth dist.	7772 Oct 06 03:19	23° £ 46'53	0.56823 AU	evening set	7773 Sep 00 12.17 7773 Sep 10 08:47	7° ⊆ 03'48	
inferior conj	7772 Oct 08 20:24	22° ⊆ 02'13		min. Earth dist.	7773 Sep 17 03:47		0.55378 AU
minimum elong	7772 Oct 08 22:50	21° ♀ 58'17		inferior conj	7773 Sep 17 12:22	2° £ 52'28	
morning rise	7772 Oct 17 03:14	17° £ 56'39		minimum elong	7773 Sep 18 22:02	2° ₽ 59'29	
direct	7772 Oct 19 16:56	17° ≏ 38'19		3	7773 Sep 24 15:14	30°R Mp	
morning max el	7772 Oct 29 02:55	22° ≏ 05'37	19°24'06	morning rise	7773 Sep 27 13:26	29° m 02'25	
asc. node	7772 Nov 01 12:23	25° ≙ 51'52		direct	7773 Sep 30 13:45	28° m 40'58	
	7772 Nov 04 11:31	0°M₊			7773 Oct 06 03:43	0∘ ত	
morning set	7772 Nov 15 07:13	19° M 42'22		morning max el	7773 Oct 11 12:54	3° ≏ 48'24	20°39'38

evening set	7777 Jun 23 18:07	19°5548'24		inferior conj	7778 Jun 13 11:46	27° Ⅱ 17'47	
inferior conj	7777 Jul 01 08:06	15° © 16'36	1°02'12	minimum elong	7778 Jun 13 14:54	27° Ⅱ 10'32	2°12'31
minimum elong	7777 Jul 01 10:12	15° © 12'24	1°01'21	min. Earth dist.	7778 Jun 16 19:01	24° Ⅱ 15'32	0.60279 AU
min. Earth dist.	7777 Jul 04 16:59	12° © 36'42	0.58075 AU	morning rise	7778 Jun 20 11:12	21° Ⅱ 26′56	
desc. node	7777 Jul 04 21:32	12° 5 28'10		desc. node	7778 Jun 21 18:34	20° Ⅱ 42′28	
morning rise	7777 Jul 08 22:53	9° © 52'42		direct	7778 Jun 26 24:00	19° Ⅲ 23′03	
direct	7777 Jul 14 21:58	8° 5 21'01		morning max el	7778 Jul 11 08:04	27° Ⅱ 19'24	27°45'48
morning max el	7777 Jul 29 07:27	16° © 01'22	26°59'52		7778 Jul 13 21:23	0°©	
Ü	7777 Aug 09 17:02	$0^{\circ}\Omega$			7778 Aug 03 09:04	$0^{\circ}\Omega$	
asc. node	7777 Aug 26 21:24	0° m) 22'20		morning set	7778 Aug 12 14:50	17° Ω 55'09	
asc. node	7777 Aug 26 17:04	0° m)		•	7778 Aug 12 14:30 7778 Aug 13 18:22	20° Ω 19'20	
. ,	•			asc. node	· ·		
morning set	7777 Aug 28 09:09	3° Mp 29'20			7778 Aug 18 06:00	0° m/y	
				max. Earth dist.	7778 Aug 18 18:49	1° Mp 10'30	1.31763 AU
superior conj	7777 Sep 04 08:40	18° m) 43'15	1°17'09				
minimum elong	7777 Sep 04 06:27	18° m 30'53	1°16'48	superior conj	7778 Aug 19 19:57	3° m)29'11	0°58'41
max. Earth dist.	7777 Sep 04 08:56	18° m 44'43	1.31727 AU	minimum elong	7778 Aug 19 17:48	3° m)17'17	0°58'14
	7777 Sep 09 11:44	0∘ ऌ		evening rise	7778 Aug 26 14:06	18° m 17'54	
evening rise	7777 Sep 11 04:12	ვ° ჲ 36'38			7778 Sep 01 07:00	0∘ ⊽	
S	7777 Sep 25 04:54	0° M ,		desc. node	7778 Sep 17 17:36	26° ≙ 14'00	
desc. node	7777 Sep 30 20:31	8°M32'28		dese. node	7778 Sep 21 01:00	0° M	
evening max el	7777 Oct 11 03:54	20°M44'07	26°44'10	evening max el	7778 Sep 22 22:54	1°M55'09	25°34'14
•			20 44 10	•			23 34 14
retrograde	7777 Oct 25 01:41	27°M52'29		retrograde	7778 Oct 06 21:13	8°M58'16	
evening set	7777 Oct 31 21:47	25° M 54′08		evening set	7778 Oct 12 22:21	7° ጤ 33'11	
min. Earth dist.	7777 Nov 04 17:49	23°M17'57	0.59936 AU	min. Earth dist.	7778 Oct 17 11:05	4° M 55'51	0.57879 AU
inferior conj	7777 Nov 07 22:42	20° M ₊43'58	-4°22'52	inferior conj	7778 Oct 20 12:22	2°M48'16	-5°13'18
minimum elong	7777 Nov 08 05:51	20°M29'36	4°20'55	minimum elong	7778 Oct 20 17:44	2°M38'53	5°12'29
morning rise	7777 Nov 15 16:15	16°ML03'12			7778 Oct 24 21:41	30° ₽ Ω	
direct	7777 Nov 17 21:51	15° M 44'42		morning rise	7778 Oct 28 15:29	28° ₽ 30′23	
asc. node	7777 Nov 22 20:51	17° M 20'58		direct	7778 Oct 31 00:35	28° ≏ 12'56	
morning max el	7777 Nov 25 11:48	19°M29'00	18°10'18		7778 Nov 05 17:05	0°M	
morning max cr	7777 Dec 03 05:30	0° ⊼ ¹	10 10 10	marning may al	7778 Nov 08 16:21	2°M22'00	18°50'48
. ,				morning max el			10 30 40
morning set	7777 Dec 11 05:25	14° ∡ °28′17		asc. node	7778 Nov 09 17:52	3°M26'41	
	7777 Dec 19 13:37	0°₹		morning set	7778 Nov 25 02:40	28°M43'11	
					7778 Nov 25 18:19	0° ∡ ¹	
superior conj	7777 Dec 20 18:46	2° る 11'55	0°50'32		7778 Nov 25 18:19	0° ∡ ¹	
superior conj minimum elong	7777 Dec 20 18:46 7777 Dec 20 22:07	2° ට 11'55 2°ට26'57	0°50'32 0°50'10	superior conj	7778 Nov 25 18:19 7778 Dec 03 14:48	0° ҂ ¹ 15° ҂ ¹16'32	1°15'48
				superior conj minimum elong			1°15'48 1°15'33
minimum elong desc. node	7777 Dec 20 22:07	2° ප් 26'57 14° ප් 29'55		minimum elong	7778 Dec 03 14:48 7778 Dec 03 18:05	15° ⊀ 16'32 15° ≮ 32'09	1°15'33
minimum elong desc. node max. Earth dist.	7777 Dec 20 22:07 7777 Dec 27 19:36 7777 Dec 28 10:19	2° ප් 26'57 14° ප් 29'55 15° ප් 32'11	0°50'10	1 3	7778 Dec 03 14:48 7778 Dec 03 18:05 7778 Dec 10 16:28	15° ₹ 16'32 15° ₹ 32'09 28° ₹ 15'46	
minimum elong desc. node	7777 Dec 20 22:07 7777 Dec 27 19:36 7777 Dec 28 10:19 7778 Jan 02 10:06	2°ੳ26'57 14°ੳ29'55 15°♂32'11 23°♂47'11	0°50'10	minimum elong max. Earth dist.	7778 Dec 03 14:48 7778 Dec 03 18:05 7778 Dec 10 16:28 7778 Dec 11 16:07	15° 🖈 16'32 15° 🖈 32'09 28° 🖈 15'46 0° 云	1°15'33
minimum elong desc. node max. Earth dist.	7777 Dec 20 22:07 7777 Dec 27 19:36 7777 Dec 28 10:19 7778 Jan 02 10:06 7778 Jan 06 07:34	2°♂26'57 14°♂29'55 15°♂32'11 23°♂47'11 0°≈	0°50'10	minimum elong max. Earth dist.	7778 Dec 03 14:48 7778 Dec 03 18:05 7778 Dec 10 16:28 7778 Dec 11 16:07 7778 Dec 14 14:45	15° 🖈 16'32 15° 🖈 32'09 28° 🖈 15'46 0° さ 5° さの5'10	1°15'33
minimum elong desc. node max. Earth dist. evening rise	7777 Dec 20 22:07 7777 Dec 27 19:36 7777 Dec 28 10:19 7778 Jan 02 10:06 7778 Jan 06 07:34 7778 Jan 26 23:58	2°₹26'57 14°₹29'55 15°₹32'11 23°₹47'11 0°≈ 0°¥	0°50'10 1.41432 AU	minimum elong max. Earth dist.	7778 Dec 03 14:48 7778 Dec 03 18:05 7778 Dec 10 16:28 7778 Dec 11 16:07 7778 Dec 14 14:45 7778 Dec 14 16:37	15° 🖈 16'32 15° 🖈 32'09 28° 🖈 15'46 0° 云 5° 云 05'10 5° 云 13'06	1°15'33
minimum elong desc. node max. Earth dist. evening rise	7777 Dec 20 22:07 7777 Dec 27 19:36 7777 Dec 28 10:19 7778 Jan 02 10:06 7778 Jan 06 07:34 7778 Jan 26 23:58 7778 Feb 05 05:08	2°♂26'57 14°♂29'55 15°♂32'11 23°♂47'11 0°≈ 0°升 10°升52'13	0°50'10	minimum elong max. Earth dist. evening rise desc. node	7778 Dec 03 14:48 7778 Dec 03 18:05 7778 Dec 10 16:28 7778 Dec 11 16:07 7778 Dec 14 14:45 7778 Dec 14 16:37 7778 Dec 30 10:07	15° ₹16'32 15° ₹32'09 28° ₹15'46 0° ₹ 5° ₹05'10 5° ₹13'06 0° ≈	1°15'33 1.39308 AU
minimum elong desc. node max. Earth dist. evening rise	7777 Dec 20 22:07 7777 Dec 27 19:36 7777 Dec 28 10:19 7778 Jan 02 10:06 7778 Jan 06 07:34 7778 Jan 26 23:58 7778 Feb 05 05:08 7778 Feb 15 10:32	2°♂26'57 14°♂29'55 15°♂32'11 23°♂47'11 0°≈ 0°¥ 10°¥52'13 16°¥55'57	0°50'10 1.41432 AU	minimum elong max. Earth dist.	7778 Dec 03 14:48 7778 Dec 03 18:05 7778 Dec 10 16:28 7778 Dec 11 16:07 7778 Dec 14 14:45 7778 Dec 14 16:37 7778 Dec 30 10:07 7779 Jan 18 18:52	15° 🖈 16'32 15° 🖈 32'09 28° 🖈 15'46 0° で 5° で 05'10 5° で 13'06 0° ※ 24° ※ 36'56	1°15'33 1.39308 AU
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	7777 Dec 20 22:07 7777 Dec 27 19:36 7777 Dec 28 10:19 7778 Jan 02 10:06 7778 Jan 06 07:34 7778 Jan 26 23:58 7778 Feb 05 05:08	2°♂26'57 14°♂29'55 15°♂32'11 23°♂47'11 0°≈ 0°¥ 10°¥52'13 16°¥55'57 15°¥58'11	0°50'10 1.41432 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	7778 Dec 03 14:48 7778 Dec 03 18:05 7778 Dec 10 16:28 7778 Dec 11 16:07 7778 Dec 14 14:45 7778 Dec 14 16:37 7778 Dec 30 10:07 7779 Jan 18 18:52 7779 Jan 25 15:19	15° 🖈 16'32 15° 🖈 32'09 28° 🖈 15'46 0° さ 5° さ05'10 5° さ13'06 0° ≈ 24° ≈ 36'56 0° 米	1°15'33 1.39308 AU
minimum elong desc. node max. Earth dist. evening rise	7777 Dec 20 22:07 7777 Dec 27 19:36 7777 Dec 28 10:19 7778 Jan 02 10:06 7778 Jan 06 07:34 7778 Jan 26 23:58 7778 Feb 05 05:08 7778 Feb 15 10:32	2°♂26'57 14°♂29'55 15°♂32'11 23°♂47'11 0°≈ 0°¥ 10°¥52'13 16°¥55'57	0°50'10 1.41432 AU	minimum elong max. Earth dist. evening rise desc. node	7778 Dec 03 14:48 7778 Dec 03 18:05 7778 Dec 10 16:28 7778 Dec 11 16:07 7778 Dec 14 14:45 7778 Dec 14 16:37 7778 Dec 30 10:07 7779 Jan 18 18:52	15° 🖈 16'32 15° 🖈 32'09 28° 🖈 15'46 0° で 5° で 05'10 5° で 13'06 0° ※ 24° ※ 36'56	1°15'33 1.39308 AU
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	7777 Dec 20 22:07 7777 Dec 27 19:36 7777 Dec 28 10:19 7778 Jan 02 10:06 7778 Jan 06 07:34 7778 Jan 26 23:58 7778 Feb 05 05:08 7778 Feb 15 10:32 7778 Feb 18 19:59	2°♂26'57 14°♂29'55 15°♂32'11 23°♂47'11 0°≈ 0°¥ 10°¥52'13 16°¥55'57 15°¥58'11	0°50'10 1.41432 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	7778 Dec 03 14:48 7778 Dec 03 18:05 7778 Dec 10 16:28 7778 Dec 11 16:07 7778 Dec 14 14:45 7778 Dec 14 16:37 7778 Dec 30 10:07 7779 Jan 18 18:52 7779 Jan 25 15:19	15° 🖈 16'32 15° 🖈 32'09 28° 🖈 15'46 0° さ 5° さ05'10 5° さ13'06 0° ≈ 24° ≈ 36'56 0° 米	1°15'33 1.39308 AU
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minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	7777 Dec 20 22:07 7777 Dec 27 19:36 7777 Dec 28 10:19 7778 Jan 02 10:06 7778 Jan 06 07:34 7778 Jan 26 23:58 7778 Feb 05 05:08 7778 Feb 15 10:32 7778 Feb 18 19:59 7778 Feb 20 07:22 7778 Feb 25 16:28 7778 Feb 25 07:42 7778 Mar 02 21:02	2°♂26'57 14°♂29'55 15°♂32'11 23°♂47'11 0°≈ 0° ¥ 10° ¥52'13 16° ¥55'57 15° ¥58'11 14° ¥55'10 8° ¥30'03 8° ¥37'46 9° ¥00'22 2° ¥22'35	0°50'10 1.41432 AU 22°59'34 2°05'30 2°04'51	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist.	7778 Dec 03 14:48 7778 Dec 03 18:05 7778 Dec 10 16:28 7778 Dec 11 16:07 7778 Dec 14 14:45 7778 Dec 14 16:37 7778 Dec 30 10:07 7779 Jan 18 18:52 7779 Jan 25 15:19 7779 Feb 03 04:00 7779 Feb 04 11:56 7779 Feb 05 17:03 7779 Feb 09 03:54	15° 🖈 16'32 15° 🖈 32'09 28° 🖈 15'46 0° 云 5° 云 05'10 5° 云 13'06 0° ≈ 24° ≈ 36'56 0° 光 1° 光 15'18 30° R≈ 29° ≈ 00'37 27° ≈ 52'04 23° ≈ 39'56	1°15'33 1.39308 AU 24°19'23 0.68037 AU
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	7777 Dec 20 22:07 7777 Dec 27 19:36 7777 Dec 28 10:19 7778 Jan 02 10:06 7778 Jan 06 07:34 7778 Jan 26 23:58 7778 Feb 05 05:08 7778 Feb 15 10:32 7778 Feb 18 19:59 7778 Feb 20 07:22 7778 Feb 25 16:28 7778 Feb 25 14:14 7778 Feb 25 07:42 7778 Mar 02 21:02 7778 Mar 07 07:11	2°♂26'57 14°♂29'55 15°♂32'11 23°♂47'11 0°≈ 0° ¥ 10° ¥52'13 16° ¥55'57 15° ¥58'11 14° ¥55'10 8° ¥30'03 8° ¥37'46 9° ¥00'22 2° ¥22'35 0° ¥34'55	0°50'10 1.41432 AU 22°59'34 2°05'30 2°04'51 0.68357 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj	7778 Dec 03 14:48 7778 Dec 03 18:05 7778 Dec 10 16:28 7778 Dec 11 16:07 7778 Dec 14 14:45 7778 Dec 14 16:37 7778 Dec 30 10:07 7779 Jan 18 18:52 7779 Jan 25 15:19 7779 Feb 03 04:00 7779 Feb 04 11:56 7779 Feb 05 17:03 7779 Feb 09 03:54 7779 Feb 10 00:01	15° 🖈 16'32 15° 🖈 32'09 28° 🖈 15'46 0° 云 5° 云 05'10 5° 云 13'06 0° ≈ 24° ≈ 36'56 0° 光 1° 光 15'18 30° R≈ 29° ≈ 00'37 27° ≈ 52'04 23° ≈ 39'56 22° ≈ 32'20	1°15'33 1.39308 AU 24°19'23 0.68037 AU 1°22'37
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minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	7777 Dec 20 22:07 7777 Dec 27 19:36 7777 Dec 28 10:19 7778 Jan 02 10:06 7778 Jan 06 07:34 7778 Jan 26 23:58 7778 Feb 05 05:08 7778 Feb 15 10:32 7778 Feb 15 10:32 7778 Feb 20 07:22 7778 Feb 25 16:28 7778 Feb 25 16:28 7778 Feb 25 14:14 7778 Feb 25 07:42 7778 Mar 02 21:02 7778 Mar 07 07:11 7778 Mar 16 00:33 7778 Mar 25 19:07 7778 Apr 03 13:28 7778 Apr 16 13:01 7778 Apr 22 20:33 7778 Apr 23 07:59 7778 Apr 30 18:19 7778 Apr 30 18:19 7778 May 10 04:06 7778 May 11 23:30 7778 May 17 19:01 7778 May 28 09:06	2°♂26'57 14°♂29'55 15°♂32'11 23°♂47'11 0°≈ 0°¥ 10°¥52'13 16°¥55'57 15°¥58'11 14°¥55'10 8°¥30'03 8°¥37'46 9°¥00'22 2°¥22'35 0°¥34'55 5°¥38'12 17°¥31'14 0°° 19°°¥50'06 0°∀ 0°∀46'59 13°¥39'24 0°Ⅱ 3°Ⅱ16'59 13°¶16'59 13°¶16'59 13°¶16'59	0°50'10 1.41432 AU 22°59'34 2°05'30 2°04'51 0.68357 AU 21°24'17 1.42191 AU -2°01'38 2°01'24	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	7778 Dec 03 14:48 7778 Dec 03 18:05 7778 Dec 10 16:28 7778 Dec 11 16:07 7778 Dec 14 14:45 7778 Dec 14 16:37 7778 Dec 14 16:37 7778 Dec 14 16:37 7778 Dec 30 10:07 7779 Jan 18 18:52 7779 Jan 25 15:19 7779 Feb 03 04:00 7779 Feb 04 11:56 7779 Feb 05 17:03 7779 Feb 09 03:54 7779 Feb 09 03:54 7779 Feb 10 00:01 7779 Feb 10 00:01 7779 Feb 15 08:38 7779 Feb 19 05:32 7779 Feb 19 05:32 7779 Feb 26 22:10 7779 Mar 07 12:59 7779 Mar 12 16:05 7779 Mar 26 12:24 7779 Apr 15 10:23 7779 Apr 11 11:32 7779 Apr 11 11:32 7779 Apr 15 09:14	15° ₹16'32 15° ₹32'09 28° ₹15'46 0° ₹ 5° ₹305'10 5° ₹313'06 0° ≈ 24° ≈36'56 0° ₹ 1° ₹15'18 30° ₹≈ 29° ≈00'37 27° ≈52'04 23° ≈33'56 22° ≈33'20 22° ≈38'17 16° ≈30'58 15° ≈05'26 19° ≈26'20 0° ₹ 7° ₹18'04 28° ₹10'36 0° ₹ 14° ₹08'21 23° ₹33'54 0° ₹	1°15'33 1.39308 AU 24°19'23 0.68037 AU 1°22'37 1°22'02 20°09'37
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. 1	7770 14 10 00 11	1.50 T 4.512.0			7700 4 20 21 42	200	
retrograde	7779 May 18 08:11	15° Ⅱ 45'29		retrograde	7780 Apr 30 21:43	29° 8 20'27	
evening set	7779 May 21 03:16	15° Ⅱ 05'58		evening set	7780 May 03 23:57	28° 8 27'28	
inferior conj	7779 May 27 08:55	9° ∏ 54'43	2°57'44	inferior conj	7780 May 09 19:19	22° 8 58'16	3°19'52
minimum elong	7779 May 27 11:21	9° ∏ 48'18	2°57'10	minimum elong	7780 May 09 20:25	22° 8 55'03	3°19'40
min. Earth dist.	7779 May 30 05:36	6° Ⅱ 54'34	0.62498 AU	min. Earth dist.	7780 May 12 01:17	20° 8 20'32	0.64489 AU
morning rise	7779 Jun 02 17:43	3° Ⅱ 47'52		morning rise	7780 May 15 15:59	16° 8 43'34	
desc. node	7779 Jun 08 15:34	1° Ⅱ 20′19		direct	7780 May 22 08:52	13° 8 59'06	
direct	7779 Jun 09 12:21	1° Ⅱ 17'58		desc. node	7780 May 25 12:35	14° 8 30'56	
morning max el	7779 Jun 23 14:18	9° Ⅱ 20′25	27°53'37	morning max el	7780 Jun 04 23:49	21° 8 57'00	27°25'27
	7779 Jul 09 14:37	0 \circ \mathfrak{S}			7780 Jun 12 00:36	Π°	
	7779 Jul 26 14:36	$0^{\circ}\Omega$			7780 Jul 01 19:31	0°ಲ	
morning set	7779 Jul 27 14:44	2° Ω 01'34		morning set	7780 Jul 10 06:15	15° © 40'20	
asc. node	7779 Jul 31 15:21	10° Ω 23'26		max. Earth dist.	7780 Jul 14 23:20	25° © 10'28	1.33250 AU
max. Earth dist.	7779 Aug 02 00:53	13° Ω 22'36	1.32268 AU		7780 Jul 17 06:42	0°N	
man. Barar alou.	///> 114g 02 00.03	15 0022 50	1.52200110	asc. node	7780 Jul 17 12:20	0° Ω 29'43	
superior conj	7779 Aug 04 04:58	18° Ω 04'41	0°35'48	use. Houe	7700 Jul 17 12.20	0 0025 15	
minimum elong	7779 Aug 04 04:38	17° Ω 56'08	0°35'24	superior conj	7780 Jul 18 09:40	2° Ω 22'54	0°09'03
minimum ciong	•		0 33 24				
	7779 Aug 09 16:00	0° Mp		minimum elong	7780 Jul 18 09:13	2° Ω 20'29	0°08'51
evening rise	7779 Aug 11 01:41	3° m 01'15		behind sun begin	7780 Jul 18 04:37	1° Ω 56'03	
	7779 Aug 25 13:08	0∘ ⊽		behind sun end	7780 Jul 18 13:49	2° Ω 44'58	
evening max el	7779 Sep 04 11:33	12° ≏ 24'24	24°01'49	evening rise	7780 Jul 25 12:58	17° Ω 40'01	
desc. node	7779 Sep 04 14:39	12° ≏ 31'48			7780 Jul 31 14:55	0° m ∕	
retrograde	7779 Sep 18 04:32	19° ≙ 16'36		evening max el	7780 Aug 16 00:15	22° Mp 38'32	22°22'46
evening set	7779 Sep 22 22:06	18° ≏ 27'23		desc. node	7780 Aug 21 11:42	26° M 55'23	
min. Earth dist.	7779 Sep 28 22:13	15° ≏ 30'18	0.56127 AU	retrograde	7780 Aug 28 23:18	29° Mp 05'42	
inferior conj	7779 Oct 01 05:42	14° ≙ 05'23	-5°32'19	evening set	7780 Sep 01 04:51	28° m 42'41	
minimum elong	7779 Oct 01 05:11	14° ≏ 06'10	5°32'17	min. Earth dist.	7780 Sep 09 06:43	25° mp 10'33	0.54991 AU
morning rise	7779 Oct 09 14:26	10° ≏ 07'26		inferior conj	7780 Sep 10 05:31	24° mp 38'25	-5°01'56
direct	7779 Oct 12 08:07	9° ≏ 48'06		minimum elong	7780 Sep 09 21:58	24° m/ 49'03	5°00'37
morning max el	7779 Oct 22 09:37	14° £ 31'57	19°53'31	morning rise	7780 Sep 18 16:51	20° mp 50'14	
asc. node	7779 Oct 27 14:51	20° ₽ 39'18	17 55 51	direct	7780 Sep 21 23:00	20° m/26'20	
asc. node	7779 Nov 02 10:21	0°M		morning max el	7780 Oct 03 13:56	25° m 53'12	21010100
marning got	7779 Nov 09 06:56	13°M16'37		morning max er	7780 Oct 03 13:36 7780 Oct 07 09:36	0° ∿	21 1800
morning set	///9 NOV 09 06:36	13 116103/					
		200M 02126	1000104	asc. node	7780 Oct 13 11:50	8° Ω 44'12	
superior conj	7779 Nov 17 01:28	29°M02'36	1°32'04	morning set	7780 Oct 23 15:39	28° Ω 01'22	
minimum elong	7779 Nov 17 03:43	29° ™ 13'46	1°32'00		7780 Oct 24 14:24	0°M₊	
		_	1 32 00		7760 OCT 24 14.24		
	7779 Nov 17 13:01	0° ₹					
max. Earth dist.	7779 Nov 17 13:01 7779 Nov 22 22:17	0° ⊀ 10° ⊀ 24'36	1.37177 AU	superior conj	7780 Oct 30 22:37	13°M18'18	1°40'15
max. Earth dist. evening rise				superior conj minimum elong			1°40'15 1°40'19
	7779 Nov 22 22:17	10° ₹ 24'36		1 3	7780 Oct 30 22:37	13° M .18'18	
evening rise	7779 Nov 22 22:17 7779 Nov 26 16:39	10° х 24′36 17° х 19′30		minimum elong	7780 Oct 30 22:37 7780 Oct 30 23:30	13°M18'18 13°M22'53	1°40'19
evening rise	7779 Nov 22 22:17 7779 Nov 26 16:39 7779 Dec 01 13:38	10° ₹ 24'36 17° ₹ 19'30 25° ₹ 49'37		minimum elong	7780 Oct 30 22:37 7780 Oct 30 23:30 7780 Nov 04 08:52	13°M18'18 13°M22'53 22°M18'46	1°40'19
evening rise desc. node	7779 Nov 22 22:17 7779 Nov 26 16:39 7779 Dec 01 13:38 7779 Dec 04 01:39	10° メ 24'36 17° メ 19'30 25° メ 49'37 0°る	1.37177 AU	minimum elong max. Earth dist.	7780 Oct 30 22:37 7780 Oct 30 23:30 7780 Nov 04 08:52 7780 Nov 08 07:52	13°M18'18 13°M22'53 22°M18'46 0°⊀	1°40'19
evening rise desc. node	7779 Nov 22 22:17 7779 Nov 26 16:39 7779 Dec 01 13:38 7779 Dec 04 01:39 7779 Dec 24 19:10 7780 Jan 01 07:59	10° ₹24'36 17° ₹19'30 25° ₹49'37 0° ₹ 0° ≈ 8° ≈24'15	1.37177 AU	minimum elong max. Earth dist.	7780 Oct 30 22:37 7780 Oct 30 23:30 7780 Nov 04 08:52 7780 Nov 08 07:52 7780 Nov 08 12:23 7780 Nov 17 10:41	13°M18'18 13°M22'53 22°M18'46 0° ₹ 21'22 16° ₹ 14'58	1°40'19
evening rise desc. node evening max el retrograde	7779 Nov 22 22:17 7779 Nov 26 16:39 7779 Dec 01 13:38 7779 Dec 04 01:39 7779 Dec 24 19:10 7780 Jan 01 07:59 7780 Jan 13 14:14	10°ズ24'36 17°ズ19'30 25°ズ49'37 0°云 0°≈ 8°≈24'15 15°≈26'44	1.37177 AU	minimum elong max. Earth dist. evening rise desc. node	7780 Oct 30 22:37 7780 Oct 30 23:30 7780 Nov 04 08:52 7780 Nov 08 07:52 7780 Nov 08 12:23 7780 Nov 17 10:41 7780 Nov 26 04:19	13°M18'18 13°M22'53 22°M18'46 0°ダ 0°ダ21'22 16°ダ14'58 0°उ	1°40'19 1.35256 AU
evening rise desc. node evening max el retrograde evening set	7779 Nov 22 22:17 7779 Nov 26 16:39 7779 Dec 01 13:38 7779 Dec 04 01:39 7779 Dec 24 19:10 7780 Jan 01 07:59 7780 Jan 13 14:14 7780 Jan 19 12:21	10° ₹24'36 17° ₹19'30 25° ₹49'37 0° ₹ 0° ≈ 8° ≈24'15 15° ≈26'44 13° ≈00'14	1.37177 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	7780 Oct 30 22:37 7780 Oct 30 23:30 7780 Nov 04 08:52 7780 Nov 08 07:52 7780 Nov 08 12:23 7780 Nov 17 10:41 7780 Nov 26 04:19 7780 Dec 13 21:14	13°M18'18 13°M22'53 22°M18'46 0°ダ 0°ダ21'22 16°ダ14'58 0°℧ 22°℧08'37	1°40'19 1.35256 AU
evening rise desc. node evening max el retrograde evening set asc. node	7779 Nov 22 22:17 7779 Nov 26 16:39 7779 Dec 01 13:38 7779 Dec 04 01:39 7779 Dec 24 19:10 7780 Jan 01 07:59 7780 Jan 13 14:14 7780 Jan 19 12:21 7780 Jan 23 14:06	10° ₹24'36 17° ₹19'30 25° ₹49'37 0° ₹ 0° ≈ 8° ≈24'15 15° ≈26'44 13° ≈00'14 8° ≈36'37	1.37177 AU 25°33'30	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	7780 Oct 30 22:37 7780 Oct 30 23:30 7780 Nov 04 08:52 7780 Nov 08 07:52 7780 Nov 08 12:23 7780 Nov 17 10:41 7780 Nov 26 04:19 7780 Dec 13 21:14 7780 Dec 26 20:25	13°M18'18 13°M22'53 22°M18'46 0°メ 0°メ21'22 16°メ14'58 0°る 22°る08'37 29°る24'22	1°40'19 1.35256 AU
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evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node	7779 Nov 22 22:17 7779 Nov 26 16:39 7779 Dec 01 13:38 7779 Dec 04 01:39 7779 Dec 24 19:10 7780 Jan 01 07:59 7780 Jan 13 14:14 7780 Jan 19 12:21 7780 Jan 23 14:06 7780 Jan 23 21:13 7780 Jan 25 04:37 7780 Jan 25 03:50 7780 Jan 30 19:41 7780 Feb 01 02:30 7780 Feb 03 04:41 7780 Feb 05 08:26 7780 Feb 10 03:40 7780 Feb 23 14:27 7780 Feb 27 13:03 7780 Feb 29 04:54	10° \$\frac{7}{24'36} 17° \$\frac{7}{19'30} 25° \$\frac{7}{49'37} 0° \$\frac{7}{0}\$ 0° \$\infty\$ 8° \$\infty 26'44 13° \$\infty 00'14 8° \$\infty 36'37 8° \$\infty 14'08 6° \$\infty 36'12 0° \$\infty 40'26 30° \$\frac{7}{6}\$ 29° \$\frac{7}{6}\$34'56 0° \$\infty\$ 3° \$\infty 25'04 21° \$\infty 26'25 27° \$\infty 26'46 0° \$\frac{7}{6}\$	1.37177 AU 25°33'30 0.67339 AU 0°31'56 0°31'42	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	7780 Oct 30 22:37 7780 Oct 30 23:30 7780 Nov 04 08:52 7780 Nov 08 07:52 7780 Nov 08 12:23 7780 Nov 17 10:41 7780 Nov 26 04:19 7780 Dec 13 21:14 7780 Dec 26 20:25 7781 Jan 02 06:53 7781 Jan 06 09:22 7781 Jan 08 04:20 7781 Jan 08 05:03 7781 Jan 09 11:08 7781 Jan 14 04:04 7781 Jan 17 02:48 7781 Jan 23 15:49 7781 Feb 02 02:24 7781 Feb 12 15:16 7781 Feb 13 10:02	13°M18'18 13°M22'53 22°M18'46 0°ズ 0°ズ21'22 16°ズ14'58 0°G 22°G08'37 29°G24'22 26°G49'44 22°G38'33 20°G30'16 20°G28'08 18°G59'37 14°G47'36 13°G59'02 17°G30'26 0°≈ 16°≈36'49 17°≈51'32	1°40'19 1.35256 AU 26°34'32 0.66270 AU -0°25'55 0°25'30
evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set	7779 Nov 22 22:17 7779 Nov 26 16:39 7779 Dec 01 13:38 7779 Dec 04 01:39 7779 Dec 24 19:10 7780 Jan 01 07:59 7780 Jan 13 14:14 7780 Jan 19 12:21 7780 Jan 23 14:06 7780 Jan 23 21:13 7780 Jan 25 04:37 7780 Jan 25 03:50 7780 Jan 30 19:41 7780 Feb 01 02:30 7780 Feb 03 04:41 7780 Feb 03 04:41 7780 Feb 05 08:26 7780 Feb 10 03:40 7780 Feb 23 14:27 7780 Feb 27 13:03 7780 Feb 29 04:54 7780 Mar 04 13:58 7780 Mar 18 07:31	10° ₹24'36 17° ₹19'30 25° ₹49'37 0° ₹ 0° ₹ 0° ₹ 8° ≈24'15 15° ≈26'44 13° ≈00'14 8° ≈36'37 8° ≈14'08 6° ≈33'39 6° ≈36'12 0° ≈40'26 30° ₹₹ 29° ₹34'56 0° ≈ 3° ≈25'04 21° ≈26'25 27° ≈26'46 0° ¥ 6° ¥45'51	1.37177 AU 25°33'30 0.67339 AU 0°31'56 0°31'42 19°09'24 -0.7m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	7780 Oct 30 22:37 7780 Oct 30 23:30 7780 Nov 04 08:52 7780 Nov 08 07:52 7780 Nov 08 12:23 7780 Nov 17 10:41 7780 Nov 26 04:19 7780 Dec 13 21:14 7780 Dec 26 20:25 7781 Jan 02 06:53 7781 Jan 06 09:22 7781 Jan 08 04:20 7781 Jan 08 05:03 7781 Jan 09 11:08 7781 Jan 14 04:04 7781 Jan 17 02:48 7781 Jan 23 15:49 7781 Feb 02 02:24 7781 Feb 12 15:16 7781 Feb 13 10:02 7781 Feb 21 01:50	13°M18'18 13°M22'53 22°M18'46 0°ズ 0°ズ21'22 16°ズ14'58 0°G 22°G08'37 29°G24'22 26°G49'44 22°G38'33 20°G30'16 20°G28'08 18°G59'37 14°G47'36 13°G59'02 17°G30'26 0°≈ 16°≈36'49 17°≈51'32 0°光	1°40'19 1.35256 AU 26°34'32 0.66270 AU -0°25'55 0°25'30
evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set	7779 Nov 22 22:17 7779 Nov 26 16:39 7779 Dec 01 13:38 7779 Dec 04 01:39 7779 Dec 24 19:10 7780 Jan 01 07:59 7780 Jan 13 14:14 7780 Jan 19 12:21 7780 Jan 23 14:06 7780 Jan 23 21:13 7780 Jan 25 04:37 7780 Jan 25 03:50 7780 Jan 30 19:41 7780 Feb 01 02:30 7780 Feb 03 04:41 7780 Feb 03 04:41 7780 Feb 10 03:40 7780 Feb 23 14:27 7780 Feb 27 13:03 7780 Feb 29 04:54 7780 Mar 04 13:58	10° ₹24'36 17° ₹19'30 25° ₹49'37 0° ₹ 0° ₹ 0° ₹ 8° ≈24'15 15° ≈26'44 13° ≈00'14 8° ≈36'37 8° ≈14'08 6° ≈33'39 6° ≈36'12 0° ≈40'26 30° ₹₹ 29° ₹34'56 0° ≈ 3° ≈25'04 21° ≈26'25 27° ≈26'46 0° ₹ 6° ₹45'51 28° ₹10'48	1.37177 AU 25°33'30 0.67339 AU 0°31'56 0°31'42 19°09'24 -0.7m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	7780 Oct 30 22:37 7780 Oct 30 23:30 7780 Nov 04 08:52 7780 Nov 08 07:52 7780 Nov 08 12:23 7780 Nov 17 10:41 7780 Nov 26 04:19 7780 Dec 13 21:14 7780 Dec 26 20:25 7781 Jan 02 06:53 7781 Jan 06 09:22 7781 Jan 08 04:20 7781 Jan 08 05:03 7781 Jan 09 11:08 7781 Jan 14 04:04 7781 Jan 17 02:48 7781 Jan 23 15:49 7781 Feb 02 02:24 7781 Feb 12 15:16 7781 Feb 13 10:02 7781 Feb 28 09:59	13°M18'18 13°M22'53 22°M18'46 0°ズ 0°ズ21'22 16°ズ14'58 0°℧ 22°℧08'37 29°℧24'22 26°℧49'44 22°℧38'33 20°℧30'16 20°℧28'08 18°℧59'37 14°℧47'36 13°℧59'02 17°℧30'26 0°≈ 16°≈36'49 17°≈51'32 0°沃	1°40'19 1.35256 AU 26°34'32 0.66270 AU -0°25'55 0°25'30 18°25'22
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evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong evening rise	7779 Nov 22 22:17 7779 Nov 26 16:39 7779 Dec 01 13:38 7779 Dec 04 01:39 7779 Dec 24 19:10 7780 Jan 01 07:59 7780 Jan 13 14:14 7780 Jan 19 12:21 7780 Jan 23 14:06 7780 Jan 23 21:13 7780 Jan 25 04:37 7780 Jan 25 03:50 7780 Jan 30 19:41 7780 Feb 01 02:30 7780 Feb 03 04:41 7780 Feb 05 08:26 7780 Feb 10 03:40 7780 Feb 23 14:27 7780 Feb 23 14:27 7780 Feb 27 13:03 7780 Feb 29 04:54 7780 Mar 04 13:58 7780 Mar 18 07:31 7780 Mar 19 11:14 7780 Mar 20 22:41 7780 Apr 04 19:39 7780 Apr 07 00:57	10° ₹24'36 17° ₹19'30 25° ₹49'37 0° ₹ 0° ₹ 0° ₹ 8° ≈24'15 15° ≈26'44 13° ≈00'14 8° ≈36'37 8° ≈14'08 6° ≈36'12 0° ≈40'26 30° ₹ 29° ₹34'56 0° ≈ 3° ≈25'04 21° ≈26'25 27° ≈26'46 0° ₹ 6° ₹45'51 28° ₹10'48 0° ♀ 2° ♀45'31 2° ♀20'05 26° ♀20'35 0° ₹	1.37177 AU 25°33'30 0.67339 AU 0°31'56 0°31'42 19°09'24 -0.7m 1.45064 AU -2°02'58	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.	7780 Oct 30 22:37 7780 Oct 30 23:30 7780 Nov 04 08:52 7780 Nov 08 07:52 7780 Nov 08 12:23 7780 Nov 17 10:41 7780 Nov 26 04:19 7780 Dec 13 21:14 7780 Dec 26 20:25 7781 Jan 02 06:53 7781 Jan 06 09:22 7781 Jan 08 04:20 7781 Jan 08 05:03 7781 Jan 09 11:08 7781 Jan 14 04:04 7781 Jan 17 02:48 7781 Jan 17 02:48 7781 Feb 02 02:24 7781 Feb 12 15:16 7781 Feb 13 10:02 7781 Feb 28 09:59 7781 Feb 28 09:59 7781 Feb 28 09:22 7781 Mar 01 02:44 7781 Mar 12 04:51 7781 Mar 16 07:27 7781 Mar 26 04:57	13°M18'18 13°M22'53 22°M18'46 0°ズ 0°ズ21'22 16°ズ14'58 0°उ 22°308'37 29°324'22 26°349'44 22°338'33 20°330'16 20°328'08 18°35'9'37 14°347'36 13°35'9'02 17°330'26 0°≈ 16°≈36'49 17°≈51'32 0°ዢ 11°X31'45 10°X54'08 12°X37'20 0°Υ 6°Υ28'09 22°Υ01'21	1°40'19 1.35256 AU 26°34'32 0.66270 AU -0°25'55 0°25'30 18°25'22
evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	7779 Nov 22 22:17 7779 Nov 26 16:39 7779 Dec 01 13:38 7779 Dec 04 01:39 7779 Dec 24 19:10 7780 Jan 01 07:59 7780 Jan 13 14:14 7780 Jan 19 12:21 7780 Jan 23 14:06 7780 Jan 23 21:13 7780 Jan 25 04:37 7780 Jan 25 03:50 7780 Jan 30 19:41 7780 Feb 01 02:30 7780 Feb 03 04:41 7780 Feb 03 04:41 7780 Feb 05 08:26 7780 Feb 10 03:40 7780 Feb 23 14:27 7780 Feb 27 13:03 7780 Feb 29 04:54 7780 Mar 04 13:58 7780 Mar 18 07:31 7780 Mar 19 11:14 7780 Mar 21 05:07 7780 Mar 20 22:41 7780 Apr 04 19:39 7780 Apr 07 00:57 7780 Apr 07 00:57	10° ₹24'36 17° ₹19'30 25° ₹49'37 0° ₹ 0° ₹ 0° ₹ 8° ≈24'15 15° ≈26'44 13° ≈00'14 8° ≈36'37 8° ≈14'08 6° ≈36'12 0° ≈40'26 30° ₹ 29° ₹34'56 0° ≈ 3° ≈25'04 21° ≈26'25 27° ≈26'46 0° ₹ 6° ₹45'51 28° ₹10'48 0° ♀ 2° ₹45'31 2° ₹20'05 26° ₹20'35 0° ₹ 21° ₹11'45	1.37177 AU 25°33'30 0.67339 AU 0°31'56 0°31'42 19°09'24 -0.7m 1.45064 AU -2°02'58 2°02'39	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	7780 Oct 30 22:37 7780 Oct 30 23:30 7780 Nov 04 08:52 7780 Nov 08 07:52 7780 Nov 08 12:23 7780 Nov 17 10:41 7780 Nov 26 04:19 7780 Dec 13 21:14 7780 Dec 26 20:25 7781 Jan 02 06:53 7781 Jan 08 04:20 7781 Jan 08 05:03 7781 Jan 09 11:08 7781 Jan 14 04:04 7781 Jan 17 02:48 7781 Jan 23 15:49 7781 Feb 02 02:24 7781 Feb 12 15:16 7781 Feb 13 10:02 7781 Feb 28 09:59 7781 Feb 28 09:59 7781 Feb 28 09:59 7781 Feb 28 09:22 7781 Mar 01 02:44 7781 Mar 16 07:27 7781 Mar 26 04:57 7781 Mar 31 11:42	13°M18'18 13°M22'53 22°M18'46 0°ズ 0°ズ21'22 16°ズ14'58 0°उ 22°308'37 29°324'22 26°349'44 22°338'33 20°330'16 20°328'08 18°35'9'37 14°347'36 13°35'9'02 17°330'26 0°≈ 16°≈36'49 17°≈51'32 0°ዢ 11°\\$31'45 10°\\$54'08 12°\\$37'20 0°\\$\\$0°\\$28'09 22°\\$01'21 0°\\$	1°40'19 1.35256 AU 26°34'32 0.66270 AU -0°25'55 0°25'30 18°25'22 -1°34'37 1°33'37 1.45494 AU
evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong evening rise	7779 Nov 22 22:17 7779 Nov 26 16:39 7779 Dec 01 13:38 7779 Dec 04 01:39 7779 Dec 24 19:10 7780 Jan 01 07:59 7780 Jan 13 14:14 7780 Jan 19 12:21 7780 Jan 23 14:06 7780 Jan 23 21:13 7780 Jan 25 04:37 7780 Jan 25 03:50 7780 Jan 30 19:41 7780 Feb 01 02:30 7780 Feb 03 04:41 7780 Feb 05 08:26 7780 Feb 10 03:40 7780 Feb 23 14:27 7780 Feb 23 14:27 7780 Feb 27 13:03 7780 Feb 29 04:54 7780 Mar 04 13:58 7780 Mar 18 07:31 7780 Mar 19 11:14 7780 Mar 20 22:41 7780 Apr 04 19:39 7780 Apr 07 00:57	10° ₹24'36 17° ₹19'30 25° ₹49'37 0° ₹ 0° ₹ 0° ₹ 8° ≈24'15 15° ≈26'44 13° ≈00'14 8° ≈36'37 8° ≈14'08 6° ≈36'12 0° ≈40'26 30° ₹ 29° ₹34'56 0° ≈ 3° ≈25'04 21° ≈26'25 27° ≈26'46 0° ₹ 6° ₹45'51 28° ₹10'48 0° ♀ 2° ♀45'31 2° ♀20'05 26° ♀20'35 0° ₹	1.37177 AU 25°33'30 0.67339 AU 0°31'56 0°31'42 19°09'24 -0.7m 1.45064 AU -2°02'58 2°02'39	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	7780 Oct 30 22:37 7780 Oct 30 23:30 7780 Nov 04 08:52 7780 Nov 08 07:52 7780 Nov 08 12:23 7780 Nov 17 10:41 7780 Nov 26 04:19 7780 Dec 13 21:14 7780 Dec 26 20:25 7781 Jan 02 06:53 7781 Jan 06 09:22 7781 Jan 08 04:20 7781 Jan 08 05:03 7781 Jan 09 11:08 7781 Jan 14 04:04 7781 Jan 17 02:48 7781 Jan 17 02:48 7781 Feb 02 02:24 7781 Feb 12 15:16 7781 Feb 13 10:02 7781 Feb 28 09:59 7781 Feb 28 09:59 7781 Feb 28 09:22 7781 Mar 01 02:44 7781 Mar 12 04:51 7781 Mar 16 07:27 7781 Mar 26 04:57	13°M18'18 13°M22'53 22°M18'46 0°ズ 0°ズ21'22 16°ズ14'58 0°उ 22°308'37 29°324'22 26°349'44 22°338'33 20°330'16 20°328'08 18°35'9'37 14°347'36 13°35'9'02 17°330'26 0°≈ 16°≈36'49 17°≈51'32 0°ዢ 11°X31'45 10°X54'08 12°X37'20 0°Υ 6°Υ28'09 22°Υ01'21	1°40'19 1.35256 AU 26°34'32 0.66270 AU -0°25'55 0°25'30 18°25'22 -1°34'37 1°33'37 1.45494 AU

evening max el	7781 Apr 07 21:02	9° 8 25'38	19°01'12	greatest brilliancy	7782 Mar 10 07:42	7° Υ 35'34	-0.6m
retrograde	7781 Apr 14 17:03	13° 8 15'18	17 01 12	evening max el	7782 Mar 22 02:22	23° Y '02'24	19°53'01
evening set	7781 Apr 18 02:42	12° 8 08'06		asc. node	7782 Mar 25 07:15	25° Υ '48'28	17 23 01
inferior conj	7781 Apr 23 15:21	6° 8 22'33	3°24'43	retrograde	7782 Mar 29 15:09	27° Y '23'22	
minimum elong	7781 Apr 23 15:06	6° 8 23'20	3°24'38	evening set	7782 Apr 02 09:01	26° Υ '01'32	
min. Earth dist.	7781 Apr 25 05:50	4° 8 20'24	0.66110 AU	inferior conj	7782 Apr 07 17:53	20° Y °01'34	3°15'57
morning rise	7781 Apr 29 03:03	0° 8 05'08		minimum elong	7782 Apr 07 16:33	20° Y ′06′00	3°15'46
Č	7781 Apr 29 05:24	30° ₹ Υ		min. Earth dist.	7782 Apr 08 17:43	18° Ƴ 41'33	0.67298 AU
direct	7781 May 05 12:14	27° Y 18'26		morning rise	7782 Apr 12 23:50	13° Y '44'35	
desc. node	7781 May 12 09:35	29° Y 49'39		direct	7782 Apr 18 21:37	11° Y ′06'22	
	7781 May 12 15:41	9° 8		desc. node	7782 Apr 29 06:35	16° Ƴ 44'11	
morning max el	7781 May 18 10:16	4° 8 59'11	26°27'45	morning max el	7782 Apr 30 19:54	18° Y 15'16	25°09'36
	7781 Jun 06 13:09	Π $^{\circ}0$			7782 May 10 17:02	0° 8	
morning set	7781 Jun 23 10:04	28° ∏ 42'43			7782 May 30 14:15	Π $^{\circ}0$	
	7781 Jun 24 02:27	0 \circ \odot		morning set	7782 Jun 05 21:49	10° Ⅱ 56′52	
max. Earth dist.	7781 Jun 27 11:30	6° © 31'34	1.34708 AU	max. Earth dist.	7782 Jun 09 13:12	17° Ⅱ 35'45	1.36593 AU
superior conj	7781 Jul 02 07:46	16° © 17'35	-0°20'45	superior conj	7782 Jun 15 20:22	29° ∏ 41'13	-0°52'11
minimum elong	7781 Jul 02 08:56	16°523'37		minimum elong	7782 Jun 15 23:30	29° I I56'42	
asc. node	7781 Jul 04 09:20	20°534'29	0 2030	minimum ciong	7782 Jun 16 00:10	0°95	0 31 11
ase. node	7781 Jul 08 21:23	0°N		asc. node	7782 Jun 21 06:23	10° © 33'49	
evening rise	7781 Jul 09 22:05	2° Ω 08'33		evening rise	7782 Jun 24 02:43	16°\$520'12	
	7781 Jul 25 23:45	0° m)			7782 Jul 01 04:21	$0^{\circ}\Omega$	
evening max el	7781 Jul 28 21:36	3° m 12'44	20°52'35	evening max el	7782 Jul 11 08:05	14° Ω 28'54	19°40'17
desc. node	7781 Aug 08 08:46	8° m 53'42		retrograde	7782 Jul 21 05:18	19° Ω 21'10	
retrograde	7781 Aug 09 11:43	8° Mp 56'50		evening set	7782 Jul 23 01:49	19° Ω 11'37	
evening set	7781 Aug 11 15:56	8° Mp 45'30		desc. node	7782 Jul 26 05:50	18° Ω 15'10	
inferior conj	7781 Aug 20 22:03	4° Mp 48′28	-3°38'14	inferior conj	7782 Jul 31 22:00	15° Ω 08'25	-1°43'44
minimum elong	7781 Aug 20 12:55	5° Mp 01'27	3°35'27	minimum elong	7782 Jul 31 17:15	15° Ω 15'51	1°42'01
min. Earth dist.	7781 Aug 21 15:57	4° m 23′02	0.54724 AU	min. Earth dist.	7782 Aug 03 04:08	13° Ω 43′53	0.55414 AU
morning rise	7781 Aug 29 10:03	0° m 50'40		morning rise	7782 Aug 09 06:25	10° Ω 41'17	
direct	7781 Sep 02 07:07	0° Mp 18′28		direct	7782 Aug 13 22:15	9° £ 53′01	
morning max el	7781 Sep 15 07:33	6°₩32'06	22°58'50	morning max el	7782 Aug 27 20:28	16° Ω 49'18	24°44'08
asc. node	7781 Sep 30 08:50	27° m 29'01			7782 Sep 07 13:31	0° ™	
	7781 Oct 01 17:27	0∘ ত		asc. node	7782 Sep 17 05:51	16°M 43'43	
morning set	7781 Oct 08 02:45	12° ≙ 51'18		morning set	7782 Sep 22 14:31	27° m/41'28	
superior conj	7781 Oct 15 02:54	27° £ 53'41	1°41'23		7782 Sep 23 16:24	0∘ ⊽	
minimum elong	7781 Oct 15 02:34 7781 Oct 15 02:30	27° ⊆ 53'41	1°41'26	superior conj	7782 Sep 29 11:47	12° ≏ 41'01	1°36'18
minimum clong	7781 Oct 16 02:35	0°M	1 4120	minimum elong	7782 Sep 29 10:22	12° ⊆ 33'15	
max. Earth dist.	7781 Oct 18 03:17	4°M16'54	1.33700 AU	max. Earth dist.	7782 Oct 01 05:42	16° ≏ 29'18	1.32580 AU
evening rise	7781 Oct 22 21:58	14°M00'24	1.55700110	evening rise	7782 Oct 06 17:56	28° ≏ 07'41	1.52500710
evening rise	7781 Oct 31 12:50	0° √		evening rise	7782 Oct 07 16:03	0°M	
desc. node	7781 Nov 04 07:44	6° ∡ ¹22'58		desc. node	7782 Oct 22 04:49	26°M06'17	
	7781 Nov 21 02:14	0°る			7782 Oct 24 17:45	0° ⊼	
evening max el	7781 Nov 26 10:03	5° ರ 39'41	27°15'11	evening max el	7782 Nov 08 20:59	18° ∡ ¹46'13	27°28'47
retrograde	7781 Dec 09 20:45	12° る 59'41		retrograde	7782 Nov 22 14:35	26° ₹ '03'50	
evening set	7781 Dec 16 17:17	10° පි 22'52		evening set	7782 Nov 29 16:48	23° х ⁴33'36	
min. Earth dist.	7781 Dec 20 14:04	6° ප 45'44	0.64849 AU	min. Earth dist.	7782 Dec 03 09:33	20° ∡ ¹26'55	0.63113 AU
inferior conj	7781 Dec 22 20:49	4° る 16'08	-1°30'00	inferior conj	7782 Dec 06 03:22	17° ∡ ¹45'12	-2°38'12
minimum elong	7781 Dec 22 23:31	4° る 08'43	1°28'45	minimum elong	7782 Dec 06 08:18	17° ∡ ³33′02	2°36'11
asc. node	7781 Dec 27 08:12	29° ₹ 57'22		morning rise	7782 Dec 13 01:45	12° ₹ ³32′08	
	7781 Dec 27 06:47	30°₽ ✓		asc. node	7782 Dec 14 05:15	12° ҂ 13'01	
morning rise	7781 Dec 29 07:10	28° ₰ ⁴46'49		direct	7782 Dec 15 10:08	12° ∡ ¹06'05	
direct	7781 Dec 31 21:33	28° ҂ 11′25		morning max el	7782 Dec 22 01:22	15° ∡ ³31′08	17°48'07
	7782 Jan 05 12:38	0°₹			7783 Jan 01 05:22	0°₹	
morning max el	7782 Jan 07 08:03	1° る 34'59	17°58'05	morning set	7783 Jan 07 06:03	10° る 25'47	
morning set	7782 Jan 24 22:04	27° る 55'01		desc. node	7783 Jan 18 04:01	29° る 08'57	
	7782 Jan 26 04:08	0° ≈			7783 Jan 18 16:16	0° ≈	
desc. node	7782 Jan 31 07:00	8° ≈ 26'51		superior conj	7783 Jan 19 06:01	0°≈57'06	0007152
superior conj	7782 Feb 07 21:11	20° ≈ 42'16	-0°52'42	minimum elong	7783 Jan 19 06:01	0°≈53'43	
minimum elong	7782 Feb 07 21:11 7782 Feb 07 15:02	20°≈17'43		behind sun begin	7783 Jan 18 20:55	0°≈19'19	0 0137
max. Earth dist.	7782 Feb 11 22:27	20 ≈1743 27°≈07'21	1.45173 AU	behind sun end	7783 Jan 19 13:30	1°≈28'04	
Zurur dist.	7782 Feb 13 18:25	0° ∀	1	max. Earth dist.	7783 Jan 25 15:46	11°≈23'18	1.44152 AU
evening rise	7782 Feb 24 00:36	15°) 55'10		evening rise	7783 Feb 03 11:39	25°≈14'49	1102710
	7782 Nar 05 05:45	0° Υ		2.0	7783 Feb 06 14:07	0° ∀	
		- •				- /\	

	7783 Feb 27 09:17	0° Υ		gunarior agni	7783 Dec 31 16:36	12° る 25'46	0021141
evening max el	7783 Mar 05 02:13	6° Υ 40'29	20°58'34	superior conj minimum elong	7783 Dec 31 10:30	12 3 25 46 12° 3 36'55	0°31'25
asc. node	7783 Mar 12 04:20	11° Υ 30'01	20 38 34	desc. node	7784 Jan 05 01:01	12 3 3033	0 31 23
retrograde	7783 Mar 12 04.20	11° Υ 30'01		max. Earth dist.	7784 Jan 08 05:06	19 3 3410 25° る 11'46	1.42548 AU
evening set	7783 Mar 17 16:55	10° Υ 03'07		max. Earth dist.	7784 Jan 11 03:43	0° ≈	1.42540710
inferior conj	7783 Mar 23 00:24	3° Υ 51'10	2°56'02	evening rise	7784 Jan 14 08:02	5°≈04'59	
minimum elong	7783 Mar 22 22:23	3°Υ58'06	2°55'38	evening rise	7784 Jan 30 21:48	0° ₩	
min. Earth dist.	7783 Mar 23 10:49	3°Υ15'06	0.68044 AU	evening max el	7784 Feb 15 21:01	20° ¥ 20'42	22°13'57
	7783 Mar 25 21:56	30°R) €		retrograde	7784 Feb 25 10:39	26° ¥ 01'07	
morning rise	7783 Mar 28 03:38	27°) 36'41		asc. node	7784 Feb 27 01:24	25°){ 47'47	
direct	7783 Apr 02 12:01	25°) 14'45		evening set	7784 Mar 01 00:44	24°) €09'05	
	7783 Apr 11 12:18	$0^{\circ}\mathbf{\Upsilon}$		inferior conj	7784 Mar 06 08:47	17° ¥ 48′00	2°26'31
morning max el	7783 Apr 13 04:57	1° Y 38'03	23°41'12	minimum elong	7784 Mar 06 06:30	17° ¥ 55'57	2°25'55
desc. node	7783 Apr 16 03:34	4° Y 48'18		min. Earth dist.	7784 Mar 06 06:51	17° ¥ 54'45	0.68360 AU
	7783 May 04 16:50	9° 8		morning rise	7784 Mar 11 12:06	11°) 37′37	
morning set	7783 May 18 11:57	22° 8 07'49		direct	7784 Mar 16 06:25	9° ∺ 36'43	
max. Earth dist.	7783 May 22 08:58	28° 8 50'19	1.38775 AU	morning max el	7784 Mar 25 16:14	15° ¥ 08′07	22°12'25
	7783 May 23 00:45	Π $^{\circ}0$		desc. node	7784 Apr 02 00:33	23°) 42′40	
					7784 Apr 06 17:11	0° Y	
superior conj	7783 May 29 19:50	12° Ⅱ 24'32	-1°23'03		7784 Apr 26 16:50	0° 8	
minimum elong	7783 May 30 00:48	12° Ⅱ 47'56	1°22'28	morning set	7784 Apr 27 23:21	2° 8 03'02	
	7783 Jun 07 22:40	0 \circ \odot		max. Earth dist.	7784 May 03 06:53	10° 8 49'04	1.41004 AU
evening rise	7783 Jun 08 00:07	0° 5 07'04					
asc. node	7783 Jun 08 03:25	0° © 23'07		superior conj	7784 May 11 01:43	24° 8 17'27	-1°49'54
evening max el	7783 Jun 24 06:38	26°528'41	18°48'30	minimum elong	7784 May 11 07:23	24° 8 42'43	1°49'27
	7783 Jun 29 10:08	0 $^{\circ}\Omega$			7784 May 14 05:48	Π °0	
retrograde	7783 Jul 02 14:19	0° £ 35′33		evening rise	7784 May 21 10:51	13° Ⅱ 20'50	
evening set	7783 Jul 04 14:40	0° Ω 22'00		asc. node	7784 May 25 00:28	19° Ⅱ 58′00	
	7783 Jul 05 21:29	30° ₹ ∽			7784 May 30 18:20	0∘ ©	
inferior conj	7783 Jul 12 16:10	26° © 02'13	0°08'03	evening max el	7784 Jun 06 13:45	9° © 04'52	18°17'09
minimum elong	7783 Jul 12 16:29	26°501'39	0°07'49	retrograde	7784 Jun 13 18:33	12°5541'28	
transit middle	7783 Jul 12 16:29	26°501'39	0°07'49	evening set	7784 Jun 16 02:11	12°5519'49	1005156
transit begin	7783 Jul 12 13:15	26°907'31		inferior conj	7784 Jun 23 08:05	7°939'22	1°35'56
transit end	7783 Jul 12 19:43	25°\$55'46		minimum elong	7784 Jun 23 10:54	7°533'21	1°34'55
desc. node	7783 Jul 13 02:53	25°542'42	0.5(040.411	min. Earth dist.	7784 Jun 26 17:45	4°947'09	0.59000 AU
min. Earth dist.	7783 Jul 15 20:12 7783 Jul 20 14:52	23° © 45'08 20° © 58'15	0.56940 AU	desc. node	7784 Jun 28 23:55	3°905'57 2°903'03	
morning rise direct	7783 Jul 26 03:33	20 \$38 13 19°\$44'05		morning rise direct	7784 Jun 30 16:29 7784 Jul 06 22:31	2 903 03 0°917'21	
morning max el	7783 Aug 09 11:02	19 5 44 03 27° 5 11'40	26°17'32	morning max el	7784 Jul 21 07:33	8°904'52	27022140
morning max er	7783 Aug 12 04:13	27 3 11 40 0° Ω	20 1/32	morning max er	7784 Aug 06 22:04	0°Ω	27 23 46
	7783 Aug 31 22:03	0° mp		asc. node	7784 Aug 20 23:51	26° Ω 10'20	
asc. node	7783 Sep 04 02:51	6° Mp 19'34		morning set	7784 Aug 21 09:19	26° Ω 59'58	
morning set	7783 Sep 07 02:31	12° Mp 25'56		morning set	7784 Aug 22 19:17	0°m)	
morning set	7703 Sep 07 01.10	12 11/2330			770471ug 22 17.17	V III	
superior conj	7783 Sep 13 23:04	27° m 32'20	1°25'38	superior conj	7784 Aug 28 10:51	12° m)21'41	1°09'53
minimum elong	7783 Sep 13 21:00	27° m) 20'57		minimum elong	7784 Aug 28 08:35	12° m 09'11	1°09'29
max. Earth dist.	7783 Sep 14 13:47	28° m 53'45		max. Earth dist.	7784 Aug 28 00:14	11° m)22'48	1.31696 AU
	7783 Sep 15 01:46	0∘ ⊽		evening rise	7784 Sep 04 05:18	27° m/11'30	
evening rise	7783 Sep 20 21:12	12° ≏ 33'47			7784 Sep 05 13:13	0∘ ⊽	
	7783 Sep 29 19:07	0°M			7784 Sep 22 09:47	0° M	
desc. node	7783 Oct 09 01:52	15°M14'00		desc. node	7784 Sep 24 22:55	3°M32'10	
	7783 Oct 20 20:50	0° ∡ ″		evening max el	7784 Oct 03 03:39	12°M56'18	26°17'55
evening max el	7783 Oct 22 03:45	1° ∤ 15'19	27°10'15	retrograde	7784 Oct 17 01:50	20°M01'35	
retrograde	7783 Nov 05 00:50	8° ≯ 26'51		evening set	7784 Oct 23 15:28	18° M 16'46	
evening set	7783 Nov 12 01:45	6° ҂ 14'03		min. Earth dist.	7784 Oct 27 16:53	15°M42'15	0.59049 AU
min. Earth dist.	7783 Nov 15 18:31	3° ₰ 30'02	0.61132 AU	inferior conj	7784 Oct 30 21:29	13°M17'43	-4°46'54
inferior conj	7783 Nov 18 20:46	0° ∡ °48'57		minimum elong	7784 Oct 31 04:20	13°M04'45	4°45'23
minimum elong	7783 Nov 19 03:32	0° ∡ ³34'13	3°44'12	morning rise	7784 Nov 07 19:28	8° M 46'17	
	7783 Nov 19 19:27	30°RM		direct	7784 Nov 10 02:04	8°M28'29	
morning rise	7783 Nov 26 07:34	25°M55'15		asc. node	7784 Nov 16 23:19	11°ML22'17	
direct	7783 Nov 28 13:04	25°M34'55		morning max el	7784 Nov 18 01:48	12°M22'10	18°24'50
asc. node	7783 Dec 01 02:17	26°M02'38			7784 Nov 29 21:05	0° ∡ ¹	
morning max el	7783 Dec 05 16:27	29°M10'00	17°56'31	morning set	7784 Dec 04 00:21	7° ∡ ¹49'07	
	7783 Dec 06 11:53	0° ⊀ 7			7701 P 12 21 21	0.40 3.50	100000
morning set	7783 Dec 21 08:40	23° ∡ ¹49'22		superior conj	7784 Dec 13 01:53	24° х 59'19	
	7783 Dec 24 17:42	0°ප		minimum elong	7784 Dec 13 05:23		1°02'04
					7784 Dec 15 19:55	0°ප	

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max. Earth dist.	7784 Dec 20 14:01	8° ප 22'05	1.40548 AU	minimum elong	7785 Nov 26 07:42	8° × 737'57	1°23'34
desc. node	7784 Dec 21 22:00	10° る 38'49		max. Earth dist.	7785 Dec 02 19:51	20° ₹ ¹50'57	1.38388 AU
evening rise	7784 Dec 24 23:51	15° る 48'23		evening rise	7785 Dec 06 13:54	27° ∡ ³31'15	
C	7785 Jan 02 22:03	0° ≈		· ·	7785 Dec 08 00:20	0°ರ	
	7785 Jan 24 17:59	0° ∀		desc. node	7785 Dec 08 19:00	1° る 19'42	
evening max el	7785 Jan 28 12:05	4°) €03'24	23°33'53		7785 Dec 27 09:49	0° ≈	
retrograde	7785 Feb 08 04:46	10°) 22′13		evening max el	7786 Jan 11 01:17	17° ≈ 49'15	24°51'58
asc. node	7785 Feb 12 22:28	8°) €32'32		retrograde	7786 Jan 22 19:02	24° ≈ 39′10	
evening set	7785 Feb 13 06:53	8° 升 15′18		evening set	7786 Jan 28 09:54	22° ≈ 18'49	
min. Earth dist.	7785 Feb 18 03:30	2°) €35'12	0.68269 AU	asc. node	7786 Jan 30 19:31	19° ≈ 52'44	
inferior conj	7785 Feb 18 17:07	1°) (48′34	1°48'19	min. Earth dist.	7786 Feb 01 22:38	17° ≈ 13′04	0.67788 AU
minimum elong	7785 Feb 18 15:01	1°) (55′45	1°47'39	inferior conj	7786 Feb 02 23:37	15° ≈ 50'38	1°02'03
	7785 Feb 20 01:15	30°R≈		minimum elong	7786 Feb 02 22:12	15° ≈ 55'20	1°01'34
morning rise	7785 Feb 23 23:07	25° ≈ 43'41		morning rise	7786 Feb 08 10:44	9° ≈ 52'46	
direct	7785 Feb 28 03:36	24° ≈ 05′27		direct	7786 Feb 12 02:22	8° ≈ 36′12	
morning max el	7785 Mar 08 09:26	28° ≈ 48'54	20°51'01	morning max el	7786 Feb 19 10:34	12° ≈ 42′18	19°42'10
	7785 Mar 09 12:56	0° ∀		greatest brilliancy	7786 Mar 04 05:11	29° ≈ 22'27	-0.6m
desc. node	7785 Mar 19 21:30	13°) (12′53			7786 Mar 04 15:23	0°)	
	7785 Mar 31 08:03	0 ° Υ		desc. node	7786 Mar 06 18:28	3° ₩ 09'38	
morning set	7785 Apr 07 08:22	10° Ƴ 46'34		morning set	7786 Mar 17 05:27	19° ₩ 04'01	
max. Earth dist.	7785 Apr 15 11:42	23° Y 43'27	1.42990 AU		7786 Mar 24 06:30	0° Y	
	7785 Apr 19 07:29	0° 8		max. Earth dist.	7786 Mar 28 23:22	7° Ƴ 24'31	1.44487 AU
	7705 4 22 00 10	50 00012	2007142		770(1 02 15 20	1.40005212.4	201.012.0
superior conj	7785 Apr 22 09:10	5° 8 08'13		superior conj	7786 Apr 02 15:38	14° Υ 53'24	
minimum elong	7785 Apr 22 12:42	5° 8 23'09	2°0/38	minimum elong	7786 Apr 02 13:13	14° Y 43'40	2°10′20
evening rise	7785 May 04 06:34	25° 8 50'40			7786 Apr 11 20:26	0°8	
,	7785 May 06 14:39	0° П		evening rise	7786 Apr 16 06:43	7° 8 27'11	
asc. node	7785 May 11 21:29	9° Ⅱ 12'19	10005126	asc. node	7786 Apr 28 18:31	27° 8 59'17	
evening max el	7785 May 21 01:36	22° I 107'01	18°05'36		7786 Apr 30 03:51	0°II	10012102
retrograde	7785 May 27 15:22	25° ∏ 29'31		evening max el	7786 May 04 14:50	5° Ⅱ 26'32	18°13'03
evening set	7785 May 30 06:22	24° I 57'03	2°35'17	retrograde	7786 May 11 00:08	8°Ⅱ49'38 8°Ⅱ04'36	
inferior conj	7785 Jun 05 19:41 7785 Jun 05 22:39	19° Ⅱ 56'21 19° Ⅱ 49'03	2°34'27	evening set	7786 May 13 22:10	8 П04 30 2°П45'20	3°09'30
minimum elong		19 Д 4903 16° Д 52'30	0.61240 AU	inferior conj	7786 May 19 22:57	2° ∏ 40'04	3°09'08
min. Earth dist.	7785 Jun 08 23:01 7785 Jun 12 12:41	16° Д 52′30 13° Д 57′33	0.61240 AU	minimum elong	7786 May 20 00:51 7786 May 22 10:48	30°R 8	3-0908
morning rise desc. node	7785 Jun 15 20:57	13 Д 3/33 12° Д 15'22		min Forth dist	7786 May 22 10:48	29° 8 52'36	0.63377 AU
direct	7785 Jun 19 04:51	12 II 13 22		min. Earth dist. morning rise	7786 May 26 02:12	29 8 32 30 26° 8 34'01	0.03377 AU
	7785 Jul 19 04.51	11 Д 41 33	27952150	•	,	23° 8 56'32	
morning max el	7785 Jul 03 10.30 7785 Jul 12 05:42	19 п 4111	27 33 30	direct desc. node	7786 Jun 01 20:43 7786 Jun 02 17:58	23° 8 59'01	
	7785 Jul 30 19:35	0°Ω 0 €3		desc. node	7786 Jun 13 17:17	0° Ⅱ	
morning set	7785 Aug 05 12:50	0 δ ε 11° Ω 18'11		morning max el	7786 Jun 15 19:01	1° II 58'58	27945140
asc. node	Č	16°Ω10'43		morning max er	7786 Jul 06 12:19	0.20 1 H2929	27 43 49
max. Earth dist.	7785 Aug 07 20:50 7785 Aug 11 09:10	23° Ω 45'04	1.31927 AU	morning set	7786 Jul 20 09:33	0 S 25°S13'53	
max. Earth dist.	7765 Aug 11 09.10	23 8643 04	1.31927 AU	morning set	7786 Jul 22 17:56	23 3 13 33	
superior conj	7785 Aug 12 21:23	27° Ω 03'38	0.040,50	max. Earth dist.	7786 Jul 25 12:35	5° Ω 48'16	1.32624 AU
minimum elong	7785 Aug 12 21:25	26° Ω 52'47		asc. node	7786 Jul 25 17:48	6° Ω 15'58	1.32024 AO
minimum clong	7785 Aug 14 05:24	0° m	0 49 03	asc. Houc	7760 Jul 23 17.46	0 061330	
evening rise	7785 Aug 14 05:24 7785 Aug 19 16:10	11° Mp 54'25		superior conj	7786 Jul 28 04:49	11° Ω 32'11	0°24'53
evening rise	7785 Aug 19 10:10 7785 Aug 28 18:31	ე° <u>ი</u>		minimum elong	7786 Jul 28 03:39	$11^{\circ}\Omega_{25'55}$	
desc. node	7785 Sep 11 19:58	0 = 20° £ 41'25		evening rise	7786 Aug 04 03:51	26° Ω 36'16	0 24 33
evening max el	7785 Sep 14 19:30	20 ≗ 41 23 23° £ 47'22	24056444	evening rise	7786 Aug 05 18:25	0° m	
evening max er	7785 Sep 24 04:17	0°M	24 30 44		7786 Aug 23 12:45	0∘ ऌ ० ।%	
retrograde	7785 Sep 28 16:06	0°M46'38		evening max el	7786 Aug 27 06:54	0 = 4° ჲ 05'08	23°10'27
retrograde	7785 Oct 03 04:39	ე იც40 ეგ 30° გ Ω		desc. node	7786 Aug 29 17:02	6° £ 14'43	23 1921
evening set	7785 Oct 03 04.39 7785 Oct 04 05:30	30 k== 29° Ω 36'55		retrograde	7786 Sep 09 18:22	0 ≥ 1443 10° ♀ 49'51	
min. Earth dist.	7785 Oct 04 03:30 7785 Oct 09 06:48		0.57083 AU	evening set	7786 Sep 13 20:17	10° ⊆ 4931 10° ⊆ 13'25	
inferior conj	7785 Oct 12 02:34	25° £ 02'30		min. Earth dist.	7786 Sep 20 16:19	7° £ 03'01	0.55547 AU
minimum elong	7785 Oct 12 02:34 7785 Oct 12 05:55	23 = 02 30 24° £ 56'59		inferior conj	7786 Sep 20 10:19	5° £ 59'22	
-	7785 Oct 12 05:55 7785 Oct 20 08:35	24° £ 36′39 20° £ 54′02	3 20 02		-	5° 2 239'22 6° 2 04'51	
morning rise				minimum elong	7786 Sep. 22 07:58		3 2331
direct	7785 Oct 22 20:58	20° £ 36'01	10014145	morning rise	7786 Sep 30 21:52	2° £ 07'44	
morning max el	7785 Nov 01 01:55	24° £ 58'06	19-14-45	direct	7786 Oct 03 20:17	1° £ 46'58	2002701
asc. node	7785 Nov 03 20:20	27° £ 58'31		morning max el	7786 Oct 14 13:53	6° £ 48'09	20°27'01
	7785 Nov 05 09:59	0°M 22°M 12!27		asc. node	7786 Oct 21 17:19	15° £ 34'59	
morning set	7785 Nov 18 00:59	22°M13'27			7786 Oct 29 21:35	0°M	
	7785 Nov 21 22:27	0° ≯		morning set	7786 Nov 02 07:27	6°M52'25	
superior conj	7785 Nov 26 04:47	8° ∡ 23'49	1°23'45	superior conj	7786 Nov 09 20:26	22°M24'09	1°36'28

minimum elong	7786 Nov 09 22:06	22° M 32'38	1°36'27		7787 Oct 06 04:35	0∘ ত	
minimum eiong	7786 Nov 13 15:52	22 IIL32 38 0° ⊼ 1	1 302/	asc. node	7787 Oct 08 04.33	0 <u>≈</u> 3° Ω 58'16	
max. Earth dist.	7786 Nov 15 13:32	0 x 2° x 49′27	1.36319 AU	morning set	7787 Oct 08 14:20	21° £ 39'46	
evening rise	7786 Nov 18 23:53	10°×706'59	1.50517710	morning set	7787 Oct 21 15:48	0°M	
desc. node	7786 Nov 25 16:02	21° х 51'54			7707 000 21 13.10	0 110	
dese. node	7786 Nov 30 15:27	0°ਰ		superior conj	7787 Oct 24 20:59	6°M49'15	1°41'32
	7786 Dec 23 00:18	0° ≈		minimum elong	7787 Oct 24 21:18	6°M50'54	1°41'36
evening max el	7786 Dec 24 14:13	1° ≈ 35'17	26°01'23	max. Earth dist.	7787 Oct 28 16:15	14°M42'01	1.34548 AU
retrograde	7787 Jan 06 04:35	8°≈45'30		evening rise	7787 Nov 02 02:02	23°M26'04	
evening set	7787 Jan 12 08:04	6°≈14'45		<i>3</i>	7787 Nov 05 13:48	0° ⊼	
min. Earth dist.	7787 Jan 16 14:02	1° ≈ 43'33	0.66928 AU	desc. node	7787 Nov 12 13:04	12° ҂ 10′20	
asc. node	7787 Jan 17 16:34	0° ≈ 20'59			7787 Nov 24 06:57	8°0	
	7787 Jan 17 23:17	30°R₹		evening max el	7787 Dec 07 03:26	15° る 15'13	26°54'43
inferior conj	7787 Jan 18 02:24	29° る 50'14	0°08'13	retrograde	7787 Dec 20 08:31	22° る 34'08	
minimum elong	7787 Jan 18 02:11	29° る 50'55	0°08'14	evening set	7787 Dec 26 23:26	19° る 57'53	
transit middle	7787 Jan 18 02:11	29° る 50'55	0°08'14	min. Earth dist.	7787 Dec 30 23:27	16° ප 01'05	0.65706 AU
transit begin	7787 Jan 17 23:44	29° る 58'33		inferior conj	7788 Jan 01 23:21	13° る 42'52	-0°52'28
transit end	7787 Jan 18 04:38	29° る 43'17		minimum elong	7788 Jan 02 00:52	13° る 38'30	0°51'42
morning rise	7787 Jan 23 20:55	24° る 01'17		asc. node	7788 Jan 04 13:39	10° る 51'43	
direct	7787 Jan 27 01:13	23° る 03'37		morning rise	7788 Jan 08 03:23	8° る 05'17	
morning max el	7787 Feb 02 19:13	26° る 44'39	18°48'37	direct	7788 Jan 10 22:14	7° る 22'51	
	7787 Feb 05 17:16	0° ≈		morning max el	7788 Jan 17 09:24	10° る 50'01	18°11'34
desc. node	7787 Feb 21 15:28	23° ≈ 25'30			7788 Jan 30 22:06	0° ≈	
morning set	7787 Feb 24 15:14	28° ≈ 06'01		morning set	7788 Feb 05 05:10	8° ≈ 34'20	
	7787 Feb 25 20:22	0° ∀		desc. node	7788 Feb 08 12:26	13° ≈ 54'56	
max. Earth dist.	7787 Mar 11 16:04	21° X 37'11	1.45333 AU		7788 Feb 18 14:27	0° ∀	
superior conj	7787 Mar 13 01:49	23°) 49′38	-1°53'11	superior conj	7788 Feb 20 06:57	2°) (39′30	-1°17'52
minimum elong	7787 Mar 12 17:12	23°) 15′48	1°52'32	minimum elong	7788 Feb 19 22:11	2°) €05'02	1°16'47
	7787 Mar 16 23:54	$0^{\circ}\mathbf{\Upsilon}$		max. Earth dist.	7788 Feb 22 11:28	6° ₩ 05'37	1.45449 AU
evening rise	7787 Mar 28 07:47	18° Ƴ 05'15		evening rise	7788 Mar 07 10:29	27° ¥ 51'40	
greatest brilliancy	7787 Apr 03 14:50	28° Ƴ 14'53	-0.9m		7788 Mar 08 19:28	$0^{\circ}\Upsilon$	
	7787 Apr 04 17:02	9° 8		greatest brilliancy	7788 Mar 19 10:35	16° Ƴ 24'33	-0.7m
asc. node	7787 Apr 15 15:34	16° 8 10'24			7788 Mar 29 04:01	0°B	
evening max el	7787 Apr 18 02:41	18° 8 56'51	18°38'44	evening max el	7788 Mar 31 10:55	2° 8 32'24	19°21'29
retrograde	7787 Apr 24 16:31	22° 8 33'26		asc. node	7788 Apr 01 12:39	3° 8 34'21	
evening set	7787 Apr 27 21:44	21° 8 34'40		retrograde	7788 Apr 07 13:13	6° 8 34'00	
inferior conj	7787 May 03 13:52	15° 8 58'30		evening set	7788 Apr 11 02:15	5° 8 20'42	
minimum elong	7787 May 03 14:23	15° 8 56'57			7788 Apr 16 03:27	30°₹ Υ	2022/20
min. Earth dist.	7787 May 05 13:20		0.65222 AU	inferior conj	7788 Apr 16 12:58	29° Υ 29'03	
morning rise	7787 May 09 06:18	9° 8 41'55		minimum elong	7788 Apr 16 12:14	29° Υ 31'28 27° Υ 44'08	3°22'22 0.66671 AU
direct desc. node	7787 May 15 20:30	6° と 54'45 8° と 07'42		min. Earth dist.	7788 Apr 17 21:11	27° γ 44′08 23° γ 11'39	0.000/1 AU
morning max el	7787 May 20 15:00 7787 May 29 05:16	14° 8 48'05	27904102	morning rise direct	7788 Apr 21 21:52 7788 Apr 28 02:42	23° γ 11'39 20° γ 27'06	
morning max er	7787 Jun 10 14:40	0°II	27 04 03	desc. node	7788 May 06 12:01	20 γ 27 00 24° γ 10'22	
	7787 Jun 29 05:47	0°ಅ		morning max el	7788 May 10 15:12	24 γ 10 22 27° Υ 56'01	25°56'22
morning set	7787 Jul 03 20:36	8°938'53		morning max cr	7788 May 12 14:10	0° 8	23 30 22
max. Earth dist.	7787 Jul 08 06:43	17° 5 23'48	1.33803 AU		7788 Jun 03 08:00	0°II	
man. Burur uiov.	770700	17 - 23 10	1.55005110	morning set	7788 Jun 15 18:08	21° ∏ 21'42	
superior conj	7787 Jul 12 07:04	25°541'32	-0°03'17	max. Earth dist.	7788 Jun 19 13:47		1.35460 AU
minimum elong	7787 Jul 12 07:14	25°542'29			7788 Jun 20 07:47	0°95	
behind sun begin	7787 Jul 12 01:43	25°513'29					
behind sun end	7787 Jul 12 12:46	26°©11'31		superior conj	7788 Jun 25 01:30	9° 5 23'42	-0°33'59
asc. node	7787 Jul 12 14:48	26°522'13		minimum elong	7788 Jun 25 03:28	9° © 33'43	0°33'43
	7787 Jul 14 08:00	$0^{\circ}\Omega$		asc. node	7788 Jun 28 11:48	16° © 24'48	
evening rise	7787 Jul 19 14:29	11° Ω 11'24		evening rise	7788 Jul 02 21:56	25° © 32'57	
	7787 Jul 29 07:25	0° m			7788 Jul 05 02:26	$0^{\circ}\Omega$	
evening max el	7787 Aug 08 22:28	14° m 24'39	21°42'46	evening max el	7788 Jul 21 01:19	25° Ω 15'14	20°19'28
desc. node	7787 Aug 16 14:06	19° m 40'20			7788 Jul 28 05:03	0° m	
retrograde	7787 Aug 21 09:34	20° m 35'31		retrograde	7788 Jul 31 22:01	0° Mp 36′43	
evening set	7787 Aug 24 01:56	20° m 19'17		desc. node	7788 Aug 02 11:11	0° ™ 30′38	
inferior conj	7787 Sep 02 06:54	16° m 19'46		evening set	7788 Aug 02 21:10	0° Mp 26′58	
minimum elong	7787 Sep 01 21:45	16° My 32′35			7788 Aug 04 18:59	30°R€	
min. Earth dist.	7787 Sep 02 01:15		0.54759 AU	inferior conj	7788 Aug 12 00:45	26° Ω 29'20	
morning rise	7787 Sep 10 18:44	12° m 29'43		minimum elong	7788 Aug 11 17:00	26° Ω 40'39	
direct	7787 Sep 14 06:42	12° m 02'57		min. Earth dist.	7788 Aug 13 11:31		0.54907 AU
morning max el	7787 Sep 26 13:15	17° m 50'26	21°59'18	morning rise	7788 Aug 20 11:54	22° Ω 21′03	

direct	7788 Aug 24 16:50	21° Ω 42'55		direct	7789 Aug 05 13:15	1° Ω 20'04	
morning max el	7788 Sep 07 03:44	28°Ω15'36	23°43'55	morning max el	7789 Aug 19 16:29	8°Ω30'15	25°26'29
morning max or	7788 Sep 08 21:51	0° m	23 13 33	morning max er	7789 Sep 04 16:13	0°m)	23 20 23
asc. node	7788 Sep 24 11:21	22° m 56'37		asc. node	7789 Sep 11 08:19	12° m/20'50	
	7788 Sep 28 01:56	0∘ ʊ		morning set	7789 Sep 15 16:31	21° mp 18'07	
morning set	7788 Oct 01 05:00	6° £ 30'05		, , , , , , , , , , , , , , , , , , ,	7789 Sep 19 16:44	0∘ <u>⊽</u>	
superior conj	7788 Oct 08 03:30	21° ≏ 30′10	1°39'56	superior conj	7789 Sep 22 13:36	6° ₽ 19'22	1°32'24
minimum elong	7788 Oct 08 02:38	21° ≏ 25'27	1°39'56	minimum elong	7789 Sep 22 11:51	6° ≙ 09'48	1°32'16
max. Earth dist.	7788 Oct 10 14:22	26° ≏ 46'10	1.33174 AU	max. Earth dist.	7789 Sep 23 19:45	9° ഫ 05'01	1.32240 AU
	7788 Oct 12 03:04	0° M		evening rise	7789 Sep 29 15:47	21° ≏ 33'56	
evening rise	7788 Oct 15 16:27	7°M18'12			7789 Oct 03 20:36	0° M	
	7788 Oct 28 02:31	0°⊀		desc. node	7789 Oct 16 07:11	21°M38'24	
desc. node	7788 Oct 29 10:08	2° ∡ 108'47			7789 Oct 22 02:24	0° ∡ 7	
evening max el	7788 Nov 18 15:59	28° ₹ 38'24	27°24'42	evening max el	7789 Nov 01 01:31	11° 🗷 30'35	27°25'04
. 1	7788 Nov 20 03:39	0°る		retrograde	7789 Nov 14 20:31	18° 🖈 45'11	
retrograde	7788 Dec 02 06:03	5°る57'13		evening set	7789 Nov 21 23:25	16° ₹ 20'55	0.62207.444
evening set	7788 Dec 09 05:37	3°る22'24 29°₹58'37	O CA140 ATT	min. Earth dist.	7789 Nov 25 15:28 7789 Nov 28 13:25	13° 🖈 25'24	0.62297 AU
min. Earth dist.	7788 Dec 13 00:33 7788 Dec 13 00:01	29° × °38'37	0.64148 AU	inferior conj		10° ₹ 42'18 10° ₹ 28'40	3°05'17
inferior conj	7788 Dec 15 10:01	30 KX. 27° ₹ 22'55	1050!26	minimum elong morning rise	7789 Nov 28 19:14 7789 Dec 05 17:07	5° × 37'08	3 03 17
minimum elong	7788 Dec 15 15:41	27° 🖈 12'19	1°56'59	direct	7789 Dec 03 17:07 7789 Dec 07 23:59	5° ₹ 13'49	
asc. node	7788 Dec 21 10:44	22°×13'19'07	1 30 39	asc. node	7789 Dec 07 23:39 7789 Dec 08 07:47	5°×1349	
morning rise	7788 Dec 21 10:44 7788 Dec 22 03:21	21° х 1907		morning max el	7789 Dec 14 19:13	8° √ 141'42	170/10/23
direct	7788 Dec 24 14:56	21° × 28'44		morning max ci	7789 Dec 28 18:50	0°る	17 4723
morning max el	7788 Dec 31 02:26	24° х 20 44	17°51'36	morning set	7789 Dec 30 16:15	3° る 22'20	
morning max cr	7789 Jan 04 08:25	ਰੂ ਹ°ਰ	17 3130	morning set	7707 Dec 30 10.13	3 022 20	
morning set	7789 Jan 16 23:34	20° පි 26'38		superior conj	7790 Jan 10 22:00	23° ප 01'00	0°09'52
	7789 Jan 22 15:32	0°≈		minimum elong	7790 Jan 10 22:57	23° る 05'00	0°09'50
desc. node	7789 Jan 25 09:25	4° ≈ 33'39		behind sun begin	7790 Jan 10 15:54	22° る 35'09	
				behind sun end	7790 Jan 11 05:59	23° る 34'46	
superior conj	7789 Jan 30 02:09	12° ≈ 14'17	-0°33'26	desc. node	7790 Jan 12 06:22	25° る 17'25	
minimum elong	7789 Jan 29 22:20	11° ≈ 58'54	0°32'48		7790 Jan 15 02:20	0° ≈	
max. Earth dist.	7789 Feb 04 06:56	20° ≈ 33'32	1.44824 AU	max. Earth dist.	7790 Jan 17 23:16	4° ≈ 41'34	1.43534 AU
	7789 Feb 10 07:26	0°) €		evening rise	7790 Jan 25 12:35	16° ≈ 40′20	
evening rise	7789 Feb 14 23:17	7°) 1 1′42			7790 Feb 03 06:43	0° ∀	
	7789 Mar 02 03:33	0° Y		evening max el	7790 Feb 25 11:36	29°) 48′59	21°29'37
evening max el	7789 Mar 14 14:04	16° Ƴ 10′30	20°19'25		7790 Feb 25 15:58	0 ° Υ	
asc. node	7789 Mar 19 09:45	19° Ƴ 58'08		retrograde	7790 Mar 06 09:45	5° ℃ 05'51	
retrograde	7789 Mar 22 11:38	20° Ƴ 46'39		asc. node	7790 Mar 06 06:51	5° Y 05'46	
evening set	7789 Mar 26 09:28	19° Ƴ 18'18		evening set	7790 Mar 10 17:33	3° Y 22′18	
inferior conj	7789 Mar 31 17:29	13° Y 13′02	3°08'44		7790 Mar 13 21:31	30° ₹	
minimum elong	7789 Mar 31 15:49	13° Y 18'42	3°08'28	inferior conj	7790 Mar 16 01:02	27° ₩ 05'53	2°44'37
min. Earth dist.	7789 Apr 01 11:26	12°Υ11'53	0.67676 AU	minimum elong	7790 Mar 15 22:51	27°) 13'26	2°44'06
morning rise	7789 Apr 05 21:58	6°Υ57'10		min. Earth dist.	7790 Mar 16 05:59	26°) (48'39	0.68234 AU
direct	7789 Apr 11 14:15	4° Υ 25'12	2.402.212.77	morning rise	7790 Mar 21 04:00	20° X 53'06	
morning max el	7789 Apr 23 00:17	11° Υ 15'08 11° Υ 37'24	24°32'37	direct	7790 Mar 26 06:20 7790 Apr 05 10:02	18°) 40'02 24°) 41'16	23°02'57
desc. node	7789 Apr 23 09:01 7789 May 07 23:17	0° 8		morning max el desc. node	7790 Apr 03 10.02 7790 Apr 10 05:58	0° Υ 04'44	23 02 37
	7789 May 07 23.17 7789 May 27 01:32	0°II		desc. Hode	7790 Apr 10 03:38 7790 Apr 10 04:24	0°Υ°	
morning set	7789 May 27 01:32	3° Ⅱ 10'05			7790 May 01 10:17	0° 8	
max. Earth dist.	7789 Jun 01 12:23		1.37507 AU	morning set	7790 May 10 00:33	13° 8 49'52	
max. Lartii dist.	7707 Juli 01 12.23) 11 3031	1.57507 110	max. Earth dist.	7790 May 14 08:37	21° 8 10'38	1.39738 AU
superior conj	7789 Jun 08 08:59	22° ∏ 31′08	-1°05'31	man. Barar alov.	7790 May 19 08:49	0°II	1.59,750110
minimum elong	7789 Jun 08 12:57	22° I I50'23			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· —	
	7789 Jun 12 04:32	0ಂತಾ		superior conj	7790 May 22 01:30	4° ∏ 54'02	-1°35'12
asc. node	7789 Jun 15 08:50	6°520'11		minimum elong	7790 May 22 07:00	5° Ⅱ 19'19	
evening rise	7789 Jun 16 23:51	9° 5 34'48		evening rise	7790 May 31 17:11	23° I 109'00	
-	7789 Jun 28 06:11	$0^{\circ}\Omega$		asc. node	7790 Jun 02 05:52	26° Ⅱ 04'09	
evening max el	7789 Jul 03 17:10	6° Ω 49'29	19°15'36		7790 Jun 04 07:50	0 \circ \odot	
retrograde	7789 Jul 12 21:12	11° Ω 20′58		evening max el	7790 Jun 16 19:44	19° © 05'32	18°32'37
evening set	7789 Jul 14 18:40	11° Ω 10′11		retrograde	7790 Jun 24 14:44	22° © 58'00	
desc. node	7789 Jul 20 08:15	8° Ω 53'17		evening set	7790 Jun 26 17:53	22° 5 41'32	
inferior conj	7789 Jul 23 07:22	7° Ω 00′24		inferior conj	7790 Jul 04 10:49	18° © 12'54	0°48'52
minimum elong	7789 Jul 23 04:59	7° Ω 04'22		minimum elong	7790 Jul 04 12:33	18° © 09'31	0°48'07
min. Earth dist.	7789 Jul 26 00:44	5° Ω 12'20	0.55980 AU	desc. node	7790 Jul 07 05:17	16°503'44	
morning rise	7789 Jul 31 12:27	2° Ω 18′04		min. Earth dist.	7790 Jul 07 18:56	15° © 38'12	0.57766 AU

morning rise	7790 Jul 12 03:45	12° © 53'47		morning rise	7791 Jun 23 13:19	24° Ⅱ 20′39	
direct	7790 Jul 18 00:14	11° © 26'44		desc. node	7791 Jun 24 02:20	24° Ⅱ 01'37	
morning max el	7790 Aug 01 09:32	19° © 04'22	26°49'57	direct	7791 Jun 30 00:38	22° II 21'13	
	7790 Aug 10 15:21	$0^{\circ}\Omega$			7791 Jul 14 02:40	0 \circ \odot	
	7790 Aug 28 05:03	0° m		morning max el	7791 Jul 14 09:05	0°\$15'44	27°41'17
asc. node	7790 Aug 29 05:17	2° Mp 03'54		-	7791 Aug 04 17:10	$0^{\circ}\Omega$	
morning set	7790 Aug 31 02:20	5° m 59'16		morning set	7791 Aug 15 08:41	20° Ω 27'18	
C	Č			asc. node	7791 Aug 16 02:15	21° Ω 59'18	
superior conj	7790 Sep 07 01:18	21°Mp10'51	1°19'32		7791 Aug 19 19:45	0° m	
minimum elong	7790 Sep 06 23:06	20° m 58'40	1°19'13	max. Earth dist.	7791 Aug 21 15:22	3° m 59'38	1.31731 AU
max. Earth dist.	7790 Sep 07 05:18	21° m 32'59	1.31757 AU				
	7790 Sep 11 01:18	0∘ ʊ		superior conj	7791 Aug 22 12:46	5° ₪ 57'52	1°01'47
evening rise	7790 Sep 13 21:22	6° £ 05'51		minimum elong	7791 Aug 22 10:34	5° m 45'43	1°01'21
evening rise	7790 Sep 26 10:25	0°M		evening rise	7791 Aug 29 06:52	20° Mp 46'20	1 0121
desc. node	7790 Oct 03 04:15	10°M27'34		evening rise	7791 Sep 02 17:47	20 1 ણ 1 0 20	
evening max el	7790 Oct 14 05:23	23°M39'34	26°52'00	desc. node	7791 Sep 02 17:47 7791 Sep 20 01:19	0 — 28° ⊆ 19'18	
evening max ci	7790 Oct 14 05:23 7790 Oct 23 16:12	23 11 6 3934	20 32 00	desc. node	7791 Sep 20 01:19	0°M	
		0° х ⁴49'04			=		25946122
retrograde	7790 Oct 28 03:08			evening max el	7791 Sep 26 01:40	4°M58'07	25-46-22
	7790 Nov 01 11:30	30°RM.		retrograde	7791 Oct 10 00:11	12°M01'51	
evening set	7790 Nov 04 00:50	28°M46'32	0.60045.477	evening set	7791 Oct 16 04:53	10°M31'36	0.50154.444
min. Earth dist.	7790 Nov 07 19:37		0.60245 AU	min. Earth dist.	7791 Oct 20 14:11	7°M55'28	0.58174 AU
inferior conj	7790 Nov 11 00:07	23°M32'22		inferior conj	7791 Oct 23 16:40	5°M43'00	
minimum elong	7790 Nov 11 07:14	23°M17'44	4°11'37	minimum elong	7791 Oct 23 22:34	5°M32'29	5°06'17
morning rise	7790 Nov 18 16:00	18° M 48'17		morning rise	7791 Oct 31 18:34	1°M21'33	
direct	7790 Nov 20 21:23	18°M29'27		direct	7791 Nov 03 02:49	1° M 04'07	
asc. node	7790 Nov 25 04:47	19° M 43'47		morning max el	7791 Nov 11 14:15	5° ™ 09'05	18°43'24
morning max el	7790 Nov 28 08:23	22°M11'06	18°06'06	asc. node	7791 Nov 12 01:46	5° ™ 37'31	
	7790 Dec 04 09:39	0° ∡ ¹			7791 Nov 27 05:41	0° ∡ ¹	
morning set	7790 Dec 14 01:01	17° ∡ ¹03'04		morning set	7791 Nov 27 20:56	1° ≮ 14'13	
	7790 Dec 21 00:31	ರ°0					
				superior conj	7791 Dec 06 12:18	17° ∡ 756′26	1°12'34
superior conj	7790 Dec 23 18:55	4° る 59'37	0°45'50	minimum elong	7791 Dec 06 15:41	18° ∡ 12'21	1°12'17
minimum elong	7790 Dec 23 22:07	5° る 13'55	0°45'31		7791 Dec 13 02:37	0°₹	
desc. node	7790 Dec 30 03:22	16° පි 03'02		max. Earth dist.	7791 Dec 13 17:06	1° る 03'54	1.39630 AU
max. Earth dist.	7790 Dec 31 10:25	18° ප 13'56	1.41732 AU	desc. node	7791 Dec 17 00:22	6° ප 46'42	
evening rise	7791 Jan 05 16:26	26° ප 51'17		evening rise	7791 Dec 17 17:45	8° ප 00'21	
C	7791 Jan 07 15:42	0° ≈		C	7791 Dec 31 15:32	0° ≈	
	7791 Jan 28 00:35	0°) €		evening max el	7792 Jan 21 18:30	27° ≈ 14'06	24°07'47
evening max el	7791 Feb 08 04:25	13°) €29'28	22°47'39	<i>8</i>	7792 Jan 24 19:11	0°) €	
retrograde	7791 Feb 18 05:49	19°) €27'30		retrograde	7792 Feb 01 22:32	3°) (47′39	
asc. node	7791 Feb 21 03:55	18°)(44'27		evening set	7792 Feb 07 05:53	1°) 35′01	
evening set	7791 Feb 23 00:51	17°) (29'01		asc. node	7792 Feb 08 00:58	0°) 51'31	
inferior conj	7791 Feb 28 09:37	11°) (25°01	2°11'20	use. Houe	7792 Feb 08 20:56	30°R≈	
minimum elong	7791 Feb 28 07:22	11° X 12'36	2°10'40	min. Earth dist.	7792 Feb 11 23:02	26°≈09'14	0.68108 AU
min. Earth dist.	7791 Feb 28 02:37	11° H 29'03	0.68370 AU	inferior conj	7792 Feb 12 17:26	25°≈07'01	1°29'40
morning rise	7791 Mar 05 13:46	4° H 56'22	0.00370710	minimum elong	7792 Feb 12 17:20 7792 Feb 12 15:34	25°≈13'21	1°29'03
direct	7791 Mar 10 01:59	3° ∺ 05'16		morning rise	7792 Feb 18 01:18	19°≈04'38	1 29 03
morning max el	7791 Mar 10 01:39	8° H 15'48	21026124	direct	7792 Feb 18 01:18 7792 Feb 22 00:10	17°≈35'44	
desc. node	7791 Mar 18 23:32 7791 Mar 28 02:56	19° X 15'45	21 30 24	morning max el	7792 Feb 22 00:10 7792 Feb 29 19:57	22°≈02'08	20010154
desc. Hode		19 γ (1343		morning max ci	7792 Mar 07 13:16	0° \	20 19 34
	7791 Apr 04 18:26			JJ.		8°) 58'43	
morning set	7791 Apr 20 00:01	23° Y 12'18		desc. node	7792 Mar 13 23:54	8°π3843 0°Υ	
E d E d	7791 Apr 24 05:17	0° 8	1 41001 411		7792 Mar 28 00:09		
max. Earth dist.	7791 Apr 26 08:40	3°031'00	1.41891 AU	morning set	7792 Mar 29 01:17	1° Υ 37'01	1 12 600 177
		1.50 10.11.5	1050155	max. Earth dist.	7792 Apr 07 16:11	16°'Y'45'59	1.43698 AU
superior conj	7791 May 03 22:18	16° 8 21'15					
minimum elong	7791 May 04 03:31	16° 8 43'58	1°58'38	superior conj	7792 Apr 13 19:17	26° Y 44'49	
	7791 May 11 14:05	$0^{\circ}\Pi$		minimum elong	7792 Apr 13 20:42	26° Y 50'40	2°11'04
evening rise	7791 May 14 22:05	6° Ⅱ 05'15			7792 Apr 15 18:18	0° 8	
asc. node	7791 May 20 02:54	15° ∏ 31′08		evening rise	7792 Apr 26 10:03	18° 8 13'46	
	7791 May 29 11:21	0			7792 May 03 05:23	Π $^{\circ}0$	
evening max el	7791 May 31 05:18	1° 9 54'01	18°09'54	asc. node	7792 May 05 23:58	4° Ⅱ 35'16	
retrograde	7791 Jun 07 02:28	5° 5 22'49		evening max el	7792 May 13 18:14	15° Ⅱ 05'31	18°06'32
evening set	7791 Jun 09 13:10	4° 9 56'59		retrograde	7792 May 20 04:48	18° Ⅱ 26'14	
inferior conj	7791 Jun 16 11:34	0° © 08'05	2°04'30	evening set	7792 May 22 22:53	17° Ⅱ 48'33	
minimum elong	7791 Jun 16 14:40	0° © 01'01	2°03'29	inferior conj	7792 May 29 06:23	12° Ⅱ 40′00	
	7791 Jun 16 15:07	30°RⅡ		minimum elong	7792 May 29 08:59	12° Ⅱ 33'15	2°51'53
min. Earth dist.	7791 Jun 19 19:49	27° Ⅲ 07'33	0.59945 AU	min. Earth dist.	7792 Jun 01 04:57	9° Ⅱ 38'16	0.62181 AU

morning rise	7792 Jun 04 17:16	6° Ⅱ 35'04		morning rise	7793 May 18 13:23	19° 8 26'08	
desc. node	7792 Jun 09 23:22	4° Ⅱ 15'36		direct	7793 May 25 06:50	16° 8 43'14	
direct	7792 Jun 11 11:35	4° Ⅱ 08'32		desc. node	7793 May 27 20:24	17° 8 04'15	
morning max el	7792 Jun 25 14:34	12° Ⅱ 10′12	27°54'48	morning max el	7793 Jun 07 23:52	24° 8 42'24	27°31'43
	7792 Jul 09 17:32	0°ಲಾ			7793 Jun 12 18:53	$\Pi^{\circ}0$	
	7792 Jul 27 02:22	$0^{\circ}\Omega$			7793 Jul 03 04:05	0ංම	
morning set	7792 Jul 29 09:35	4° Ω 36'43		morning set	7793 Jul 13 02:34	18°9520'18	
asc. node	7792 Aug 01 23:14	12° Ω 02'27		max. Earth dist.	7793 Jul 17 22:15	28°907'08	1.33074 AU
max. Earth dist.	7792 Aug 01 23:14 7792 Aug 03 22:17	16°Ω14'28	1.32169 AU	max. Larm dist.	7793 Jul 18 19:50	0°Ω	1.55074 AC
max. Earm dist.	7792 Aug 03 22.17	10 061420	1.32109 AU	1			
	5500 t 05 00 tt	200 025104	0020122	asc. node	7793 Jul 19 20:15	2° Ω 08'49	
superior conj	7792 Aug 05 22:14	20° Ω 35'04					
minimum elong	7792 Aug 05 20:32	20° Ω 25'49	0°39'07	superior conj	7793 Jul 21 03:45	4° Ω 56'21	0°13'20
	7792 Aug 10 05:22	0° m		minimum elong	7793 Jul 21 03:05	4° Ω 52'50	0°13'06
evening rise	7792 Aug 12 18:19	5° ™ 29'40		behind sun begin	7793 Jul 20 23:57	4° Ω 36′03	
	7792 Aug 25 15:16	0∘ ত		behind sun end	7793 Jul 21 06:14	5° Ω 09'39	
desc. node	7792 Sep 05 22:23	14° £ 51'25		evening rise	7793 Jul 28 05:49	20° Ω 09'45	
evening max el	7792 Sep 06 15:03	15° ≏ 32'19	24°16'21	Ü	7793 Aug 02 00:40	0° m	
retrograde	7792 Sep 20 09:11	22° ჲ 26'23		evening max el	7793 Aug 19 03:09	25° m 46'35	22°37'16
evening set	7792 Sep 25 08:12	21° £ 32'06		desc. node	7793 Aug 23 19:28	29° m/34'50	22 37 10
-	•	18° £ 39'06	0.56260 ATT	uese. Houe	-	0° ∵	
min. Earth dist.	7792 Oct 01 01:55		0.56360 AU		7793 Aug 24 11:42		
inferior conj	7792 Oct 03 13:00	17° ≏ 07'11		retrograde	7793 Sep 01 05:48	2° ≙ 19'00	
minimum elong	7792 Oct 03 13:36	17° ≏ 06'15	5°32'15	evening set	7793 Sep 04 16:32	1° £ 52'56	
morning rise	7792 Oct 11 21:09	13° ≏ 06'39			7793 Sep 09 13:29	30°R, Mp	
direct	7792 Oct 14 13:22	12° ≏ 47'42		min. Earth dist.	7793 Sep 12 10:31	28° m 26'57	0.55109 AU
morning max el	7792 Oct 24 09:19	17° ≏ 25'36	19°42'47	inferior conj	7793 Sep 13 15:04	27° Mp 46'23	-5°10'09
asc. node	7792 Oct 28 22:46	22° £ 40'51		minimum elong	7793 Sep 13 08:23	27° m 55'54	5°09'10
	7792 Nov 02 17:05	0° M .		morning rise	7793 Sep 22 02:10	23° m 58'02	
morning set	7792 Nov 11 00:20	15°M45'24		direct	7793 Sep 25 06:16	23° m 35'03	
morning sec	7792 Nov 18 01:31	0° √		morning max el	7793 Oct 06 15:40	28° m 54'52	21°04'11
	7772 NOV 10 01.31	0 ^		morning max ci			21 0411
	7702) 10 21 04	10 707101	1020100	1	7793 Oct 07 18:20	0° ⊽	
superior conj	7792 Nov 18 21:04	1° × 37'01	1°30'09	asc. node	7793 Oct 15 19:47	10° £ 39'08	
minimum elong	7792 Nov 18 23:30	1° ≯ 49'03	1°30'03	morning set	7793 Oct 26 08:35	0°M29'28	
max. Earth dist.	7792 Nov 24 22:51	13° ∡ 17'41	1.37484 AU		7793 Oct 26 02:54	0° M	
evening rise	7792 Nov 28 16:40	20° ∡ ¹06'38					
desc. node	7792 Dec 02 21:23	27° ∡ ¹24'24		superior conj	7793 Nov 02 16:56	15°M49'36	1°39'30
	7792 Dec 04 10:25	o°ප		minimum elong	7793 Nov 02 18:02	15°M55'14	1°39'32
	7792 Dec 24 17:13	0° ≈		max. Earth dist.	7793 Nov 07 08:31	25°M13'13	1.35521 AU
evening max el	7793 Jan 03 07:39	11°≈01'20	25°23'10		7793 Nov 09 19:33	0° ∡¹	
retrograde	7793 Jan 15 10:44	18° ≈ 00'42	23 23 10	evening rise	7793 Nov 11 10:03	3° ∡ *02'26	
evening set	7793 Jan 21 07:02	15°≈35'44		desc. node	7793 Nov 11 10:03	17° 🖈 51'55	
-				desc. Hode		0°る	
asc. node	7793 Jan 24 22:02	11°≈44′03			7793 Nov 27 09:14		
min. Earth dist.	7793 Jan 25 16:53	10° ≈ 44'35	0.67465 AU	evening max el	7793 Dec 16 20:49	24° る 46'27	26°26'29
inferior conj	7793 Jan 26 22:37	9° ≈ 08'41	0°40'07		7793 Dec 23 10:23	0° ≈	
minimum elong	7793 Jan 26 21:38	9° ≈ 11'50	0°39'49	retrograde	7793 Dec 29 17:49	2° ≈ 01'04	
morning rise	7793 Feb 01 12:35	3° ≈ 14'13			7794 Jan 04 09:34	30°Ŗる	
direct	7793 Feb 04 23:17	2° ≈ 05'54		evening set	7794 Jan 05 02:34	29° る 27'09	
morning max el	7793 Feb 12 00:21	5° ≈ 59'36	19°17'27	min. Earth dist.	7794 Jan 09 05:54	25° ප 10'55	0.66453 AU
greatest brilliancy	7793 Feb 25 03:36	23° ≈ 26'58	-0.7m	inferior conj	7794 Jan 10 23:12	23° පි 06'15	-0°16'43
desc. node	7793 Feb 28 20:51	29°≈04'32		minimum elong	7794 Jan 10 23:39	23° る 04'52	0°16'25
	7793 Mar 01 11:24	0°) €		asc. node	7794 Jan 11 19:05	22° る 06'34	
morning set	7793 Mar 08 00:57	10°) € 05'46		morning rise	7794 Jan 16 21:31	22 000 34 17° る 21'59	
morning set		10 χ03 40 0° Υ		=			
P. J. P.	7793 Mar 20 19:28		1 11020 177	direct	7794 Jan 19 21:39	16° පි 31'10	10020154
max. Earth dist.	7793 Mar 21 06:45	0° Ƴ 44'27	1.44939 AU	morning max el	7794 Jan 26 11:42	20° る 04'38	18°30'54
					7794 Feb 03 06:02	0° ≈	
superior conj	7793 Mar 24 16:00	6° Ƴ 06'07	-2°05'35	morning set	7794 Feb 15 21:55	19° ≈ 43'15	
minimum elong	7793 Mar 24 10:34	5° Ƴ 44'30	2°05'22	desc. node	7794 Feb 15 17:51	19° ≈ 27'08	
evening rise	7793 Apr 08 00:39	29° Y 25'48			7794 Feb 22 09:58	0° ∀	
-	7793 Apr 08 08:55	0°8					
asc. node	7793 Apr 22 21:02	23° 8 08'28		superior conj	7794 Mar 03 21:38	14°) 53′08	-1°40'01
evening max el	7793 Apr 27 07:16	28° 8 30'53	18°21'47	minimum elong	7794 Mar 03 12:03	14°) 15'36	
Svening max ci	7793 Apr 28 23:00	0°II	10 21 7/	max. Earth dist.	7794 Mar 04 01:29		1.45477 AU
	•			max. Earth tist.			1. 7.7/ // AU
retrograde	7793 May 03 17:16	1° Ⅱ 57'52			7794 Mar 13 12:48	0° Υ	
evening set	7793 May 06 18:26	1° Ⅱ 06'54		evening rise	7794 Mar 19 15:49	9° Y 40'59	
	7793 May 08 09:42	30° ₹8		greatest brilliancy	7794 Mar 28 18:27	24° Y 05'40	-0.8m
inferior conj	7793 May 12 15:05	25° 8 40'08			7794 Apr 01 14:29	$_{0\circ}$ 8	
minimum elong	7793 May 12 16:24	25° 8 36'20	3°17'26	asc. node	7794 Apr 09 18:07	11° 8 01'17	
min. Earth dist.	7793 May 14 23:17	22° 8 58'10	0.64215 AU	evening max el	7794 Apr 10 17:48	12° 8 04'00	18°54'49

ratragrada	7794 Apr 17 11:59	15° 8 50'02		evening max el	7795 Mar 24 23:53	25° Ƴ 40'41	19°44'25
retrograde evening set	7794 Apr 20 20:27	13 8 30 02		asc. node	7795 Mar 27 15:11	28° Y 01'37	19 44 23
inferior conj	7794 Apr 26 09:54	9° 8 01'46	3°24'53	retrograde	7795 Apr 01 09:49	29° Υ 56'31	
	-	9° 8 01'57	3°24'49	•	7795 Apr 05 02:22	29 Υ 36'59	
minimum elong	7794 Apr 26 09:50			evening set			2010104
min. Earth dist.	7794 Apr 28 02:41	6° 8 53'39	0.65893 AU	inferior conj	7795 Apr 10 11:37	22°Υ39'09	3°18'04
morning rise	7794 May 01 22:43	2° 8 44'21		minimum elong	7795 Apr 10 10:26	22°Υ43'04	3°17'53
	7794 May 07 12:42	30° ₹ Υ		min. Earth dist.	7795 Apr 11 13:37	21°Υ12'28	0.67145 AU
direct	7794 May 08 09:16	29° Y 57'15		morning rise	7795 Apr 15 18:14	16° Y 21'53	
	7794 May 09 06:12	0° 8		direct	7795 Apr 21 17:54	13° Y 41'40	
desc. node	7794 May 14 17:26	2° 8 05'34		desc. node	7795 May 01 14:26	18° Ƴ 47'41	
morning max el	7794 May 21 10:25		26°37'53	morning max el	7795 May 03 20:10	20° Y 56'35	25°22'10
	7794 Jun 07 17:55	$\Pi^{\circ}0$			7795 May 11 15:46	9° 8	
	7794 Jun 25 13:31	0			7795 May 31 22:36	Π °0	
morning set	7794 Jun 26 08:26	1° 5 29'04		morning set	7795 Jun 08 22:55	13° Ⅱ 51'45	
max. Earth dist.	7794 Jun 30 12:04	9° © 32'05	1.34457 AU	max. Earth dist.	7795 Jun 12 14:57	20° Ⅲ 36′51	1.36286 AU
					7795 Jun 17 12:05	0°ಅ	
superior conj	7794 Jul 05 03:01	18° © 55'04	-0°16'05				
minimum elong	7794 Jul 05 03:55	18° © 59'43	0°16'01	superior conj	7795 Jun 18 17:16	2° © 24'17	-0°47'23
behind sun begin	7794 Jul 05 03:29	18° © 57'30		minimum elong	7795 Jun 18 20:06	2° 5 38'21	0°46'59
behind sun end	7794 Jul 05 04:20	19° © 01'56		asc. node	7795 Jun 23 14:18	12°514'46	
asc. node	7794 Jul 06 17:17	22°©14'09		evening rise	7795 Jun 26 20:52	18° © 55'06	
	7794 Jul 10 09:55	$0^{\circ}\Omega$		C	7795 Jul 02 12:06	$0^{\circ}\Omega$	
evening rise	7794 Jul 12 15:24	4°Ω40'15		evening max el	7795 Jul 14 07:17	17° Ω 25'49	19°49'47
e vennig 115e	7794 Jul 26 16:21	0° m)		retrograde	7795 Jul 24 10:37	22° Ω 25'27	12 12 17
evening max el	7794 Jul 31 22:45	6° Mp 16'01	21°05'04	evening set	7795 Jul 26 07:19	22°Ω16'04	
desc. node	7794 Aug 10 16:33	11° Mp 56'57	21 03 04	desc. node	7795 Jul 28 13:37	21° Ω 41'13	
retrograde	7794 Aug 10 10:33	12° Mp 07'43		inferior conj	7795 Aug 04 05:47	18° Ω 14'49	2001/41
•	=	-		,	-	18° Ω 23'24	
evening set	7794 Aug 15 01:29	11° Mp 55'30	2952145	minimum elong min. Earth dist.	7795 Aug 04 00:11	16° Ω 58'49	
inferior conj	7794 Aug 24 07:50	7° Mp 58'12			7795 Aug 06 07:23		0.33233 AU
minimum elong	7794 Aug 23 22:26	8° Mp 11'27	3°51'03	morning rise	7795 Aug 12 15:05	13° Ω 52'51	
min. Earth dist.	7794 Aug 24 19:37	7° mp 41'33	0.54699 AU	direct	7795 Aug 17 04:01	13° Ω 07'26	2.4020142
morning rise	7794 Sep 01 19:52	4° m 03'08		morning max el	7795 Aug 30 23:44	19° Ω 58'10	24°28'43
direct	7794 Sep 05 14:22	3° m/ 32'37			7795 Sep 08 12:14	0° m	
morning max el	7794 Sep 18 10:40	9° m 39'41	22°43'10	asc. node	7795 Sep 19 13:47	18° m , 29′25	
asc. node	7794 Oct 02 16:47	29° m 18'43		morning set	7795 Sep 25 07:13	0° Ω 09'20	
	7794 Oct 03 01:56	0∘ ⊽			7795 Sep 25 05:28	0。 ಹ	
morning set	7794 Oct 10 19:28	15° ≏ 19'05					
				superior conj	7795 Oct 02 04:42	15° ≏ 08'46	1°37'25
superior conj	7794 Oct 17 20:23	0°M22'53	1°41'37	minimum elong	7795 Oct 02 03:25	15° ≙ 01'45	1°37'23
minimum elong	7794 Oct 17 20:09	0° M 21'42	1°41'41	max. Earth dist.	7795 Oct 04 02:49	19° ≙ 19'06	1.32720 AU
	7794 Oct 17 16:05	0° M			7795 Oct 09 04:31	0°M	
max. Earth dist.	7794 Oct 21 01:35	7°M09'28	1.33905 AU	evening rise	7795 Oct 09 12:26	0°M40'22	
evening rise	7794 Oct 25 17:50	16°M36'46		desc. node	7795 Oct 24 12:31	27°M50'24	
	7794 Nov 01 22:08	0°⊀			7795 Oct 25 21:40	0°⊀	
desc. node	7794 Nov 06 15:28	8° ₰ 02'56		evening max el	7795 Nov 11 21:05	21° 渘 ³31′09	27°28'43
	7794 Nov 21 20:24	8°0		retrograde	7795 Nov 25 14:03	28° ₹ ¹49'19	
evening max el	7794 Nov 29 09:41	8° ප 19'56	27°10'39	evening set	7795 Dec 02 15:40	26° ∡ 17'41	
retrograde	7794 Dec 12 19:09	15° පි 40'10		min. Earth dist.	7795 Dec 06 08:55	23° 尽 06'39	0.63389 AU
evening set	7794 Dec 19 14:20	13° る 03'10		inferior conj	7795 Dec 09 01:07	20° ∡ ¹26′07	-2°27'44
min. Earth dist.	7794 Dec 23 11:54	9° ට 21'02	0.65083 AU	minimum elong	7795 Dec 09 05:44	20° √ 14'34	2°25'50
inferior conj	7794 Dec 25 16:54	6° る 54'00		morning rise	7795 Dec 15 21:40	15° ∡ 10'18	
minimum elong	7794 Dec 25 19:17	6° る 47'23		asc. node	7795 Dec 16 13:13	14° ∡ *57'35	
asc. node	7794 Dec 29 16:09	2° ප 55'30	1 1000	direct	7795 Dec 18 06:45	14° ∡ °43′06	
morning rise	7795 Jan 01 01:35	1°る22'31		morning max el	7795 Dec 24 20:49	18° × 07'29	17°48'22
direct	7795 Jan 01 01:33	0°る45'29		morning max ci	7796 Jan 02 11:49	0°る	17 40 22
morning max el	7795 Jan 10 03:31	4°る09'44	18°01'00	morning set	7796 Jan 10 05:01	13° る 09'59	
morning max ci		0°≈	18 01 00	desc. node		0°≈42'04	
marning ast	7795 Jan 27 12:37			acse. Hour	7796 Jan 20 11:45	0°≈42°04 0°≈	
morning set	7795 Jan 28 00:23	0°≈48'38			7796 Jan 20 01:39	0 🗫	
desc. node	7795 Feb 02 14:48	10°≈00'57			7706 Ic. 22 11 41	1000120	0014127
	7705 E 1 11 07 40	2205050	0950120	superior conj	7796 Jan 22 11:41	4°≈00'30	
superior conj	7795 Feb 11 06:40	23°≈56'50		minimum elong	7796 Jan 22 10:08	3°≈54'10	0~14'0'/
minimum elong	7795 Feb 10 23:43	23° ≈ 29'15		behind sun begin	7796 Jan 22 05:32	3°≈35'11	
max. Earth dist.	7795 Feb 14 20:57	29°≈37'27	1.45264 AU	behind sun end	7796 Jan 22 14:45	4°≈13'08	
	7795 Feb 15 02:42	0° ∀		max. Earth dist.	7796 Jan 28 14:41	13° ≈ 56'19	1.44344 AU
evening rise	7795 Feb 27 11:03	19°) 11′54		evening rise	7796 Feb 06 21:57	28° ≈ 30'07	
	7795 Mar 06 11:47	0°Υ			7796 Feb 07 21:22	0° ∀	
greatest brilliancy	7795 Mar 13 06:14	10° Ƴ 12'40	-0.7m		7796 Feb 28 08:12	0 ° Υ	

evening max el	7796 Mar 07 00:34	9° Ƴ 18'49	20°48'09	minimum elong	7797 Jan 02 20:47	15° る 28'38	0°26'00
asc. node	7796 Mar 13 12:16	13° Υ 54'45	20 .009	desc. node	7797 Jan 06 08:43	21° る 27'15	0 20 00
retrograde	7796 Mar 15 08:16	14°Υ12'03		max. Earth dist.	7797 Jan 10 05:06	27° る 51'38	1.42821 AU
evening set	7796 Mar 19 10:06	12° Ƴ 37'28			7797 Jan 11 12:31	0° ≈	
inferior conj	7796 Mar 24 17:39	6° Ƴ 27'17	2°59'43	evening rise	7797 Jan 16 16:11	8° ≈ 14'31	
minimum elong	7796 Mar 24 15:43	6° Ƴ 33'57	2°59'20	Č	7797 Jan 31 02:09	0° ∀	
min. Earth dist.	7796 Mar 25 06:02	5° Ƴ 44'38	0.67960 AU	evening max el	7797 Feb 17 20:05	22° ¥ 58'55	22°02'16
morning rise	7796 Mar 29 21:07	0° Υ 12′25		retrograde	7797 Feb 27 05:33	28°) 33'01	
	7796 Mar 30 02:44	30° ₹ ₩		asc. node	7797 Feb 28 09:20	28°) €26'09	
direct	7796 Apr 04 07:37	27°) 47′36		evening set	7797 Mar 03 18:01	26°) 43′09	
	7796 Apr 10 05:16	0 ° $\mathbf{\Upsilon}$		inferior conj	7797 Mar 09 01:52	20°) €23'14	2°31'34
morning max el	7796 Apr 15 05:01	4° Υ 18′04	23°54'38	minimum elong	7797 Mar 08 23:36	20°) €31'07	2°30'59
desc. node	7796 Apr 17 11:23	6° Ƴ 42'37		min. Earth dist.	7797 Mar 09 01:41	20° ∺ 23'53	0.68344 AU
	7796 May 04 22:18	0°8		morning rise	7797 Mar 14 05:01	14°) 12′17	
morning set	7796 May 20 16:35	25° 8 12'54		direct	7797 Mar 19 01:26	12°) €08'09	
	7796 May 23 10:43	0°II		morning max el	7797 Mar 28 15:45	17°) (46'59	22°25'18
max. Earth dist.	7796 May 24 11:08	1° Ⅱ 47'49	1.38441 AU	desc. node	7797 Apr 04 08:19	25°) (30′17	
					7797 Apr 07 18:39	0°Υ	
superior conj	7796 May 31 18:55	15° Ⅱ 14'22			7797 Apr 28 00:48	0°8	
minimum elong	7796 May 31 23:39	15° Ⅱ 36'50	1°17'56	morning set	7797 May 01 08:04	5° 8 19'20	1 40/04 411
1	7796 Jun 08 09:38	0.ಪ		max. Earth dist.	7797 May 06 08:29	13° 8 39'21	1.40684 AU
asc. node	7796 Jun 09 11:19	2°506'00			7707 M 14 02-20	270 1 5100	1046117
evening rise	7796 Jun 09 19:30 7796 Jun 26 04:13	2°5946'10 29°5919'29	18°54'52	superior conj	7797 May 14 03:39	27° 8 15'09 27° 8 40'47	
evening max el	7796 Jun 26 21:22	29 3 1929	10 34 32	minimum elong	7797 May 14 09:21 7797 May 15 16:10	27 Ο 4047 0° Π	1 43 46
retrograde	7796 Jul 04 16:45	3° Ω 32'09		evening rise	7797 May 13 10:10 7797 May 24 08:01	16° Ⅱ 05'19	
evening set	7796 Jul 04 16:43	3° Ω 19'24		asc. node	7797 May 24 08:01 7797 May 27 08:21	21° II 43'26	
evening set	7796 Jul 13 11:45	30°R≌		asc. node	7797 May 27 08:21 7797 May 31 23:01	0°95	
desc. node	7796 Jul 14 10:42	29° © 20'12		evening max el	7797 Jun 09 10:15	11°950'33	18°20'32
inferior conj	7796 Jul 14 20:47	29° © 02'24	-0°07'37	retrograde	7797 Jun 16 18:19	15°930'46	10 2002
minimum elong	7796 Jul 14 20:28	29° © 02'58	0°07'37	evening set	7797 Jun 19 00:48	15°9510'32	
transit middle	7796 Jul 14 20:28	29° © 02'58	0°07'37	inferior conj	7797 Jun 26 09:28	10°533'00	1°24'30
transit begin	7796 Jul 14 17:10	29°508'47		minimum elong	7797 Jun 26 12:05	10°527'32	1°23'30
transit end	7796 Jul 14 23:45	28° © 57'07		min. Earth dist.	7797 Jun 29 19:05	7° 5 344'43	0.58672 AU
min. Earth dist.	7796 Jul 17 22:37	26°952'24	0.56675 AU	desc. node	7797 Jul 01 07:44	6° © 35'50	
morning rise	7796 Jul 22 21:18	24°504'04		morning rise	7797 Jul 03 20:09	5° © 00'53	
direct	7796 Jul 28 07:05	22°554'16		direct	7797 Jul 09 23:55	3°520'08	
	7796 Aug 11 06:15	$0^{\circ}\Omega$		morning max el	7797 Jul 24 09:08	11° © 05'05	27°16'12
morning max el	7796 Aug 11 13:35	0° Ω 17'29	26°05'02		7797 Aug 08 01:48	$0^{\circ}\Omega$	
	7796 Sep 01 07:36	0° т р		asc. node	7797 Aug 23 07:43	27° Ω 51′18	
asc. node	7796 Sep 05 10:45	8° Mp 02′24		morning set	7797 Aug 24 02:46	29° Ω 31′02	
morning set	7796 Sep 08 18:12	14° m 54'56			7797 Aug 24 08:15	0° m	
superior coni	7706 San 15 15:42	29° m 59'48	1°27'34	gunariar aani	7707 Aug 21 02:22	1.4° m h.40!55	1°12'35
superior conj minimum elong	7796 Sep 15 15:43 7796 Sep 15 13:44	29° Mp 48'49	1°27'21	superior conj minimum elong	7797 Aug 31 03:32 7797 Aug 31 01:16	14° Mp 49'55 14° Mp 37'24	1°12'33 1°12'12
minimum ciong	7796 Sep 15 15:45	ე° ი	1 2/21	max. Earth dist.	7797 Aug 31 01:10 7797 Aug 30 20:43	14° M) 12'08	1.31698 AU
max. Earth dist.	7796 Sep 16 10:19	0 — 1° Ω 42'34	1.31984 AU	evening rise	7797 Sep 06 22:17	29° Mp 40'47	1.51076 AC
evening rise	7796 Sep 22 14:45	15° ≏ 04'16	1.51704710	evening rise	7797 Sep 07 01:54	0° <u>م</u>	
e vennig rise	7796 Sep 30 04:20	0°M			7797 Sep 23 10:27	0° ™	
desc. node	7796 Oct 10 09:35	17° M .04'36		desc. node	7797 Sep 27 06:41	5° ™ 31'44	
	7796 Oct 20 05:18	0° ∡ 7		evening max el	7797 Oct 06 05:47	15°M55'54	26°27'46
evening max el	7796 Oct 24 04:47	4° ₰ 07'22	27°15'14	retrograde	7797 Oct 20 03:46	23°M02'07	
retrograde	7796 Nov 07 01:22	11° ∡ 19′27		evening set	7797 Oct 26 19:59	21°M12'23	
evening set	7796 Nov 14 03:04	9° ∡ 03′27		min. Earth dist.	7797 Oct 30 19:13	18°M37'42	0.59356 AU
min. Earth dist.	7796 Nov 17 19:29	6° ∡ 16'47	0.61438 AU	inferior conj	7797 Nov 03 00:08	16°M09'34	-4°38'47
inferior conj	7796 Nov 20 20:44	3° ∡ ³34'47	-3°36'21	minimum elong	7797 Nov 03 07:10	15°M55'59	4°37'04
minimum elong	7796 Nov 21 03:18	3° х 20′14	3°34'07	morning rise	7797 Nov 10 20:38	11° M 34'51	
	7796 Nov 25 09:09	30°RM		direct	7797 Nov 13 02:49	11°ML16'50	
morning rise	7796 Nov 28 05:42	28° MJ $37'55$		asc. node	7797 Nov 19 07:14	13°M40'26	
direct	7796 Nov 30 11:27	28°M16'53		morning max el	7797 Nov 20 22:54	15°M06'59	18°19'20
asc. node	7796 Dec 02 10:14	28°M33'24			7797 Dec 01 05:38	0° ∡	
	7796 Dec 05 08:22	0° ∡		morning set	7797 Dec 06 19:23	10° ≯ 23′13	
morning max el	7796 Dec 07 12:27	1° ₹ 49'51	17°54'01				
morning set	7796 Dec 23 05:18	26° ₹ 27'34		superior conj	7797 Dec 16 00:52	27° 🖈 44'30	0°58'20
	7796 Dec 25 04:01	0°ප		minimum elong	7797 Dec 16 04:20	28° ₹ '00'22	0°57'59
	7707 1 02 10 21	150710100	0027112		7797 Dec 17 06:40	0°る	1 40064 433
superior conj	7797 Jan 02 18:34	15° る 19'03	0 2012	max. Earth dist.	7797 Dec 23 14:45	11° る 08'45	1.40864 AU

	7700 N 15, 04.02	00.7			7900 0-4 27 14-52	00 M 10150	1041112
may Earth dist	7799 Nov 15 04:02	0°⊀ 5°.₹42!22	1 26615 ATT	superior conj	7800 Oct 27 14:52	9°M19'59	1°41'12
max. Earth dist.	7799 Nov 18 02:53	5° ₹43'33 12° ₹52'24	1.36615 AU	minimum elong max. Earth dist.	7800 Oct 27 15:23	9°M22'41 17°M36'30	1°41'16 1.34789 AU
evening rise desc. node	7799 Nov 21 22:53 7799 Nov 27 23:49	23° x 28'21		evening rise	7800 Oct 31 15:18 7800 Nov 04 22:51	26°M05'45	1.34/89 AU
desc. node	7799 Nov 27 23:49 7799 Dec 01 22:48	23 メ ・2621		evening rise	7800 Nov 04 22.31 7800 Nov 07 00:30	20 11 6 05 45 0° √ 1	
	7799 Dec 01 22.48 7799 Dec 23 13:38	0°≈		desc. node	7800 Nov 14 20:52	13° х 49'29	
evening max el	7799 Dec 27 13:51	0 ∞ 4°≈13'23	25°51'58	desc. Hode	7800 Nov 25 08:43	13 メ 4929	
retrograde	7800 Jan 09 01:35	11°≈21'19	23 31 36	evening max el	7800 Dec 10 03:10	0 0 17° る 55'17	26°48'08
evening set	7800 Jan 05 01:33	8°≈52'01		retrograde	7800 Dec 23 06:19	25°る13'08	20 40 00
min. Earth dist.	7800 Jan 19 10:09	4°≈15'32	0.67076 AU	evening set	7800 Dec 29 19:41	22° ろ 37'26	
asc. node	7800 Jan 20 00:32	3°≈30'31	0.07070110	min. Earth dist.	7801 Jan 02 20:35	18° る 35'34	0.65911 AU
inferior conj	7800 Jan 20 20:46	2° ≈ 26'36	0°16'53	inferior conj	7801 Jan 04 18:44	16° る 20'43	
minimum elong	7800 Jan 20 20:20	2° ≈ 27'59	0°16'48	minimum elong	7801 Jan 04 19:57	16° る 17'10	
8	7800 Jan 22 20:49	30°Rる		asc. node	7801 Jan 06 21:36	13° る 57'10	
morning rise	7800 Jan 26 14:01	26° る 36'02		morning rise	7801 Jan 10 21:13	10° ප් 41'15	
direct	7800 Jan 29 19:54	25° る 35'43		direct	7801 Jan 13 17:24	9° ප් 56'42	
morning max el	7800 Feb 05 15:32	29° る 19'48	18°55'33	morning max el	7801 Jan 20 05:01	13° る 25'06	18°16'01
C	7800 Feb 06 07:18	0° ≈		C	7801 Feb 01 04:24	0° ≈	
desc. node	7800 Feb 23 23:13	25°≈02'50		morning set	7801 Feb 08 09:56	11° ≈ 36'21	
	7800 Feb 27 03:38	0° ∀		desc. node	7801 Feb 10 20:11	15° ≈ 30'35	
morning set	7800 Feb 28 00:30	1° ∺ 21'15			7801 Feb 19 22:33	0° ₩	
max. Earth dist.	7800 Mar 14 14:48	24°) 09′19	1.45255 AU				
				superior conj	7801 Feb 23 18:02	5°) 59′59	-1°24'04
superior conj	7800 Mar 16 13:27	27°) (12′39	-1°57'06	minimum elong	7801 Feb 23 08:50	5°) €23'52	1°23'00
minimum elong	7800 Mar 16 05:30	26°) 41′21	1°56'34	max. Earth dist.	7801 Feb 25 10:14	8°) €37'34	1.45482 AU
	7800 Mar 18 07:55	0° Y			7801 Mar 11 02:36	0° Y	
evening rise	7800 Mar 31 14:18	21° Y 14'45		evening rise	7801 Mar 11 20:02	1° Y ′08'07	
	7800 Apr 05 23:32	$8^{\circ 0}$		greatest brilliancy	7801 Mar 23 03:08	18° Ƴ 41'16	-0.8m
asc. node	7800 Apr 17 23:33	18° 8 10'59			7801 Mar 30 22:43	0° 8	
evening max el	7800 Apr 20 23:08	21° 8 36'40	18°33'46	evening max el	7801 Apr 04 08:02	5° 8 11'59	19°14'02
retrograde	7800 Apr 27 11:41	25° 8 10'15		asc. node	7801 Apr 04 20:38	5° 8 43'07	
evening set	7800 Apr 30 15:51	24° 8 13'32		retrograde	7801 Apr 11 07:55	9° 8 09'03	
inferior conj	7800 May 06 09:03	18° 8 39'50	3°22'39	evening set	7801 Apr 14 19:47	7° 8 57'50	
minimum elong	7800 May 06 09:46	18° 8 37'40	3°22'31	inferior conj	7801 Apr 20 07:07	2° 8 08'18	3°23'30
min. Earth dist.	7800 May 08 10:50	16° 8 10'37	0.64978 AU	minimum elong	7801 Apr 20 06:33	2° 8 10'09	3°23'24
morning rise	7800 May 12 02:55	12° 8 23'50		min. Earth dist.	7801 Apr 21 17:31	0° 8 17'17	0.66489 AU
direct	7800 May 18 18:11	9° 8 37'16			7801 Apr 21 22:57	30° ₹ Υ	
desc. node	7800 May 22 22:48	10° 8 33'38		morning rise	7801 Apr 25 16:57	25° Y 50′53	
morning max el	7800 Jun 01 05:12	17° 8 32'28	27°12'03	direct	7801 May 01 23:23	23° Y 05'25	
	7800 Jun 11 14:47	0°Щ		desc. node	7801 May 09 19:47	26° Y ′21′16	
	7800 Jun 30 15:30	0 ∘ જી			7801 May 13 23:51	0° 8	
morning set	7800 Jul 06 17:40	11° © 21'52		morning max el	7801 May 14 15:17	0° 8 38'32	26°07'40
max. Earth dist.	7800 Jul 11 06:06	20°521'54	1.33598 AU		7801 Jun 05 14:25	0°II	
asc. node	7800 Jul 14 22:44	28° © 02'18		morning set	7801 Jun 19 17:29	24° Ⅱ 11'39	
	5000 X 1 15 01 04	200017116	0001112	F 4 F	7801 Jun 22 19:14	0.22 0.22	
superior conj	7800 Jul 15 01:34	28°517'16	0°01'13	max. Earth dist.	7801 Jun 23 14:57	1°935'07	1.35190 AU
minimum elong	7800 Jul 15 01:30	28°916'56	0°01'05		7001 I 20 21.20	1200002157	0920114
behind sun begin	7800 Jul 14 19:57	27°\$47'37 28°\$46'18		superior conj	7801 Jun 28 21:20 7801 Jun 28 23:02	12°503'56	
behind sun end	7800 Jul 15 07:04	28 940 18 0°Ω		minimum elong asc. node	7801 Jul 28 23.02 7801 Jul 01 19:46	12° © 12'31 18° © 05'54	0 29 00
evening rise	7800 Jul 15 20:59 7800 Jul 22 07:26	13° Ω 42'16		evening rise	7801 Jul 01 19.46 7801 Jul 06 15:31	28°506'24	
evening rise	7800 Jul 30 13:19	0° Mp		evening rise	7801 Jul 07 13:38	28 3 00 24	
evening max el	7800 Jul 30 13:19 7800 Aug 12 00:44	ارات 17° Mp 31'51	21°56'34	evening max el	7801 Jul 25 01:34	28° Ω 16'08	20°30'38
desc. node	7800 Aug 18 21:56	22° m 30'07	21 3034	evening max er	7801 Jul 26 23:30	0°m)	20 30 30
retrograde	7800 Aug 18 21:30 7800 Aug 24 16:20	23° Mp 48'41		retrograde	7801 Aug 05 04:23	3°Mp45'37	
evening set	7800 Aug 27 13:01	23° m) 30'25		desc. node	7801 Aug 05 04:25	3°Mp44'41	
min. Earth dist.	7800 Sep 05 05:04	-	0.54820 AU	evening set	7801 Aug 07 05:00	3°m/35'28	
inferior conj	7800 Sep 05 05:04 7800 Sep 05 16:46	19° m) 29'35			7801 Aug 15 18:47	30°RΩ	
minimum elong	7800 Sep 05 18:16	19° m) 41'49		inferior conj	7801 Aug 16 09:47	29° Ω 38'23	-3°08'36
morning rise	7800 Sep 03 08:02 7800 Sep 14 04:26	15° Mp 40'35	07	minimum elong	7801 Aug 16 01:25		3°05'50
direct	7800 Sep 17 04:20 7800 Sep 17 14:21	15° Mp 14'52		min. Earth dist.	7801 Aug 17 14:48	28° Ω 56'28	0.54820 AU
morning max el	7800 Sep 17 14:21 7800 Sep 29 15:33	20° m 55'11	21°44'31	morning rise	7801 Aug 24 21:19	25° Ω 34'17	
-0	7800 Oct 07 05:10	0° ರ		direct	7801 Aug 28 23:28	24° Ω 58'24	
asc. node	7800 Oct 10 22:14	5° ≏ 51'23			7801 Sep 09 16:49	0° m)	
morning set	7800 Oct 20 10:12	24° Ω 08'10		morning max el	7801 Sep 11 06:56	1° Mp 24'29	23°28'12
٥	7800 Oct 23 04:56	0°M		asc. node	7801 Sep 27 19:14	24° m/45'16	
					7801 Sep 30 12:50	0∘ <u>⊽</u>	
					-		

morning set	7801 Oct 04 21:40	8° ≏ 58'46		morning set	7802 Sep 19 09:17 7802 Sep 22 06:17	23° ™ 47'24 0° ≏	
superior conj	7801 Oct 11 20:40	23° ♀ 59'23	1°40'33		•		
minimum elong	7801 Oct 11 19:57	23° £ 55'33	1°40'36	superior conj	7802 Sep 26 06:21	8° ≏ 47'45	1°33'54
max. Earth dist.	7801 Oct 14 12:16	29° ₽ 39'16	1.33347 AU	minimum elong	7802 Sep 26 04:43	8° ≏ 38'47	1°33'47
	7801 Oct 14 16:11	0°M₊		max. Earth dist.	7802 Sep 27 16:36	11° ≏ 55'26	1.32345 AU
evening rise	7801 Oct 19 11:39	9°M53'45		evening rise	7802 Oct 03 09:49	24° £ 06'16	
	7801 Oct 30 09:48	0° ∡ 7			7802 Oct 06 07:52	0°M	
desc. node	7801 Nov 01 17:54	3° х 51'47		desc. node	7802 Oct 19 14:57	23°M26'23	
acco. noac	7801 Nov 21 06:33	0°ਰ		dese. node	7802 Oct 24 01:22	0°×7	
evening max el	7801 Nov 22 15:52	0 3 1° る 21'52	27°21'56	evening max el	7802 Nov 05 01:50	14° × 18'53	27°27'04
retrograde	7801 Dec 06 04:45	8° ਰ 41'00	27 21 30	retrograde	7802 Nov 18 20:23	21° × ⁷ 34'43	27 27 04
evening set	7801 Dec 00 04:43	6° る 05'17		evening set	7802 Nov 25 23:15	19°×708'04	
min. Earth dist.	7801 Dec 15 03:23 7801 Dec 16 22:57	0 30317 2° 3 36'57	0.64405 AU	min. Earth dist.	7802 Nov 29 25:15 7802 Nov 29 15:24	19 ₹ 08 04 16° ₹ 08 '55	0.62588 AU
inferior conj	7801 Dec 10 22:37 7801 Dec 19 08:48	2 03037 0° る 03'13		inferior conj	7802 Nov 29 13:24 7802 Dec 02 12:01	10 x 108 55 13° x 25'56	
minimum elong	7801 Dec 19 08.48 7801 Dec 19 12:06	29° 🖈 54'23	1°46'47	minimum elong	7802 Dec 02 12:01 7802 Dec 02 17:32	13° 🖈 12'46	
minimum clong	7801 Dec 19 12:00 7801 Dec 19 10:00	29 x 34 23 30° R ₹	1 4047	morning rise	7802 Dec 02 17:32 7802 Dec 09 13:52	8° ₹ 18'02	2 34 34
1-				=		7° ₹ ¹53'51	
asc. node	7801 Dec 24 18:38	25° ₹ 13'28		direct	7802 Dec 11 21:12		
morning rise	7801 Dec 25 22:21	24° 🖈 37'50		asc. node	7802 Dec 11 15:39	7°×754'06	15040122
direct	7801 Dec 28 10:53	24°×705'18	15052120	morning max el	7802 Dec 18 14:52	11° ₹ 20′29	1/°48'33
morning max el	7802 Jan 03 21:50	27°×728'13	17°53'28		7802 Dec 31 03:33	0°る っ	
	7802 Jan 06 04:20	0° ろ		morning set	7803 Jan 03 14:08	6° る 04'29	
morning set	7802 Jan 21 00:23	23° る 17'08				_	
	7802 Jan 25 00:21	0° ≈		superior conj	7803 Jan 15 02:07	26° ප 01'05	0°03'40
desc. node	7802 Jan 28 17:09	6° ≈ 08'14		minimum elong	7803 Jan 15 02:29	26° る 02'37	0°03'44
				behind sun begin	7803 Jan 14 17:40	25° る 25'35	
superior conj	7802 Feb 03 10:07	15° ≈ 25'24	-0°40'18	behind sun end	7803 Jan 15 11:17	26° る 39'34	
minimum elong	7802 Feb 03 05:28	15° ≈ 06'42	0°39'33	desc. node	7803 Jan 15 14:07	26° る 51'28	
max. Earth dist.	7802 Feb 08 05:57	23° ≈ 06'55	1.44965 AU		7803 Jan 17 11:24	0° ≈	
	7802 Feb 12 15:13	0° ℋ		max. Earth dist.	7803 Jan 21 22:35	7° ≈ 17'49	1.43763 AU
evening rise	7802 Feb 19 10:01	10°) 29'40		evening rise	7803 Jan 29 22:12	19° ≈ 54'22	
	7802 Mar 04 07:33	0 ° $\mathbf{\Upsilon}$			7803 Feb 05 12:53	0° ℋ	
greatest brilliancy	7802 Mar 06 05:54	2° Y 50′13	-0.6m		7803 Feb 27 03:42	0 ° $\mathbf{\gamma}$	
evening max el	7802 Mar 18 11:56	18° Ƴ 49'23	20°09'53	evening max el	7803 Mar 01 10:12	2° Y 27'37	21°18'34
asc. node	7802 Mar 22 17:42	22° Ƴ 16'41		asc. node	7803 Mar 09 14:45	7° Ƴ 36'47	
retrograde	7802 Mar 26 06:16	23° Y 20'03		retrograde	7803 Mar 10 04:34	7° Ƴ 38'30	
evening set	7802 Mar 30 02:43	21° Y 53'56		evening set	7803 Mar 14 10:46	5° Ƴ 57'17	
inferior conj	7802 Apr 04 10:58	15° Ƴ 50′25	3°11'32	inferior conj	7803 Mar 19 18:12	29°) 42′18	2°48'54
minimum elong	7802 Apr 04 09:25	15° Ƴ 55'39	3°11'16	minimum elong	7803 Mar 19 16:04	29°)(49'41	2°48'25
min. Earth dist.	7802 Apr 05 06:56	14° Ƴ 42'43	0.67555 AU		7803 Mar 19 13:06	30° ₹ ₩	
morning rise	7802 Apr 09 15:54	9° Ƴ 34'08		min. Earth dist.	7803 Mar 20 01:03	29° 升 18'31	0.68175 AU
direct	7802 Apr 15 10:08	6° Ƴ 59'54		morning rise	7803 Mar 24 21:12	23° ℋ 28'51	
desc. node	7802 Apr 26 16:46	13° Ƴ 37'04		direct	7803 Mar 30 01:37	21° ℋ 12'39	
morning max el	7802 Apr 27 00:34	13° Ƴ 56'39	24°45'42	morning max el	7803 Apr 09 10:02	27° 升 21′50	23°16'18
	7802 May 10 01:40	$6^{\circ}B$			7803 Apr 11 21:18	$0^{\circ}\mathbf{\Upsilon}$	
	7802 May 29 10:37	$\Pi^{\circ}0$		desc. node	7803 Apr 13 13:44	1° Y 56'34	
morning set	7802 Jun 01 23:45	6° Ⅱ 09'19			7803 May 03 16:54	$6^{\circ}B$	
max. Earth dist.	7802 Jun 05 14:36	12° Ⅲ 39'56	1.37184 AU	morning set	7803 May 14 06:56	17° 8 00'35	
				max. Earth dist.	7803 May 18 10:32	24° 8 05'31	1.39400 AU
superior conj	7802 Jun 12 06:40	25° Ⅱ 17'09	-1°00'48		7803 May 21 18:59	$\Pi^{\circ}0$	
minimum elong	7802 Jun 12 10:22	25° Ⅱ 35'07	1°00'16				
-	7802 Jun 14 16:13	0ಂತಾ		superior conj	7803 May 26 01:42	7° Ⅱ 47'33	-1°30'58
asc. node	7802 Jun 18 16:47	8° © 02'47		minimum elong	7803 May 26 07:03	8° Ⅱ 12'20	1°30'23
evening rise	7802 Jun 20 18:27	12°©11'54		evening rise	7803 Jun 04 13:17	25° Ⅱ 50'56	
C	7802 Jun 30 07:32	$0^{\circ}\Omega$		asc. node	7803 Jun 05 13:49	27° Ⅱ 48'54	
evening max el	7802 Jul 07 15:31	9° Ω 43'50	19°23'45		7803 Jun 06 17:13	0°ಅ	
retrograde	7802 Jul 17 01:28	14° Ω 22'29		evening max el	7803 Jun 20 16:47	21° © 54'39	18°37'45
evening set	7802 Jul 18 22:24	14° Ω 12'15		retrograde	7803 Jun 28 16:03	25°951'54	
desc. node	7802 Jul 23 16:02	12° Ω 26'59		evening set	7803 Jun 30 18:08	25° © 36'34	
inferior conj	7802 Jul 27 13:49	10° Ω 04'52	-1°11'36	inferior conj	7803 Jul 08 14:04	21°5511'06	0°34'51
minimum elong	7802 Jul 27 10:37	10° Ω 10'06		minimum elong	7803 Jul 08 15:21	21° © 08'39	
min. Earth dist.	7802 Jul 30 03:33	8° Ω 24'53	0.55764 AU	desc. node	7803 Jul 10 13:05	19° © 41'27	
morning rise	7802 Aug 04 20:11	5° Ω 27'58		min. Earth dist.	7803 Jul 11 21:06	18°542'06	0.57468 AU
direct	7802 Aug 09 17:47	4° Ω 33'36		morning rise	7803 Jul 16 09:04	15°957'03	
morning max el	7802 Aug 03 17:47 7802 Aug 23 19:35	11° Ω 39'11	25°12'07	direct	7803 Jul 22 02:54	14°934'33	
	7802 Sep 06 21:05	0° mp	20 12 0 /	morning max el	7803 Aug 05 11:46	22° © 09'02	26°39'13
asc. node	7802 Sep 00 21:03 7802 Sep 14 16:13	14° MD 06'02		morning max or	7803 Aug 12 10:07	0°Ω	20 37 13
200. 110de	7002 Sep 14 10.13	1. my 00 02			,005 11ug 12 10.0/	~ UL	

	7803 Aug 30 16:22	0° m		mamina may al	7904 Iul 17 10:12	3° © 13'36	27925154
1-	Č	3°Mp46'33		morning max el	7804 Jul 17 10:13	0°Ω	27 33 34
asc. node morning set	7803 Sep 01 13:12 7803 Sep 03 19:27	8° Mp 29'33		morning set	7804 Aug 06 00:12 7804 Aug 18 02:26	22° Ω 59'38	
morning set	7803 Sep 03 19.27	8 IIJ 29 33		morning set asc. node	7804 Aug 18 02.26 7804 Aug 18 10:12	22 δι 39 38 23° Ω 40'19	
superior conj	7902 Can 10 17:56	229 m 20105	1°21'50	asc. node	-	0° m)	
minimum elong	7803 Sep 10 17:56	23° Mp 39'05	1°21'30	may Earth dist	7804 Aug 21 09:16	~	1 21710 AII
max. Earth dist.	7803 Sep 10 15:46	23° Mp 27'08	1.31801 AU	max. Earth dist.	7804 Aug 24 11:53	0 II/4911	1.31710 AU
max. Earm dist.	7803 Sep 11 01:38	24° ™ 21'45 0° ≏	1.51801 AU	avnorior coni	7904 Aug 25 05:24	00 m 27100	1°04'47
	7803 Sep 13 14:54			superior conj	7804 Aug 25 05:34	8° Mp 27'00	
evening rise	7803 Sep 17 14:38	8° Ω 35'59		minimum elong	7804 Aug 25 03:20	8° Mp 14'39	1°04'21
	7803 Sep 28 17:05	0°M		evening rise	7804 Aug 31 23:42	23° m 15'35	
desc. node	7803 Oct 06 12:02	12°M22'11	26050105		7804 Sep 04 05:08	0∘ 亚	
evening max el	7803 Oct 18 06:44	26°M34'35	26°59'05	desc. node	7804 Sep 22 09:07	0°M23'44	
	7803 Oct 22 09:08	0° ∡			7804 Sep 22 01:46	0° ™	
retrograde	7803 Nov 01 04:24	3° ∡ ¹45′00		evening max el	7804 Sep 29 04:22	8°M01'08	25°58'01
evening set	7803 Nov 08 03:22	1° ≯ 38′38		retrograde	7804 Oct 13 02:53	15°M05'23	
	7803 Nov 10 13:52	30°₽ML		evening set	7804 Oct 19 10:56	13°M29'59	
min. Earth dist.	7803 Nov 11 21:13	28°M59'03	0.60554 AU	min. Earth dist.	7804 Oct 23 17:12	10°M54'45	0.58473 AU
inferior conj	7803 Nov 15 01:06	26°M20'32	-4°04'15	inferior conj	7804 Oct 26 20:36	8° ™ 37'48	-5°00'39
minimum elong	7803 Nov 15 08:08	26°M05′46	4°02'06	minimum elong	7804 Oct 27 02:55	8°M26'17	4°59'26
morning rise	7803 Nov 22 15:15	21°M33'05		morning rise	7804 Nov 03 21:12	4° ጤ 12'47	
direct	7803 Nov 24 20:32	21°M13'50		direct	7804 Nov 06 04:45	3°M55'18	
asc. node	7803 Nov 28 12:40	22°M09'02		asc. node	7804 Nov 14 09:41	7° M 50'50	
morning max el	7803 Dec 02 04:46	24°M53'07	18°02'21	morning max el	7804 Nov 14 11:57	7° ጤ 56'15	18°36'29
	7803 Dec 06 10:19	0° ∡ ¹			7804 Nov 28 16:22	0° ∡ ¹	
morning set	7803 Dec 17 20:52	19° ∡ ³39'16		morning set	7804 Nov 30 15:26	3° ∡ ¹46'53	
	7803 Dec 23 11:13	0°రె		-			
				superior conj	7804 Dec 09 10:11	20° ∡ ³38'26	1°09'07
superior conj	7803 Dec 27 19:29	7° る 49'18	0°40'58	minimum elong	7804 Dec 09 13:38	20° ∡ 54'32	1°08'48
minimum elong	7803 Dec 27 22:30	8° る 02'39	0°40'39		7804 Dec 14 13:05	ි ව°0	
desc. node	7804 Jan 02 11:07	17° る 36'53		max. Earth dist.	7804 Dec 16 17:54	3° る 52'57	1.39953 AU
max. Earth dist.	7804 Jan 04 10:24	20°る55'32	1.42023 AU	desc. node	7804 Dec 19 08:09	8° る 21'09	1.57705110
evening rise	7804 Jan 09 23:15	29° る 57'34	12023 110	evening rise	7804 Dec 20 21:19	10°る58'04	
e vennig rise	7804 Jan 09 23:51	0°≈		evening rise	7805 Jan 01 21:17	0°≈	
	7804 Jan 30 02:18	0° ₩			7805 Jan 24 21:14	0° ₩	
evening max el	7804 Feb 12 03:41	16°) €07'57	22°35'49	evening max el	7805 Jan 24 18:09	29°≈52'23	23°55'57
retrograde	7804 Feb 12 03:41 7804 Feb 22 01:01	22°\(\frac{10}{10}\)(00'00	22 33 49	retrograde	7805 Feb 04 18:15	6° ¥ 20'49	23 33 37
asc. node	7804 Feb 22 01:01 7804 Feb 24 11:49	21° H 29'33		evening set	7805 Feb 04 18:15 7805 Feb 09 23:45	4° X 10'13	
		21 \(\chi_2933\) 20°\(\chi_03'48\)		•		3° ¥ 50'10	
evening set	7804 Feb 26 18:17	13° H 40'34	2017/57	asc. node	7805 Feb 10 08:53		
inferior conj	7804 Mar 03 02:46			::	7805 Feb 13 17:59	30°R≈	1027121
minimum elong	7804 Mar 03 00:30	13°) 48'28	2°16'18	inferior conj	7805 Feb 15 10:50	27°≈42'37	1°36'31
min. Earth dist.	7804 Mar 02 21:32	13°) € 58'44	0.68375 AU	minimum elong	7805 Feb 15 08:52	27°≈49'17	1°35'54
morning rise	7804 Mar 08 06:34	7°) €31'23		min. Earth dist.	7805 Feb 14 18:07	28°≈39'23	0.68175 AU
direct	7804 Mar 12 20:55	5°) (36'47		morning rise	7805 Feb 20 17:59	21° ≈ 39'18	
morning max el	7804 Mar 21 22:41	10°) 54'36	21°48'46	direct	7805 Feb 24 18:50	20°≈07'05	20020120
desc. node	7804 Mar 30 10:41	21°) €01'46		morning max el	7805 Mar 04 17:57	24° ≈ 39'07	20°30'29
	7804 Apr 05 22:26	0° Υ			7805 Mar 09 10:53	0° ∀	
morning set	7804 Apr 23 10:29	26° Ƴ 33'57		desc. node	7805 Mar 17 07:40	10°) 40′28	
	7804 Apr 25 13:39	0° 8			7805 Mar 30 07:10	0° Υ	
max. Earth dist.	7804 Apr 29 09:37	6° 8 17'27	1.41588 AU	morning set	7805 Apr 02 14:09	5° Y ′04'16	
				max. Earth dist.	7805 Apr 11 16:15	19°'Y'25'36	1.43467 AU
superior conj	7804 May 07 01:46	19° 8 23'40					
minimum elong	7804 May 07 07:13	19° 8 47'35	1°55'35	superior conj	7805 Apr 18 02:30	29° Y 56'59	
	7804 May 13 00:05	Π $\circ 0$		minimum elong	7805 Apr 18 04:45	0° 8 06'22	2°10'13
evening rise	7804 May 17 20:17	8° Ⅲ 53'10			7805 Apr 18 03:13	0°8	
asc. node	7804 May 22 10:51	17° Ⅱ 18'37		evening rise	7805 Apr 30 11:06	21° 8 09'19	
					500536 05 10 00	Π°	
evening max el	7804 May 30 04:37	0_{\circ} වෙ			7805 May 05 12:29	υщ	
	7804 May 30 04:37 7804 Jun 03 01:36	0°ତ 4° ତ 38'56	18°12'05	asc. node	7805 May 05 12:29 7805 May 09 07:55	6° П 26'23	
retrograde			18°12'05	asc. node evening max el			18°05'48
retrograde evening set	7804 Jun 03 01:36	4°938'56	18°12'05		7805 May 09 07:55	6° Ⅱ 26′23	18°05'48
•	7804 Jun 03 01:36 7804 Jun 10 01:11	4°938'56 8°910'04 7°945'45	18°12'05 1°54'50	evening max el	7805 May 09 07:55 7805 May 17 14:15	6°Ⅲ26'23 17°Ⅲ47'13	18°05'48
evening set	7804 Jun 03 01:36 7804 Jun 10 01:11 7804 Jun 12 10:50	4°938'56 8°910'04 7°945'45		evening max el retrograde	7805 May 09 07:55 7805 May 17 14:15 7805 May 24 01:41	6°Д26'23 17°Д47'13 21°Д08'10	
evening set inferior conj	7804 Jun 03 01:36 7804 Jun 10 01:11 7804 Jun 12 10:50 7804 Jun 19 11:47	4°538'56 8°510'04 7°545'45 2°559'52	1°54'50	evening max el retrograde evening set	7805 May 09 07:55 7805 May 17 14:15 7805 May 24 01:41 7805 May 26 18:43	6°Д26'23 17°Д47'13 21°Д08'10 20°Д32'18	2°46'48
evening set inferior conj	7804 Jun 03 01:36 7804 Jun 10 01:11 7804 Jun 12 10:50 7804 Jun 19 11:47 7804 Jun 19 14:50	4°938'56 8°910'04 7°945'45 2°959'52 2°953'05	1°54'50	evening max el retrograde evening set inferior conj	7805 May 09 07:55 7805 May 17 14:15 7805 May 24 01:41 7805 May 26 18:43 7805 Jun 02 04:10	6°Д26'23 17°Д47'13 21°Д08'10 20°Д32'18 15°Д26'25	2°46'48
evening set inferior conj minimum elong	7804 Jun 03 01:36 7804 Jun 10 01:11 7804 Jun 12 10:50 7804 Jun 19 11:47 7804 Jun 19 14:50 7804 Jun 22 21:36	4°938'56 8°910'04 7°945'45 2°959'52 2°953'05 30°RII	1°54'50 1°53'48	evening max el retrograde evening set inferior conj minimum elong	7805 May 09 07:55 7805 May 17 14:15 7805 May 24 01:41 7805 May 26 18:43 7805 Jun 02 04:10 7805 Jun 02 06:54	6°П26'23 17°П47'13 21°П08'10 20°П32'18 15°П26'25 15°П19'24	2°46'48 2°46'06
evening set inferior conj minimum elong min. Earth dist.	7804 Jun 03 01:36 7804 Jun 10 01:11 7804 Jun 12 10:50 7804 Jun 19 11:47 7804 Jun 19 14:50 7804 Jun 22 21:36 7804 Jun 22 20:47	4°538'56 8°510'04 7°545'45 2°559'52 2°553'05 30°RII 0°501'43	1°54'50 1°53'48	evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	7805 May 09 07:55 7805 May 17 14:15 7805 May 24 01:41 7805 May 26 18:43 7805 Jun 02 04:10 7805 Jun 02 06:54 7805 Jun 05 04:29	6°Д26'23 17°Д47'13 21°Д08'10 20°Д32'18 15°Д26'25 15°Д19'24 12°Д23'33	2°46'48 2°46'06
evening set inferior conj minimum elong min. Earth dist. desc. node	7804 Jun 03 01:36 7804 Jun 10 01:11 7804 Jun 12 10:50 7804 Jun 19 11:47 7804 Jun 19 14:50 7804 Jun 22 21:36 7804 Jun 22 20:47 7804 Jun 26 10:08	4°938'56 8°910'04 7°945'45 2°959'52 2°953'05 30°RII 0°901'43 27°II 24'43	1°54'50 1°53'48	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	7805 May 09 07:55 7805 May 17 14:15 7805 May 24 01:41 7805 May 26 18:43 7805 Jun 02 04:10 7805 Jun 02 06:54 7805 Jun 05 04:29 7805 Jun 08 17:09	6°П26'23 17°П47'13 21°П08'10 20°П32'18 15°П26'25 15°П19'24 12°П23'33 9°П23'30	2°46'48 2°46'06
evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	7804 Jun 03 01:36 7804 Jun 10 01:11 7804 Jun 12 10:50 7804 Jun 19 11:47 7804 Jun 19 14:50 7804 Jun 22 21:36 7804 Jun 22 20:47 7804 Jun 26 10:08 7804 Jun 26 15:53	4°938'56 8°910'04 7°945'45 2°959'52 2°953'05 30°RII 0°901'43 27°II24'43 27°II16'07	1°54'50 1°53'48	evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	7805 May 09 07:55 7805 May 17 14:15 7805 May 24 01:41 7805 May 26 18:43 7805 Jun 02 04:10 7805 Jun 02 06:54 7805 Jun 05 04:29 7805 Jun 08 17:09 7805 Jun 13 07:10	6°Д26'23 17°Д47'13 21°Д08'10 20°Д32'18 15°Д26'25 15°Д19'24 12°Д23'33 9°Д23'30 7°Д14'54	2°46'48 2°46'06 0.61858 AU

	7805 Jul 11 18:46	0ಂತಾ			7806 Jun 14 09:05	$\Pi^{\circ}0$	
	7805 Jul 29 13:39	$0^{\circ}\Omega$			7806 Jul 05 11:55	0°9	
morning set	7805 Aug 02 04:19	7° Ω 12′05		morning set	7806 Jul 16 22:42	21° © 00'20	
asc. node	7805 Aug 05 07:13	13° Ω 42′28			7806 Jul 21 08:45	$0^{\circ}\Omega$	
max. Earth dist.	7805 Aug 07 19:38	19° Ω 06'49	1.32074 AU	max. Earth dist.	7806 Jul 21 21:00	1° Ω 04'00	1.32905 AU
	5 005 4 00 15 3 0	222 0 2 5151	00.404.0	asc. node	7806 Jul 23 04:14	3° Ω 48'41	
superior conj	7805 Aug 09 15:28	23° Ω 05'51	0°43'12		7007 Int. 24 21.42	70 020150	0017122
minimum elong	7805 Aug 09 13:40 7805 Aug 12 18:52	22° Ω 55'59 0° m	0°42'45	superior conj minimum elong	7806 Jul 24 21:43 7806 Jul 24 20:52	7° Ω 29'59 7° Ω 25'26	0°17'33 0°17'16
evening rise	7805 Aug 12 18:32 7805 Aug 16 11:00	עוי ס 7° m y 58'51		evening rise	7806 Jul 31 22:38	22° Ω 39'54	0 1/10
evening rise	7805 Aug 10 11:00 7805 Aug 27 19:28	0∘ ʊ		evening rise	7806 Aug 04 11:16	0°m	
desc. node	7805 Sep 09 06:13	17° ჲ 09'35		evening max el	7806 Aug 23 06:12	28° m 55'36	22°51'56
evening max el	7805 Sep 10 18:33	18° ≏ 40'47	24°30'45	Ü	7806 Aug 24 09:43	0∘ <u>⊽</u>	
retrograde	7805 Sep 24 13:39	25° ≏ 36'42		desc. node	7806 Aug 27 03:17	2° £ 11'39	
evening set	7805 Sep 29 17:58	24° ≙ 37'07		retrograde	7806 Sep 05 12:15	5° ≏ 32'50	
min. Earth dist.	7805 Oct 05 05:34	21° ≏ 47'54	0.56601 AU	evening set	7806 Sep 09 04:15	5° ഫ 03'23	
inferior conj	7805 Oct 07 20:00	20° ჲ 09'05		min. Earth dist.	7806 Sep 16 14:20	1° ≏ 43'09	0.55246 AU
minimum elong	7805 Oct 07 21:38	20° ≏ 06'28	5°31'04	inferior conj	7806 Sep 18 00:24	0° £ 54'18	
morning rise	7805 Oct 16 03:28	16° Ω 05'55		minimum elong	7806 Sep 17 18:42	1° ≏ 02'30	5°16'25
direct	7805 Oct 18 18:20	15° Ω 47'18	10022122		7806 Sep 19 14:39	30°R Mp	
morning max el	7805 Oct 28 08:50	20° £ 19'27	19°32'33	morning rise	7806 Sep 26 11:14	27° m 05'15	
asc. node	7805 Nov 01 06:43	24° Ω 44'37 0° I L		direct	7806 Sep 29 13:18	26° Mp 43'07 0° <u> </u>	
morning set	7805 Nov 04 21:25 7805 Nov 14 17:56	18°ML15'42		morning max el	7806 Oct 08 09:49 7806 Oct 10 17:10	0° 22 1° 2 56'09	20°50'46
morning set	7805 Nov 14 17:50 7805 Nov 20 13:51	0°×7		asc. node	7806 Oct 10 17:10 7806 Oct 19 03:44	1 = 30 09 12° ⊆ 35'24	20 30 40
	7003 1107 20 13.31	0 x		ase. Houe	7806 Oct 28 14:53	0°M	
superior conj	7805 Nov 22 16:59	4° ҂ 13'22	1°28'01	morning set	7806 Oct 30 01:35	2°M58'00	
minimum elong	7805 Nov 22 19:36	4° ₹ 26'13	1°27'53				
max. Earth dist.	7805 Nov 28 23:40	16° ∡ 11'47	1.37796 AU	superior conj	7806 Nov 06 11:26	18°M21'46	1°38'32
evening rise	7805 Dec 02 17:11	22° ₹ 55'58		minimum elong	7806 Nov 06 12:44	18°M28'26	1°38'34
desc. node	7805 Dec 06 05:11	28° ₹ '59'52		max. Earth dist.	7806 Nov 11 08:17	28°ML07'47	1.35794 AU
	7805 Dec 06 19:23	5°0			7806 Nov 12 07:22	0° ∡	
	7805 Dec 26 16:56	0° ≈		evening rise	7806 Nov 15 08:01	5° ∡ ¹44'39	
evening max el	7806 Jan 07 07:20	13° ≈ 39'06	25°12'27	desc. node	7806 Nov 23 02:14	19° ∡ 29'00	
retrograde	7806 Jan 19 07:11	20°≈35'14			7806 Nov 29 14:56	0°る	
evening set	7806 Jan 25 01:36	18°≈11'49		evening max el	7806 Dec 20 20:20	27° る 24'07	26°18'04
asc. node	7806 Jan 28 05:57	14°≈51'36	0.67500 ATT	1	7806 Dec 23 17:33	0°≈ 4°≈ •37!30	
min. Earth dist.	7806 Jan 29 12:27	13°≈15'38 11°≈44'19	0.67588 AU 0°48'09	retrograde	7807 Jan 02 15:07 7807 Jan 08 22:05	4°≈37'30 2°≈04'30	
inferior conj minimum elong	7806 Jan 30 16:31 7806 Jan 30 15:22	11 ≈44 19 11°≈48'03	0°48'09 0°47'47	evening set	7807 Jan 11 02:27	2 ≈04 30 30°Rる	
morning rise	7806 Feb 05 05:26	5°≈48'40	0 4/4/	min. Earth dist.	7807 Jan 11 02:27	27° පි 43'06	0.66627 AU
direct	7806 Feb 08 17:52	4° ≈ 37'30		inferior conj	7807 Jan 14 17:54		-0°07'39
morning max el	7806 Feb 15 21:14	8° ≈ 35'09	19°25'47	minimum elong	7807 Jan 14 18:06	25° ⋜ 41'34	0°07'27
greatest brilliancy	7806 Feb 28 19:06	25° ≈ 36'57	-0.7m	transit middle	7807 Jan 14 18:06	25° ⋜ 41'34	0°07'27
	7806 Mar 03 17:15	0°) €		transit begin	7807 Jan 14 15:33	25° る 49'23	
desc. node	7806 Mar 04 04:37	0°) 43′01		transit end	7807 Jan 14 20:39	25° る 33'46	
morning set	7806 Mar 12 12:26	13°) €27'47		asc. node	7807 Jan 15 03:01	25° る 14'23	
	7806 Mar 23 03:31	$0^{\circ}\Upsilon$		morning rise	7807 Jan 20 14:51	19° る 56'19	
max. Earth dist.	7806 Mar 25 06:02	3° Y 19′00	1.44798 AU	direct	7807 Jan 23 16:23	19° る 03'13	
				morning max el	7807 Jan 30 07:40	22° る 39'04	18°36'44
superior conj	7806 Mar 29 02:32	9° Υ 26'20			7807 Feb 05 07:38	0°≈	
minimum elong	7806 Mar 28 22:09	9° Ƴ 08'49	2°07'35	desc. node	7807 Feb 19 01:35	21°≈02'56	
arranina riaa	7806 Apr 10 17:04	0°8 2°830'14		morning set	7807 Feb 20 05:10 7807 Feb 24 17:54	22°≈51'42 0° 米	
evening rise asc. node	7806 Apr 12 05:09 7806 Apr 26 04:58	25° 8 04'45			/80/ Feb 24 17:54	0°π	
asc. Houc	7806 Apr 30 00:44	0°II		superior conj	7807 Mar 08 09:19	18° ¥ 15′07	-1°45'04
evening max el	7806 May 01 03:25	1° Ⅱ 10'45	18°18'18	minimum elong	7807 Mar 07 23:55	17° \ 38'18	
retrograde	7806 May 07 03:25	4° Д 36'08		max. Earth dist.	7807 Mar 08 00:05	17° H 38'56	1.45440 AU
evening set	7806 May 10 13:02	3° П 47'15			7807 Mar 15 20:47	0°Υ	
Ž.	7806 May 15 00:19	30° ₹ 8		evening rise	7807 Mar 23 23:42	12° Υ 52'59	
inferior conj	7806 May 16 11:04	28° 8 23'00	3°15'06	greatest brilliancy	7807 Apr 01 06:26	26° Ƴ 04'22	-0.8m
minimum elong	7806 May 16 12:35	28° 8 18'38	3°14'49	•	7807 Apr 03 18:37	0°8	
min. Earth dist.	7806 May 18 21:31	25° 8 36'58	0.63928 AU	asc. node	7807 Apr 13 02:02	13° 8 04'15	
morning rise	7806 May 22 11:02	22° 8 09'46		evening max el	7807 Apr 14 14:24	14° 8 42'46	18°48'49
direct	7806 May 29 04:56	19° 8 28'37		retrograde	7807 Apr 21 06:58	18° 8 25'21	
desc. node	7806 May 31 04:11	19° 8 40'58		evening set	7807 Apr 24 14:15	17° 8 22'36	
morning max el	7806 Jun 11 23:59	27° 8 29'08	27°37'22	inferior conj	7807 Apr 30 04:34	11° 8 41'45	3°24'46

minimum elong	7807 Apr 30 04:42	11° 8 41'18	3°24'41		7808 Apr 09 06:23	30° ₹ Υ	
min. Earth dist.	7807 May 01 23:40	9° 8 27'47	0.65666 AU	inferior conj	7808 Apr 13 05:25	25° Υ 16'58	3°19'50
morning rise	7807 May 05 18:35	5° 8 24'27	0.03000710	minimum elong	7808 Apr 13 04:24	25° Υ 20'23	3°19'42
direct	7807 May 12 06:28	2° 8 37'06		min. Earth dist.	7808 Apr 14 09:36	23° Υ 43'44	0.66989 AU
desc. node	7807 May 18 01:10	4° 8 23'59		morning rise	7808 Apr 18 12:46	18° Y 59'34	0.00707110
morning max el	7807 May 25 10:31	10° 8 25'20	26°47'32	direct	7808 Apr 24 14:17	16° Υ 17'33	
morning max cr	7807 Jun 09 21:36	0°Ⅱ	20 47 32	desc. node	7808 May 03 22:08	20° Υ 52'32	
	7807 Jun 28 00:11	0. ⊙ Tr		morning max el	7808 May 06 20:17	23° Υ 37'48	25°34'23
morning set	7807 Jun 30 06:25	4° © 14'48		morning max er	7808 May 12 12:16	0°8	23 34 23
max. Earth dist.	7807 Jul 04 12:17	12°932'10	1.34218 AU		7808 Jun 02 06:33	0°II	
max. Earth dist.	7007 341 04 12.17	12 32 10	1.54210710	morning set	7808 Jun 11 23:27	16° Ⅱ 44'49	
superior conj	7807 Jul 08 22:02	21° © 32'14	-0°11'28	max. Earth dist.	7808 Jun 15 16:28	23° I I37'42	1.35992 AU
minimum elong	7807 Jul 08 22:40	21°535'32		max. Earth dist.	7808 Jun 18 23:55	0°9	1.55772 110
behind sun begin	7807 Jul 08 18:36	21°53332	0 11 20		7000 Jun 10 25.55	0 3	
behind sun end	7807 Jul 09 02:44	21°956'41		superior conj	7808 Jun 21 13:48	5°906'10	-0°42'35
asc. node	7807 Jul 10 01:13	23°954'12		minimum elong	7808 Jun 21 16:20	5°918'47	
asc. node	7807 Jul 10 01:13	0°Ω		asc. node	7808 Jun 25 22:14	13°955'38	0 42 13
evening rise	7807 Jul 16 08:35	7° Ω 11'51		evening rise	7808 Jun 29 14:48	21° © 29'03	
evening rise	7807 Jul 28 14:28	0°M)		evening rise	7808 Jul 29 14.48 7808 Jul 03 21:13	21 3 2903	
			21917155			20° Ω 23'18	10950143
evening max el	7807 Aug 05 00:11	9° Mp 20'30	21-17-55	evening max el	7808 Jul 17 06:43		19°59'42
desc. node	7807 Aug 14 00:21	14° Mp 56'32		retrograde	7808 Jul 27 16:05	25° Ω 30′22	
retrograde	7807 Aug 17 01:51	15° Mp 19'20		evening set	7808 Jul 29 13:20	25° Ω 21'00	
evening set	7807 Aug 19 11:29	15° Mp 06'00	4000100	desc. node	7808 Jul 30 21:23	25° Ω 03'37	2010120
inferior conj	7807 Aug 28 17:41	11°Mp08'11		inferior conj	7808 Aug 07 13:51	21° Ω 21′23	
minimum elong	7807 Aug 28 08:13	11° Tp 21'29	4°05'49	minimum elong	7808 Aug 07 07:27	21° Ω 31′02	
min. Earth dist.	7807 Aug 28 23:23	11°Mp00'10	0.54699 AU	min. Earth dist.	7808 Aug 09 10:36	20° Ω 14'01	0.55117 AU
morning rise	7807 Sep 06 05:41	7° TQ 15'16		morning rise	7808 Aug 15 23:54	17° Ω 04'25	
direct	7807 Sep 09 21:45	6° Mp 46'13		direct	7808 Aug 20 10:04	16° £ 21'39	
morning max el	7807 Sep 22 13:35	12°Mp46'35	22°27'37	morning max el	7808 Sep 03 02:56	23° Ω 06′23	24°13'12
	7807 Oct 05 08:56	0∘ ⊽			7808 Sep 09 07:05	0° m ∕	
asc. node	7807 Oct 06 00:43	1° ≏ 09'09		asc. node	7808 Sep 21 21:42	20° Mp 15'21	
morning set	7807 Oct 14 12:09	17° ≏ 46'41			7808 Sep 26 18:09	0∘ ত	
	7807 Oct 20 05:34	0°M		morning set	7808 Sep 27 23:52	2° ≏ 36'45	
superior coni	7807 Oct 21 13:54	2°M,52'12	1°41'42	superior coni	7808 Oct 04 21:38	17° Ω 36'18	1°38'26
superior conj	7807 Oct 21 13:54	2°M52'12	1°41'42 1°41'47	superior conj	7808 Oct 04 21:38	17° Ω 36'18	1°38'26 1°38'24
minimum elong	7807 Oct 21 13:52	2°M52'02	1°41'47	minimum elong	7808 Oct 04 20:29	17° ≏ 30'04	1°38'24
minimum elong max. Earth dist.	7807 Oct 21 13:52 7807 Oct 24 23:56	2°M52'02 10°M01'47			7808 Oct 04 20:29 7808 Oct 07 00:04	17° ച 30'04 22° ച 09'06	
minimum elong	7807 Oct 21 13:52 7807 Oct 24 23:56 7807 Oct 29 13:53	2°M52'02 10°M01'47 19°M13'40	1°41'47	minimum elong max. Earth dist.	7808 Oct 04 20:29 7808 Oct 07 00:04 7808 Oct 10 17:18	17° ച 30'04 22° ച 09'06 0° M	1°38'24
minimum elong max. Earth dist. evening rise	7807 Oct 21 13:52 7807 Oct 24 23:56 7807 Oct 29 13:53 7807 Nov 04 07:55	2°M52'02 10°M01'47 19°M13'40 0°×7	1°41'47	minimum elong max. Earth dist.	7808 Oct 04 20:29 7808 Oct 07 00:04 7808 Oct 10 17:18 7808 Oct 12 07:04	17° 2 30'04 22° 2 09'06 0°M 3°M13'19	1°38'24
minimum elong max. Earth dist.	7807 Oct 21 13:52 7807 Oct 24 23:56 7807 Oct 29 13:53 7807 Nov 04 07:55 7807 Nov 09 23:17	2°M.52'02 10°M.01'47 19°M.13'40 0° 🗷 9° 🗸 42'44	1°41'47	minimum elong max. Earth dist.	7808 Oct 04 20:29 7808 Oct 07 00:04 7808 Oct 10 17:18 7808 Oct 12 07:04 7808 Oct 26 20:20	17° \$\to 30'04\ 22° \$\to 09'06\ 0° \$\mathbb{M}\ 3° \$\mathbb{M}\ 13'19\ 29° \$\mathbb{M}\ 34'11	1°38'24
minimum elong max. Earth dist. evening rise desc. node	7807 Oct 21 13:52 7807 Oct 24 23:56 7807 Oct 29 13:53 7807 Nov 04 07:55 7807 Nov 09 23:17 7807 Nov 23 17:24	2°M52'02 10°M01'47 19°M13'40 0°メ 9°メ42'44 0°る	1°41'47 1.34120 AU	minimum elong max. Earth dist. evening rise desc. node	7808 Oct 04 20:29 7808 Oct 07 00:04 7808 Oct 10 17:18 7808 Oct 12 07:04 7808 Oct 26 20:20 7808 Oct 27 02:49	17° ♀ 30'04 22° ♀ 09'06 0°M 3°M13'19 29°M34'11	1°38'24 1.32869 AU
minimum elong max. Earth dist. evening rise desc. node evening max el	7807 Oct 21 13:52 7807 Oct 24 23:56 7807 Oct 29 13:53 7807 Nov 04 07:55 7807 Nov 09 23:17 7807 Nov 23 17:24 7807 Dec 03 09:17	2°M52'02 10°M01'47 19°M13'40 0°メ 9°メ42'44 0°る 10°る59'49	1°41'47 1.34120 AU	minimum elong max. Earth dist.	7808 Oct 04 20:29 7808 Oct 07 00:04 7808 Oct 10 17:18 7808 Oct 12 07:04 7808 Oct 26 20:20 7808 Oct 27 02:49 7808 Nov 14 21:11	17° \$\to 30'04\\ 22° \$\to 09'06\\ 0° \$\mathbb{m}\\ 3° \$\mathbb{m}\] 34'11\\ 0° \$\nabla'\\ 24° \$\nabla'\] 15'34	1°38'24 1.32869 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	7807 Oct 21 13:52 7807 Oct 24 23:56 7807 Oct 29 13:53 7807 Nov 04 07:55 7807 Nov 09 23:17 7807 Nov 23 17:24 7807 Dec 03 09:17 7807 Dec 16 17:25	2°M52'02 10°M01'47 19°M13'40 0°メ 9°メ'42'44 0°उ 10°उ59'49 18°उ20'01	1°41'47 1.34120 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	7808 Oct 04 20:29 7808 Oct 07 00:04 7808 Oct 10 17:18 7808 Oct 12 07:04 7808 Oct 26 20:20 7808 Oct 27 02:49 7808 Nov 14 21:11 7808 Nov 22 14:56	17° Δ 30'04 22° Δ 09'06 0° M 3° M13'19 29° M34'11 0° ズ 24° ズ15'34 0° ℧	1°38'24 1.32869 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	7807 Oct 21 13:52 7807 Oct 24 23:56 7807 Oct 29 13:53 7807 Nov 04 07:55 7807 Nov 09 23:17 7807 Nov 23 17:24 7807 Dec 03 09:17 7807 Dec 16 17:25 7807 Dec 23 11:10	2°M52'02 10°M01'47 19°M13'40 0°ズ 9°ズ42'44 0°उ 10°उ59'49 18°उ20'01 15°उ43'06	1°41'47 1.34120 AU 27°05'37	minimum elong max. Earth dist. evening rise desc. node	7808 Oct 04 20:29 7808 Oct 07 00:04 7808 Oct 10 17:18 7808 Oct 12 07:04 7808 Oct 26 20:20 7808 Oct 27 02:49 7808 Nov 14 21:11 7808 Nov 22 14:56 7808 Nov 28 13:17	17° ೨ 30'04 22° ೨ 09'06 0° ル 3° M 13'19 29° M 34'11 0° メ 24° メ 15'34 0° ठ 1° ठ 34'02	1°38'24 1.32869 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	7807 Oct 21 13:52 7807 Oct 24 23:56 7807 Oct 29 13:53 7807 Nov 04 07:55 7807 Nov 09 23:17 7807 Nov 23 17:24 7807 Dec 03 09:17 7807 Dec 16 17:25 7807 Dec 23 11:10 7807 Dec 27 09:32	2°M52'02 10°M01'47 19°M13'40 0°メ 9°メ42'44 0°उ 10°उ59'49 18°उ20'01 15°उ43'06 11°उ55'53	1°41'47 1.34120 AU 27°05'37 0.65305 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	7808 Oct 04 20:29 7808 Oct 07 00:04 7808 Oct 10 17:18 7808 Oct 12 07:04 7808 Oct 26 20:20 7808 Oct 27 02:49 7808 Nov 14 21:11 7808 Nov 22 14:56 7808 Nov 28 13:17 7808 Dec 04 01:55	17°至30'04 22°至09'06 0°肌 3°肌13'19 29°肌34'11 0°ズ 24°ズ15'34 0°उ 1°云34'02 30°尽ズ	1°38'24 1.32869 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	7807 Oct 21 13:52 7807 Oct 24 23:56 7807 Oct 29 13:53 7807 Nov 04 07:55 7807 Nov 09 23:17 7807 Nov 23 17:24 7807 Dec 03 09:17 7807 Dec 16 17:25 7807 Dec 23 11:10 7807 Dec 27 09:32 7807 Dec 29 12:47	2°M52'02 10°M01'47 19°M13'40 0°メ 9°メ42'44 0°℧ 10°℧59'49 18°℧20'01 15°℧43'06 11°℧55'53 9°℧31'41	1°41'47 1.34120 AU 27°05'37 0.65305 AU -1°10'01	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	7808 Oct 04 20:29 7808 Oct 07 00:04 7808 Oct 10 17:18 7808 Oct 12 07:04 7808 Oct 26 20:20 7808 Oct 27 02:49 7808 Nov 14 21:11 7808 Nov 22 14:56 7808 Nov 28 13:17 7808 Dec 04 01:55 7808 Dec 05 14:14	17°至30'04 22°至09'06 0°肌 3°肌13'19 29°肌34'11 0°ズ 24°ズ15'34 0°उ 1°♂34'02 30°Rズ 29°ズ*01'10	1°38'24 1.32869 AU 27°28'00
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	7807 Oct 21 13:52 7807 Oct 24 23:56 7807 Oct 29 13:53 7807 Nov 04 07:55 7807 Nov 09 23:17 7807 Nov 23 17:24 7807 Dec 03 09:17 7807 Dec 16 17:25 7807 Dec 23 11:10 7807 Dec 27 09:32 7807 Dec 29 12:47 7807 Dec 29 14:51	2°M52'02 10°M01'47 19°M13'40 0°メ 9°メ42'44 0°℧ 10°℧59'49 18°℧20'01 15°℧43'06 11°℧55'53 9°℧31'41 9°℧25'52	1°41'47 1.34120 AU 27°05'37 0.65305 AU -1°10'01	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	7808 Oct 04 20:29 7808 Oct 07 00:04 7808 Oct 10 17:18 7808 Oct 12 07:04 7808 Oct 26 20:20 7808 Oct 27 02:49 7808 Nov 14 21:11 7808 Nov 22 14:56 7808 Nov 28 13:17 7808 Dec 04 01:55 7808 Dec 05 14:14 7808 Dec 09 08:02	17°至30'04 22°至09'06 0°肌 3°肌13'19 29°肌34'11 0°ズ 24°ズ15'34 0°云 1°云34'02 30°Rズ 29°ズ10'10 25°ズ145'43	1°38'24 1.32869 AU 27°28'00 0.63658 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	7807 Oct 21 13:52 7807 Oct 24 23:56 7807 Oct 29 13:53 7807 Nov 04 07:55 7807 Nov 09 23:17 7807 Nov 23 17:24 7807 Dec 03 09:17 7807 Dec 16 17:25 7807 Dec 23 11:10 7807 Dec 27 09:32 7807 Dec 29 12:47 7807 Dec 29 14:51 7808 Jan 02 00:03	2°M.52'02 10°M.01'47 19°M.13'40 0° ₹ 9° ₹42'44 0° ₹ 10° ₹59'49 18° ₹20'01 15° ₹43'06 11° ₹55'53 9° ₹31'41 9° ₹25'52 5° ₹55'36	1°41'47 1.34120 AU 27°05'37 0.65305 AU -1°10'01	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	7808 Oct 04 20:29 7808 Oct 07 00:04 7808 Oct 10 17:18 7808 Oct 12 07:04 7808 Oct 26 20:20 7808 Oct 27 02:49 7808 Nov 14 21:11 7808 Nov 22 14:56 7808 Nov 28 13:17 7808 Dec 04 01:55 7808 Dec 05 14:14 7808 Dec 09 08:02 7808 Dec 11 22:36	17°至30'04 22°至09'06 0°肌 3°肌13'19 29°肌34'11 0°ズ 24°ズ15'34 0°云 1°云34'02 30°Rズ 29°ズ101'10 25°ズ145'43 23°ズ106'40	1°38'24 1.32869 AU 27°28'00 0.63658 AU -2°17'19
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	7807 Oct 21 13:52 7807 Oct 24 23:56 7807 Oct 29 13:53 7807 Nov 04 07:55 7807 Nov 09 23:17 7807 Nov 23 17:24 7807 Dec 03 09:17 7807 Dec 16 17:25 7807 Dec 23 11:10 7807 Dec 27 09:32 7807 Dec 29 12:47 7807 Dec 29 14:51 7808 Jan 02 00:03 7808 Jan 04 19:48	2°M52'02 10°M01'47 19°M13'40 0°メ 9°メ42'44 0°G 10°G59'49 18°G20'01 15°G43'06 11°G55'53 9°G31'41 9°G25'52 5°G55'36 3°G58'01	1°41'47 1.34120 AU 27°05'37 0.65305 AU -1°10'01	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	7808 Oct 04 20:29 7808 Oct 07 00:04 7808 Oct 10 17:18 7808 Oct 12 07:04 7808 Oct 26 20:20 7808 Oct 27 02:49 7808 Nov 14 21:11 7808 Nov 22 14:56 7808 Nov 28 13:17 7808 Dec 04 01:55 7808 Dec 05 14:14 7808 Dec 09 08:02 7808 Dec 11 22:36 7808 Dec 12 02:52	17°至30'04 22°至09'06 0°肌 3°肌13'19 29°肌34'11 0°ズ 24°ズ15'34 0°云 1°云34'02 30°Rズ 29°ズ01'10 25°ズ45'43 23°ズ06'40 22°ズ55'47	1°38'24 1.32869 AU 27°28'00 0.63658 AU -2°17'19
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	7807 Oct 21 13:52 7807 Oct 24 23:56 7807 Oct 29 13:53 7807 Nov 04 07:55 7807 Nov 09 23:17 7807 Nov 23 17:24 7807 Dec 03 09:17 7807 Dec 16 17:25 7807 Dec 23 11:10 7807 Dec 27 09:32 7807 Dec 29 12:47 7807 Dec 29 14:51 7808 Jan 02 00:03 7808 Jan 04 19:48 7808 Jan 07 12:20	2°M52'02 10°M01'47 19°M13'40 0°メ 9°メ42'44 0°उ 10°उ59'49 18°उ20'01 15°उ43'06 11°उ55'53 9°उ31'41 9°उ25'52 5°उ55'36 3°उ58'01 3°उ19'14	1°41'47 1.34120 AU 27°05'37 0.65305 AU -1°10'01 1°09'02	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	7808 Oct 04 20:29 7808 Oct 07 00:04 7808 Oct 10 17:18 7808 Oct 12 07:04 7808 Oct 26 20:20 7808 Oct 27 02:49 7808 Nov 14 21:11 7808 Nov 22 14:56 7808 Nov 28 13:17 7808 Dec 04 01:55 7808 Dec 05 14:14 7808 Dec 09 08:02 7808 Dec 11 22:36 7808 Dec 12 02:52 7808 Dec 18 17:17	17°至30'04 22°至09'06 0°肌 3°肌13'19 29°肌34'11 0°ズ 24°ズ15'34 0°云 1°云34'02 30°Rズ 29°ズ01'10 25°ズ45'43 23°ズ06'40 22°ズ55'47 17°ズ48'09	1°38'24 1.32869 AU 27°28'00 0.63658 AU -2°17'19
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	7807 Oct 21 13:52 7807 Oct 24 23:56 7807 Oct 29 13:53 7807 Nov 04 07:55 7807 Nov 09 23:17 7807 Nov 23 17:24 7807 Dec 03 09:17 7807 Dec 16 17:25 7807 Dec 23 11:10 7807 Dec 27 09:32 7807 Dec 29 12:47 7807 Dec 29 14:51 7808 Jan 02 00:03 7808 Jan 04 19:48 7808 Jan 07 12:20 7808 Jan 13 22:58	2°M.52'02 10°M.01'47 19°M.13'40 0°メ 9°メ'42'44 0°उ 10°उ59'49 18°उ20'01 15°उ43'06 11°उ55'53 9°331'41 9°325'52 5°355'36 3°358'01 3°319'14 6°344'22	1°41'47 1.34120 AU 27°05'37 0.65305 AU -1°10'01 1°09'02	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node	7808 Oct 04 20:29 7808 Oct 07 00:04 7808 Oct 10 17:18 7808 Oct 12 07:04 7808 Oct 26 20:20 7808 Oct 27 02:49 7808 Nov 14 21:11 7808 Nov 22 14:56 7808 Nov 28 13:17 7808 Dec 04 01:55 7808 Dec 05 14:14 7808 Dec 09 08:02 7808 Dec 11 22:36 7808 Dec 12 02:52 7808 Dec 18 17:17 7808 Dec 18 21:06	17° ♣30'04 22° ♣09'06 0° M 3° M 13'19 29° M 34'11 0° ⊀ 24° ⊀ 15'34 0° ♂ 1° ♂ 34'02 30° R ⊀ 29° ⊀ 01'10 25° ⊀ 45'43 23° ⊀ 06'40 22° ⊀ 55'47 17° ⊀ 48'09 17° ⊀ 44'34	1°38'24 1.32869 AU 27°28'00 0.63658 AU -2°17'19
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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. evening rise greatest brilliancy evening max el asc. node	7807 Oct 21 13:52 7807 Oct 24 23:56 7807 Oct 29 13:53 7807 Nov 04 07:55 7807 Nov 09 23:17 7807 Nov 23 17:24 7807 Dec 03 09:17 7807 Dec 16 17:25 7807 Dec 23 11:10 7807 Dec 27 09:32 7807 Dec 29 12:47 7807 Dec 29 12:47 7807 Dec 29 14:51 7808 Jan 02 00:03 7808 Jan 04 19:48 7808 Jan 07 12:20 7808 Jan 13 22:58 7808 Jan 13 22:58 7808 Feb 01 03:17 7808 Feb 01 03:17 7808 Feb 15 16:36 7808 Feb 15 08:55 7808 Feb 15 08:55 7808 Feb 17 10:56 7808 Feb 18 19:23 7808 Mar 02 21:18 7808 Mar 07 18:14 7808 Mar 07 18:14 7808 Mar 29 23:06 7808 Mar 29 23:06 7808 Mar 29 23:06	2°M.52'02 10°M.01'47 19°M.13'40 0°ズ 9°ズ42'44 0°G 10°G59'49 18°G20'01 15°G43'06 11°G55'53 9°G31'41 9°G25'52 5°G55'36 3°G58'01 3°G19'14 6°G44'22 0°≈ 3°≈44'13 11°≈35'15 27°≈13'01 26°≈42'40 0°¥ 2° ¥07'34 22° ¥28'38 0° ♀ 12°♀43'03 28°♀19'13 0°♂13'24 0°♂	1°41'47 1.34120 AU 27°05'37 0.65305 AU -1°10'01 1°09'02 18°04'19 -1°06'10 1°05'07 1.45340 AU -0.7m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el	7808 Oct 04 20:29 7808 Oct 07 00:04 7808 Oct 10 17:18 7808 Oct 12 07:04 7808 Oct 26 20:20 7808 Oct 27 02:49 7808 Nov 14 21:11 7808 Nov 22 14:56 7808 Nov 28 13:17 7808 Dec 04 01:55 7808 Dec 05 14:14 7808 Dec 12 02:52 7808 Dec 11 22:36 7808 Dec 12 02:52 7808 Dec 18 17:17 7808 Dec 18 21:06 7808 Dec 21 03:11 7808 Dec 21 03:11 7808 Dec 27 16:13 7809 Jan 03 16:40 7809 Jan 13 04:29 7809 Jan 22 19:32 7809 Jan 25 17:59 7809 Jan 25 15:41 7809 Jan 31 13:46 7809 Feb 09 04:51 7809 Mar 01 09:10 7809 Mar 10 02:50	17° 至30'04 22° 至09'06 0° M 3° M.13'19 29° M.34'11 0° ズ 24° ズ 15'34 0° ℧ 1° ℧ 34'02 30° Rズ 29° ズ 01'10 25° ズ 45'43 23° ズ 06'40 22° ズ 55'47 17° ズ 48'09 17° ズ 19'40 20° ズ 43'30 0° ℧ 15° ℧ 55'44 0° ※ 2° ※ 15'29 7° ※ 05'53 6° ※ 56'25 16° ※ 29'42 0° 升 1° 升 46'19 0° Υ 11° Υ 57'10	1°38'24 1.32869 AU 27°28'00 0.63658 AU -2°17'19 2°15'31 17°49'07 -0°21'09 0°20'42 1.44525 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 greatest brilliancy evening max el asc. node	7807 Oct 21 13:52 7807 Oct 24 23:56 7807 Oct 29 13:53 7807 Nov 04 07:55 7807 Nov 09 23:17 7807 Nov 23 17:24 7807 Dec 03 09:17 7807 Dec 16 17:25 7807 Dec 23 11:10 7807 Dec 27 09:32 7807 Dec 29 12:47 7807 Dec 29 12:47 7807 Dec 29 14:51 7808 Jan 02 00:03 7808 Jan 04 19:48 7808 Jan 07 12:20 7808 Jan 13 22:58 7808 Feb 01 03:17 7808 Feb 01 03:17 7808 Feb 15 16:36 7808 Feb 15 16:36 7808 Feb 15 08:55 7808 Feb 15 10:56 7808 Feb 18 19:23 7808 Mar 02 21:18 7808 Mar 07 18:14 7808 Mar 07 18:14 7808 Mar 29 23:06 7808 Mar 29 23:06 7808 Mar 29 16:34 7808 Mar 29 16:34 7808 Mar 29 16:34 7808 Mar 29 16:34	2°M.52'02 10°M.01'47 19°M.13'40 0°ズ 9°ズ42'44 0°G 10°G59'49 18°G20'01 15°G43'06 11°G55'53 9°G31'41 9°G25'52 5°G55'36 3°G58'01 3°G19'14 6°G44'22 0°≈ 3°≈44'13 11°≈35'15 27°≈13'01 26°≈42'40 0°H 2°H.07'34 22°H.28'38 0°Y 12°Y43'03 28°Y19'13 0°႘13'24 0°႘ 2°႘29'55	1°41'47 1.34120 AU 27°05'37 0.65305 AU -1°10'01 1°09'02 18°04'19 -1°06'10 1°05'07 1.45340 AU -0.7m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el asc. node	7808 Oct 04 20:29 7808 Oct 07 00:04 7808 Oct 10 17:18 7808 Oct 12 07:04 7808 Oct 26 20:20 7808 Oct 27 02:49 7808 Nov 14 21:11 7808 Nov 22 14:56 7808 Nov 28 13:17 7808 Dec 04 01:55 7808 Dec 05 14:14 7808 Dec 12 02:52 7808 Dec 11 22:36 7808 Dec 12 02:52 7808 Dec 18 17:17 7808 Dec 18 21:06 7808 Dec 21 03:11 7808 Dec 21 03:11 7808 Dec 27 16:13 7809 Jan 03 16:40 7809 Jan 13 04:29 7809 Jan 21 11:00 7809 Jan 22 19:32 7809 Jan 25 17:59 7809 Jan 25 17:59 7809 Jan 31 13:46 7809 Feb 09 04:51 7809 Feb 10 08:29 7809 Mar 01 09:10 7809 Mar 10 22:50 7809 Mar 16 20:10	17° 至30'04 22° 至09'06 0° M 3° M.13'19 29° M.34'11 0° ズ 24° ズ15'34 0° ℧ 1° ℧34'02 30° R.ズ 29° ズ01'10 25° ズ45'43 23° ズ06'40 22° ズ55'47 17° ズ44'34 17° ズ19'40 20° ズ43'30 0° ℧ 15° ℧55'44 0° ※ 2° ※15'29 7° ※05'53 6° ※56'25 16° ※29'42 0° 升 1° 丫57'10 16° 丫17'30	1°38'24 1.32869 AU 27°28'00 0.63658 AU -2°17'19 2°15'31 17°49'07 -0°21'09 0°20'42 1.44525 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 greatest brilliancy evening max el asc. node	7807 Oct 21 13:52 7807 Oct 24 23:56 7807 Oct 29 13:53 7807 Nov 04 07:55 7807 Nov 09 23:17 7807 Nov 23 17:24 7807 Dec 03 09:17 7807 Dec 16 17:25 7807 Dec 23 11:10 7807 Dec 27 09:32 7807 Dec 29 12:47 7807 Dec 29 12:47 7807 Dec 29 14:51 7808 Jan 02 00:03 7808 Jan 04 19:48 7808 Jan 07 12:20 7808 Jan 13 22:58 7808 Jan 13 22:58 7808 Feb 01 03:17 7808 Feb 01 03:17 7808 Feb 15 16:36 7808 Feb 15 08:55 7808 Feb 15 08:55 7808 Feb 17 10:56 7808 Feb 18 19:23 7808 Mar 02 21:18 7808 Mar 07 18:14 7808 Mar 07 18:14 7808 Mar 29 23:06 7808 Mar 29 23:06 7808 Mar 29 23:06	2°M.52'02 10°M.01'47 19°M.13'40 0°ズ 9°ズ42'44 0°G 10°G59'49 18°G20'01 15°G43'06 11°G55'53 9°G31'41 9°G25'52 5°G55'36 3°G58'01 3°G19'14 6°G44'22 0°≈ 3°≈44'13 11°≈35'15 27°≈13'01 26°≈42'40 0°¥ 2° ¥07'34 22° ¥28'38 0° ♀ 12°♀43'03 28°♀19'13 0°♂13'24 0°♂	1°41'47 1.34120 AU 27°05'37 0.65305 AU -1°10'01 1°09'02 18°04'19 -1°06'10 1°05'07 1.45340 AU -0.7m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el	7808 Oct 04 20:29 7808 Oct 07 00:04 7808 Oct 10 17:18 7808 Oct 12 07:04 7808 Oct 26 20:20 7808 Oct 27 02:49 7808 Nov 14 21:11 7808 Nov 22 14:56 7808 Nov 28 13:17 7808 Dec 04 01:55 7808 Dec 05 14:14 7808 Dec 12 02:52 7808 Dec 11 22:36 7808 Dec 12 02:52 7808 Dec 18 17:17 7808 Dec 18 21:06 7808 Dec 21 03:11 7808 Dec 21 03:11 7808 Dec 27 16:13 7809 Jan 03 16:40 7809 Jan 13 04:29 7809 Jan 22 19:32 7809 Jan 25 17:59 7809 Jan 25 15:41 7809 Jan 31 13:46 7809 Feb 09 04:51 7809 Mar 01 09:10 7809 Mar 10 02:50	17° 至30'04 22° 至09'06 0° M 3° M.13'19 29° M.34'11 0° ズ 24° ズ 15'34 0° ℧ 1° ℧ 34'02 30° Rズ 29° ズ 01'10 25° ズ 45'43 23° ズ 06'40 22° ズ 55'47 17° ズ 48'09 17° ズ 19'40 20° ズ 43'30 0° ℧ 15° ℧ 55'44 0° ※ 2° ※ 15'29 7° ※ 05'53 6° ※ 56'25 16° ※ 29'42 0° 升 1° 升 46'19 0° Υ 11° Υ 57'10	1°38'24 1.32869 AU 27°28'00 0.63658 AU -2°17'19 2°15'31 17°49'07 -0°21'09 0°20'42 1.44525 AU

evening set	7809 Mar 23 03:18	15° Ƴ 11'49			7810 Mar 06 11:28	30°R) €	
inferior conj	7809 Mar 28 10:57	9° Υ 03'22	3°03'06	evening set	7810 Mar 07 11:18	29°) 16'45	
•	7809 Mar 28 10.37	9 1 03 22 9° Υ 09'41	3°02'47	•	7810 Mar 12 18:59	29 X 1043 22° X 58'01	2°36'24
minimum elong				inferior conj			
min. Earth dist.	7809 Mar 29 01:16	8°Υ14'12	0.67871 AU	minimum elong	7810 Mar 12 16:45	23° H 05'49	2°35'51
morning rise	7809 Apr 02 14:43	2° Y 48'09		min. Earth dist.	7810 Mar 12 20:34	22°) 52'30	0.68317 AU
direct	7809 Apr 08 03:19	0° Υ 20'40		morning rise	7810 Mar 17 22:02	16°) 46′27	
morning max el	7809 Apr 19 05:07	6° Y 58′03	24°07'59	direct	7810 Mar 22 20:31	14°) 39'11	
desc. node	7809 Apr 20 19:06	8° Ƴ 37'36		morning max el	7810 Apr 01 15:26	20° ∺ 25'38	22°38'21
	7809 May 07 03:10	$0^{\circ}S$		desc. node	7810 Apr 07 16:06	27° ∺ 18′08	
morning set	7809 May 24 20:33	28° 8 15'38			7810 Apr 09 18:49	0 ° $\mathbf{\Upsilon}$	
	7809 May 25 20:36	Π $\circ 0$			7810 Apr 30 08:38	9° 8	
max. Earth dist.	7809 May 28 13:19	4° Ⅱ 45'53	1.38113 AU	morning set	7810 May 05 16:11	8° 8 33'28	
				max. Earth dist.	7810 May 10 10:15	16° 8 30'15	1.40355 AU
superior conj	7809 Jun 04 17:35	18° Ⅲ 02'31	-1°13'57				
minimum elong	7809 Jun 04 22:04	18° Ⅲ 23'56	1°13'22	superior conj	7810 May 18 05:07	0° Ⅱ 10'57	-1°42'29
	7809 Jun 10 21:00	0 \circ \odot		minimum elong	7810 May 18 10:48	0° Ⅲ 36'41	1°41'58
asc. node	7809 Jun 12 19:15	3°5548'28			7810 May 18 02:42	$\Pi^{\circ}0$	
evening rise	7809 Jun 13 14:38	5°\$24'02		evening rise	7810 May 28 04:55	18° ∏ 48'28	
Č	7809 Jun 28 02:03	$0^{\circ}\Omega$		asc. node	7810 May 30 16:17	23° Ⅲ 28′10	
evening max el	7809 Jun 30 01:58	2° Ω 10'31	19°01'41		7810 Jun 03 05:44	0ಂಣ	
retrograde	7809 Jul 08 19:40	6° Ω 29'23		evening max el	7810 Jun 13 06:53	14°936'24	18°24'23
evening set	7809 Jul 10 18:24	6°Ω17'24		retrograde	7810 Jun 20 18:33	18° © 20'42	
desc. node	7809 Jul 17 18:25	2°Ω56'39		evening set	7810 Jun 22 23:51	18° © 01'51	
inferior conj	7809 Jul 19 01:50	2° Ω 03'01	0°23'50	inferior conj	7810 Jun 30 11:21	13° 9 27'21	1°12'19
minimum elong	7809 Jul 19 01:30	2° Ω 04'45		minimum elong	7810 Jun 30 11:21 7810 Jun 30 13:42	13° © 22'33	1°11'24
•		0°Ω00'28		•			0.58346 AU
min. Earth dist.	7809 Jul 22 01:02		0.56420 AU	min. Earth dist.	7810 Jul 03 20:40	10°543'27	0.58346 AU
	7809 Jul 22 01:19	30°R≌		desc. node	7810 Jul 04 15:28	10°508'02	
morning rise	7809 Jul 27 04:04	27°510'22		morning rise	7810 Jul 08 00:15	7° © 59'37	
direct	7809 Aug 01 10:48	26°904'51		direct	7810 Jul 14 01:32	6° © 23'46	
	7809 Aug 11 16:17	0 $^{\circ}$ Ω		morning max el	7810 Jul 28 10:56	14°9506'14	27°07'47
morning max el	7809 Aug 15 16:15	3° £ 23′33	25°52'03		7810 Aug 10 03:55	0 \circ Ω	
	7809 Sep 03 16:12	0° m ∕		asc. node	7810 Aug 26 15:41	29° Ω 32'43	
asc. node	7809 Sep 08 18:42	9° m 45'38			7810 Aug 26 20:56	0°Щ	
morning set	7809 Sep 12 11:06	17° m 23'36		morning set	7810 Aug 27 20:09	2°Mp01'39	
	7809 Sep 18 05:46	0∘ ত					
				superior conj	7810 Sep 03 20:12	17° m y 17'47	1°15'11
superior conj	7809 Sep 19 08:23	2° ≏ 27'05	1°29'25	minimum elong	7810 Sep 03 17:58	17° m 05'19	1°14'49
minimum elong	7809 Sep 19 06:29	2° ≏ 16'33	1°29'13	max. Earth dist.	7810 Sep 03 17:13	17° Mp 01'13	1.31710 AU
max. Earth dist.	7809 Sep 20 06:59	4° £ 31'42	1.32065 AU		7810 Sep 09 15:02	0∘ ত	
evening rise	7809 Sep 26 08:27	17° ≏ 34'53		evening rise	7810 Sep 10 15:21	2° ഫ 09'55	
	7809 Oct 02 14:19	0°M			7810 Sep 25 13:20	0° M.	
desc. node	7809 Oct 13 17:24	18°M54'15		desc. node	7810 Sep 30 14:29	7°M29'33	
	7809 Oct 21 19:54	0° ∡ ¹		evening max el	7810 Oct 10 07:41	18°M53'44	26°36'52
evening max el	7809 Oct 28 05:39	6° ≯ 758'05	27°19'23	retrograde	7810 Oct 24 05:32	26°M01'03	
retrograde	7809 Nov 11 01:38	14° √ 10'50		evening set	7810 Oct 30 23:59	24°M06'36	
evening set	7809 Nov 18 03:58	11° √ 51'47		min. Earth dist.	7810 Nov 03 21:22	21°M31'17	0.59669 AU
min. Earth dist.	7809 Nov 21 20:10	9° ∡ 02'14	0.61743 AU	inferior conj	7810 Nov 07 02:22	18°M59'50	-4°30'11
inferior conj	7809 Nov 24 20:20	6° ≯ 19'38		minimum elong	7810 Nov 07 09:30	18°M45'46	
minimum elong	7809 Nov 25 02:39	6° ₹ 1550	3°23'55	morning rise	7810 Nov 14 21:20	14°M21'53	
morning rise	7809 Dec 02 03:28	1° × 19'43		direct	7810 Nov 17 03:10	14°M03'38	
direct	7809 Dec 04 09:34	0° ∡ 757'56		asc. node	7810 Nov 22 15:10	15°M59'52	
asc. node	7809 Dec 05 18:08	1°×706'05		morning max el	7810 Nov 24 19:51	17°M50'31	18°14'17
morning max el	7809 Dec 03 18:08 7809 Dec 11 08:20	4° ₹ 28'52	17°52'00	morning max ci	7810 Dec 03 13:03	0° ⊼	16 1417
•	7809 Dec 11 08.20 7809 Dec 27 02:18	29° ₹ 06'22	17 32 00	marning got	7810 Dec 03 13:03 7810 Dec 10 14:37	12° ∡ ¹57'05	
morning set		29 メ ・06 22		morning set		12 x・3/03 0°る	
	7809 Dec 27 14:10	0-0			7810 Dec 19 17:37	0.0	
avmani	7010 I 07 21 07	100=212120	0920122	aumoni	7010 D 20 00 16	00=2010=	0054102
superior conj	7810 Jan 06 21:07	18° る 13'39	0°20'33	superior conj	7810 Dec 20 00:16	0°중30'07	
minimum elong	7810 Jan 06 22:56	18° る 21'26	0°20'22	minimum elong	7810 Dec 20 03:40	0°る45'35	0°53'42
desc. node	7810 Jan 09 16:33	23° る 00'26		max. Earth dist.	7810 Dec 27 15:16	13°る53'10	1.41174 AU
	7810 Jan 13 21:37	0° ≈		desc. node	7810 Dec 27 13:34	13° る 45'58	
max. Earth dist.	7810 Jan 14 05:02	0° ≈ 30'19	1.43084 AU	evening rise	7811 Jan 01 10:18	21° る 51'19	
evening rise	7810 Jan 21 00:48	11°≈24'51			7811 Jan 06 12:45	0° ≈	
	7810 Feb 02 07:16	0° ∀			7811 Jan 27 10:19	0° ∀	
evening max el	7810 Feb 21 19:02	25° ∺ 36'33	21°50'42	evening max el	7811 Feb 04 10:56	9° ₩ 18'15	23°09'50
	7810 Feb 27 06:16	0 ° $\mathbf{\gamma}$		retrograde	7811 Feb 14 19:42	15° ∺ 26'36	
retrograde	7810 Mar 03 00:26	1° Y 04'30		asc. node	7811 Feb 18 14:18	14°) (15′40	
asc. node	7810 Mar 03 17:14	1° Y 01'59		evening set	7811 Feb 19 18:10	13°) €23'53	

min. Earth dist.	7811 Feb 24 17:19	7° ¥ 33'32	0.68341 AU	retrograde	7812 Jan 29 11:23	29° ≈ 45'27	
inferior conj	7811 Feb 25 03:34	6° ¥ 58'10	2°00'48	evening set	7812 Feb 03 22:18	27°≈28'59	
minimum elong	7811 Feb 25 01:22	7° ₩ 05'45	2°00'08	asc. node	7812 Feb 05 11:23	25°≈59'35	
morning rise	7811 Mar 02 08:31	0° ¥ 51'30	2 00 00	min. Earth dist.	7812 Feb 08 13:15	22°≈12'47	0.67969 AU
	7811 Mar 03 14:07	30°R≈		inferior conj	7812 Feb 09 10:51	21°≈00'33	1°16'57
direct	7811 Mar 06 16:57	29°≈06'43		minimum elong	7812 Feb 09 09:10	21°≈06'10	1°16'23
	7811 Mar 10 01:20	0° ∀		morning rise	7812 Feb 14 20:10	15°≈00'12	1 10 20
morning max el	7811 Mar 15 06:44	4°) €03'47	21°14'03	direct	7812 Feb 18 15:26	13°≈37'25	
desc. node	7811 Mar 25 13:05	16°) 38′57		morning max el	7812 Feb 26 05:26	17°≈53'44	20°01'03
	7811 Apr 03 20:09	0°Υ			7812 Mar 06 22:12	0°) €	
morning set	7811 Apr 15 08:24	17° Υ 36'25		desc. node	7812 Mar 11 10:04	6°) €28'48	
max. Earth dist.	7811 Apr 22 12:40	29° Υ 07'46	1.42436 AU	morning set	7812 Mar 24 06:37	25°) 54'34	
max. Earth dist.	7811 Apr 23 01:24	0°8	1.12 150 110	morning sec	7812 Mar 26 22:03	0° Υ	
	7011 Apr 25 01.24	ů O		max. Earth dist.	7812 Apr 03 22:02	12° Y 35'06	1.44104 AU
superior conj	7811 Apr 29 19:40	11° 8 21'00	-2°03'40	max. Earth dist.	7012 Apr 03 22.02	12 33 00	1.44104710
minimum elong	7811 Apr 30 00:16	11° 8 40'41		superior conj	7812 Apr 09 09:37	21° Y 25'44	-2°11'31
minimum ciong	7811 May 10 09:04	0°II	2 03 2)	minimum elong	7812 Apr 09 09:19	21° Υ 24'30	
ovening rice	7811 May 10 05:38	1° ∏ 32'48		minimum ciong		0° 8	2 11 34
evening rise	7811 May 17 03:38	1 П 3248 12° П 49'38		avanina riaa	7812 Apr 14 14:10	13° 8 26'05	
asc. node	,	12° Ц 49'38 27° Ц 31'53	10007105	evening rise	7812 Apr 22 12:06	0° I	
evening max el	7811 May 27 17:41		18-0/05	1-	7812 May 02 07:31	0°Щ 1°Щ45'54	
	7811 May 30 22:43	0.22 0.22		asc. node	7812 May 03 10:23		10000155
retrograde	7811 Jun 03 10:58	0°957'18		evening max el	7812 May 10 06:52	10° Ⅱ 47'16	18°08'55
evening set	7811 Jun 05 23:41	0°528'26		retrograde	7812 May 16 16:28	14° Ⅱ 08'34	
	7811 Jun 07 01:14	30°RⅡ		evening set	7812 May 19 12:25	13° Ⅱ 27'27	
inferior conj	7811 Jun 12 17:32	25° Ⅲ 33'46		inferior conj	7812 May 25 16:33	8° Ⅱ 13'51	3°01'23
minimum elong	7811 Jun 12 20:38	25° ∏ 26′26	2°19'09	minimum elong	7812 May 25 18:50	8° Ⅱ 07'43	3°00'52
min. Earth dist.	7811 Jun 15 23:44		0.60561 AU	min. Earth dist.	7812 May 28 11:29	5° Ⅱ 15′28	0.62766 AU
morning rise	7811 Jun 19 15:00	19° Ⅱ 40'17		morning rise	7812 May 31 23:38	2° Ⅱ 05′26	
desc. node	7811 Jun 21 12:30	18° Ⅲ 37′24			7812 Jun 04 21:09	30° ₹ 8	
direct	7811 Jun 26 04:52	17° Ⅲ 32'48		desc. node	7812 Jun 07 09:33	29° 8 33'25	
morning max el	7811 Jul 10 12:31	25° Ⅱ 30′21	27°49'00	direct	7812 Jun 07 18:22	29° 8 33'00	
	7811 Jul 14 16:08	0			7812 Jun 10 18:30	Π $\circ 0$	
	7811 Aug 03 14:47	$0 {\circ} \Omega$		morning max el	7812 Jun 21 19:22	7° Ⅱ 35'55	27°51'59
morning set	7811 Aug 12 01:15	16° Ω 25'44			7812 Jul 08 23:05	0ංම	
asc. node	7811 Aug 13 12:41	19° Ω 31'07			7812 Jul 25 18:34	$0^{\circ}\Omega$	
max. Earth dist.	7811 Aug 18 02:59	29° Ω 26'49	1.31805 AU	morning set	7812 Jul 26 00:14	0° £ 28'33	
	7811 Aug 18 09:02	0° m		asc. node	7812 Jul 30 09:41	9° Ω 35'21	
				max. Earth dist.	7812 Jul 31 08:11	11° Ω 35′20	1.32361 AU
superior conj	7811 Aug 19 07:20	2° Mp 02'55	0°56'10				
minimum elong	7811 Aug 19 05:13	1°Mp51'16	0°55'44	superior conj	7812 Aug 02 15:53	16° Ω 36′00	0°32'47
evening rise	7811 Aug 26 01:36	16° Mp 52′04		minimum elong	7812 Aug 02 14:25	16° Ω 28′03	0°32'24
	7811 Sep 01 12:09	0∘ 亚			7812 Aug 08 19:35	0° m	
desc. node	7811 Sep 17 11:32	25° ♀ 02'19		evening rise	7812 Aug 09 13:12	1° Mp 34'30	
evening max el	7811 Sep 22 01:41	29° ჲ 58'31	25°23'18		7812 Aug 25 00:45	0∘ ⊽	
	7811 Sep 22 02:18	0°M		evening max el	7812 Sep 02 13:48	10° ≙ 23'41	23°49'14
retrograde	7811 Oct 05 23:34	7°M00'35		desc. node	7812 Sep 03 08:35	11° ≏ 07'54	
evening set	7811 Oct 11 21:27	5°M39'59		retrograde	7812 Sep 16 05:28	17° £ 14'02	
min. Earth dist.	7811 Oct 16 13:33	3°M01'12	0.57638 AU	evening set	7812 Sep 20 18:24	16° ≏ 28'52	
inferior conj	7811 Oct 19 13:28	0°M58'14		min. Earth dist.	7812 Sep 27 00:13		0.55938 AU
minimum elong	7811 Oct 19 18:20	0°M49'53	5°17'10	inferior conj	7812 Sep 29 04:18	12° ♀ 09'23	-5°31'44
S	7811 Oct 20 23:52	30° ŖΩ		minimum elong	7812 Sep 29 02:52	12° ≏ 11'33	
morning rise	7811 Oct 27 17:34	26° £ 43'16		morning rise	7812 Oct 07 13:31	8° ഫ 13'31	
direct	7811 Oct 30 03:31	26° Ω 25'44		direct	7812 Oct 10 08:30	7° £ 53'51	
	7811 Nov 07 06:23	0°M		morning max el	7812 Oct 20 14:52	12° ≏ 42'52	20°03'09
morning max el	7811 Nov 07 00:23	0°M38'29	18°57'34	asc. node	7812 Oct 26 09:12	19° £ 34'23	
asc. node	7811 Nov 07 23:00	2°M14'23			7812 Nov 01 16:49	0°M	
morning set	7811 Nov 24 12:54	27°M14'39		morning set	7812 Nov 07 17:54	11°ML50'12	
monning set	7811 Nov 25 22:25	27 IIC1∓37 0° ⊼ 7			,0121107 07 17.54	11 1100012	
	/0111NOV 23 22.23	· ^		superior conj	7812 Nov 15 10:40	27°M31'38	1°33'25
superior conj	7811 Dec 02 22:26	13° ∡ '40'46	1°18'12	minimum elong	7812 Nov 15 10:40	27°M42'05	1°33'23
minimum elong	7811 Dec 02 22.26 7811 Dec 03 01:37	13° ₹ '40' 40' 13° ₹ '56'02		minimum ciong	7812 Nov 15 12:43 7812 Nov 16 16:26	27 IIC42 03 0° √ 7	1 22 23
max. Earth dist.			1.39031 AU	max. Earth dist.	7812 Nov 16 16:26 7812 Nov 21 03:10	0° × ° 8° × ⁷ 37'05	1.36915 AU
maa. Dahii Uist.	7811 [120 00 21:00		1.37031 AU	max. Earm uist.	1012 NOV 21 US.10	0 × 3/03	1.50713 AU
	7811 Dec 09 21:09			avaning rice	7812 Nov. 24 22-12	150.720002	
	7811 Dec 11 20:20	ರ∘ರ		evening rise	7812 Nov 24 22:12	15° х 38′02	
evening rise	7811 Dec 11 20:20 7811 Dec 13 17:47	0° ರ 3° ರ 16'38		evening rise desc. node	7812 Nov 30 07:36	25° х 03′59	
	7811 Dec 11 20:20 7811 Dec 13 17:47 7811 Dec 14 10:36	0°る 3°る16'38 4°る28'24		-	7812 Nov 30 07:36 7812 Dec 03 06:49	25°♂03'59 0°♂	
evening rise	7811 Dec 11 20:20 7811 Dec 13 17:47	0° ರ 3° ರ 16'38	24°20'10	-	7812 Nov 30 07:36	25° х 03′59	25942110

	7012 I 11 22-24	12955154			7012 N 26 11.55	8°0	
retrograde	7813 Jan 11 22:24	13°≈55'54			7813 Nov 26 11:55		26841100
evening set	7813 Jan 17 22:06	11°≈28'07		evening max el	7813 Dec 13 02:49	20°る34'12	26°41'00
asc. node	7813 Jan 22 08:26	6° ≈ 39'04		retrograde	7813 Dec 26 03:52	27° る 50'53	
min. Earth dist.	7813 Jan 22 06:06	6° ≈ 46′26	0.67221 AU	evening set	7814 Jan 01 15:41	25° る 15'44	
inferior conj	7813 Jan 23 14:58	5° ≈ 02'00	0°25'23	min. Earth dist.	7814 Jan 05 17:27	21° る 08'52	0.66112 AU
minimum elong	7813 Jan 23 14:20	5° ≈ 04'02	0°25'13	inferior conj	7814 Jan 07 13:53	18° る 57'30	-0°33'21
	7813 Jan 28 03:45	30°R₹		minimum elong	7814 Jan 07 14:49	18° る 54'44	0°32'50
morning rise	7813 Jan 29 07:01	29° る 09'57		asc. node	7814 Jan 09 05:30	17° る 02'58	
direct	7813 Feb 01 14:34	28° る 06'52		morning rise	7814 Jan 13 14:52	13° る 16'16	
	7813 Feb 06 07:46	0° ≈		direct	7814 Jan 16 12:25	12° る 29'33	
morning max el	7813 Feb 08 11:55	1°≈54'05	19°02'51	morning max el	7814 Jan 23 00:41	15° る 59'24	18°20'50
greatest brilliancy	7813 Feb 08 11:33 7813 Feb 22 08:31	20°≈37'40	-0.8m	morning max ci		13 3 3924	18 20 30
2			-0.6111	. ,	7814 Feb 02 10:01		
desc. node	7813 Feb 26 07:02	26°≈40'00		morning set	7814 Feb 11 15:18	14°≈39'17	
	7813 Feb 28 10:47	0° ∀		desc. node	7814 Feb 13 03:58	17°≈05'58	
morning set	7813 Mar 03 10:22	4°) €37'33			7814 Feb 21 06:48	0° ∀	
max. Earth dist.	7813 Mar 17 13:39	26°) 41′13	1.45163 AU				
	7813 Mar 19 16:08	0 ° $\mathbf{\Upsilon}$		superior conj	7814 Feb 27 05:18	9° ∺ 20'11	-1°30'01
				minimum elong	7814 Feb 26 19:49	8°) (43′01	1°28'58
superior conj	7813 Mar 20 00:51	0° Υ 34'22	-2°00'32	max. Earth dist.	7814 Feb 28 09:00	11°) €08'42	1.45499 AU
minimum elong	7813 Mar 19 17:41	0° Y 06'06	2°00'08		7814 Mar 12 10:09	$_0$ ° γ	
evening rise	7813 Apr 03 20:16	24° Υ 22'09	2 00 00	evening rise	7814 Mar 15 05:07	4° Υ 22'39	
evening rise	7813 Apr 07 06:49	0°8		greatest brilliancy	7814 Mar 25 18:29	20°Υ52'46	-0.8m
1-	•			greatest brilliancy			-0.6111
asc. node	7813 Apr 20 07:27	20° 8 09'24			7814 Mar 31 21:41	0°8	
evening max el	7813 Apr 23 19:29	24° 8 15'45	18°29'10	evening max el	7814 Apr 07 04:59	7° 8 50'31	19°06'58
retrograde	7813 Apr 30 06:55	27° 8 46'38		asc. node	7814 Apr 07 04:30	7° 8 49'18	
evening set	7813 May 03 10:02	26° 8 51'55		retrograde	7814 Apr 14 02:41	11° 8 43'26	
inferior conj	7813 May 09 04:23	21° 8 20'37	3°21'10	evening set	7814 Apr 17 13:22	10° 8 34'21	
minimum elong	7813 May 09 05:18	21° 8 17'52	3°21'00	inferior conj	7814 Apr 23 01:22	4° 8 46'57	3°24'13
min. Earth dist.	7813 May 11 08:26	18° 8 46'40	0.64723 AU	minimum elong	7814 Apr 23 00:59	4° 8 48'12	3°24'08
morning rise	7813 May 14 23:45	15° 8 05'17		min. Earth dist.	7814 Apr 24 13:57	2° 8 49'53	0.66290 AU
direct	7813 May 21 15:56	12° 8 19'42			7814 Apr 26 23:25	30° ₹ Υ	
desc. node	7813 May 25 06:34	13° 8 01'28		morning rise	7814 Apr 28 12:11	28° Y 29'29	
morning max el	7813 Jun 04 05:05	20° 8 16'22	27010120	direct	7814 May 04 20:08	25° Υ 43'20	
morning max er			21 1929		•		
	7813 Jun 12 13:15	0° I I		desc. node	7814 May 12 03:33	28° Ƴ 33'25	
	7813 Jul 02 00:58	0.00			7814 May 14 00:36	0°8	
morning set	7813 Jul 09 14:27	14° © 03'05		morning max el	7814 May 17 15:23	3° 8 20'40	26°18'40
max. Earth dist.	7813 Jul 14 05:18	23° © 18'52	1.33404 AU		7814 Jun 06 20:20	Π °0	
asc. node	7813 Jul 17 06:41	29° 5 341'35		morning set	7814 Jun 22 16:28	27° Ⅱ 00'06	
	7813 Jul 17 10:10	$0^{\circ}\Omega$			7814 Jun 24 06:36	0ಂ ತಾ	
				max. Earth dist.	7814 Jun 26 16:00	4° © 36'51	1.34925 AU
superior conj	7813 Jul 17 19:53	0° £ 51′30	0°05'37				
minimum elong	7813 Jul 17 19:36	0°Ω50'00	0°05'27	superior conj	7814 Jul 01 16:58	14°5643'00	-0°24'29
behind sun begin	7813 Jul 17 14:23	0° Ω 22'21		minimum elong	7814 Jul 01 18:21	14°950'09	
behind sun end	7813 Jul 18 00:50	1° Ω 17'43		asc. node	7814 Jul 04 03:41	19°5546'08	
evening rise	7813 Jul 25 00:19	16° Ω 12'05		evening rise	7814 Jul 09 09:00	0° Ω 39'05	
evening rise				evening rise		0° Ω	
	7813 Jul 31 21:06	0° Т р	22010126		7814 Jul 09 01:27		
evening max el	7813 Aug 15 03:12	20° m 38'40	22°10'36		7814 Jul 26 20:13	0° m)	2004045
desc. node	7813 Aug 21 05:39	25° m 15'25		evening max el	7814 Jul 28 02:08	1° Mp 17'43	20°42'17
retrograde	7813 Aug 27 22:57	27° Mp 01'14		retrograde	7814 Aug 08 11:06	6° ™ 55'09	
evening set	7813 Aug 31 00:18	26° Mp 40′34		desc. node	7814 Aug 08 02:43	6° Mp 54'51	
min. Earth dist.	7813 Sep 08 08:46	23°M 02'59	0.54899 AU	evening set	7814 Aug 10 13:29	6° Mp 44′26	
inferior conj	7813 Sep 09 02:29	22° Mp 38'05	-4°54'30	inferior conj	7814 Aug 19 19:07	2° ™ 47'30	-3°25'15
minimum elong	7813 Sep 08 18:21	22° Mp 49'32	4°52'56	minimum elong	7814 Aug 19 10:16	3° m 00'09	3°22'28
morning rise	7813 Sep 17 13:58	18° m 49'47		min. Earth dist.	7814 Aug 20 18:11	2° Mp 14'31	0.54757 AU
direct	7813 Sep 20 21:54	18° m 25'03			7814 Aug 25 00:25	30°R€	
morning max el	7813 Oct 02 17:36	23° m 58'12	21°30'07	morning rise	7814 Aug 28 06:55	28° Ω 47'05	
	7813 Oct 08 01:51	0° ರ		direct	7814 Sep 01 06:20	28° Ω 13'14	
asc. node		0 == 7° £ 44'56		311001	*	0° m	
	7813 Oct 13 06:12				7814 Sep 08 04:13		22012125
morning set	7813 Oct 23 03:01	26° £ 36'01		morning max el	7814 Sep 14 10:07	4° Mp 32'37	25-12-25
	7813 Oct 24 17:57	0°M₊		asc. node	7814 Sep 30 03:11	26° m 33'57	
					7814 Oct 01 23:02	0∘ ⊽	
superior conj	7813 Oct 30 08:52	11°M50'26	1°40'43	morning set	7814 Oct 07 14:20	11° ≏ 26'32	
minimum elong	7813 Oct 30 09:35	11° M 54'11	1°40'47				
max. Earth dist.	7813 Nov 03 14:37	20°M30'57	1.35036 AU	superior conj	7814 Oct 14 13:54	26° ≏ 27'55	1°41'04
evening rise	7813 Nov 07 19:55	28°M45'26		minimum elong	7814 Oct 14 13:21	26° ≏ 25'01	1°41'06
	7813 Nov 08 11:41	0°⊀			7814 Oct 16 05:36	0°M	
desc. node	7813 Nov 17 04:36	15° ₹ 27'31		max. Earth dist.	7814 Oct 17 10:15		1.33532 AU

	7014 0 4 22 07 02	120 m 20151			7015 0 4 06 04 02	260 0 20120	
evening rise	7814 Oct 22 07:02	12°M28'51		evening rise	7815 Oct 06 04:02	26° £ 38′20	
	7814 Oct 31 18:03	0° ∡			7815 Oct 07 19:46	0°M	
desc. node	7814 Nov 04 01:40	5° ∡ 33'11		desc. node	7815 Oct 21 22:44	25°M12'34	
	7814 Nov 21 17:36	0°ಕ			7815 Oct 25 02:40	0° ∡ ¹	
evening max el	7814 Nov 25 15:35	4° る 03'19	27°18'31	evening max el	7815 Nov 08 02:04	17° ∡ ¹05'25	27°28'19
retrograde	7814 Dec 09 03:17	11° る 22'55		retrograde	7815 Nov 21 20:10	24° ₹ 22'21	
evening set	7814 Dec 16 00:51	8° る 46'32		evening set	7815 Nov 28 22:44	21° 尽 53'41	
min. Earth dist.	7814 Dec 19 21:04	5° ರ 13'31	0.64652 AU	min. Earth dist.	7815 Dec 02 15:08	18° ₮ 50'36	0.62870 AU
inferior conj	7814 Dec 22 05:16	2° る 41'53	-1°38'05	inferior conj	7815 Dec 05 10:18	16° ₰ 08'06	-2°46'37
minimum elong	7814 Dec 22 08:14	2° る 33'51	1°36'43	minimum elong	7815 Dec 05 15:31	15° ₹ 55'28	2°44'33
	7814 Dec 24 20:14	30°₽ ⋌ ¹		morning rise	7815 Dec 12 10:18	10° ∡ 57′28	
asc. node	7814 Dec 27 02:33	28° 尽 08'33		asc. node	7815 Dec 13 23:35	10° ∡ ³35′10	
morning rise	7814 Dec 28 17:06	27° х 14′23		direct	7815 Dec 14 18:10	10° ∡ ³32'20	
direct	7814 Dec 31 06:36	26° х 40′21		morning max el	7815 Dec 21 10:27	13° ₹ ′58′03	17°48'09
morning max el	7815 Jan 06 17:13	0°る03'24	17°55'43	morning man er	7816 Jan 01 11:41	0°る	17 .005
morning man er	7815 Jan 06 15:50	0°පි	1, 00 .5	morning set	7816 Jan 06 12:26	8° る 47'06	
morning set	7815 Jan 24 01:39	26° පි 08'02		desc. node	7816 Jan 17 21:57	28° る 25'19	
morning set	7815 Jan 26 09:11	20 ℃08 02 0°≈		desc. Hode	7010 Jan 17 21.37	26 023 19	
1 1					7016 1 10 06 40	200702112	0002142
desc. node	7815 Jan 31 00:57	7° ≈ 42'22		superior conj	7816 Jan 18 06:48	29° る 02'13	
				minimum elong	7816 Jan 18 06:32	29° る 01'07	0°02'34
superior conj	7815 Feb 06 18:36	18° ≈ 37'11		behind sun begin	7816 Jan 17 21:26	28° る 23'07	
minimum elong	7815 Feb 06 13:06	18° ≈ 15'13	0°46'18	behind sun end	7816 Jan 18 15:38	29° る 39'02	
max. Earth dist.	7815 Feb 11 04:42	25° ≈ 38′28	1.45086 AU		7816 Jan 18 20:40	0° ≈	
	7815 Feb 13 23:18	0° ℋ		max. Earth dist.	7816 Jan 24 21:47	9° ≈ 52'47	1.43977 AU
evening rise	7815 Feb 22 20:38	13°) 46′40		evening rise	7816 Feb 02 08:08	23° ≈ 08'56	
	7815 Mar 05 12:31	$0^{\circ}\mathbf{\Upsilon}$			7816 Feb 06 19:34	0° ∀	
greatest brilliancy	7815 Mar 09 12:12	5° Ƴ 54'51	-0.6m		7816 Feb 27 21:21	0° Y	
evening max el	7815 Mar 21 09:37	21° Y 27'30	20°00'42	evening max el	7816 Mar 03 08:45	5° Y 06′07	21°07'42
asc. node	7815 Mar 25 01:35	24° Ƴ 32'44		asc. node	7816 Mar 10 22:39	10° Y 05′23	
retrograde	7815 Mar 29 00:56	25° Y 52'57		retrograde	7816 Mar 11 23:22	10° Y 10′52	
evening set	7815 Apr 01 19:59	24°Υ29'06		evening set	7816 Mar 16 03:59	8° Υ 32'01	
inferior conj	7815 Apr 07 04:31	18° Υ 27'27	3°14'02	inferior conj	7816 Mar 21 11:25	2°Υ18'38	2°52'57
minimum elong	7815 Apr 07 04:31	18° Υ 32'14	3°13'50	minimum elong	7816 Mar 21 09:21	2° Υ 25'47	
min. Earth dist.		17° Y 13'07	0.67420 AU	min. Earth dist.	7816 Mar 21 09:21	2 1 23 47 1° Υ 48'13	0.68110 AU
	7815 Apr 08 02:34	17 γ 13 07 12° γ 10'46	0.67420 AU	IIIII. Eartii dist.		1 1 40 13 30°R) €	0.08110 AU
morning rise	7815 Apr 12 09:59				7816 Mar 23 03:55		
direct	7815 Apr 18 06:07	9° Υ 34'21		morning rise	7816 Mar 26 14:31	26°) €04'33	
desc. node	7815 Apr 29 00:32	15° Y 37'44		direct	7816 Mar 31 21:04	23°) (45'16	
morning max el	7815 Apr 30 00:51	16° Ƴ 37'50	24°58'39		7816 Apr 11 09:15	0° Υ	
	7815 May 11 03:00	0°8		morning max el	7816 Apr 11 10:06	0° Y 02′09	23°29'39
	7815 May 30 19:28	Π $^{\circ}0$		desc. node	7816 Apr 14 21:32	3° Ƴ 49'12	
morning set	7815 Jun 05 01:42	9° Ⅱ 06'47			7816 May 03 23:12	$8^{\circ 0}$	
max. Earth dist.	7815 Jun 08 16:42	15° ∏ 41'15	1.36863 AU	morning set	7816 May 16 12:41	20° 8 08'58	
				max. Earth dist.	7816 May 20 12:29	27° 8 00'49	1.39065 AU
superior conj	7815 Jun 15 04:04	28° Ⅲ 01'51	-0°56'01		7816 May 22 05:09	$\Pi^{\circ}0$	
minimum elong	7815 Jun 15 07:27	28° Ⅱ 18'28	0°55'33				
	7815 Jun 16 04:03	0°ಅ		superior conj	7816 May 28 01:31	10° Ⅱ 39'25	-1°26'38
asc. node	7815 Jun 21 00:41	9° © 44'25		minimum elong	7816 May 28 06:40		
evening rise	7815 Jun 23 12:52	14° © 48'02		evening rise	7816 Jun 06 09:08	28° ∏ 31'29	
8 21	7815 Jul 01 12:00	$0^{\circ}\Omega$		asc. node	7816 Jun 06 21:44	29° Ⅲ 32'31	
evening max el	7815 Jul 10 14:12	12° Ω 39'00	19°32'26	ase. node	7816 Jun 07 03:25	0.2 2	
retrograde	7815 Jul 20 06:11	17° Ω 25'00	19 32 20	evening max el	7816 Jun 22 14:03	24°5944'04	18°43'19
evening set	7815 Jul 22 02:47	17° Ω 15'11		retrograde	7816 Jun 30 17:44	28°546'20	10 43 17
desc. node	7815 Jul 25 23:47	17 ∂ €1311 15° Ω 58'24		-			
			1020110	evening set	7816 Jul 02 18:51	28°532'00	0020112
inferior conj	7815 Jul 30 20:50	13° Ω 10'06		inferior conj	7816 Jul 10 17:48	24°509'39	0°20'12
minimum elong	7815 Jul 30 16:47	13° Ω 16'34		minimum elong	7816 Jul 10 18:34	24°508'13	0°19'48
min. Earth dist.	7815 Aug 02 06:37	11° Ω 38′21	0.55569 AU	desc. node	7816 Jul 11 20:50	23° © 19'16	
morning rise	7815 Aug 08 04:19	8° Ω 38′29		min. Earth dist.	7816 Jul 13 23:22	21° © 46'51	0.57181 AU
direct	7815 Aug 12 22:47	7° Ω 47'30		morning rise	7816 Jul 18 14:47	19° © 00'56	
morning max el	7815 Aug 26 22:49	14° Ω 48'10	24°57'14	direct	7816 Jul 24 05:57	17° 5 42'54	
	7815 Sep 08 00:09	0° m		morning max el	7816 Aug 07 14:07	25°513'50	26°27'51
asc. node	7815 Sep 17 00:10	15° m 51'11			7816 Aug 12 00:35	$0^{\circ}\Omega$	
morning set	7815 Sep 22 02:02	26° Mp 15′49			7816 Aug 31 03:09	0° т р	
-	7815 Sep 23 19:46	0∘ ⊽		asc. node	7816 Sep 02 21:10	5°m/29'10	
				morning set	7816 Sep 05 12:31	10° m 59'11	
superior conj	7815 Sep 28 23:10	11° ≏ 15'34	1°35'17		1	• •	
minimum elong	7815 Sep 28 21:39	11° ⊆ 07'16	1°35'11	superior conj	7816 Sep 12 10:36	26° Mp 06'57	1°24'00
max. Earth dist.	7815 Sep 30 13:31	14° ≏ 45'01	1.32465 AU	minimum elong	7816 Sep 12 10:30	25° m 55'18	1°23'43
Zurur dist.	, 0.10 5 0 p 50 15.51	— 15 01	1.52 105 710	Ciong	. 010 50р 12 00.50	10 10 10	5 15

To all II a	70166 12 22 02	270 m 1011 6	1 21054 411		7017 4 27 22 21	100% 5000	1007140
max. Earth dist.	7816 Sep 12 22:02		1.31854 AU	superior conj	7817 Aug 27 22:21	10° Mp 56'08	1°07'40
	7816 Sep 14 04:45	0∘ ʊ		minimum elong	7817 Aug 27 20:06	10° Mp 43'40	1°07'17
evening rise	7816 Sep 19 08:01	11° ≏ 06'08		max. Earth dist.	7817 Aug 27 08:27	9° m 39'04	1.31693 AU
	7816 Sep 29 00:55	0° M ,		evening rise	7817 Sep 03 16:37	25° m/45'15	
desc. node	7816 Oct 07 19:49	14°M15'08			7817 Sep 05 17:01	0∘ ত	
evening max el	7816 Oct 20 08:01	29°M28'33	27°05'29		7817 Sep 22 21:33	0°M₊	
	7816 Oct 20 21:33	0° ∡ 7		desc. node	7817 Sep 24 16:52	2°M26'29	
retrograde	7816 Nov 03 05:27	6° ₰ 39'40		evening max el	7817 Oct 02 06:57	11°M03'34	26°09'06
evening set	7816 Nov 10 05:31	4° ₹ 29'45		retrograde	7817 Oct 16 05:19	18° M ∙08'21	
min. Earth dist.	7816 Nov 13 22:42	1° ∡¹ 47'53	0.60860 AU	evening set	7817 Oct 22 16:31	16°M27'52	
	7816 Nov 16 01:34	30°RM₊		min. Earth dist.	7817 Oct 26 20:01	13°M53'11	0.58778 AU
inferior conj	7816 Nov 17 01:45	29°M07'52	-3°54'31	inferior conj	7817 Oct 30 00:09	11°M32'02	-4°53'21
minimum elong	7816 Nov 17 08:40	28°M53'04	3°52'20	minimum elong	7817 Oct 30 06:49	11° M .19'38	4°51'58
morning rise	7816 Nov 24 14:07	24°M17'01		morning rise	7817 Nov 06 23:23	7°M03'31	
direct	7816 Nov 26 19:26	23°M57'15		direct	7817 Nov 09 06:22	6°M45'53	
asc. node	7816 Nov 29 20:38	24°M36'09		asc. node	7817 Nov 16 17:40	10°M06'12	
morning max el	7816 Dec 04 01:03	27°M34'17	17°59'04	morning max el	7817 Nov 17 09:28	10°M42'53	18°30'00
morning man er	7816 Dec 06 05:45	0°×7	1, 0, 0.		7817 Nov 30 02:21	0° ∡ 7	10 30 00
morning set	7816 Dec 19 17:02	22° х 16'14		morning set	7817 Dec 03 10:07	6°× 7 '20'13	
morning set	7816 Dec 13 17:02 7816 Dec 23 21:54	22 × 10 14 0°る		morning set	7817 DCC 03 10.07	0 × 2013	
	7810 Dec 23 21.34	0.0		aumariar aani	7017 Dag 12 00:26	23° ₹ 21'34	1°05'25
	701 (D 20 20 25	100=40110	0025152	superior conj	7817 Dec 12 08:26		
superior conj	7816 Dec 29 20:35	10°₹40'18		minimum elong	7817 Dec 12 11:55	23° ₹ 37'43	1°05'06
minimum elong	7816 Dec 29 23:22	10° ろ 52'30	0°35'35		7817 Dec 15 23:43	0° ろ	
desc. node	7817 Jan 03 18:57	19° る 10'46		max. Earth dist.	7817 Dec 19 18:43	6° る 41'21	1.40276 AU
max. Earth dist.	7817 Jan 06 10:27	23° る 36'36	1.42308 AU	desc. node	7817 Dec 21 15:58	9° る 55'34	
	7817 Jan 10 08:18	0° ≈		evening rise	7817 Dec 24 01:23	13° る 57'02	
evening rise	7817 Jan 12 06:37	3° ≈ 05'14			7818 Jan 03 03:35	0° ≈	
	7817 Jan 30 05:12	0° ℋ			7818 Jan 25 08:28	0° ℋ	
evening max el	7817 Feb 14 02:57	18°) √ 46'35	22°23'59	evening max el	7818 Jan 27 17:46	2° ∺ 30'30	23°44'02
retrograde	7817 Feb 23 20:08	24°) 32′24		retrograde	7818 Feb 07 13:52	8°) 53'43	
asc. node	7817 Feb 25 19:44	24°) 12′23		evening set	7818 Feb 12 17:33	6°) 45′07	
evening set	7817 Feb 28 11:41	22° ℋ 38'28		asc. node	7818 Feb 12 16:48	6°) 46'42	
inferior conj	7817 Mar 05 19:55	16°) 16′22	2°22'23	min. Earth dist.	7818 Feb 17 13:07	1° ₩ 09'17	0.68235 AU
minimum elong	7817 Mar 05 17:38	16°) €24'18	2°21'45	inferior conj	7818 Feb 18 04:10	0°) 17'57	1°43'13
min. Earth dist.	7817 Mar 05 16:28	16°) €28'23	0.68375 AU	minimum elong	7818 Feb 18 02:07	0°) 24'55	1°42'33
morning rise	7817 Mar 10 23:26	10°) €06'30	0.00575110	mmmum viong	7818 Feb 18 09:26	30°R≈	1 .233
direct	7817 Mar 15 15:56	8° ₩ 08'27		morning rise	7818 Feb 23 10:40	24°≈13'46	
morning max el	7817 Mar 24 21:59	13°) (33'32	22°01'21	direct	7818 Feb 27 13:29	22°≈38'18	
desc. node		22° H 48'35	22 01 21		7818 Mar 07 16:07	22 ≈36 16 27°≈16'14	20941120
desc. node	7817 Apr 01 18:31	22 π 4833		morning max el			20 41 20
. ,	7817 Apr 07 01:35			1 1	7818 Mar 10 04:56	0°) {	
morning set	7817 Apr 26 20:25	29° Y 53'56		desc. node	7818 Mar 19 15:30	12°) € 22'54	
	7817 Apr 26 21:55	0° 8			7818 Mar 31 13:52	0°Υ	
max. Earth dist.	7817 May 02 10:48	9° 8 05'10	1.41281 AU	morning set	7818 Apr 06 02:49	8° Ƴ 31'10	
				max. Earth dist.	7818 Apr 14 16:30	22° Y 06′20	1.43220 AU
superior conj	7817 May 10 04:43	22° 8 24'33			7818 Apr 19 12:08	9° 8	
minimum elong	7817 May 10 10:19	22° 8 49'21	1°52'18				
	7817 May 14 10:16	Π $\circ 0$		superior conj	7818 Apr 21 09:06	3° 8 07'33	-2°08'59
evening rise	7817 May 20 18:08	11° Ⅲ 39'52		minimum elong	7818 Apr 21 12:07	3° 8 20'09	2°08'58
asc. node	7817 May 24 18:46	19° Ⅱ 05'07		evening rise	7818 May 03 11:39	24° 8 03'41	
	7817 May 31 04:05	0 \circ \odot			7818 May 06 20:22	Π $^{\circ}0$	
evening max el	7817 Jun 05 21:59	7° 5 24'04	18°14'38	asc. node	7818 May 11 15:48	8° Ⅱ 16'44	
retrograde	7817 Jun 13 00:15	10° © 57'57		evening max el	7818 May 20 10:14	20° Ⅲ 29′16	18°05'30
evening set	7817 Jun 15 08:49	10°935'06		retrograde	7818 May 26 22:48	23° Ⅱ 50'55	
inferior conj	7817 Jun 22 12:24	5° © 52'08	1°44'34	evening set	7818 May 29 14:45	23° Ⅱ 16'53	
minimum elong	7817 Jun 22 15:21	5°9345'45	1°43'32	inferior conj	7818 Jun 05 02:14	18° Ⅱ 13'44	2°40'34
min. Earth dist.	7817 Jun 25 21:53	2°956'58	0.59281 AU	minimum elong	7818 Jun 05 05:06	18° Ⅲ 06'32	2°39'47
desc. node	7817 Jun 28 17:53	0°950'31	3.0,201.110	min. Earth dist.	7818 Jun 08 04:14	15° I I10'09	0.61526 AU
morning rise	7817 Jun 29 18:49	0°93031		morning rise	7818 Jun 11 17:22	12° I I12'58	3.01320 AU
morning 1150	7817 Jun 30 03:42	0 €31221 30°R∏		desc. node	7818 Jun 15 14:56	12 II 12 38 10° II 17'58	
direct							
direct	7817 Jul 06 02:38	28° Ⅱ 22'24		direct	7818 Jun 18 10:20	9° ∏ 53'55	2795 4155
	7817 Jul 12 07:32	0°9	27020170	morning max el	7818 Jul 02 15:27	17° I 53'54	21-54-55
morning max el	7817 Jul 20 11:30		27°29'50		7818 Jul 12 18:00	0°9	
	7817 Aug 07 06:07	0°N			7818 Jul 31 00:20	0°N	
morning set	7817 Aug 20 20:07	25° Ω 31'49		morning set	7818 Aug 04 22:52	9° Ω 47'27	
asc. node	7817 Aug 20 18:11	25° Ω 21'39		asc. node	7818 Aug 07 15:08	15° Ω 22'52	
	7817 Aug 22 22:37	0° m		max. Earth dist.	7818 Aug 10 16:53	21° Ω 59'33	1.31988 AU

superior conj	7818 Aug 12 08:35	25° Ω 36'42	0°46'45	superior conj	7819 Jul 27 15:29	10° Ω 03'21	0°21'41
minimum elong	7818 Aug 12 06:41	25° Ω 26′15	0°46'19	minimum elong	7819 Jul 27 14:27	9° Ω 57'49	0°21'22
	7818 Aug 14 08:26	0° m		evening rise	7819 Aug 03 15:20	25° Ω 09'59	
evening rise	7818 Aug 19 03:40	10° m 28'25			7819 Aug 05 22:33	0° m	
	7818 Aug 29 01:21	0∘ ত			7819 Aug 24 09:08	0∘ ⊽	
desc. node	7818 Sep 11 13:56	19° ≙ 25'36		evening max el	7819 Aug 26 09:19	2° ≏ 04'54	23°06'42
evening max el	7818 Sep 13 21:58	21° ≏ 49'08	24°44'56	desc. node	7819 Aug 29 10:59	4° ≏ 45'11	
retrograde	7818 Sep 27 17:55	28° ≙ 46'52		retrograde	7819 Sep 08 18:27	8° ≏ 46'22	
evening set	7818 Oct 03 03:17	27° ≙ 41'49		evening set	7819 Sep 12 15:46	8° ≙ 13'16	
min. Earth dist.	7818 Oct 08 09:06	24° £ 56'02	0.56856 AU	min. Earth dist.	7819 Sep 19 18:11	4° £ 58'27	0.55402 AU
inferior conj	7818 Oct 11 02:35	23° ≙ 10′27	-5°29'02	inferior conj	7819 Sep 21 09:24	4° ≏ 01'34	-5°22'48
minimum elong	7818 Oct 11 05:12	23° ഫ 06'12	5°28'49	minimum elong	7819 Sep 21 04:45	4° ≏ 08'20	5°22'19
morning rise	7818 Oct 19 09:20	19° ≙ 04'30		morning rise	7819 Sep 29 19:54	0° £ 11'17	
direct	7818 Oct 21 22:49	18° ≏ 46'14			7819 Sep 30 18:50	30°R.∭0	
morning max el	7818 Oct 31 08:05	23° ₽ 12'51	19°22'44	direct	7819 Oct 02 19:56	29° m 49'57	
asc. node	7818 Nov 03 14:41	26° ♀ 50'13			7819 Oct 04 20:05	0∘ ⊽	
	7818 Nov 05 22:29	0°M		morning max el	7819 Oct 13 18:19	4° £ 56'30	20°37'47
morning set	7818 Nov 17 11:36	20°M46'27		asc. node	7819 Oct 21 11:41	14° £ 33'04	
C	7818 Nov 22 02:01	0° ∡ ¹			7819 Oct 30 02:12	0°M	
				morning set	7819 Nov 01 18:35	5°M26'51	
superior conj	7818 Nov 25 13:08	6° ≯ 50'43	1°25'41	C			
minimum elong	7818 Nov 25 15:55	7° ∡ ¹04'19	1°25'32	superior conj	7819 Nov 09 06:04	20°M54'41	1°37'26
max. Earth dist.	7818 Dec 02 00:28	19° ∡ ¹05'24	1.38115 AU	minimum elong	7819 Nov 09 07:35	21°M02'23	1°37'26
evening rise	7818 Dec 05 18:04	25° ₹ ¹46'33			7819 Nov 13 19:17	0° ⊼	
	7818 Dec 08 04:40	0°る		max. Earth dist.	7819 Nov 14 08:04	1° х 02′08	1.36074 AU
desc. node	7818 Dec 08 12:57	0° る 35'17		evening rise	7819 Nov 18 06:17	8° ∡ °28'07	
desc. node	7818 Dec 27 18:05	0°≈		desc. node	7819 Nov 25 09:57	21° × 05'54	
evening max el	7819 Jan 10 06:56	16° ≈ 16'41	25°01'31	dese. node	7819 Nov 30 21:15	ිප වී	
retrograde	7819 Jan 22 03:31	23°≈09'33	25 0151		7819 Dec 23 18:59	0° ≈	
evening set	7819 Jan 27 20:02	20°≈47'42		evening max el	7819 Dec 23 19:49	0°≈02'01	26°09'18
asc. node	7819 Jan 30 13:53	17°≈58'05		retrograde	7820 Jan 05 12:19	7°≈13'58	20 07 10
min. Earth dist.	7819 Feb 01 07:52	15°≈46'26	0.67700 AU	evening set	7820 Jan 11 17:26	4°≈42'06	
inferior conj	7819 Feb 02 10:18	13 ≈ 40 20 14° ≈ 19'48	0°56'00	min. Earth dist.	7820 Jan 15 22:34	0°≈15'27	0.66790 AU
minimum elong	7819 Feb 02 09:00	14°≈24'05	0°55'34	mm. Larm dist.	7820 Jan 16 03:37	0 ≈1327 30°Rる	0.00770 AC
morning rise	7819 Feb 07 22:13	8°≈23'00	0 33 34	asc. node	7820 Jan 17 10:57	28°る23'06	
direct	7819 Feb 11 12:22	7°≈08'56		inferior conj	7820 Jan 17 10:37	28° ろ 18'30	0°01'15
morning max el	7819 Feb 18 18:15	11°≈10'59	19°34'27	minimum elong	7820 Jan 17 12:24	28° ප 18'37	0°01'21
•	7819 Mar 03 12:45	27°≈55'04	-0.7m	transit middle	7820 Jan 17 12:24 7820 Jan 17 12:24	28° る 18'37	0°01'21
greatest brilliancy	7819 Mar 04 22:25	27 ≈33 04 0°)	-U. /III	transit begin	7820 Jan 17 12.24 7820 Jan 17 09:33	28° る 27'27	0 01 21
desc. node	7819 Mar 04 22.23	2° ∺ 22'22		transit end	7820 Jan 17 15:15	28°る2727	
morning set	7819 Mar 16 00:18	16°) 51'16		morning rise	7820 Jan 23 08:03	28 30948 22° る 31'00	
morning set	7819 Mar 24 11:23	10 χ 3110		direct	7820 Jan 26 11:03	22 3 31 00 21° 3 35'30	
max. Earth dist.	7819 Mar 28 05:20	5° Υ 54'11	1.44637 AU	morning max el	7820 Feb 02 03:44	21 33330 25° る 14'02	18°42'59
max. Earm dist.	7819 Wai 28 03.20	3 34 11	1.44037 AU	morning max er	7820 Feb 02 03:44 7820 Feb 06 06:15	23 ⊘ 1402 0° ≈	16 42 39
superior conj	7819 Apr 01 12:37	12° Ƴ 45'49	2000122	desc. node	7820 Feb 21 09:23	0 ∞ 22°≈39'55	
minimum elong	7819 Apr 01 09:19	12° Υ 32'34		morning set	7820 Feb 21 09:23 7820 Feb 23 13:07	22 ≈3933 26°≈02'54	
minimum ciong	7819 Apr 12 01:22	0° 8	2 09 19	morning set	7820 Feb 26 01:31	20 ≈ 02 34 0° ∺	
evening rise	7819 Apr 15 09:05	5° 8 33'44		max. Earth dist.	7820 Mar 09 22:34		1.45387 AU
asc. node	7819 Apr 28 12:51	27° 8 00'27		max. Earth dist.	7020 Wai 09 22.34	20 1002	1.43367 AU
asc. node	•	27 3 00 27		aumariar aani	7820 Mar 10 21:02	21°) 38′05	1940!44
avanina may al	7819 Apr 30 16:23	0 <u>П</u> 3° ∏ 51'14	10015115	superior conj minimum elong	7820 Mar 10 21:02 7820 Mar 10 12:00	21° X 02'39	
evening max el	7819 May 03 23:29	7° П 15'15	18 13 13	minimum elong		21 π 0239	1 46 39
retrograde	7819 May 10 08:48				7820 Mar 16 04:42	16° Υ 04'35	
evening set	7819 May 13 07:46	6°∏28'28	2012/04	evening rise	7820 Mar 26 07:06		0.0
inferior conj	7819 May 19 07:14	1° Ⅱ 06'51	3°12'04	greatest brilliancy	7820 Apr 02 15:40	27° Y 52'43	-0.9m
minimum elong	7819 May 19 08:58	1° Ⅱ 01'59	3 11 44	1	7820 Apr 03 23:43	0°8	
in Fronth diet	7819 May 20 06:55	30°R8	0.62625 AII	asc. node	7820 Apr 14 09:55	15° 8 06'40	10042112
min. Earth dist.	7819 May 21 19:56	28° 8 17'04	0.63635 AU	evening max el	7820 Apr 16 10:57	17° 8 22'23	18°43'12
morning rise	7819 May 25 08:57	24° 8 54'32		retrograde	7820 Apr 23 01:59	21° 8 01'40	
direct	7819 Jun 01 03:13	22° 8 15'19		evening set	7820 Apr 26 08:08	20° 8 01'05	2024116
desc. node	7819 Jun 02 11:57	22° ႘ 21'14		inferior conj	7820 May 01 23:23	14° 8 22'44	3°24'16
	7819 Jun 14 17:19	0°П	27942114	minimum elong	7820 May 01 23:44	14° 8 21'40	3°24'10
morning max el	7819 Jun 15 00:07	0° Ⅱ 17'01	27~42'14	min. Earth dist.	7820 May 03 20:51	12° 8 03'09	0.65433 AU
	7819 Jul 06 18:55	0.02		morning rise	7820 May 07 14:41	8° 8 05'44	
morning set	7819 Jul 19 18:31	23° © 39'53		direct	7820 May 14 03:50	5° 8 18'21	
m at the	7819 Jul 22 21:24	0° Ω	1 22750 ***	desc. node	7820 May 19 08:58	6° 8 45'31	26056125
max. Earth dist.	7819 Jul 24 19:22	4° Ω 00'07	1.32750 AU	morning max el	7820 May 27 10:31	13° 8 09'33	26°56'37
asc. node	7819 Jul 25 12:07	5° Ω 28'40			7820 Jun 09 23:58	Π °0	

	7820 Jun 28 10:23	0°©		morning max el	7821 May 09 20:23	26° Y 19'42	25°46'19
morning set	7820 Jul 02 04:03	7° © 00'01			7821 May 13 05:42	0° 8	
max. Earth dist.	7820 Jul 06 12:11	15° © 31'56	1.33993 AU		7821 Jun 03 13:53	0°II	
	7020 1 1 10 16 51	240500120	0006153	morning set	7821 Jun 14 23:34	19° I I37'11	1 25704 411
superior conj	7820 Jul 10 16:51	24°509'20		max. Earth dist.	7821 Jun 18 17:53	26° Ⅱ 39'24	1.35704 AU
minimum elong	7820 Jul 10 17:13	24°511'18	0°06'55		7821 Jun 20 11:33	0 . \odot	
behind sun begin	7820 Jul 10 12:04	23°544'19			7001 1 04 10 06	70017157	0025145
behind sun end	7820 Jul 10 22:23	24°938'19		superior conj	7821 Jun 24 10:06	7°947'57	
asc. node	7820 Jul 11 09:06	25°934'30		minimum elong	7821 Jun 24 12:20	7°959'08	0°37'29
	7820 Jul 13 11:24	0°N		asc. node	7821 Jun 28 06:07	15°536'42	
evening rise	7820 Jul 18 01:40	9° Ω 43'32		evening rise	7821 Jul 02 08:36	24° © 03'18	
	7820 Jul 28 16:15	0° m	21021104		7821 Jul 05 07:14	0°N	20010106
evening max el	7820 Aug 07 01:53	12° m 26'14	21°31'04	evening max el	7821 Jul 20 06:29	23° Ω 22'42	20°10'06
desc. node	7820 Aug 15 08:04	17° m 52'39		retrograde	7821 Jul 30 21:54	28° Ω 37'26	
retrograde	7820 Aug 19 08:46	18° m 31'43		evening set	7821 Aug 01 20:03	28° Ω 27'55	
evening set	7820 Aug 21 21:50	18° m 16'56		desc. node	7821 Aug 02 05:09	28° Ω 23'53	
inferior conj	7820 Aug 31 03:31	14° m 18'24		inferior conj	7821 Aug 10 22:21	24° Ω 29'32	
minimum elong	7820 Aug 30 18:09	14° m 31'31	4°19'40	minimum elong	7821 Aug 10 15:10	24° Ω 40′10	
min. Earth dist.	7820 Aug 31 03:10	14° m 18'54	0.54721 AU	min. Earth dist.	7821 Aug 12 13:51	23° Ω 31′01	0.54996 AU
morning rise	7820 Sep 08 15:25	10° m 27'13		morning rise	7821 Aug 19 09:00	20° Ω 17'24	
direct	7820 Sep 12 05:16	9° Mp 59'26		direct	7821 Aug 23 16:25	19° Ω 37'09	
morning max el	7820 Sep 24 16:16	15° m 53'02	22°12'21	morning max el	7821 Sep 06 06:09	26° Ω 15'31	23°57'32
	7820 Oct 05 13:53	0∘ ರ			7821 Sep 09 20:03	0° m)	
asc. node	7820 Oct 07 08:39	3° ≙ 01'00		asc. node	7821 Sep 24 05:38	22° m/02'53	
morning set	7820 Oct 16 04:52	20° ≙ 15′00			7821 Sep 28 06:09	0∘ ⊽	
	7820 Oct 20 18:53	0°M₊		morning set	7821 Sep 30 16:32	5° ഫ 05'16	
superior conj	7820 Oct 23 07:33	5°M22'33	1°41'39	superior conj	7821 Oct 07 14:39	20° ჲ 05'01	1°39'19
minimum elong	7820 Oct 23 07:43	5°M23'24	1°41'44	minimum elong	7821 Oct 07 13:40	19° £ 59'37	1°39'19
max. Earth dist.	7820 Oct 26 22:29	12°M55'16	1.34342 AU	max. Earth dist.	7821 Oct 09 21:36	25° ♀ 01'01	1.33027 AU
evening rise	7820 Oct 31 10:12	21°M52'08	1.5 15 12 110	max. Dartii dist.	7821 Oct 12 06:09	0°ML	1.55027 110
evening rise	7820 Nov 04 17:58	0° ₹		evening rise	7821 Oct 15 01:56	5°M47'54	
desc. node	7820 Nov 11 07:00	11° х 22'30		2 / 2	7821 Oct 28 08:46	0° ∡ ¹	
dese. node	7820 Nov 23 16:23	0°ਰ		desc. node	7821 Oct 29 04:03	1° × 717'56	
evening max el	7820 Dec 05 08:58	13°₹40'32	27°00'02	evening max el	7821 Nov 17 21:15	27° × ⁷ 00'28	27°26'33
retrograde	7820 Dec 18 15:34	21° ට 00'14	2, 0002	evening man er	7821 Nov 21 08:18	0°중	2, 2000
evening set	7820 Dec 25 07:47	18°る23'38		retrograde	7821 Dec 01 12:18	4°₹19'09	
min. Earth dist.	7820 Dec 29 07:01	14° る 31'17	0.65522 AU	evening set	7821 Dec 08 12:32	1° る 45'13	
inferior conj	7820 Dec 31 08:29	12° る 10'09	-1°00'12	C	7821 Dec 10 15:33	30°R ∡ ¹	
minimum elong	7820 Dec 31 10:14	12° る 05'09	0°59'19	min. Earth dist.	7821 Dec 12 06:58	28° ∡ ¹25'18	0.63924 AU
asc. node	7821 Jan 03 08:01	8° る 58'23		inferior conj	7821 Dec 14 19:52	25° ∡ ¹47'57	-2°06'53
morning rise	7821 Jan 06 13:52	6° ප 34'21		minimum elong	7821 Dec 14 23:48	25° ∡ ³37'47	2°05'11
direct	7821 Jan 09 07:37	5°る53'38		asc. node	7821 Dec 21 05:04	20° ∡ ³35′03	
morning max el	7821 Jan 15 18:29	9° る 19'49	18°08'03	morning rise	7821 Dec 21 12:44	20° ∡ ¹26'54	
	7821 Jan 30 04:02	0° ≈		direct	7821 Dec 23 23:30	19° ∡ 757'04	
morning set	7821 Feb 03 06:52	6° ≈ 42'40		morning max el	7821 Dec 30 11:39	23° ҂ ¹20′23	17°50'16
desc. node	7821 Feb 07 06:21	13° ≈ 10'41			7822 Jan 04 19:02	ರ∘ರ	
	7821 Feb 17 19:02	0°) €		morning set	7822 Jan 16 04:28	18° る 43'57	
					7822 Jan 22 20:04	0° ≈	
superior conj	7821 Feb 18 03:00	0°) 31′22	-1°12'43	desc. node	7822 Jan 25 03:19	3° ≈ 49'57	
minimum elong	7821 Feb 17 18:41	29° ≈ 58'35	1°11'38				
max. Earth dist.	7821 Feb 20 17:56	4°) €38'43	1.45406 AU	superior conj	7822 Jan 29 00:57	10° ≈ 14'03	-0°27'56
evening rise	7821 Mar 06 07:20	25°) 45'45		minimum elong	7822 Jan 28 21:50	10° ≈ 01'21	0°27'22
	7821 Mar 09 00:55	0 ° $\mathbf{\gamma}$		max. Earth dist.	7822 Feb 03 12:55	19° ≈ 03'58	1.44696 AU
greatest brilliancy	7821 Mar 18 21:33	15° Ƴ 07'40	-0.7m		7822 Feb 10 12:20	0°) €	
	7821 Mar 29 20:25	$B_{\circ 0}$		evening rise	7822 Feb 13 19:12	5°) 04'01	
evening max el	7821 Mar 30 18:35	0° 8 58'32	19°28'05		7822 Mar 02 11:27	0 ° Υ	
asc. node	7821 Apr 01 07:01	2° 8 24'21		evening max el	7822 Mar 13 21:00	14° Ƴ 36'16	20°27'52
retrograde	7821 Apr 06 23:03	5° 8 04'12		asc. node	7822 Mar 19 04:07	18° Ƴ 39'16	
evening set	7821 Apr 10 13:07	3° 8 49'02		retrograde	7822 Mar 21 21:30	19° Ƴ 17'19	
-	7821 Apr 14 08:37	30° R Υ		evening set	7822 Mar 25 20:32	17° Ƴ 47'04	
inferior conj	7821 Apr 15 23:21	27° Y 55'36	3°21'21	inferior conj	7822 Mar 31 04:22	11° Y '40'20	3°06'19
minimum elong	7821 Apr 15 22:29	27° Y 58'27	3°21'14	minimum elong	7822 Mar 31 02:37	11° Ƴ 46'17	3°06'01
min. Earth dist.	7821 Apr 17 05:43	26° Ƴ 15'58	0.66824 AU	min. Earth dist.	7822 Mar 31 20:37	10° Ƴ 44'42	0.67771 AU
morning rise	7821 Apr 21 07:30	21° Y 38'07		morning rise	7822 Apr 05 08:29	5° Ƴ 24'47	
direct	7821 Apr 27 10:51	18° Y 54'38		direct	7822 Apr 10 23:06	2° Y ′54'49	
desc. node	7821 May 06 05:58	22° Y 59'58		morning max el	7822 Apr 22 05:19	9° Ƴ 39'01	24°21'17

desc. node	7822 Apr 23 02:57	10° Ƴ 34'52		morning rise	7823 Mar 20 15:07	19°) 21′42	
	7822 May 08 07:05	0°8		direct	7823 Mar 25 15:40	17° 米 11'19	
	7822 May 27 06:07	Π $^{\circ}$ 0		morning max el	7823 Apr 04 15:18	23° ¥ 05'39	22°51'31
morning set	7822 May 28 00:01	1° I 17'40		desc. node	7823 Apr 09 23:56	29°) €08'05	
max. Earth dist.	7822 May 31 15:37		1.37782 AU	dese. Hode	7823 Apr 10 16:44	0°Υ	
max. Latui dist.	7622 Way 31 13.37	1 1143 32	1.57762 AU		-	0°8	
	7000 X 07 15 57	200T 50125	1000115		7823 May 01 15:55		
superior conj	7822 Jun 07 15:57	20° Ⅱ 50'35		morning set	7823 May 08 23:45	11° 8 47'01	
minimum elong	7822 Jun 07 20:09	21° Ⅱ 10′50	1°08'43	max. Earth dist.	7823 May 13 12:09	_	1.40022 AU
	7822 Jun 12 08:25	0 \circ			7823 May 19 13:03	Π $^{\circ}0$	
asc. node	7822 Jun 15 03:10	5° © 31'16					
evening rise	7822 Jun 16 09:36	8° © 02'21		superior conj	7823 May 21 06:10	3° Ⅱ 06′28	-1°38'32
-	7822 Jun 28 18:34	$0^{\circ}\Omega$		minimum elong	7823 May 21 11:47	3° Ⅱ 32'04	1°37'58
evening max el	7822 Jul 03 00:00	5° Ω 03'37	19°09'02	evening rise	7823 May 31 01:33	21° ∏ 31'44	
retrograde	7822 Jul 11 23:11	9° Ω 29'12		asc. node	7823 Jun 02 00:12	25° Ⅱ 13'09	
evening set	7822 Jul 13 21:12	9° Ω 17'54		use. Houe	7823 Jun 04 13:39	0° 9	
•							18°28'40
desc. node	7822 Jul 20 02:13	6° £ 33'33	0040124	evening max el	7823 Jun 16 03:39	17°523'44	18-28-40
inferior conj	7822 Jul 22 07:30	5° Ω 06'00		retrograde	7823 Jun 23 19:11	21° © 12'24	
minimum elong	7822 Jul 22 05:44	5° Ω 08'58	0°39'59	evening set	7823 Jun 25 23:18	20°©54'52	
min. Earth dist.	7822 Jul 25 03:39	3° Ω 11'15	0.56175 AU	inferior conj	7823 Jul 03 13:43	16° © 23'30	0°59'32
morning rise	7822 Jul 30 11:17	0° Ω 19′00		minimum elong	7823 Jul 03 15:45	16° © 19'28	0°58'41
	7822 Jul 31 08:31	30° ₹ ∽		desc. node	7823 Jul 06 23:17	13° © 42'53	
direct	7822 Aug 04 14:52	29° © 17'36		min. Earth dist.	7823 Jul 06 22:29	13° © 44'23	0.58027 AU
	7822 Aug 08 21:18	0°N		morning rise	7823 Jul 11 04:47	11° © 00'19	
morning max el	7822 Aug 18 19:09		25°38'29	direct	7823 Jul 17 03:30	9° 5 29'16	
morning max cr	7822 Sep 04 23:25	0° m)	23 30 27	morning max el	7823 Jul 31 12:57	17° © 09'13	26°58'32
,	-			morning max er			20 38 32
asc. node	7822 Sep 11 02:37	11° mp 30'05			7823 Aug 11 03:42	$0^{\circ}\Omega$	
morning set	7822 Sep 15 03:58	19° m 53'09			7823 Aug 28 09:04	0°Щ	
	7822 Sep 19 19:35	0∘ ऌ		asc. node	7823 Aug 28 23:36	1° m)14'45	
				morning set	7823 Aug 30 13:27	4°₩32'38	
superior conj	7822 Sep 22 01:07	4° £ 55'19	1°31'08				
minimum elong	7822 Sep 21 23:18	4° £ 45'19	1°30'58	superior conj	7823 Sep 06 12:53	19° m 46'09	1°17'40
max. Earth dist.	7822 Sep 23 03:47	7° £ 22'05	1.32157 AU	minimum elong	7823 Sep 06 10:39	19° m 33'50	1°17'20
evening rise	7822 Sep 29 02:17	20° ≏ 06'41		max. Earth dist.	7823 Sep 06 13:41	19° m 50'39	1.31732 AU
e vennig 115e	7822 Oct 04 00:48	0°M		man. Darin diot.	7823 Sep 11 04:21	0₀ ʊ	1.51752110
daga mada		20°M43'28		avanina riaa	-	0 == 4° £ 39'44	
desc. node	7822 Oct 16 01:09			evening rise	7823 Sep 13 08:29		
	7822 Oct 22 14:26	0° ∡ ¹			7823 Sep 26 17:48	0°M	
evening max el	7822 Oct 31 06:20	9° ∡ ⁴48'13	27°22'42	desc. node	7823 Oct 02 22:13	9°M26'20	
retrograde	7822 Nov 14 01:46	17° ∡ 701'51		evening max el	7823 Oct 13 09:21	21°M50'44	26°45'16
evening set	7822 Nov 21 04:29	14° ∡ ³39'56		retrograde	7823 Oct 27 07:07	28° ™ 59'10	
min. Earth dist.	7822 Nov 24 20:34	11° ∡¹ 47'15	0.62045 AU	evening set	7823 Nov 03 03:27	27°M00'14	
inferior conj	7822 Nov 27 19:35	9° ₰ 04'16	-3°15'50	min. Earth dist.	7823 Nov 06 23:19	24°M23'49	0.59980 AU
minimum elong	7822 Nov 28 01:38	8° ₹ '50'19	3°13'37	inferior conj	7823 Nov 10 04:08	21°M49'30	-4°21'14
morning rise	7822 Dec 05 00:53	4° ҂ 01'30		minimum elong	7823 Nov 10 11:18	21°M35'04	4°19'16
direct	7822 Dec 07 07:22	3° ∡ ³38'55		morning rise	7823 Nov 17 21:29	17°M08'15	
asc. node	7822 Dec 08 02:05	3° х 41'39		direct	7823 Nov 20 03:01	16°M49'44	
	7822 Dec 08 02:03 7822 Dec 14 04:08	7° ∡ 108'05	17950124	asc. node	7823 Nov 24 23:06	18°M21'39	
morning max el			17 30 24				10000141
	7822 Dec 28 23:48	0°る		morning max el	7823 Nov 27 16:34	20°M33'42	18°09'41
morning set	7822 Dec 29 23:34	1° る 46'36			7823 Dec 04 18:30	0° ∡ ¹	
				morning set	7823 Dec 13 10:01	15° ∡ 31'48	
superior conj	7823 Jan 10 00:12	21° る 10'28	0°14'40		7823 Dec 21 04:27	0° ප	
minimum elong	7823 Jan 10 01:33	21° る 16'14	0°14'35				
behind sun begin	7823 Jan 09 21:55	21° ට 00'46		superior conj	7823 Dec 23 00:01	3° る 17'18	0°49'33
behind sun end	7823 Jan 10 05:11	21° る 31'42		minimum elong	7823 Dec 23 03:19	3° ට 32'11	0°49'13
desc. node	7823 Jan 12 00:20	24° る 34'10		desc. node	7823 Dec 29 21:20	15° る 19'38	
***************************************	7823 Jan 15 06:40	0° ≈		max. Earth dist.	7823 Dec 30 15:33		1.41474 AU
max. Earth dist.	7823 Jan 17 04:48		1.43334 AU	evening rise	7824 Jan 04 16:12	24°る54'50	1.41474710
			1.43334 AU	evening rise			
evening rise	7823 Jan 24 09:48	14°≈36'56			7824 Jan 07 20:34	0° ≈	
	7823 Feb 03 12:44	0° ∀			7824 Jan 28 09:44	0° ∀	
evening max el	7823 Feb 24 17:54	28° ¥ 15′02	21°39'17	evening max el	7824 Feb 07 10:16	11° 米 56′12	22°57'53
	7823 Feb 26 13:57	0 ° $\mathbf{\gamma}$		retrograde	7824 Feb 17 15:06	17° ¥ 59′09	
retrograde	7823 Mar 05 19:21	3° Y 36'59		asc. node	7824 Feb 20 22:15	17° ₩ 04'35	
asc. node	7823 Mar 06 01:12	3° Y 36'41		evening set	7824 Feb 22 11:42	15°) 58′40	
evening set	7823 Mar 10 04:35	1° Y 51'26		inferior conj	7824 Feb 27 20:45	9°) 33′39	2°06'46
Č	7823 Mar 12 02:16	30° ₹		minimum elong	7824 Feb 27 18:31	9°)(41'24	
inferior conj	7823 Mar 15 12:08	25° ₩ 33'55	2°41'04	min. Earth dist.	7824 Feb 27 12:13	10° X 03'09	0.68361 AU
minimum elong	7823 Mar 15 12:00	25° X 41'36		morning rise	7824 Mar 04 01:14	3° ¥ 26′04	
min. Earth dist.	7823 Mar 15 15:32		0.68278 AU	direct	7824 Mar 08 11:42	1° H 37'53	
mm. Bartii dist.	1045 IVIAI 13 13.32	23 八 22 08	0.00270 AU	uncet	1024 WIAI UO 11.42	1 N3/33	

morning max el	7824 Mar 17 05:39	6° ¥ 42'11	21°25'58	minimum elong	7825 Feb 11 02:31	23° ≈ 41'47	1°23'32
desc. node	7824 Mar 26 20:54	18°) (23'40	21 23 36	morning rise	7825 Feb 16 12:49	17°≈34'15	1 23 32
dese. Hode	7824 Apr 04 01:19	0°Υ		direct	7825 Feb 20 10:00	16°≈08'12	
morning set	7824 Apr 17 19:51	21° Υ 00'27		morning max el	7825 Feb 28 03:04	20°≈29'51	20°11'02
. 8	7824 Apr 23 10:04	0°8		3 3	7825 Mar 07 23:26	0°) €	
max. Earth dist.	7824 Apr 24 13:20		1.42149 AU	desc. node	7825 Mar 13 17:50	8°) €09'25	
	•			morning set	7825 Mar 27 19:27	29°) 21'11	
superior conj	7824 May 02 00:09	14° 8 25'48	-2°01'10		7825 Mar 28 05:30	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	7824 May 02 05:07	14° 8 47'19	2°00'56	max. Earth dist.	7825 Apr 06 21:35	15° Ƴ 12′00	1.43895 AU
	7824 May 10 18:46	$\Pi^{\circ}0$					
evening rise	7824 May 13 04:35	4° Ⅱ 22'33		superior conj	7825 Apr 12 17:50	24° Y 40'24	-2°11'26
asc. node	7824 May 18 21:15	14° Ⅲ 37'40		minimum elong	7825 Apr 12 18:31	24° Y 43'10	2°11'30
	7824 May 29 07:44	0 \circ \odot			7825 Apr 15 23:03	9° 8	
evening max el	7824 May 29 13:48	0° © 15'09	18°08'23	evening rise	7825 Apr 25 14:01	16° 8 23'51	
retrograde	7824 Jun 05 09:05	3°5642'14			7825 May 03 12:34	$\Pi^{\circ}0$	
evening set	7824 Jun 07 20:41	3° © 15'03		asc. node	7825 May 05 18:18	3° Ⅲ 38'14	
	7824 Jun 12 21:58	30°RⅡ		evening max el	7825 May 13 02:52		18°07'26
inferior conj	7824 Jun 14 16:58	28° Ⅱ 23'29	2°11'37	retrograde	7825 May 19 12:53	16° Ⅱ 49'05	
minimum elong	7824 Jun 14 20:05	28° Ⅱ 16'17		evening set	7825 May 22 07:49	16° Ⅱ 09'51	2056122
min. Earth dist.	7824 Jun 18 00:21	25° Ⅲ 21'28 22° Ⅲ 33'07	0.60230 AU	inferior conj	7825 May 28 13:44	10° I I58'57	
morning rise desc. node	7824 Jun 21 16:43	21° I I53'39		minimum elong	7825 May 28 16:12 7825 May 31 10:41	10°Ⅲ52'28 7°Ⅲ58'32	2°55'59 0.62456 AU
direct	7824 Jun 22 20:19 7824 Jun 28 05:18	20° I I29'53		min. Earth dist. morning rise	7825 Jun 03 22:50	7 П 38 32 4° П 52'20	0.02430 AU
morning max el	7824 Jul 12 13:27	20 H2933 28°H26'00	27945115	desc. node	7825 Jun 09 17:21	2° I I26′04	
morning max ci	7824 Jul 12 13:27 7824 Jul 14 02:08	0°95	27 43 13	direct	7825 Jun 10 17:26	2° II 22'55	
	7824 Aug 03 23:21	0°Ω		morning max el	7825 Jun 24 19:31	10° I I25'15	27°53'52
morning set	7824 Aug 13 19:14	18° Ω 58'28		morning max er	7825 Jul 10 02:45	0°95	27 33 32
asc. node	7824 Aug 14 20:35	21° Ω 11'16			7825 Jul 27 06:28	$0^{\circ}\Omega$	
	7824 Aug 18 22:47	0° m/		morning set	7825 Jul 28 19:15	3° Ω 04'43	
max. Earth dist.	7824 Aug 19 23:35	2° m/ 16'11	1.31757 AU	asc. node	7825 Aug 01 17:35	11° Ω 14'49	
	Č	Î		max. Earth dist.	7825 Aug 03 05:42	14° Ω 27'50	1.32247 AU
superior conj	7824 Aug 21 00:11	4° m 31'57	0°59'21				
minimum elong	7824 Aug 20 22:01	4° Mp 20′00	0°58'55	superior conj	7825 Aug 05 09:15	19° Ω 07'13	0°36'36
evening rise	7824 Aug 27 18:19	19° m 20'34		minimum elong	7825 Aug 05 07:39	18° Ω 58'31	0°36'12
	7824 Sep 01 22:25	0∘ ত			7825 Aug 10 08:42	0° ™	
desc. node	7824 Sep 18 19:17	27° ≏ 09'41		evening rise	7825 Aug 12 05:50	4°№03'26	
	7824 Sep 21 05:36	0° M			7825 Aug 26 00:58	0。 ত	
evening max el	7824 Sep 24 04:33	3° ™ 02'43	25°35'59	evening max el	7825 Sep 05 17:20	13° ≙ 32'47	24°04'01
retrograde	7824 Oct 08 02:51	10°M05'48		desc. node	7825 Sep 05 16:21	13° ≏ 30′24	
evening set	7824 Oct 14 04:32	8°M39'56		retrograde	7825 Sep 19 10:30	20° £ 25'18	
min. Earth dist.	7824 Oct 18 16:47		0.57922 AU	evening set	7825 Sep 24 04:56	19° ≙ 35'19	
inferior conj	7824 Oct 21 18:13	3°M54'32		min. Earth dist.	7825 Sep 30 04:02	16° £ 38'55	0.56154 AU
minimum elong	7824 Oct 21 23:41	3°M44'55	5°11'34	inferior conj	7825 Oct 02 12:02	15° £ 13'01	
marning rise	7824 Oct 28 13:26	30°R ≏ 29° ≏ 36'06		minimum elong	7825 Oct 02 11:44	15° ♀ 13'29 11° ♀ 14'44	5°32'31
morning rise direct	7824 Oct 29 21:11	29° £ 36'06 29° £ 18'41		morning rise direct	7825 Oct 10 20:42 7825 Oct 13 14:10	11° 2 214444 10° 2 55'28	
direct	7824 Nov 01 06:07 7824 Nov 04 19:09	29 = 1841 0° M		morning max el	7825 Oct 23 14:53	10 = 33 28 15° Ω 38'32	10°51'57
morning max el	7824 Nov 04 19:09 7824 Nov 09 21:17	3°M27'11	18°49'42	asc. node	7825 Oct 28 17:07	21° ⊆ 35'50	19 31 37
asc. node	7824 Nov 10 20:07	4°M24'45	10 47 42	asc. node	7825 Nov 03 00:25	0°M	
morning set	7824 Nov 26 07:02	29°M45'54		morning set	7825 Nov 10 11:15	14°ML19'36	
morning sec	7824 Nov 26 09:55	0° ⊼ ¹		morning sec	7020110110	1. 1101220	
				superior conj	7825 Nov 18 06:05	0° ≯ 06′20	1°31'39
superior conj	7824 Dec 04 19:38	16° ∡ °20′30	1°15'07	minimum elong	7825 Nov 18 08:22	0° ∡ 17'41	1°31'34
minimum elong	7824 Dec 04 22:56	16° ∡ °36′10	1°14'51	•	7825 Nov 18 04:49	0°⊀	
max. Earth dist.	7824 Dec 11 21:45	29° ∡ ¹20'54	1.39354 AU	max. Earth dist.	7825 Nov 24 03:40	11° ∡ ³31'17	1.37221 AU
	7824 Dec 12 06:36	ರ∘ರ		evening rise	7825 Nov 27 21:55	18° ₹ 25'08	
evening rise	7824 Dec 15 20:21	6° る 11'17		desc. node	7825 Dec 02 15:19	26° х 39′30	
desc. node	7824 Dec 15 18:18	6° ප 02'33			7825 Dec 04 15:11	0°ಕ	
	7824 Dec 30 21:57	0° ≈			7825 Dec 25 03:48	0° ≈	
evening max el	7825 Jan 20 00:01	25° ≈ 40′38	24°17'47	evening max el	7826 Jan 02 13:11	9° ≈ 28'17	25°32'00
	7825 Jan 25 02:19	0° ∀		retrograde	7826 Jan 14 19:00	16° ≈ 30′18	
retrograde	7825 Jan 31 07:19	2° 		evening set	7826 Jan 20 16:51	14° ≈ 04'03	
evening set	7825 Feb 05 16:18	0°) €04'01		asc. node	7826 Jan 24 16:22	9° ≈ 47'08	
	7825 Feb 05 18:11	30°R≈		min. Earth dist.	7826 Jan 25 01:51	9°≈17'14	0.67362 AU
asc. node	7825 Feb 06 19:19	29°≈00'49	0.60040.477	inferior conj	7826 Jan 26 09:02	7°≈37'20	0°33'40
min. Earth dist.	7825 Feb 10 08:26	24°≈42'38	0.68048 AU	minimum elong	7826 Jan 26 08:12	7°≈40'01	0°33'26
inferior conj	7825 Feb 11 04:19	23° ≈ 35'44	1°24'07	morning rise	7826 Jan 31 23:56	1° ≈ 43'57	

T' /	7026 F. L. 04. 00.11	0020102		. ,	7027 1 04 11 21	270752120	
direct	7826 Feb 04 09:11	0° ≈ 38'02		evening set	7827 Jan 04 11:31	27° る 53'29	
morning max el	7826 Feb 11 08:25	4° ≈ 28'33	19°10'27	min. Earth dist.	7827 Jan 08 14:08	23° る 41'36	0.66303 AU
greatest brilliancy	7826 Feb 24 17:48	22° ≈ 23'39	-0.7m	inferior conj	7827 Jan 10 08:53	21° る 33'46	-0°24'01
desc. node	7826 Feb 28 14:47	28° ≈ 17'27		minimum elong	7827 Jan 10 09:32	21° る 31'47	0°23'36
	7826 Mar 01 17:30	0° ∀		asc. node	7827 Jan 11 13:26	20° る 09'27	
morning set	7826 Mar 06 20:43	7° ¥ 55'31		morning rise	7827 Jan 16 08:24	15° る 50'52	
max. Earth dist.	7826 Mar 20 12:38	29° ₩ 13'55	1.45053 AU	direct	7827 Jan 19 07:20	15° る 01'59	
	7826 Mar 21 00:20	0° Y		morning max el	7827 Jan 25 20:28	18° る 33'34	18°26'02
				. <i>G</i>	7827 Feb 03 14:32	0° ≈	
superior conj	7826 Mar 23 11:52	3° Y ′55'12	2003132	morning set	7827 Feb 14 21:20	17° ≈ 43'59	
minimum elong	7826 Mar 23 05:37	3° Υ 30'26		desc. node	7827 Feb 15 11:45	17 ≈ 4337 18° ≈ 41'21	
_			2 03 13	desc. node			
evening rise	7826 Apr 07 01:37	27° Y ′28'09			7827 Feb 22 14:59	0° ∀	
	7826 Apr 08 14:29	0° 8					
asc. node	7826 Apr 22 15:22	22° 8 07'04		superior conj	7827 Mar 02 16:46	12° ∺ 41′00	
evening max el	7826 Apr 26 15:44	26° 8 55'06	18°25'01	minimum elong	7827 Mar 02 07:09	12° ∺ 03′22	1°34'41
	7826 May 01 00:13	Π° 0		max. Earth dist.	7827 Mar 03 07:44	13° ∺ 39'37	1.45495 AU
retrograde	7826 May 03 02:17	0° Ⅲ 23'41			7827 Mar 13 17:57	$0^{\circ}\mathbf{\Upsilon}$	
	7826 May 05 03:48	30° ₹ 8		evening rise	7827 Mar 18 13:49	7° Ƴ 36'17	
evening set	7826 May 06 04:22	29° 8 30'59		greatest brilliancy	7827 Mar 28 08:53	23° Y ′00'44	-0.8m
inferior conj	7826 May 11 23:55	24° 8 02'07	3°19'17	8	7827 Apr 01 23:15	0°8	
minimum elong	7826 May 12 01:03	23° 8 58'46	3°19'05	asc. node	7827 Apr 09 12:26	9° 8 54'16	
min. Earth dist.	•	21° 8 23'43	0.64454 AU		•	10° B 29'01	19°00'18
	7826 May 14 06:13	_	0.04434 AU	evening max el	7827 Apr 10 01:48	. •	19 00 18
morning rise	7826 May 17 20:50	17° 8 47'26		retrograde	7827 Apr 16 21:33	14° 8 18'09	
direct	7826 May 24 13:45	15° 8 03'14		evening set	7827 Apr 20 07:02	13° 8 11'14	
desc. node	7826 May 27 14:22	15° 8 32'31		inferior conj	7827 Apr 25 19:46	7° 8 26'01	3°24'40
morning max el	7826 Jun 07 05:01	23° 8 01'18	27°26'21	minimum elong	7827 Apr 25 19:34	7° 8 26'40	3°24'35
	7826 Jun 13 09:16	Π° 0		min. Earth dist.	7827 Apr 27 10:36	5° 8 22'59	0.66079 AU
	7826 Jul 03 09:47	0 \circ \odot		morning rise	7827 May 01 07:39	1° 8 08'33	
morning set	7826 Jul 12 10:58	16° 5 43'59			7827 May 02 18:43	30° ŖƳ	
max. Earth dist.	7826 Jul 17 04:23	26°©16'16	1.33221 AU	direct	7827 May 07 17:00	28° Ƴ 21'51	
	7826 Jul 18 23:14	0°N			7827 May 13 04:02	0°8	
asc. node	7826 Jul 19 14:35	1° Ω 20'59		desc. node	7827 May 14 11:22	0° 8 47'52	
use. Houe	7020 Jul 17 14.55	1 002037		morning max el	7827 May 20 15:31	6° 8 03'16	26°29'14
	7026 1 1 20 14 05	20 025145	0000150	morning max er	•		20 29 14
superior conj	7826 Jul 20 14:05	3° Ω 25'45	0°09'58		7827 Jun 08 01:30	0°II	
minimum elong	7826 Jul 20 13:35	3° Ω 23'06	0°09'45	morning set	7827 Jun 25 15:06	29° Ⅱ 47'32	
behind sun begin	7826 Jul 20 09:13	2° Ω 59'49			7827 Jun 25 17:45	0	
behind sun end	7826 Jul 20 17:58	3° Ω 46′24		max. Earth dist.	7827 Jun 29 16:50	7° © 38'16	1.34670 AU
evening rise	7826 Jul 27 17:12	18° Ω 42'17					
	7826 Aug 02 06:08	0° m ∕		superior conj	7827 Jul 04 12:23	17° 5 21'16	-0°19'47
evening max el	7826 Aug 18 05:56	23° Mp 46'36	22°24'53	minimum elong	7827 Jul 04 13:30	17° 5 27'01	0°19'40
desc. node	7826 Aug 23 13:26	27° m 57'51		asc. node	7827 Jul 06 11:36	21°926'05	
	7826 Aug 28 17:08	0∘ ⊽			7827 Jul 10 13:43	$0^{\circ}\Omega$	
retrograde	7826 Aug 31 05:31	0° £ 14'36		evening rise	7827 Jul 12 02:24	3°Ω11'22	
renograde	7826 Sep 02 19:03	30°R, Mp		evening rise	7827 Jul 27 07:38	0° m)	
evening set	7826 Sep 03 11:51	29° m 51'08		evening max el	7827 Jul 31 03:00	4° m) 20'03	20°54'20
•		-	0.55002 AU	•			20 34 20
min. Earth dist.	7826 Sep 11 12:31	•		desc. node	7827 Aug 10 10:31	10° Mp 01'01	
inferior conj	7826 Sep 12 12:09	25° Mp 46'37		retrograde	7827 Aug 11 18:00	10° Mp 05'17	
minimum elong	7826 Sep 12 04:45	25° m 57'05	5°02'30	evening set	7827 Aug 13 22:33	9° m 53'50	
morning rise	7826 Sep 20 23:25	21° m 58'31		inferior conj	7827 Aug 23 04:41	5° Mp 56'46	
direct	7826 Sep 24 05:18	21° Mp 34'44		minimum elong	7827 Aug 22 19:29	6° ™ 09'50	3°38'33
morning max el	7826 Oct 05 19:29	27° Mp 00'40	21°16'02	min. Earth dist.	7827 Aug 23 21:44	5° Mg 32'35	0.54719 AU
	7826 Oct 08 16:19	0∘ ত		morning rise	7827 Aug 31 16:37	1° m 59'25	
asc. node	7826 Oct 15 14:06	9° ≙ 39'10		direct	7827 Sep 04 13:23	1° m 27'26	
morning set	7826 Oct 25 19:56	29° ₽ 04'11		morning max el	7827 Sep 17 13:16	7° Mp 40′08	22°56'40
Ü	7826 Oct 26 06:39	0° M ,		asc. node	7827 Oct 02 11:07	28° m/22'43	
					7827 Oct 03 08:19	0∘ <u>⊽</u>	
superior conj	7826 Nov 02 03:04	14° M 21'29	1°40'04	morning set	7827 Oct 10 07:01	0 ─ 13° 亞 53'58	
		14°M26'17	1°40'08	morning set	7027 000 10 07.01	15 = 55 50	
minimum elong	7826 Nov 02 04:00			gunories con:	7027 0 -+ 17 07-16	200 0 5/12/	10/11/25
max. Earth dist.	7826 Nov 06 14:10	23°M25'41	1.35294 AU	superior conj	7827 Oct 17 07:16	28° Ω 56'26	1°41'25
	7826 Nov 09 23:11	0° ∡¹		minimum elong	7827 Oct 17 06:54	28° ♀ 54'30	1°41'28
evening rise	7826 Nov 10 17:20	1° ∡ ¹26′00			7827 Oct 17 19:10	0° M ₊	
desc. node	7826 Nov 19 12:22	17° ∡ "05′02		max. Earth dist.	7827 Oct 20 08:21	5°M23'08	1.33728 AU
	7826 Nov 27 16:14	0°ප		evening rise	7827 Oct 25 02:41	15°M04'12	
evening max el	7826 Dec 16 02:25	23° る 12'29	26°33'21		7827 Nov 02 03:05	0° ∡ ¹	
	7826 Dec 26 02:44	0° ≈		desc. node	7827 Nov 06 09:25	7° ∡ 13'27	
retrograde	7826 Dec 29 01:18	0° ≈ 28'01			7827 Nov 22 09:39	ರ∘ರ	
=	7826 Dec 31 20:10	30°Ŗ₹		evening max el	7827 Nov 28 15:15	6°₹43'48	27°14'33
				5			

	7827 Dec 12 01:48	14° る 03'53			7020 N 22 10-51	27° ₹ 08'56	
retrograde				retrograde	7828 Nov 23 19:51		
evening set	7827 Dec 18 22:07	11° る 27'05	0.64005.477	evening set	7828 Nov 30 21:56	24° 🖈 38'34	0.601.45.433
min. Earth dist.	7827 Dec 22 19:01		0.64885 AU	min. Earth dist.	7828 Dec 04 14:45	21° ₹ 31'18	0.63147 AU
inferior conj	7827 Dec 25 01:33	5° る 19'55		inferior conj	7828 Dec 07 08:22	18° ₹ 49'41	
minimum elong	7827 Dec 25 04:11	5° る 12'40	1°26'43	minimum elong	7828 Dec 07 13:14	18° ∡ ³37'38	2°34'09
asc. node	7827 Dec 29 10:29	1° る 05'15		morning rise	7828 Dec 14 06:29	13° ∡ ³36′15	
morning rise	7827 Dec 31 11:40	29° ₹ ′50′19		asc. node	7828 Dec 15 07:32	13° ∡ 18'15	
	7827 Dec 31 03:34	30°₽ ҂ 7		direct	7828 Dec 16 14:57	13° ∡ 10′04	
direct	7828 Jan 03 02:12	29° √ 14'42		morning max el	7828 Dec 23 06:01	16° х 35′02	17°48'08
	7828 Jan 06 01:06	0°ಕ		Č	7829 Jan 01 18:53	万 °0	
morning max el	7828 Jan 09 12:40	²°₹38'16	17°58'24	morning set	7829 Jan 08 11:09	11° る 30'39	
•	7828 Jan 27 03:33	29° る 00'31	17 30 24	desc. node	7829 Jan 19 05:42	29°る58'27	
morning set				desc. node			
	7828 Jan 27 17:52	0° ≈			7829 Jan 19 06:04	0° ≈	
desc. node	7828 Feb 02 08:43	9° ≈ 16′18					
				superior conj	7829 Jan 20 12:05	2° ≈ 04'45	-0°09'12
superior conj	7828 Feb 10 03:42	21° ≈ 50'41	-0°53'59	minimum elong	7829 Jan 20 11:08	2° ≈ 00'49	0°08'57
minimum elong	7828 Feb 09 21:23	21° ≈ 25'34	0°53'04	behind sun begin	7829 Jan 20 03:17	1° ≈ 28'14	
max. Earth dist.	7828 Feb 14 03:24	28° ≈ 09'27	1.45189 AU	behind sun end	7829 Jan 20 19:00	2°≈33'20	
	7828 Feb 15 07:33	0° ∀		max. Earth dist.	7829 Jan 26 20:56	12° ≈ 26'49	1.44181 AU
evening rise	7828 Feb 26 07:14	17°) €03'47		evening rise	7829 Feb 04 18:22	26°≈24'03	
evening rise	7828 Mar 05 18:10	0° Υ		evening rise	7829 Feb 07 02:41	0° \	
1 '11'			0.6				
greatest brilliancy	7828 Mar 11 13:00	8° Ƴ 39'53	-0.6m		7829 Feb 27 18:42	0° Υ	
evening max el	7828 Mar 23 07:14	24° Y 05'44	19°51'48	evening max el	7829 Mar 06 07:15	7° Ƴ 44'21	20°57'01
asc. node	7828 Mar 26 09:31	26° Ƴ 47′10		asc. node	7829 Mar 13 06:36	12° Ƴ 31'34	
retrograde	7828 Mar 30 19:36	28° Y 25'57		retrograde	7829 Mar 14 18:06	12° Ƴ 42'51	
evening set	7828 Apr 03 13:18	27° Ƴ 04'25		evening set	7829 Mar 18 21:12	11° Ƴ 06′18	
inferior conj	7828 Apr 08 22:12	21° Y ′04'47	3°16'21	inferior conj	7829 Mar 24 04:41	4° Ƴ 54'36	2°56'48
minimum elong	7828 Apr 08 20:55	21° Y ′09'06	3°16'09	minimum elong	7829 Mar 24 02:41	5° Y 01′29	
min. Earth dist.	7828 Apr 09 22:22	19° Υ 43'45	0.67277 AU	min. Earth dist.	7829 Mar 24 15:23	4°Υ17'35	0.68039 AU
morning rise	7828 Apr 14 04:15	14° Υ 47'43	0.07277110	mm. Earth tist.	7829 Mar 28 00:05	30° ₹	0.00037710
•	•	12° Y 09'13					
direct	7828 Apr 20 02:17			morning rise	7829 Mar 29 07:58	28°) (40'02	
desc. node	7828 Apr 30 08:22	17° Ƴ 39'52		direct	7829 Apr 03 16:39	26°) 17'41	
morning max el	7828 May 02 01:09	19° Ƴ 19'03	25°11'22		7829 Apr 11 12:27	0 ° $\mathbf{\Upsilon}$	
	7828 May 11 02:54	9° 8		morning max el	7829 Apr 14 10:11	2° Ƴ 41'59	23°43'00
	7828 May 31 04:03	$\Pi^{\circ}0$		desc. node	7829 Apr 17 05:20	5° Ƴ 42'20	
morning set	7828 Jun 07 03:11	12° Ⅱ 02'34			7829 May 05 05:08	6^\circB	
max. Earth dist.	7828 Jun 10 18:40	18° Ⅱ 42'20	1.36551 AU	morning set	7829 May 19 17:47	23° 8 14'52	
	7828 Jun 16 15:59	0°9		max. Earth dist.	7829 May 23 14:27	29° 8 56'14	1.38733 AU
	7020 Juli 10 13.37	0		max. Earth dist.	7829 May 23 15:18	0° Ⅱ	1.50755710
aumorior coni	7020 Jun 17 01:10	096245120	0051114		7629 Way 23 13.16	υд	
superior conj	7828 Jun 17 01:10	0°545'20			7020 14 21 00 74	120 T 20120	1000110
minimum elong	7828 Jun 17 04:15	1° © 00'33	0°50'47	superior conj	7829 May 31 00:54	13° Ⅱ 29'28	
asc. node	7828 Jun 22 08:37	11°525'28		minimum elong	7829 May 31 05:51	13° ∏ 52'44	1°21'36
evening rise	7828 Jun 25 07:08	17° © 23'09			7829 Jun 08 14:14	0	
	7828 Jul 01 18:46	$0 {\circ} \Omega$		evening rise	7829 Jun 09 04:41	1° 5 010'30	
evening max el	7828 Jul 12 13:09	15° Ω 34'46	19°41'33	asc. node	7829 Jun 09 05:39	1° © 15'11	
retrograde	7828 Jul 22 11:13	20° Ω 28'05		evening max el	7829 Jun 25 11:28	27°533'35	18°49'21
evening set	7828 Jul 24 07:45	20° Ω 18'34		Č	7829 Jun 28 11:34	$0^{\circ}\Omega$	
desc. node	7828 Jul 27 07:37	19° Ω 26'31		retrograde	7829 Jul 03 19:48	1° Ω 41'16	
inferior conj	7828 Aug 02 04:16	16° Ω 15'39	-1°47'11	evening set	7829 Jul 05 20:01	1° Ω 27'51	
•	-			evening set			
minimum elong	7828 Aug 01 23:22	16° Ω 23'18			7829 Jul 09 13:22	30°Rூ	0005100
min. Earth dist.	7828 Aug 04 09:47		0.55393 AU	inferior conj	7829 Jul 13 21:58	27° © 08'27	0°05'02
morning rise	7828 Aug 10 12:44	11° Ω 49'15		minimum elong	7829 Jul 13 22:10	27° © 08'06	0°04'50
direct	7828 Aug 15 04:15	11° Ω 01'19		transit middle	7829 Jul 13 22:10	27° © 08'06	0°04'50
morning max el	7828 Aug 29 02:07	17° Ω 56'49	24°42'04	transit begin	7829 Jul 13 18:38	27° © 14'29	
	7828 Sep 08 00:53	0° m		transit end	7829 Jul 14 01:42	27° © 01'41	
asc. node	7828 Sep 18 08:06	17° m 36'11		desc. node	7829 Jul 14 04:40	26°956'18	
morning set	7828 Sep 23 18:46	28° m 43'38		min. Earth dist.	7829 Jul 17 01:42	24°952'22	0.56903 AU
	7828 Sep 24 09:04	ე∘ ი		morning rise	7829 Jul 21 20:53	22° © 05'18	0.20705710
	7020 DCp 24 07.04	0 ==		•			
	7020 0 20 14 02	120 0 4210=	102721	direct	7829 Jul 27 09:14	20°951'42	2601515
superior conj	7828 Sep 30 16:03	13° Ω 43'07		morning max el	7829 Aug 10 16:33	28°5518'38	26°15'54
minimum elong	7828 Sep 30 14:39	13° ≏ 35'31	1°36'28		7829 Aug 12 08:48	$0^{\circ}\Omega$	
max. Earth dist.	7828 Oct 02 10:32	17° ≏ 34'24	1.32594 AU		7829 Sep 01 13:16	0° ™	
evening rise	7828 Oct 07 22:24	29° ≙ 10′29		asc. node	7829 Sep 05 05:05	7° m 11'27	
	7828 Oct 08 08:07	0° M .		morning set	7829 Sep 08 05:30	13° m 28'09	
desc. node	7828 Oct 23 06:30	26°M57'28		-	-		
	7828 Oct 25 05:44	0° ∡ 7		superior conj	7829 Sep 15 03:15	28° m 34'18	1°26'02
evening max el	7828 Nov 10 02:17	19° х 51'09	27°28'55	minimum elong	7829 Sep 15 01:13	28° m 23'00	
		-, 510)	000			<u></u>	0

	7829 Sep 15 18:44	0∘ ⊽		minimum elong	7830 Aug 30 12:48	13° m) 11'50	1°10'05
max. Earth dist.	7829 Sep 15 18:30	29° m 58'41	1.31917 AU	evening rise	7830 Sep 06 09:32	28° mp 14'18	
evening rise	7829 Sep 22 01:30	13° Ω 36'12		Č	7830 Sep 07 05:29	0∘ <u>⊽</u>	
Č	7829 Sep 30 09:44	0°M			7830 Sep 23 20:44	0° M .	
desc. node	7829 Oct 10 03:35	16°M06'33		desc. node	7830 Sep 27 00:39	4°M27'00	
	7829 Oct 21 00:39	0° ∡ 7		evening max el	7830 Oct 05 09:16	14°ML03'50	26°19'27
evening max el	7829 Oct 23 09:11		27°11'07	retrograde	7830 Oct 19 07:25	21°ML09'14	20 19 27
retrograde	7829 Nov 06 06:13	9° × 32'58	27 1107	evening set	7830 Oct 25 21:27	19°ML23'41	
evening set	7829 Nov 13 07:14	7° × 19'45		min. Earth dist.	7830 Oct 29 22:31	16°ML49'11	0.59092 AU
min. Earth dist.	7829 Nov 16 23:57		0.61170 AU	inferior conj	7830 Nov 02 03:11	14°ML24'08	
inferior conj	7829 Nov 20 02:04	1°×754'10		minimum elong	7830 Nov 02 03:11 7830 Nov 02 10:05	14°ML11'01	4°43'59
minimum elong	7829 Nov 20 02:04 7829 Nov 20 08:48	1° 🗷 34 10		morning rise	7830 Nov 10 00:59	9°M52'12	4 43 39
minimum clong	7829 Nov 20 08:48	30°RM	3 42 21	direct	7830 Nov 10 00:39	9°M34'24	
morning rise	7829 Nov 27 12:38	27°M00'02		asc. node	7830 Nov 12 07:29	12°M22'11	
morning rise direct	7829 Nov 27 12:38 7829 Nov 29 18:07	26°M39'38		morning max el	7830 Nov 19 01:33		18°24'01
asc. node	7829 Dec 02 04:34	20 Mc3938		morning max ci	7830 Dec 01 11:41	13 ll c 2/3/	18 2401
asc. node	7829 Dec 02 04:34 7829 Dec 06 15:12	27 11€0437 0° √ 7		morning set	7830 Dec 06 04:55	8° ₹ ⁷ 52'53	
mamina may al			17056110	morning set	7830 Dec 00 04.33	6 X 52 55	
morning max el	7829 Dec 06 21:10	0° ★ 14'26	17°56'10		7020 D 15 07-01	269.704141	1°01'33
morning set	7829 Dec 22 13:27	24° ₹ 53'29		superior conj	7830 Dec 15 07:01	26° ₹ 04'41	
	7829 Dec 25 08:29	0° ප		minimum elong	7830 Dec 15 10:30	26° х 20'43	1°01'12
	7020 Y 01 22 00	1007000	0000100	F 4 F	7830 Dec 17 10:37	0°る	1 40505 177
superior conj	7830 Jan 01 22:09			max. Earth dist.	7830 Dec 22 19:26	9° る 27'44	1.40597 AU
minimum elong	7830 Jan 02 00:38	13° る 42'55	0°30'19	desc. node	7830 Dec 23 23:41	11° る 28'32	
desc. node	7830 Jan 06 02:41	20° る 43'36		evening rise	7830 Dec 27 05:51	16° පි 56'01	
max. Earth dist.	7830 Jan 09 10:26	26° る 16'26	1.42589 AU		7831 Jan 04 10:36	0° ≈	
	7830 Jan 11 17:07	0° ≈			7831 Jan 26 01:15	0° ∀	
evening rise	7830 Jan 15 14:27	6°≈13'33		evening max el	7831 Jan 30 17:16	5° ₩ 07'27	23°32'05
	7830 Jan 31 09:11	0° ∀		retrograde	7831 Feb 10 09:22	11° ¥ 25'30	
evening max el	7830 Feb 17 02:08	21°) 24'34	22°12'12	evening set	7831 Feb 15 11:15	9° 米 18′52	
retrograde	7830 Feb 26 15:08	27°) 04'01		asc. node	7831 Feb 15 00:45	9°) 40′08	
asc. node	7830 Feb 28 03:41	26°) 52′10		inferior conj	7831 Feb 20 21:24	2° ¥ 52'10	1°49'39
evening set	7830 Mar 03 05:01	25°) 12'16		minimum elong	7831 Feb 20 19:18	2°) 59′24	1°49'00
inferior conj	7830 Mar 08 13:02	18° ¥ 51′21		min. Earth dist.	7831 Feb 20 08:01	3° ¥ 38′03	0.68282 AU
minimum elong	7830 Mar 08 10:46				7831 Feb 23 01:16	30°R≈	
min. Earth dist.	7830 Mar 08 11:21	18°) € 57'12	0.68367 AU	morning rise	7831 Feb 26 03:19	26° ≈ 47'10	
morning rise	7830 Mar 13 16:20	12°) (40'51		direct	7831 Mar 02 08:05	25°≈08'27	
direct	7830 Mar 18 10:57	10°) (39′29		morning max el	7831 Mar 10 14:28	29°≈52'46	20°52'32
morning max el	7830 Mar 27 21:23	16°) 11′50	22°14'07		7831 Mar 10 17:21	0° ∀	
desc. node	7830 Apr 04 02:17	24° 升 35'12 0° Ƴ		desc. node	7831 Mar 21 23:13	14°) €04'39	
	7830 Apr 08 03:54			. ,	7831 Apr 01 20:25	0° Υ	
	7830 Apr 28 06:08	0° 8		morning set	7831 Apr 09 15:18	11° Y 57'01	1 10056 177
morning set	7830 Apr 30 05:44	3° 8 11'35	1 400 62 4 77	max. Earth dist.	7831 Apr 17 16:57	24° Y 47'34	1.42956 AU
max. Earth dist.	7830 May 05 12:12	11° 8 53'38	1.40963 AU		7831 Apr 20 21:12	0°8	
superior conj	7830 May 13 07:10	25° 8 23'24	1940'14	superior conj	7831 Apr 24 15:10	6° 8 15'59	2007/24
minimum elong	7830 May 13 07:10 7830 May 13 12:51	25° 8 48'48		1 ,	7831 Apr 24 13:10 7831 Apr 24 18:49	6° 8 31'27	
minimum elong		23 O 4848	1 46 46	minimum elong	•	26° 8 56'20	2 07 20
evening rise	7830 May 15 20:39	0 H 14°H25'01		evening rise	7831 May 06 11:47	26 3 36 20 0° Ⅱ	
asc. node	7830 May 23 15:39	20° I I50'44		asc. node	7831 May 08 05:02	0 Ⅱ 10°Ⅱ06'08	
asc. node	7830 May 27 02:42 7830 Jun 01 07:18	20°Д3044 0°9			7831 May 13 23:45		10005127
	7830 Jun 01 07:18 7830 Jun 08 18:26		18°17'38	evening max el	7831 May 23 06:13	23° Ⅱ 11'05	18°05'37
evening max el		10°509'10	18°1/38	retrograde	7831 May 29 20:13	26° Ⅱ 33'47	
retrograde	7830 Jun 15 23:42	13°5546'19		evening set	7831 Jun 01 11:01	26° I I01'36	2022142
evening set	7830 Jun 18 07:08	13°924'54	1022120	inferior conj	7831 Jun 08 00:39	21° I 101'19	
inferior conj	7830 Jun 25 13:25	8°5544'51	1°33'38	minimum elong	7831 Jun 08 03:38	20°II53'59	
minimum elong	7830 Jun 25 16:13	8°938'56	1°32'37	min. Earth dist.	7831 Jun 11 04:13	17° II 57'25	0.61190 AU
min. Earth dist.	7830 Jun 28 23:06	5°953'11	0.58948 AU	morning rise	7831 Jun 14 17:58	15° I I02'50	
desc. node	7830 Jul 01 01:41	4°518'24		desc. node	7831 Jun 17 22:43	13° Ⅱ 24'02	
morning rise	7830 Jul 02 22:08	3°509'10		direct	7831 Jun 21 09:58	12° II 47'46	07053141
direct	7830 Jul 09 03:51	1°524'10	27022155	morning max el	7831 Jul 05 16:07	20° Ⅱ 47'02	2/~55'41
morning max el	7830 Jul 23 12:55	9° © 11'21	21~22'55		7831 Jul 13 15:02	0° ⊙	
· ·	7830 Aug 08 10:48	0° Ω			7831 Aug 01 10:37	0° Ω	
asc. node	7830 Aug 23 02:03	27° Ω 02'15		morning set	7831 Aug 07 17:16	12° Ω 21'35	
morning set	7830 Aug 23 13:39	28° Ω 03'01		asc. node	7831 Aug 09 23:02	17° Ω 02'29	1 21014 ***
more Death 11 4	7830 Aug 24 11:47	0° Т р	1 21/00 411	max. Earth dist.	7831 Aug 13 13:59	24° Ω 50'58	1.31914 AU
max. Earth dist.	7830 Aug 30 04:59	12° Mp 28'31	1.31690 AU	aumori	7021 A 15 01 27	200 00000	0050114
gunorior comi	7020 Ave 20 15:02	120 m. 24121	1910/20	superior conj	7831 Aug 15 01:37	28° Ω 06'25	0°50'14
superior conj	7830 Aug 30 15:03	13° Mp 24'21	1°10′29	minimum elong	7831 Aug 14 23:38	27° Ω 55'29	0°49'46

evening rise	7831 Aug 15 22:14 7831 Aug 21 20:20	0° Mp 12° Mp 57′02		superior conj minimum elong	7832 Jul 29 09:09 7832 Jul 29 07:57	12° Ω 35'26 12° Ω 28'59	0°25'45 0°25'24
<i>y</i>	7831 Aug 30 08:53	0∘ ⊽		evening rise	7832 Aug 05 08:02	27° Ω 39'00	
desc. node	7831 Sep 13 21:44	21° ≏ 38'34			7832 Aug 06 10:38	0° ™	
evening max el	7831 Sep 17 01:11	24° ≏ 55'28	24°58'42		7832 Aug 23 20:07	0∘ ⊽	
	7831 Sep 23 19:40	0° M		evening max el	7832 Aug 28 12:35	5° £ 13'37	23°21'34
retrograde	7831 Sep 30 21:52	1°M54'54		desc. node	7832 Aug 30 18:49	7° £ 15′09	
evening set	7831 Oct 06 11:57	0°M44'20		retrograde	7832 Sep 11 00:24	11° Ω 58'45	
	7831 Oct 08 02:44	30° ₹ Ω		evening set	7832 Sep 15 03:09	11° Ω 21'42	
min. Earth dist.	7831 Oct 11 12:30	28° £ 01'27	0.57122 AU	min. Earth dist.	7832 Sep 21 22:08	8° £ 12'01	0.55572 AU
inferior conj	7831 Oct 14 08:36 7831 Oct 14 12:07	26° ♀ 09'28 26° ♀ 03'40		inferior conj minimum elong	7832 Sep 23 18:07 7832 Sep 23 14:36	7° £ 07'20 7° £ 12'32	
minimum elong morning rise	7831 Oct 14 12.07 7831 Oct 22 14:33	20 ⊆ 03 40 22° ⊆ 00'32	3 23 33	morning rise	7832 Sep 23 14.30 7832 Oct 02 04:14	7 = 12 32 3° Ω 15'26	3 20 33
direct	7831 Oct 25 14:33	21° Ω 42'35		direct	7832 Oct 02 04:14 7832 Oct 05 02:23	2° £ 54'46	
morning max el	7831 Nov 03 07:00	26° ♀ 04'01	19°13'28	morning max el	7832 Oct 15 19:14	7° £ 55'09	20°25'16
asc. node	7831 Nov 05 22:33	28° £ 55'52		asc. node	7832 Oct 22 19:33	16° Ω 30'48	
	7831 Nov 06 19:06	0°M			7832 Oct 30 12:57	0°M	
morning set	7831 Nov 20 05:21	23°M16'22		morning set	7832 Nov 03 11:42	7°M55'15	
	7831 Nov 23 14:15	0°⊀					
				superior conj	7832 Nov 11 00:55	23°M27'36	1°36'08
superior conj	7831 Nov 28 09:32	9° ∡ 727'47	1°23'11	minimum elong	7832 Nov 11 02:38	23°M36'18	1°36'08
minimum elong	7831 Nov 28 12:29	9° х 42′02	1°22'59		7832 Nov 14 07:30	0° ∡	
max. Earth dist.	7831 Dec 05 01:10	21° ₹ 56'46	1.38434 AU	max. Earth dist.	7832 Nov 16 08:01	3° ₹ 55'49	1.36360 AU
evening rise	7831 Dec 08 19:21	28° ₹ 37'12		evening rise	7832 Nov 20 04:57	11° √ 12'06	
	7831 Dec 09 14:28	0°る		desc. node	7832 Nov 26 17:45	22° х 42'10	
desc. node	7831 Dec 10 20:42	2° る 09'28			7832 Dec 01 04:24	0° る	
	7831 Dec 28 20:40	0°≈ 188• •53114	24950126		7832 Dec 23 05:10	0°≈ 2°≈ •2012.1	26°00'08
evening max el retrograde	7832 Jan 13 06:27 7832 Jan 24 23:47	18°≈53'14 25°≈42'46	24°50'26	evening max el retrograde	7832 Dec 25 19:24 7833 Jan 07 09:26	2°≈39'31 9°≈49'32	26-00-08
evening set	7832 Jan 30 14:21	23°≈42'40 23°≈22'40		evening set	7833 Jan 13 12:39	9 ≈49 32 7°≈19'01	
asc. node	7832 Feb 01 21:48	23 ≈22 40 21°≈02'46		min. Earth dist.	7833 Jan 17 18:45	2°≈47'07	0.66947 AU
min. Earth dist.	7832 Feb 04 03:14	18°≈16'14	0.67801 AU	asc. node	7833 Jan 18 18:52	1°≈31'58	0.00747710
inferior conj	7832 Feb 05 04:00	16° ≈ 54'26	1°03'39	inferior conj	7833 Jan 19 06:54	0° ≈ 54'19	0°10'02
minimum elong	7832 Feb 05 02:32	16° ≈ 59'14	1°03'11	minimum elong	7833 Jan 19 06:38	0° ≈ 55'09	0°10'03
morning rise	7832 Feb 10 14:57	10°≈56′26		transit middle	7833 Jan 19 06:38	0° ≈ 55'09	0°10'03
direct	7832 Feb 14 06:51	9° ≈ 39'25		transit begin	7833 Jan 19 04:24	1° ≈ 02'07	
morning max el	7832 Feb 21 15:27	13° ≈ 46′14	19°43'28	transit end	7833 Jan 19 08:51	0° ≈ 48′12	
	7832 Mar 05 03:03	0°) €			7833 Jan 20 00:24	30°Rる	
greatest brilliancy	7832 Mar 05 10:00	0°) 25′30	-0.6m	morning rise	7833 Jan 25 01:13	25° る 05'11	
desc. node	7832 Mar 07 20:10	4°) €00'53		direct	7833 Jan 28 05:44	24° る 07'08	
morning set	7832 Mar 18 12:31	20°) 15′08		morning max el	7833 Feb 03 23:56	27° る 48'33	18°49'33
	7832 Mar 24 19:20	0° Υ			7833 Feb 06 00:37	0° ≈	
max. Earth dist.	7832 Mar 30 04:35	8° Y 28'40	1.44462 AU	desc. node	7833 Feb 22 17:08	24°≈16'13	
avmariar aani	7922 Amr 02 22:15	16° Ƴ 03'23	2010/25	morning set	7833 Feb 25 21:46	29°≈15'33 0° 米	
superior conj minimum elong	7832 Apr 03 22:15 7832 Apr 03 20:02	16° γ 03°23 15° Υ 54'27		max. Earth dist.	7833 Feb 26 09:08 7833 Mar 12 21:08		1.45323 AU
minimum elong	7832 Apr 12 10:05	0° 8	2 10 33	max. Earth dist.	7833 Mai 12 21.08	22 九 4040	1.43323 AU
evening rise	7832 Apr 12 10:03	8° 8 34'56		superior conj	7833 Mar 14 08:43	25°) 00′21	-1°53'59
asc. node	7832 Apr 29 20:49	28° 8 54'48		minimum elong	7833 Mar 14 00:12	24° H 26'57	
	7832 Apr 30 14:31	0°Щ		8	7833 Mar 17 12:51	0°Υ	
evening max el	7832 May 05 19:31	6° Ⅲ 31'04	18°12'39	evening rise	7833 Mar 29 14:00	19° Ƴ 14'12	
retrograde	7832 May 12 04:49	9°Ⅲ53'58		greatest brilliancy	7833 Apr 04 14:18	28° Y 57'12	-0.9m
evening set	7832 May 15 02:40	9° Ⅱ 09'14			7833 Apr 05 05:55	0°8	
inferior conj	7832 May 21 03:42	3° Ⅱ 50′23	3°08'35	asc. node	7833 Apr 16 17:54	17° 8 07'25	
minimum elong	7832 May 21 05:38	3° ∏ 45′01	3°08'12	evening max el	7833 Apr 19 07:27	20° 8 01'24	18°37'58
min. Earth dist.	7832 May 23 18:38	0° Ⅱ 57'10	0.63337 AU	retrograde	7833 Apr 25 21:05	23° 8 37'30	
	7832 May 24 16:40	30° ₹ 8		evening set	7833 Apr 29 02:09	22° 8 39'01	
morning rise	7832 May 27 07:14	27° 8 39'11		inferior conj	7833 May 04 18:26	17° 8 03'12	
direct	7832 Jun 03 01:47	25° 8 02'04		minimum elong	7833 May 04 18:59	17° 8 01'31	3°23'19
desc. node	7832 Jun 03 19:44	25° 8 03'51		min. Earth dist.	7833 May 06 18:14	14° 8 38'16	0.65192 AU
	7832 Jun 13 16:30	0°Π 2°Π04!26	27946120	morning rise	7833 May 10 11:05	10° 8 46'39	
morning max el	7832 Jun 17 00:17 7832 Jul 07 01:23	3° Ⅱ 04'36 0° ©	27 40 20	direct desc. node	7833 May 21 16:44	7° と 59'36 9° と 08'39	
morning set	7832 Jul 07 01:23 7832 Jul 21 14:09	0°99 26°9917'54		morning max el	7833 May 21 16:44 7833 May 30 10:29	15° 8 53'10	27°05'08
morning set	7832 Jul 23 10:01	20 3 17 34 0° Ω		morning max ci	7833 Jun 11 01:12	0°II	21 03 00
max. Earth dist.	7832 Jul 26 17:29	6° Ω 54'23	1.32604 AU		7833 Jun 29 20:25	0ಂ ತಾ	
asc. node	7832 Jul 26 20:03	7° Ω 07'59		morning set	7833 Jul 05 01:25	9° © 43'35	
		. 555, 55				555	

max. Earth dist.	7833 Jul 09 11:49	18° © 30'20	1.33774 AU		7834 Jun 04 20:50	0°П	
				morning set	7834 Jun 17 23:18	22° Ⅱ 27'47	
superior conj	7833 Jul 13 11:32	26° © 45'17	-0°02'22		7834 Jun 21 23:10	0	
minimum elong	7833 Jul 13 11:40	26° © 45'59	0°02'26	max. Earth dist.	7834 Jun 21 19:10	29° Ⅱ 40'46	1.35421 AU
behind sun begin	7833 Jul 13 06:06	26° © 16'43					
behind sun end	7833 Jul 13 17:14	27° © 15'16		superior conj	7834 Jun 27 06:12	10° © 28'33	-0°33'01
asc. node	7833 Jul 13 17:07	27° 5 014'36		minimum elong	7834 Jun 27 08:07	10° © 38'18	0°32'45
	7833 Jul 15 00:25	$0 {\circ} \Omega$		asc. node	7834 Jun 30 14:06	17° © 17'39	
evening rise	7833 Jul 20 18:43	12° Ω 14′23		evening rise	7834 Jul 05 02:18	26° © 36'48	
	7833 Jul 29 20:56	0° m)			7834 Jul 06 18:07	$0^{\circ}\Omega$	
evening max el	7833 Aug 10 04:00	15° m 32'49	21°44'41	evening max el	7834 Jul 23 06:35	26° Ω 22'57	20°21'00
desc. node	7833 Aug 17 15:53	20° Mp 45'10			7834 Jul 27 21:57	0° m ∕	
retrograde	7833 Aug 22 15:45	21° Mp 44'33		retrograde	7834 Aug 03 04:09	1° m 45'36	
evening set	7833 Aug 25 08:44	21° m/28'03		desc. node	7834 Aug 04 12:57	1° m 40'51	
inferior conj	7833 Sep 03 13:30	17° m 28′27	-4°34'43	evening set	7834 Aug 05 03:29	1° m 35'47	
minimum elong	7833 Sep 03 04:24	17° m p41'11	4°32'36	-	7834 Aug 09 23:08	30° ₽ Ω	
min. Earth dist.	7833 Sep 03 07:02	17° mp 37'31	0.54762 AU	inferior conj	7834 Aug 14 07:14	27° Ω 38'15	-2°54'46
morning rise	7833 Sep 12 01:15	13° m) 38'38		minimum elong	7834 Aug 13 23:22	27° Ω 49'44	2°52'06
direct	7833 Sep 15 12:59	13° mp 11'59		min. Earth dist.	7834 Aug 15 17:11	26°Ω48'42	0.54892 AU
morning max el	7833 Sep 27 18:49	18° m) 58'35	21°57'17	morning rise	7834 Aug 22 18:23	23° Ω 30'40	
	7833 Oct 06 16:26	0∘ ⊽		direct	7834 Aug 26 23:00	22° Ω 52'48	
asc. node	7833 Oct 09 16:34	4° £ 53'11		morning max el	7834 Sep 09 09:25	29° Ω 24'32	23°41'46
morning set	7833 Oct 18 21:40	22° Ω 43'12			7834 Sep 10 00:14	0° m)	250
morning sec	7833 Oct 22 08:11	0°M		asc. node	7834 Sep 26 13:34	23° m 50'49	
	7033 001 22 00.11	0 110		use. Houe	7834 Sep 29 17:34	0° ⊡	
superior conj	7833 Oct 26 01:23	7°M52'58	1°41'26	morning set	7834 Oct 03 09:15	ი — 7° — 33'41	
minimum elong	7833 Oct 26 01:44	7°M54'51	1°41'31	morning set	7834 Oct 03 09.13	/ ==3341	
max. Earth dist.	7833 Oct 20 01:44 7833 Oct 29 21:25	15°M49'26	1.34577 AU	superior conj	7834 Oct 10 07:47	22° £ 33'46	1°40'03
		24°M31'10	1.545// AU		7834 Oct 10 07:47 7834 Oct 10 06:57	22° ⊆ 33'40' 22° ⊆ 29'14	1°40'04
evening rise	7833 Nov 03 06:50	24 IIL31 10 0° 🗷		minimum elong			
	7833 Nov 06 04:33			max. Earth dist.	7834 Oct 12 19:22	27° £ 53'23	1.33196 AU
desc. node	7833 Nov 13 14:49	13° ₹ 01'48			7834 Oct 13 19:18	0°M ≈≈m 22147	
	7833 Nov 24 17:20	0°る	26052140	evening rise	7834 Oct 17 21:01	8°M22'47	
evening max el	7833 Dec 08 08:42	16°る20'32	26°53'49		7834 Oct 29 15:43	0° ∡ 7	
retrograde	7833 Dec 21 13:31	23° る 39'19		desc. node	7834 Oct 31 11:53	3° ∡ 01'05	
evening set	7833 Dec 28 04:12	21° පි 03'11		evening max el	7834 Nov 20 21:14	29° х 44'05	27°24'20
min. Earth dist.	7834 Jan 01 04:20	17° る 05'40	0.65738 AU		7834 Nov 21 03:58	0° ろ	
inferior conj	7834 Jan 03 04:01	14° 3 47′51		retrograde	7834 Dec 04 11:07	7° る 02'59	
minimum elong	7834 Jan 03 05:28	14° る 43'40	0°49'41	evening set	7834 Dec 11 10:32	4° る 28'05	
asc. node	7834 Jan 05 15:54	12° る 02'29		min. Earth dist.	7834 Dec 15 05:36		0.64187 AU
morning rise	7834 Jan 09 07:49	9° ට 10'00			7834 Dec 16 06:06	30°₽ ⋌	
direct	7834 Jan 12 02:51	8° る 27'15		inferior conj	7834 Dec 17 16:51	28° ≯ 28′10	-1°56'29
morning max el	7834 Jan 18 14:03	11° る 54'32	18°12'07	minimum elong	7834 Dec 17 20:26	28° ∡ 18'44	1°54'55
	7834 Jan 31 10:57	0° ≈		asc. node	7834 Dec 23 12:56	23° ∡ ¹27'16	
morning set	7834 Feb 06 11:04	9° ≈ 42'17		morning rise	7834 Dec 24 07:55	23° ∡ 04'44	
desc. node	7834 Feb 09 14:08	14° ≈ 45'38		direct	7834 Dec 26 19:38	22° ∡ ′33'28	
	7834 Feb 19 03:21	0° ℋ		morning max el	7835 Jan 02 07:02	25° ∡ 56′25	17°51'48
					7835 Jan 05 18:06	0°₹	
superior conj	7834 Feb 21 13:45	3° ¥ 50′02	-1°19'04	morning set	7835 Jan 19 04:52	21° る 32'54	
minimum elong	7834 Feb 21 04:54	3° 升 15′13	1°18'00		7835 Jan 24 05:07	0° ≈	
max. Earth dist.	7834 Feb 23 16:33	7°) €09'23	1.45459 AU	desc. node	7835 Jan 27 11:07	5° ≈ 24'12	
evening rise	7834 Mar 09 17:05	29°) €01'35					
	7834 Mar 10 08:05	0° Y		superior conj	7835 Feb 01 08:28	13° ≈ 23′25	-0°34'46
greatest brilliancy	7834 Mar 21 14:55	17° Y ′26'30	-0.7m	minimum elong	7835 Feb 01 04:31	13° ≈ 07'24	0°34'06
	7834 Mar 30 11:46	0° ႘		max. Earth dist.	7835 Feb 06 11:59	21° ≈ 37'17	1.44849 AU
evening max el	7834 Apr 02 15:47	3° 8 37'04	19°20'24		7835 Feb 11 20:07	0°) €	
asc. node	7834 Apr 03 14:58	4° 8 33'10		evening rise	7835 Feb 17 05:58	8°) €21'37	
retrograde	7834 Apr 09 17:43	7° 8 37'57			7835 Mar 03 14:58	$0^{\circ}\mathbf{\Upsilon}$	
evening set	7834 Apr 13 06:36	6° 8 24'55		evening max el	7835 Mar 16 19:00	17° Ƴ 14'57	20°18'04
inferior conj	7834 Apr 18 17:24	0° 8 33'35	3°22'37	asc. node	7835 Mar 21 12:01	20° Y 58'55	
minimum elong	7834 Apr 18 16:41	0° 8 35'52	3°22'30	retrograde	7835 Mar 24 16:06	21° Y 50'19	
Č	7834 Apr 19 03:41	30° ₹ Υ		evening set	7835 Mar 28 13:46	20° Y ′22'14	
min. Earth dist.	7834 Apr 20 01:55	28° Y 47'45	0.66649 AU	inferior conj	7835 Apr 02 21:47	14° Ƴ 17'14	3°09'17
morning rise	7834 Apr 24 02:25	24° Y 16'08		minimum elong	7835 Apr 02 20:09	14° Y °22'48	3°09'01
direct	7834 Apr 30 07:29	21° Υ 31'29		min. Earth dist.	7835 Apr 03 16:02	13° Y 15'06	0.67660 AU
desc. node	7834 May 08 13:44	25°Υ08'21		morning rise	7835 Apr 08 02:20	8° Y 01'18	_
morning max el	7834 May 12 20:27	29° Υ '01'03	25°57'57	direct	7835 Apr 13 18:53	5° Υ 29'00	
<i>5</i>	7834 May 13 19:15	0°8		morning max el	7835 Apr 25 05:34	12° Υ 20'00	24°34'30
	,	-		<i>S</i>	1		

desc. node	7835 Apr 25 10:44	12° Ƴ 33'08		morning max el	7836 Apr 06 15:14	25°) 46′04	23°04'48
	7835 May 09 10:12	9° 8			7836 Apr 10 11:50	0° Y	
	7835 May 28 15:26	$\Pi^{\circ}0$		desc. node	7836 Apr 11 07:41	0° Ƴ 58'59	
morning set	7835 May 31 02:56	4° Ⅱ 17'50			7836 May 01 22:49	6^\circB	
max. Earth dist.	7835 Jun 03 17:56	10° Ⅱ 46'31	1.37457 AU	morning set	7836 May 11 06:39	14° 8 58'51	
				max. Earth dist.	7836 May 15 14:05	22° 8 17'21	1.39692 AU
superior conj	7835 Jun 10 13:56	23° II 37'08	-1°04'35		7836 May 19 23:18	0°II	
minimum elong	7835 Jun 10 17:52	23° I I56'09			7050 May 17 25.10	v –	
minimum ciong	7835 Jun 13 20:05	0°9	1 0402	superior conj	7836 May 23 06:44	6° Ⅱ 00'35	1037127
1-					•	6° I I25'50	
asc. node	7835 Jun 17 11:08	7°513'44		minimum elong	7836 May 23 12:13		1-33-30
evening rise	7835 Jun 19 04:22	10° © 39'34		evening rise	7836 Jun 01 21:52	24° Ⅱ 13'59	
	7835 Jun 29 17:30	$0^{\circ}\Omega$		asc. node	7836 Jun 03 08:08	26° ∏ 57'49	
evening max el	7835 Jul 05 22:11	7° Ω 56'48	19°16'46		7836 Jun 04 22:35	0	
retrograde	7835 Jul 15 03:06	12° Ω 29'24		evening max el	7836 Jun 18 00:31	20° © 11'28	18°33'20
evening set	7835 Jul 17 00:27	12° Ω 18'43		retrograde	7836 Jun 25 20:07	24° © 04'40	
desc. node	7835 Jul 22 10:00	10° Ω 08'18		evening set	7836 Jun 27 23:06	23° © 48'22	
inferior conj	7835 Jul 25 13:34	8° Ω 09'17	-0°57'39	inferior conj	7836 Jul 05 16:29	19° 5 20'11	0°46'04
minimum elong	7835 Jul 25 11:01	8° Ω 13'30	0°56'46	minimum elong	7836 Jul 05 18:07	19° © 17'00	0°45'22
min. Earth dist.	7835 Jul 28 06:23	6° Ω 22'26	0.55947 AU	desc. node	7836 Jul 08 07:03	17° © 18'50	
morning rise	7835 Aug 02 18:46	3° Ω 27'47	0.55717110	min. Earth dist.	7836 Jul 09 00:26	16°5946'19	0.57722 AU
direct	7835 Aug 02 10:40 7835 Aug 07 19:08	2°Ω30'17		morning rise	7836 Jul 13 09:40	14° © 01'49	0.57722710
	-		25024127	•			
morning max el	7835 Aug 21 22:11	9° Ω 39'45	25°24'27	direct	7836 Jul 19 05:48	12°535'23	2 (0 10121
	7835 Sep 06 05:22	0° т р		morning max el	7836 Aug 02 15:04	20°5512'36	26°48'31
asc. node	7835 Sep 13 10:34	13° Mp 14'46			7836 Aug 11 00:48	0 $^{\circ}$ Ω	
morning set	7835 Sep 17 20:46	22° m/22'03			7836 Aug 28 20:45	0° m y	
	7835 Sep 21 09:21	0∘ ত		asc. node	7836 Aug 30 07:34	2°₩57'08	
				morning set	7836 Sep 01 06:37	7° ™ 02'55	
superior conj	7835 Sep 24 17:50	7° £ 23'04	1°32'44				
minimum elong	7835 Sep 24 16:07	7° ≙ 13'38	1°32'36	superior conj	7836 Sep 08 05:30	22° Mp 14'08	1°20'03
max. Earth dist.	7835 Sep 26 00:35	10° £ 11'58	1.32255 AU	minimum elong	7836 Sep 08 03:18	22° m 02'00	1°19'43
evening rise	7835 Oct 01 20:12	22° ≏ 38'11		max. Earth dist.	7836 Sep 08 10:01	22° m 39'14	1.31760 AU
o vonning rise	7835 Oct 05 11:54	0°M		man. Bartir diot.	7836 Sep 11 17:54	0∘ ʊ	1.51,00110
desc. node	7835 Oct 18 08:56	22°M31'39		evening rise	7836 Sep 15 01:38	ი — 7° ჲ 09'23	
desc. flode	7835 Oct 18 08:30 7835 Oct 23 12:05	0° x ⁷		evening rise	•	0°M	
			27925120	1 1-	7836 Sep 26 23:43		
evening max el	7835 Nov 03 06:49	12° ₹ 36'53	27°25'20	desc. node	7836 Oct 04 06:00	11°M22'02	26052106
retrograde	7835 Nov 17 01:45	19° 🖈 51'38		evening max el	7836 Oct 15 10:51	24°M46'53	26°53'06
evening set	7835 Nov 24 04:37	17° ∡ 27′03			7836 Oct 22 09:44	0° ∡	
min. Earth dist.	7835 Nov 27 20:42	14° ≯ 31′00	0.62339 AU	retrograde	7836 Oct 29 08:35	1° ≯ 56′32	
inferior conj	7835 Nov 30 18:28	11° √ 47'54	-3°05'29	evening set	7836 Nov 05 06:28	29°M53'27	
minimum elong	7835 Dec 01 00:14	11° ∡ ³34'21	3°03'18		7836 Nov 05 01:54	30°RM₊	
morning rise	7835 Dec 07 21:55	6° ∡ ¹42'21		min. Earth dist.	7836 Nov 09 01:07	27° ™ 15'30	0.60286 AU
direct	7835 Dec 10 04:50	6° ⊀ 18'56		inferior conj	7836 Nov 12 05:32	24°M38'44	-4°12'02
asc. node	7835 Dec 10 09:59	6° ∤ 19'09		minimum elong	7836 Nov 12 12:39	24°M24'04	4°09'57
morning max el	7835 Dec 16 23:50	9° ∡ ¹46'38	17°49'13	morning rise	7836 Nov 19 21:12	19°M54'10	
C	7835 Dec 30 08:59	0°ರ		direct	7836 Nov 22 02:30	19°M35'19	
morning set	7836 Jan 01 21:08	4° る 27'28		asc. node	7836 Nov 26 07:01	20°M45'45	
morning sec	7000 0411 01 21.00	. 02,720		morning max el	7836 Nov 29 13:08	23°M16'40	18°05'32
superior conj	7836 Jan 13 03:47	24° ⋜ 08'44	0°08'38	mun vi	7836 Dec 04 21:14	0° √	00 02
minimum elong	7836 Jan 13 04:37	24°る12'14	0°08'38	morning set	7836 Dec 04 21:14 7836 Dec 15 05:39	18° ∡ 107'39	
•			0 08 38	morning set		0°る	
behind sun begin	7836 Jan 12 21:05	23°る40'20			7836 Dec 21 15:10	0.0	
behind sun end	7836 Jan 13 12:09	24° る 44'04			702 (D	(0 7 0.000	004451
desc. node	7836 Jan 14 08:05	26° る 07'57		superior conj	7836 Dec 25 00:13	6° ප 06'11	
	7836 Jan 16 15:48	0° ≈		minimum elong	7836 Dec 25 03:22	6° る 20'17	0°44'30
max. Earth dist.	7836 Jan 20 04:23	5° ≈ 45'55	1.43568 AU	desc. node	7836 Dec 31 05:04	16° る 53'42	
evening rise	7836 Jan 27 19:07	17° ≈ 49'53		max. Earth dist.	7837 Jan 01 15:41	19° る 19'31	1.41772 AU
	7836 Feb 04 18:41	0°) €		evening rise	7837 Jan 06 22:37	28° る 00'13	
	7836 Feb 26 20:02	0 $^{\circ}$ $\mathbf{\Upsilon}$			7837 Jan 08 04:34	0° ≈	
evening max el	7836 Feb 27 16:36	0° Υ 53'35	21°28'02		7837 Jan 28 10:37	0°) €	
asc. node	7836 Mar 07 09:04	6° Ƴ 09'21		evening max el	7837 Feb 09 09:33		22°45'56
retrograde	7836 Mar 07 14:13	6° Y 09'35		retrograde	7837 Feb 19 10:23	20°) (31'46	-
evening set	7836 Mar 11 21:49	4° Υ 26'20		asc. node	7837 Feb 22 06:08	19° X 51'32	
2.06 500	7836 Mar 15 21:18	30° ₹		evening set	7837 Feb 24 05:10	18° X 31'35	
inferior conj	7836 Mar 17 05:16	28° ₩ 10'06	2°45'30	inferior conj	7837 Mar 01 13:53	18 ★ 3333	2°12'31
minimum elong	7836 Mar 17 03:07	28° 升 17'38		minimum elong	7837 Mar 01 11:38	12°) 17'19	
min. Earth dist.	7836 Mar 17 10:30	27° 升 51'56	0.68228 AU	min. Earth dist.	7837 Mar 01 07:08	12°) 32'54	0.68375 AU
morning rise	7836 Mar 22 08:15	21°) 57'13		morning rise	7837 Mar 06 17:59	6°) €00'57	
direct	7836 Mar 27 10:52	19°) 43′42		direct	7837 Mar 11 06:31	4°) (09′19	

morning max el	7837 Mar 20 04:39	9° ∺ 20'53	21°38'06	direct	7838 Feb 23 04:39	18° ≈ 39'34	
desc. node	7837 Mar 29 04:38	20° ₩ 09'07		morning max el	7838 Mar 03 00:52	23° ≈ 06'39	20°21'17
	7837 Apr 05 05:45	0 ° $\mathbf{\gamma}$			7838 Mar 08 22:34	0° ∀	
morning set	7837 Apr 21 06:44	24° Ƴ 23'11		desc. node	7838 Mar 16 01:35	9°) 50′53	
	7837 Apr 24 18:30	0°8			7838 Mar 29 12:37	0° Y	
max. Earth dist.	7837 Apr 27 14:01	4° 8 36'48	1.41855 AU	morning set	7838 Mar 31 08:18	2° Ƴ 48'24	
				max. Earth dist.	7838 Apr 09 21:22	17° Ƴ 50′29	1.43671 AU
superior conj	7837 May 05 04:01	17° 8 29'15	-1°58'23				
minimum elong	7837 May 05 09:18	17° 8 52'15	1°58'06	superior conj	7838 Apr 16 01:31	27° Y ′54'01	-2°10'57
· ·	7837 May 12 04:38	$0^{\circ}\Pi$		minimum elong	7838 Apr 16 03:05	28° Ƴ 00'33	2°10'58
evening rise	7837 May 16 03:05	7° I I1'15			7838 Apr 17 07:52	0°8	
asc. node	7837 May 21 05:10	16° Ⅱ 25'22		evening rise	7838 Apr 28 15:27	19° 8 20'43	
use. House	7837 May 29 18:51	0°ಅ		evening rise	7838 May 04 18:53	0°Ⅱ	
evening max el	7837 Jun 01 09:58	2°959'12	18°10'09	asc. node	7838 May 08 02:14	5° П 30'17	
retrograde	7837 Jun 01 03:38 7837 Jun 08 07:28	6°928'17	18 1009	evening max el	7838 May 15 22:53	16° Ⅱ 10'16	18°06'23
evening set	7837 Jun 10 17:59	6°902'42		retrograde	7838 May 22 09:32	10 Ⅱ 10 10	18 00 23
•			2002120	•	•		
inferior conj	7837 Jun 17 16:45	1°914'11	2°02'30	evening set	7838 May 25 03:27	18° Ⅱ 53'34	2051116
minimum elong	7837 Jun 17 19:51	1°507'11	2°01'29	inferior conj	7838 May 31 11:14	13° ∏ 45'22	
	7837 Jun 19 01:22	30°RⅡ		minimum elong	7838 May 31 13:52	13° Ⅲ 38'34	
min. Earth dist.	7837 Jun 21 01:08		0.59899 AU	min. Earth dist.	7838 Jun 03 10:04	10° ∐ 43'26	0.62134 AU
morning rise	7837 Jun 24 18:50	25° Ⅱ 27'15		morning rise	7838 Jun 06 22:25	7° Ⅱ 40'41	
desc. node	7837 Jun 25 04:05	25° Ⅱ 13'39		desc. node	7838 Jun 12 01:05	5° Ⅱ 23'07	
direct	7837 Jul 01 05:58	23° Ⅱ 28'28		direct	7838 Jun 13 16:38	5° Ⅱ 14'41	
	7837 Jul 14 03:43	0ංම		morning max el	7838 Jun 27 19:48	13° Ⅱ 16′15	27°55'00
morning max el	7837 Jul 15 14:25	1° 5 22'40	27°40'38		7838 Jul 11 04:48	0 \circ \odot	
	7837 Aug 05 07:00	$0^{\circ}\Omega$			7838 Jul 28 17:51	$0 {\circ} \Omega$	
morning set	7837 Aug 16 13:03	21° Ω 31′03		morning set	7838 Jul 31 14:07	5° Ω 41'08	
asc. node	7837 Aug 17 04:32	22° Ω 52'09		asc. node	7838 Aug 04 01:32	12° Ω 55'15	
	7837 Aug 20 12:23	0°m		max. Earth dist.	7838 Aug 06 03:10	17° Ω 21'08	1.32148 AU
max. Earth dist.	7837 Aug 22 20:05	5° m 05'36	1.31721 AU		Č		
	7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			superior conj	7838 Aug 08 02:33	21° Ω 38'53	0°40'20
superior conj	7837 Aug 23 17:00	7° m)01'12	1°02'26	minimum elong	7838 Aug 08 00:50	21° Ω 29'30	0°39'55
minimum elong	7837 Aug 23 14:47	6° m/49'00	1°02'00	g	7838 Aug 11 21:58	0° m)	0 2 2 2 2 2
evening rise	7837 Aug 30 11:04	21° m 49'37	1 02 00	evening rise	7838 Aug 14 22:32	6° mp 33'13	
evening rise	7837 Sep 03 09:23	0° <u>Ω</u>		evening rise	7838 Aug 27 03:46	0° ت 0	
desc. node	7837 Sep 03 03:23 7837 Sep 21 03:04	0 == 29° £ 15'46		desc. node	7838 Sep 08 00:09	0 = 15° ⊆ 50'53	
desc. flode	7837 Sep 21 03:04 7837 Sep 21 17:16	0°M		evening max el	7838 Sep 08 00:09		24°18'32
			25040111	Č		16° £ 42'01	24 18 32
evening max el	7837 Sep 27 07:21	6°M06'43	25°48'11	retrograde	7838 Sep 22 15:10	23° Ω 36'21	
retrograde	7837 Oct 11 05:53	13°M10'33		evening set	7838 Sep 27 15:01	22° Ω 41'16	0.56200.433
evening set	7837 Oct 17 11:06	11°M39'33		min. Earth dist.	7838 Oct 03 07:45		0.56390 AU
min. Earth dist.	7837 Oct 21 19:56	9°M03'36	0.58212 AU	inferior conj	7838 Oct 05 19:21	18° ≏ 16'00	
inferior conj	7837 Oct 24 22:33	6°M50'31		minimum elong	7838 Oct 05 20:09	18° ≏ 14'45	5°32'20
minimum elong	7837 Oct 25 04:32	6° M 39'48	5°05'14	morning rise	7838 Oct 14 03:25	14° ≏ 15'07	
morning rise	7837 Nov 02 00:17	2°M28'34		direct	7838 Oct 16 19:25	13° ≏ 56'14	
direct	7837 Nov 04 08:23	2°M11'09		morning max el	7838 Oct 26 14:36	18° ≏ 33'24	19°41'17
morning max el	7837 Nov 12 19:13	6°M₁5'37	18°42'22	asc. node	7838 Oct 31 01:03	23° ≏ 38'49	
asc. node	7837 Nov 13 04:02	6° M ₊37'15			7838 Nov 04 06:06	0°M	
	7837 Nov 27 20:52	0° ∡ ¹		morning set	7838 Nov 13 04:44	16°M49'44	
morning set	7837 Nov 29 01:24	2° ҂ 18'31			7838 Nov 19 17:09	0° ∡ 7	
superior conj	7837 Dec 07 17:14	19° ₰ 02'02	1°11'49	superior conj	7838 Nov 21 01:47	2° ∡ ¹42'09	1°29'39
minimum elong	7837 Dec 07 20:38	19° ∡ 17'59	1°11'32	minimum elong	7838 Nov 21 04:15	2° ∡ 54′21	1°29'34
	7837 Dec 13 16:55	0°రె		max. Earth dist.	7838 Nov 27 04:21	14° ∡ ¹25'40	1.37532 AU
max. Earth dist.	7837 Dec 14 22:30	2° ට 10'41	1.39678 AU	evening rise	7838 Nov 30 22:03	21° 尽 13'38	
desc. node	7837 Dec 18 02:05	7° る 37'27	-107010110	desc. node	7838 Dec 04 23:08	28° ₹ 15'29	
evening rise	7837 Dec 18 23:31	9° る 08'13		dese. Hode	7838 Dec 05 23:55	0°る	
evening rise	7838 Jan 01 03:19	0°≈			7838 Dec 26 02:24	0° ≈	
			24906102				25921124
evening max el	7838 Jan 22 23:41	28°≈18'59	44 U0 U3	evening max el	7839 Jan 05 12:53	12°≈06'15	25°21'34
	7838 Jan 24 18:18	0° ∀		retrograde	7839 Jan 17 15:30	19°≈05'06	
retrograde	7838 Feb 03 03:10	4° ¥ 51'47		evening set	7839 Jan 23 11:31	16°≈40'20	
evening set	7838 Feb 08 10:15	2°) (39′27		asc. node	7839 Jan 27 00:17	12°≈55'23	
asc. node	7838 Feb 09 03:13	2° ₩ 01'05		min. Earth dist.	7839 Jan 27 21:31	11°≈48'30	0.67491 AU
	7838 Feb 10 23:46	30°R≈		inferior conj	7839 Jan 29 03:02	10°≈13′10	0°41'50
min. Earth dist.	7838 Feb 13 03:35	27°≈12'57		minimum elong	7839 Jan 29 02:01	10° ≈ 16′27	0°41'32
inferior conj	7838 Feb 13 21:45	26° ≈ 11′29		morning rise	7839 Feb 03 16:50	4° ≈ 18'33	
minimum elong	7838 Feb 13 19:52	26° ≈ 17'53	1°30'31	direct	7839 Feb 07 03:48	3° ≈ 09'48	
morning rise	7838 Feb 19 05:30	20° ≈ 08'57		morning max el	7839 Feb 14 05:09	7° ≈ 03'57	19°18'29

araataat brillianay	7020 Eab 27 07:20	24° ≈ 26'57	0.7	inforior coni	7840 Jan 13 03:44	24° る 10'39	0014147
greatest brilliancy	7839 Feb 27 07:28 7839 Mar 02 22:33	24 ≈26 3 7 29°≈55'55	-U. /III	inferior conj	7840 Jan 13 04:08	24 81039 24° る 09'26	0°14'31
desc. node	7839 Mar 02 23:38	29 ≈ 33 33		minimum elong transit middle	7840 Jan 13 04:08	24 309 26 24° る 09'26	0°14'31
morning sot	7839 Mar 10 07:44	11° X 16'13		transit begin	7840 Jan 13 02:54	24 309 26 24° る 13'13	0 1431
morning set		0° Υ		transit end	7840 Jan 13 05:23	24°る05'40	
may Earth dist	7839 Mar 22 08:21 7839 Mar 23 11:51		1.44923 AU		7840 Jan 13 03:23	24 303 40 23° る 17'40	
max. Earth dist.	/839 Mar 23 11:31	1 4818	1.44923 AU	asc. node		18° る 26'12	
	7020 M 26 22 40	700017117	2007102	morning rise	7840 Jan 19 01:51		
superior conj	7839 Mar 26 22:40	7°Υ16'16		direct	7840 Jan 22 02:11	17°る35'04	10021120
minimum elong	7839 Mar 26 17:25	6°Υ55'22	2*05*50	morning max el	7840 Jan 28 16:23	21° ⋜ 08'47	18°31'39
	7839 Apr 09 22:21	0° 8		1 1	7840 Feb 04 17:14	0°≈	
evening rise	7839 Apr 10 06:31	0° 8 33'53		desc. node	7840 Feb 17 19:33	20°≈17'56	
asc. node	7839 Apr 24 23:18	24° 8 04'29	10001116	morning set	7840 Feb 18 04:07	20°≈51'52	
evening max el	7839 Apr 29 11:57	29° 8 35'24	18°21'16		7840 Feb 23 22:50	0° ∀	
	7839 Apr 29 22:03	0°II					
retrograde	7839 May 05 21:52	3° Ⅱ 02'06		superior conj	7840 Mar 05 04:28	16°) €03'41	
evening set	7839 May 08 22:52	2° Ⅱ 11'27		minimum elong	7840 Mar 04 18:54	15° ∺ 26'13	
	7839 May 11 19:29	30° ₹8		max. Earth dist.	7840 Mar 05 06:30	16° ∺ 11'37	1.45473 AU
inferior conj	7839 May 14 19:42	26° 8 45'01	3°17'03		7840 Mar 14 01:40	0° Υ	
minimum elong	7839 May 14 21:04	26° 8 41'06	3°16'48	evening rise	7840 Mar 20 22:10	10° Y 50′12	
min. Earth dist.	7839 May 17 04:14	24° 8 02'26	0.64173 AU	greatest brilliancy	7840 Mar 29 22:11	25° Y 05′21	-0.8m
morning rise	7839 May 20 18:15	20° 8 31'04			7840 Apr 02 02:21	9° 8	
direct	7839 May 27 11:45	17° 8 48'28		asc. node	7840 Apr 10 20:22	11° 8 58'50	
desc. node	7839 May 29 22:07	18° 8 07'22		evening max el	7840 Apr 11 22:33	13° 8 08'29	18°53'56
morning max el	7839 Jun 10 05:05	25° 8 47'54	27°32'36	retrograde	7840 Apr 18 16:30	16° 8 54'01	
	7839 Jun 14 01:51	Π $^{\circ}0$		evening set	7840 Apr 22 00:48	15° 8 49'20	
	7839 Jul 04 17:51	0		inferior conj	7840 Apr 27 14:21	10° 8 06'25	3°24'46
morning set	7839 Jul 15 07:16	19° © 25'02		minimum elong	7840 Apr 27 14:21	10° 8 06'27	3°24'42
max. Earth dist.	7839 Jul 20 03:18	29° 5 014'09	1.33048 AU	min. Earth dist.	7840 Apr 29 07:29	7° 8 57'25	0.65862 AU
	7839 Jul 20 12:05	$0 {\circ} \Omega$		morning rise	7840 May 03 03:22	3° 8 48'57	
asc. node	7839 Jul 21 22:32	3° Ω 01′20		direct	7840 May 09 14:04	1° 8 01'50	
				desc. node	7840 May 15 19:06	3° 8 05'08	
superior conj	7839 Jul 23 08:09	6° Ω 00′16	0°14'14	morning max el	7840 May 22 15:39	8° 8 47'04	26°39'15
minimum elong	7839 Jul 23 07:27	5° Ω 56'32	0°13'59		7840 Jun 08 05:39	Π $^{\circ}0$	
behind sun begin	7839 Jul 23 04:48	5° Ω 42'20			7840 Jun 26 04:29	0 \circ \odot	
behind sun end	7839 Jul 23 10:06	6° Ω 10'44		morning set	7840 Jun 27 13:22	2° © 34'27	
evening rise	7839 Jul 30 10:02	21° Ω 13′06		max. Earth dist.	7840 Jul 01 17:20	10° © 39'28	1.34425 AU
	7839 Aug 03 16:05	O° Mp					
evening max el	7839 Aug 21 08:49	26° M 55'32	22°39'20	superior conj	7840 Jul 06 07:33	19° © 59'19	-0°15'07
	7839 Aug 24 23:31	0∘ ত		minimum elong	7840 Jul 06 08:24	20° © 03'41	0°15'04
desc. node	7839 Aug 25 21:15	0° ჲ 37'30		behind sun begin	7840 Jul 06 06:22	19° © 53'11	
retrograde	7839 Sep 03 11:57	3° £ 28'37		behind sun end	7840 Jul 06 10:25	20°514'11	
evening set	7839 Sep 06 23:29	3° ഫ 02'02		asc. node	7840 Jul 07 19:33	23° 5 06'40	
	7839 Sep 13 23:50	30°R, Mp			7840 Jul 11 02:11	$0^{\circ}\Omega$	
min. Earth dist.	7839 Sep 14 16:18	29° M 36'53	0.55127 AU	evening rise	7840 Jul 13 19:40	5° Ω 43'40	
inferior conj	7839 Sep 15 21:37	28° m 55'11	-5°11'44		7840 Jul 27 02:29	O° Mp	
minimum elong	7839 Sep 15 15:06	29° m 04'29	5°10'48	evening max el	7840 Aug 02 04:08	7° m 23′53	21°06'49
morning rise	7839 Sep 24 08:40	25° Mp 06'46		desc. node	7840 Aug 11 18:18	13° m 03'52	
direct	7839 Sep 27 12:30	24° Mp 43'54		retrograde	7840 Aug 14 00:58	13° Mp 16'36	
	7839 Oct 08 19:57	0∘ ত		evening set	7840 Aug 16 08:05	13°Mp04'13	
morning max el	7839 Oct 08 21:09	0° ჲ 02'47	21°02'19	inferior conj	7840 Aug 25 14:24	9° ™ 06'50	-3°56'37
asc. node	7839 Oct 17 22:04	11° ≙ 34'56		minimum elong	7840 Aug 25 04:58	9° № 20'08	3°53'56
	7839 Oct 27 18:53	0°M		min. Earth dist.	7840 Aug 26 01:22	8° m 51'22	0.54699 AU
morning set	7839 Oct 28 12:53	1°M32'53		morning rise	7840 Sep 03 02:21	5° Mp 12′04	
				direct	7840 Sep 06 20:36	4° m 41'43	
superior conj	7839 Nov 04 21:25	16°M⋅53'27	1°39'15	morning max el	7840 Sep 19 16:17	10° m 47'51	22°41'02
minimum elong	7839 Nov 04 22:33	16° ™ 59'18	1°39'18	asc. node	7840 Oct 03 19:03	0° ₽ 13'01	
max. Earth dist.	7839 Nov 09 13:46	26°M20'22	1.35558 AU		7840 Oct 03 16:08	0∘ ত	
	7839 Nov 11 10:52	0° ∡ ¹		morning set	7840 Oct 11 23:41	16° ≏ 21'58	
evening rise	7839 Nov 13 15:01	4° ₹ 07'44		-	7840 Oct 18 08:35	0°M	
desc. node	7839 Nov 21 20:12	18° ∡ ⁴42'59					
	7839 Nov 28 21:19	0°ರ		superior conj	7840 Oct 19 00:42	1°M25'57	1°41'38
evening max el	7839 Dec 19 01:59	25° る 51'03	26°25'21	minimum elong	7840 Oct 19 00:31	1°M25'00	1°41'41
Ç	7839 Dec 23 23:49	0° ≈		max. Earth dist.	7840 Oct 22 06:34	8°M15'44	1.33931 AU
retrograde	7839 Dec 31 22:43	3°≈05'35		evening rise	7840 Oct 26 22:31	17° M 40'57	-
evening set	7840 Jan 07 07:12	0° ≈ 31'49		5	7840 Nov 02 12:29	0° ∡ 7	
2	7840 Jan 07 22:05	30°R₹		desc. node	7840 Nov 07 17:16	8° ≯ 754'20	
min. Earth dist.	7840 Jan 11 10:40	26° ප 14'53	0.66480 AU		7840 Nov 22 04:49	0° る	
						-	

evening max el	7840 Nov 30 14:53	9° る 24'46	27°10'02	evening max el	7841 Nov 13 02:23	22° ∡ ³36'51	27°28'45
retrograde	7840 Dec 14 00:13	16° ठ 45'06	27 10 02	retrograde	7841 Nov 26 19:15	29° x 55'09	27 20 43
evening set	7840 Dec 20 19:10	14° る 08'09		evening set	7841 Dec 03 20:45	27° × 23'22	
min. Earth dist.	7840 Dec 24 16:49	10°る25'20	0.65112 AU	min. Earth dist.	7841 Dec 07 14:05	24° x 11'42	0.63424 AU
inferior conj	7840 Dec 26 21:37	7° る 58'37		inferior conj	7841 Dec 10 06:04	21° x "31'21	
minimum elong	7840 Dec 26 23:56	7° る 52'09	1°16'50	minimum elong	7841 Dec 10 10:37	21° х 19'55	
asc. node	7840 Dec 30 18:24	4° る 04'44		morning rise	7841 Dec 17 02:21	16° ∡ 15'07	
morning rise	7841 Jan 02 06:03	2° පි 26'51		asc. node	7841 Dec 17 15:26	16° ₹ '04'08	
direct	7841 Jan 04 21:38	1° る 49'34		direct	7841 Dec 19 11:31	15° ∡ ¹47'46	
morning max el	7841 Jan 11 08:08	5° る 13'54	18°01'26	morning max el	7841 Dec 26 01:27	19° ∡ 12'03	17°48'29
	7841 Jan 28 02:01	0° ≈			7842 Jan 03 00:36	ರ°ರ	
morning set	7841 Jan 29 06:01	1° ≈ 55'33		morning set	7842 Jan 11 10:13	14° る 15'48	
desc. node	7841 Feb 03 16:32	10° ≈ 51'26			7842 Jan 20 15:20	0° ≈	
				desc. node	7842 Jan 21 13:32	1° ≈ 32'35	
superior conj	7841 Feb 12 13:18	25° ≈ 06'41					
minimum elong	7841 Feb 12 06:13	24° ≈ 38'34	0°59'46	superior conj	7842 Jan 23 17:53	5° ≈ 09'12	
	7841 Feb 15 15:36	0° ∀		minimum elong	7842 Jan 23 16:12	5° ≈ 02'15	0°15'26
max. Earth dist.	7841 Feb 16 02:01	0°) 40′58	1.45279 AU	behind sun begin	7842 Jan 23 13:30	4° ≈ 51′09	
evening rise	7841 Feb 28 17:44	20°) €21'42		behind sun end	7842 Jan 23 18:53	5°≈13'21	
	7841 Mar 07 00:08	0°Υ		max. Earth dist.	7842 Jan 29 19:54	15°≈00'32	1.44376 AU
greatest brilliancy	7841 Mar 14 11:05	11°Υ16'15	-0.7m	evening rise	7842 Feb 08 04:44	29° ≈ 40′10	
evening max el	7841 Mar 26 04:45	26° Y 44'54	19°43'09		7842 Feb 08 09:54	0°) €	
asc. node	7841 Mar 28 17:26	29° Y 00'47 0° と		·	7842 Feb 28 18:21	0°Υ 10°Υ23'03	20046125
ratra ara da	7841 Mar 30 05:05 7841 Apr 02 14:16	0° 8 59'54		evening max el asc. node	7842 Mar 09 05:35	10° γ 23°03 14° Υ 56'12	20°46'35
retrograde	•	0 3 3934 30° ₹ Υ			7842 Mar 15 14:29	14 1 36 12 15° Υ 15'18	
evening set	7841 Apr 05 19:07 7841 Apr 06 06:38	30 K I 29° Υ 40'39		retrograde evening set	7842 Mar 17 12:43 7842 Mar 21 14:22	13° Y 41'00	
inferior conj	7841 Apr 11 15:57	23° Υ 43'09	3°18'19	inferior conj	7842 Mar 26 21:56	7° Υ 31'03	3°00'22
minimum elong	7841 Apr 11 14:49	23° Y 46'57	3°18'10	minimum elong	7842 Mar 26 20:01	7° Υ 37'37	3°00'00
min. Earth dist.	7841 Apr 12 18:17	22° Υ 15'29	0.67130 AU	min. Earth dist.	7842 Mar 27 10:35	6° Y 47'26	0.67957 AU
morning rise	7841 Apr 16 22:41	17° Υ 25'48	0.07130 AC	morning rise	7842 Apr 01 01:27	1°Υ16'06	0.07737 AC
direct	7841 Apr 22 22:36	14° Y 45'20		morning rise	7842 Apr 02 17:16	30° ₹	
desc. node	7841 May 02 16:06	19° Υ '44'06		direct	7842 Apr 06 12:16	28°) € 50'53	
morning max el	7841 May 05 01:23	22° Y ′01'00	25°23'47		7842 Apr 10 16:09	0°Υ	
	7841 May 12 00:39	0°8		morning max el	7842 Apr 17 10:15	5°Υ22'16	23°56'24
	7841 Jun 01 12:06	0°II		desc. node	7842 Apr 19 13:06	7° Y ′37'00	
morning set	7841 Jun 10 04:09	14° Ⅱ 57'26			7842 May 06 10:17	$0^{\circ}B$	
max. Earth dist.	7841 Jun 13 20:17	21° Ⅱ 43'24	1.36247 AU	morning set	7842 May 22 22:18	26° 8 19'48	
	7841 Jun 18 03:44	0°€			7842 May 25 01:07	$\Pi^{\circ}0$	
				max. Earth dist.	7842 May 26 16:30	2° Ⅲ 53'38	1.38399 AU
superior conj	7841 Jun 19 21:58	3° 5 28'30	-0°46'26				
minimum elong	7841 Jun 20 00:44	3°5542'18	0°46'02	superior conj	7842 Jun 02 23:55	16° Ⅱ 19'17	-1°17'39
asc. node	7841 Jun 24 16:34	13° 5 07'04		minimum elong	7842 Jun 03 04:37	16° Ⅱ 41'35	1°17'04
evening rise	7841 Jun 28 01:12	19° © 58'10			7842 Jun 10 01:16	0 \circ \odot	
	7841 Jul 03 02:58	$0 { m ^{\circ}} \Omega$		asc. node	7842 Jun 11 13:34	2° 9 58'25	
evening max el	7841 Jul 15 12:21	18° Ω 32′12	19°51'09	evening rise	7842 Jun 12 00:01	3° 5 49'38	
retrograde	7841 Jul 25 16:32	23° Ω 32'54			7842 Jun 27 23:13	0° N	
evening set	7841 Jul 27 13:17	23° Ω 23'32		evening max el	7842 Jun 28 09:03	0° Ω 24'46	18°55'48
desc. node	7841 Jul 29 15:19	22° Ω 52′23	2005105	retrograde	7842 Jul 06 22:19	4° Ω 38'20	
inferior conj	7841 Aug 05 12:03	19° £ 22'33		evening set	7842 Jul 08 21:42	4° Ω 25'43	
minimum elong	7841 Aug 05 06:18	19° Ω 31'21	2°03'01	desc. node	7842 Jul 16 12:22	0° Ω 34'08	0010147
min. Earth dist.	7841 Aug 07 12:59	18° Ω 07'45 15° Ω 01'21	0.55232 AU	inferior conj	7842 Jul 17 02:37 7842 Jul 17 02:10	0° Ω 09'05 0° Ω 09'52	
morning rise direct	7841 Aug 13 21:23	13 δ (01 21 14° Ω 16'15		minimum elong transit middle	7842 Jul 17 02:10	0°Ω09'52	0°10'42
morning max el	7841 Aug 18 10:02 7841 Sep 01 05:21	21°Ω06'10	24°26'41	transit begin	7842 Jul 17 02:10 7842 Jul 16 23:23	0° Ω 14'48	0 1042
morning max ci	7841 Sep 01 03:21 7841 Sep 08 22:04	0° m)	24 2041	transit end	7842 Jul 17 04:58	0° Ω 04'56	
asc. node	7841 Sep 20 16:03	ارات 19° الله 22'47		transit end	7842 Jul 17 07:45	30°RS	
use. Hode	7841 Sep 25 21:49	0° <u>م</u>		min. Earth dist.	7842 Jul 20 04:06	28°900'08	0.56634 AU
morning set	7841 Sep 26 11:26	1° ≏ 12'10		morning rise	7842 Jul 25 03:21	25°9511'38	0.50051710
B				direct	7842 Jul 30 12:44	24°502'24	
superior conj	7841 Oct 03 08:56	16° Ω 11'35	1°37'39		7842 Aug 12 06:11	0° Ω	
minimum elong	7841 Oct 03 07:41	16° Ω 04'45	1°37'36	morning max el	7842 Aug 13 19:05	1° Ω 24'58	26°03'23
max. Earth dist.	7841 Oct 05 07:40	20° ≏ 25'13	1.32734 AU	Č	7842 Sep 02 22:18	0° m)	
	7841 Oct 09 20:34	0° M		asc. node	7842 Sep 07 13:01	8° m 55'13	
evening rise	7841 Oct 10 16:54	1°M44'02		morning set	7842 Sep 10 22:26	15° m 57'45	
desc. node	7841 Oct 25 14:18	28°M42'36			7842 Sep 17 08:37	0∘ 亚	
	7841 Oct 26 09:57	0° ∡ 7					

superior conj	7842 Sep 17 19:53	1° ჲ 02'23	1°27'59	minimum elong	7843 Sep 02 05:28	15° m 40'02	1°12'47
minimum elong	7842 Sep 17 17:55	0° £ 51'30	1°27'46	max. Earth dist.	7843 Sep 02 01:29	-	1.31696 AU
max. Earth dist.	7842 Sep 18 15:04	2° £ 48'21	1.31990 AU		7843 Sep 08 18:21	0∘ ರ	
evening rise	7842 Sep 24 19:04	16° ≏ 07'20		evening rise	7843 Sep 09 02:31	0° £ 43'34	
Č	7842 Oct 01 19:08	0°M		C	7843 Sep 24 22:19	0°M	
desc. node	7842 Oct 12 11:20	17°M57'33		desc. node	7843 Sep 29 08:23	6°M25'59	
	7842 Oct 21 11:33	0° ∡ ¹		evening max el	7843 Oct 08 11:20	17°M02'52	26°29'07
evening max el	7842 Oct 26 10:09	5° х 13′30	27°15'55	retrograde	7843 Oct 22 09:15	24°M09'08	
retrograde	7842 Nov 09 06:39	12° ₹ 25'39		evening set	7843 Oct 29 01:49	22° M 18'41	
evening set	7842 Nov 16 08:27	10° ₹ 09'16		min. Earth dist.	7843 Nov 02 00:47	19° M 43'56	0.59402 AU
min. Earth dist.	7842 Nov 20 00:51	7° ∡ 22'10	0.61481 AU	inferior conj	7843 Nov 05 05:43	17° M 15'19	-4°37'19
inferior conj	7842 Nov 23 01:56	4° ₰ ¹40'05	-3°34'29	minimum elong	7843 Nov 05 12:47	17° M 01'37	4°35'34
minimum elong	7842 Nov 23 08:28	4° ₹ 25'33	3°32'14	morning rise	7843 Nov 13 02:03	12°M40'07	
	7842 Nov 29 15:31	30°RM		direct	7843 Nov 15 08:08	12°M22'06	
morning rise	7842 Nov 30 10:41	29°M42'45		asc. node	7843 Nov 21 09:30	14°M40'18	
direct	7842 Dec 02 16:27	29°M21'38		morning max el	7843 Nov 23 03:44	16°M11'46	18°18'34
asc. node	7842 Dec 04 12:28	29°M36'17			7843 Dec 02 19:51	0°⊀	
	7842 Dec 05 15:35	0°⊀		morning set	7843 Dec 08 23:54	11° 渘 ¹26′20	
morning max el	7842 Dec 09 17:07	2° ∡ ¹54'17	17°53'42				
morning set	7842 Dec 25 10:06	27° ∡ ³31'48		superior conj	7843 Dec 18 05:58	28° ₰ ⁴49'17	0°57'27
	7842 Dec 26 18:43	0° ප		minimum elong	7843 Dec 18 09:26	29° ₹ 05'04	0°57'06
					7843 Dec 18 21:30	0°₹	
superior conj	7843 Jan 05 00:10	16° る 25'33	0°25'04	max. Earth dist.	7843 Dec 25 20:03	12° る 13'28	1.40908 AU
minimum elong	7843 Jan 05 02:18	16° る 34'47	0°24'51	desc. node	7843 Dec 26 07:29	13° る 02'12	
desc. node	7843 Jan 08 10:30	22° る 17'16		evening rise	7843 Dec 30 10:47	19° る 56'36	
max. Earth dist.	7843 Jan 12 10:19	28° る 55'49	1.42861 AU		7844 Jan 05 17:55	0° ≈	
	7843 Jan 13 02:01	0° ≈			7844 Jan 26 21:14	0° ∀	
evening rise	7843 Jan 18 22:38	9° ≈ 23'09		evening max el	7844 Feb 02 16:41	7°) 44′52	23°20'10
	7843 Feb 01 13:47	0° ∀		retrograde	7844 Feb 13 04:51	13°) 57′48	
evening max el	7843 Feb 20 01:11	24°) €02'56	22°00'36	asc. node	7844 Feb 17 08:38	12°) 32′23	
retrograde	7843 Mar 01 10:04	29°) ₹36′08		evening set	7844 Feb 18 04:54	11° 米 53′11	
asc. node	7843 Mar 02 11:33	29° ∺ 30′21		min. Earth dist.	7844 Feb 23 02:55	6° ∺ 07'19	0.68317 AU
evening set	7843 Mar 05 22:19	27°) (46′32		inferior conj	7844 Feb 23 14:38	5° ∺ 27'00	1°55'58
inferior conj	7843 Mar 11 06:08	21°) (26'47	2°32'35	minimum elong	7844 Feb 23 12:28	5°) 34′26	1°55'18
minimum elong	7843 Mar 11 03:53	21°) 34'39	2°32'01		7844 Feb 28 02:05	30°R ≈	
min. Earth dist.	7843 Mar 11 06:13	21° H 26'33	0.68344 AU	morning rise	7844 Feb 28 20:00	29° ≈ 21′08	
morning rise	7843 Mar 16 09:16	15°) 15'44		direct	7844 Mar 04 02:44	27°≈39'09	
direct	7843 Mar 21 05:59	13°) 11′10			7844 Mar 09 17:21	0°) (
morning max el	7843 Mar 30 20:56	18°) € 51'02	22°27'07	morning max el	7844 Mar 12 13:03	2°) (30'14	21°04'00
desc. node	7843 Apr 06 10:05	26°) €23'19		desc. node	7844 Mar 23 07:02	15°) 47'46	
	7843 Apr 09 04:46	0° Υ			7844 Apr 02 02:27	0°Υ	
	7843 Apr 29 13:54	0° 8		morning set	7844 Apr 12 03:29	15°Υ22'38	1 42602 444
morning set	7843 May 03 14:29	6° 8 28'24	1 40620 411	max. Earth dist.	7844 Apr 19 17:29	27°Υ30'03	1.42682 AU
max. Earth dist.	7843 May 08 13:58	14° 8 44'58	1.40639 AU		7844 Apr 21 06:05	0° 8	
	79.42 Mars 17, 00.07	28° 8 21'36	1945125		7044 4 26 20-20	9° 8 23'17	2805120
superior conj minimum elong	7843 May 16 09:07 7843 May 16 14:50	28° 8 47'19		superior conj minimum elong	7844 Apr 26 20:39 7844 Apr 27 00:52	9° 8 41'15	
minimum eiong	7843 May 17 06:56	28 O 47 19 0° Ⅱ	1 43 03	evening rise	7844 Apr 27 00.32 7844 May 08 11:30	29° 8 48'14	2 03 21
evening rise	7843 May 26 12:51	17° Ⅱ 10'00		evening rise	7844 May 08 14:07	0°II	
asc. node	7843 May 29 10:36	22° I I36'28		asc. node	7844 May 15 07:39	11° II 55'06	
asc. node	7843 Jun 02 12:44	0°95		evening max el	7844 May 25 02:17	25° I 53'39	18°06'11
evening max el	7843 Jun 11 14:59	12°955'25	18°21'02	retrograde	7844 May 31 17:57	29° I 17'41	10 00 11
retrograde	7843 Jun 18 23:34	16°936'15	10 21 02	evening set	7844 Jun 03 07:36	28° I I47'19	
evening set	7843 Jun 21 05:51	16°9516'15		inferior conj	7844 Jun 09 23:29	23° I I50'00	2°26'19
inferior conj	7843 Jun 28 14:56	11°939'08	1°22'01	minimum elong	7844 Jun 10 02:32	23° II 42'38	2°25'25
minimum elong	7843 Jun 28 17:30	11°933'48	1°21'02	min. Earth dist.	7844 Jun 13 04:30	20° I I46'19	0.60855 AU
min. Earth dist.	7843 Jul 02 00:31	8°951'28	0.58623 AU	morning rise	7844 Jun 16 19:02	17° ∏ 54'04	
desc. node	7843 Jul 03 09:25	7° © 49'29		desc. node	7844 Jun 19 06:28	16° I I34'13	
morning rise	7843 Jul 06 01:55	6°907'39		direct	7844 Jun 23 09:56	15° I I43'01	
direct	7843 Jul 12 05:19	4°927'37		morning max el	7844 Jul 07 16:57	23° II 41'26	27°51'31
morning max el	7843 Jul 26 14:35	12° © 12'12	27°15'07		7844 Jul 13 08:53	0°95	_, _, _,
	7843 Aug 09 13:53	0°Ω			7844 Aug 01 20:19	0° U	
asc. node	7843 Aug 25 10:01	28° Ω 43'50		morning set	7844 Aug 09 11:32	14° Ω 55'21	
morning set	7843 Aug 26 07:05	0° m/34'07		asc. node	7844 Aug 11 07:01	14° Ω 42'42	
	7843 Aug 26 00:36	0° m)		max. Earth dist.	7844 Aug 15 10:54		1.31850 AU
		~ ''x'		Zurur dist.	10.04	001133	
superior conj	7843 Sep 02 07:44	15° m 52'32	1°13'09	superior conj	7844 Aug 16 18:38	0° т 35'59	0°53'35

minimum elong	7844 Aug 16 16:34	0° m 24'37	0°53'08	max. Earth dist.	7845 Jul 29 15:24	9° Ω 48'06	1.32468 AU
evening rise	7844 Aug 16 12:06 7844 Aug 23 13:03	0° т р 15° т р25'41		superior conj	7845 Aug 01 02:46	15° Ω 07'24	0°29'43
evening rise	7844 Aug 30 17:39	0° ⊡		minimum elong	7845 Aug 01 02:40		0°29'21
desc. node	7844 Sep 15 05:28	ა _ 23° _ 49'20		minimum clong	7845 Aug 07 01:25	0°m)	0 2)21
evening max el	7844 Sep 19 04:19	28° ⊆ 01'11	25°12'09	evening rise	7845 Aug 08 00:45	0° mp 08'05	
e venning man er	7844 Sep 21 09:42	0°M	20 12 09	evening rise	7845 Aug 24 13:45	0∘ ⊽	
retrograde	7844 Oct 03 01:42	5°M02'13		evening max el	7845 Aug 31 16:03	8° ჲ 22'49	23°36'28
evening set	7844 Oct 08 20:09	3°M46'12		desc. node	7845 Sep 02 02:33	9° ≏ 42'20	
min. Earth dist.	7844 Oct 13 15:56	1° M 05'45	0.57391 AU	retrograde	7845 Sep 14 06:07	15° ≙ 10'58	
	7844 Oct 15 07:23	30° Ŗ Ω		evening set	7845 Sep 18 14:21	14° ≏ 29'40	
inferior conj	7844 Oct 16 14:14	29° ჲ 07'43	-5°21'55	min. Earth dist.	7845 Sep 25 02:07	11° ≏ 24'52	0.55759 AU
minimum elong	7844 Oct 16 18:32	29° ჲ 00'27	5°21'25	inferior conj	7845 Sep 27 02:34	10° ≙ 12'37	-5°30'20
morning rise	7844 Oct 24 19:15	24° ≙ 55'40		minimum elong	7845 Sep 27 00:12	10° ≙ 16′10	5°30'11
direct	7844 Oct 27 06:08	24° ≏ 37'59		morning rise	7845 Oct 05 12:14	6° ≏ 18'42	
morning max el	7844 Nov 05 05:43	28° ≏ 54'40	19°04'44	direct	7845 Oct 08 08:37	5° ≏ 58'36	
	7844 Nov 06 07:37	0° M		morning max el	7845 Oct 18 19:52	10° ≙ 52'57	20°13'12
asc. node	7844 Nov 07 06:32	1°M03'36		asc. node	7845 Oct 25 03:33	18° ≏ 30'14	
morning set	7844 Nov 21 23:17	25°M47'07			7845 Oct 31 22:45	0° M	
	7844 Nov 24 02:15	0° ≯		morning set	7845 Nov 06 04:57	10°M24'10	
superior conj	7844 Nov 30 06:16	12° ₹ 06'15	1°20'27	superior conj	7845 Nov 13 20:01	26° ™ 01'17	1°34'40
minimum elong	7844 Nov 30 09:21	12° ₹ 21'06	1°20'15	minimum elong	7845 Nov 13 21:57	26°M₁10'58	1°34'39
max. Earth dist.	7844 Dec 07 01:52	24° ₹ 47'50	1.38753 AU		7845 Nov 15 19:50	0° ∡ ¹	
	7844 Dec 10 00:27	0°る		max. Earth dist.	7845 Nov 19 08:12	6° х 49′53	1.36654 AU
evening rise	7844 Dec 10 21:09	1° る 29'44		evening rise	7845 Nov 23 04:01	13° ∡ ′57′25	
desc. node	7844 Dec 12 04:30	3° ⋜ 44'04		desc. node	7845 Nov 29 01:32	24° ∡ 18'14	
	7844 Dec 29 00:12	0° ≈			7845 Dec 02 12:05	0°る	
evening max el	7845 Jan 15 06:02	21° ≈ 30′18	24°39'07		7845 Dec 23 20:28	0° ≈	
retrograde	7845 Jan 26 19:59	28°≈16'07		evening max el	7845 Dec 28 19:03		25°50'35
evening set	7845 Feb 01 08:36	25°≈57'56		retrograde	7846 Jan 10 06:24	12° ≈ 24'45	
asc. node	7845 Feb 03 05:43	24°≈06'47	0.67006 ATT	evening set	7846 Jan 16 07:43	9°≈55'41	0.67101 ATT
min. Earth dist.	7845 Feb 05 22:34	20°≈46'15	0.67896 AU	min. Earth dist.	7846 Jan 20 14:50 7846 Jan 21 02:48	5°≈18'29	0.67101 AU
inferior conj minimum elong	7845 Feb 06 21:38 7845 Feb 06 20:03	19° ≈ 29'29 19° ≈ 34'45	1°11'11 1°10'39	asc. node inferior conj	7846 Jan 22 01:13	4°≈40'59 3°≈30'06	0°18'41
morning rise	7845 Feb 12 07:41	13°≈30'13	1 10 39	minimum elong	7846 Jan 22 00:44	3°≈31'37	0°18'36
direct	7845 Feb 16 01:23	13 ≈30 13 12°≈10'08		minimum clong	7846 Jan 25 00:08	30°Rる	0 10 30
morning max el	7845 Feb 23 12:50	16°≈21'56	19°52'46	morning rise	7846 Jan 27 18:17	27°る39'20	
morning max or	7845 Mar 06 06:38	0° ∀	19 32 10	direct	7846 Jan 31 00:26	26°₹38'36	
greatest brilliancy	7845 Mar 08 14:47	3° ¥ 23′23	-0.6m		7846 Feb 06 10:45	0° ≈	
desc. node	7845 Mar 10 04:01	5°) 40′25		morning max el	7846 Feb 06 20:15		18°56'29
morning set	7845 Mar 22 01:01	23°) (40'01		desc. node	7846 Feb 25 00:59	25° ≈ 53'13	
C	7845 Mar 26 03:09	$0^{\circ}\Upsilon$			7846 Feb 27 16:30	0°)	
max. Earth dist.	7845 Apr 02 03:51	11° Y 03'27	1.44276 AU	morning set	7846 Mar 01 07:04	2°) 30′04	
				max. Earth dist.	7846 Mar 15 19:49	25°) 11′50	1.45246 AU
superior conj	7845 Apr 07 07:24	19° Ƴ 19'46	-2°11'17				
minimum elong	7845 Apr 07 06:15	19° Ƴ 15′08	2°11'20	superior conj	7846 Mar 17 20:15	28° ¥ 22'12	-1°57'48
	7845 Apr 13 18:57	9° 8		minimum elong	7846 Mar 17 12:25	27°) €51'23	1°57'17
evening rise	7845 Apr 20 15:21	11° 8 34'41			7846 Mar 18 21:04	0° Υ	
	7845 May 01 16:14	Π $^{\circ}0$		evening rise	7846 Apr 01 20:22	22° Y 22'22	
asc. node	7845 May 02 04:43	0° ∏ 48'01			7846 Apr 06 12:51	0° 8	
evening max el	7845 May 08 15:34	9° Ⅱ 11'11	18°10'27	asc. node	7846 Apr 19 01:47	19° 8 06'35	
retrograde	7845 May 15 00:57	12° Ⅲ 33'07		evening max el	7846 Apr 22 03:52	22° 8 40'20	18°33'08
evening set	7845 May 17 21:46	11° Ⅱ 50′22	200 444	retrograde	7846 Apr 28 16:14	26° 8 13'29	
inferior conj	7845 May 24 00:25	6° ∏ 34'20	3°04'41	evening set	7846 May 01 20:16	25° 8 17'02	2022114
minimum elong	7845 May 24 02:33	6°Ⅱ28'31	3°04'13	inferior conj	7846 May 07 13:37	19° 8 43'43	3°22'14 3°22'06
min. Earth dist. morning rise	7845 May 26 17:33 7845 May 30 05:51	3° П 38'06 0° П 24'30	0.63033 AU	minimum elong min. Earth dist.	7846 May 07 14:23 7846 May 09 15:44	19° 8 41'25 17° 8 13'46	0.64940 AU
morning rise	7845 May 30 05:51 7845 May 30 19:14	0°Щ24°30 30° ₹		min. Earth dist.	7846 May 13 07:42	17° 8 13° 4 6	0.04740 AU
direct	7845 Jun 06 00:32	27° 8 49'47		direct	7846 May 19 23:05	10° 8 41'23	
desc. node	7845 Jun 06 03:31	27° 8 49'50		desc. node	7846 May 24 00:32	11° 8 34'18	
acce. noue	7845 Jun 12 19:39	0°II		morning max el	7846 Jun 02 10:25	18° 8 36'53	27°13'11
morning max el	7845 Jun 20 00:28	5° П 52'43	27°49'41	moning max of	7846 Jun 12 00:49	0°Ⅱ	-, .J.11
	7845 Jul 08 06:56	0°95			7846 Jul 01 06:04	0°©	
morning set	7845 Jul 24 09:36	28° © 55'24		morning set	7846 Jul 07 22:30	12° 5 26'12	
<i>5</i>	7845 Jul 24 22:24	0° Ω		max. Earth dist.	7846 Jul 12 11:16	21° © 28'23	1.33567 AU
asc. node	7845 Jul 29 04:00	8° Ω 47'28					

superior conj	7846 Jul 16 06:04	29° © 20'42	0°02'09		7847 Jun 23 10:40	0	
minimum elong	7846 Jul 16 05:57	29° © 20'08	0°02'01	max. Earth dist.	7847 Jun 24 20:20	2° 5 42'07	1.35148 AU
behind sun begin	7846 Jul 16 00:25	28° © 50'57					
behind sun end	7846 Jul 16 11:29	29° 5 49'21		superior conj	7847 Jun 30 01:59	13° © 07'53	-0°28'14
asc. node	7846 Jul 16 01:00	28° © 54'00		minimum elong	7847 Jun 30 03:37	13° © 16'11	0°28'03
	7846 Jul 16 13:30	$0^{\circ}\Omega$		asc. node	7847 Jul 02 21:59	18° © 57'35	
evening rise	7846 Jul 23 11:42	14° Ω 45'00		evening rise	7847 Jul 07 19:51	29° 5 09'26	
-	7846 Jul 31 03:39	0° m			7847 Jul 08 05:40	$0^{\circ}\Omega$	
evening max el	7846 Aug 13 06:22	18° m 39'59	21°58'33	evening max el	7847 Jul 26 06:54	29° Ω 23′26	20°32'19
desc. node	7846 Aug 19 23:38	23° m 33'56		<i>y</i>	7847 Jul 26 22:08	0° m)	
retrograde	7846 Aug 25 22:34	24° m/ 57'38		retrograde	7847 Aug 06 10:37	4° Mp 54'07	
evening set	7846 Aug 28 19:57	24° Mp 39'00		desc. node		4° Mp 53'41	
•	•		40.4.611.1		7847 Aug 06 20:42	-	
inferior conj	7846 Sep 06 23:26	20° m 37'59		evening set	7847 Aug 08 11:29	4° m/43'53	
minimum elong	7846 Sep 06 14:47	20° m/50'06	4°44'23	inferior conj	7847 Aug 17 16:23	0° ™ 46'48	
min. Earth dist.	7846 Sep 06 10:52	20° m 55'36	0.54830 AU	minimum elong	7847 Aug 17 07:55	0° m 59'00	
morning rise	7846 Sep 15 11:02	16° Mp 49'09		min. Earth dist.	7847 Aug 18 20:31	0°Mp06'13	0.54811 AU
direct	7846 Sep 18 20:43	16° Mp 23'32			7847 Aug 19 00:51	30° R Ω	
morning max el	7846 Sep 30 21:08	22° m 02'51	21°42'27	morning rise	7847 Aug 26 03:53	26° Ω 43'17	
	7846 Oct 07 15:45	0∘ ত		direct	7847 Aug 30 05:43	26° Ω 07'40	
asc. node	7846 Oct 12 00:32	6° £ 46′09			7847 Sep 09 11:53	0° m)	
morning set	7846 Oct 21 14:28	25° £ 10'54		morning max el	7847 Sep 12 12:38	2° m/32'41	23°25'55
. 8	7846 Oct 23 21:23	0° M		asc. node	7847 Sep 28 21:31	25° m 38'50	
	7010 001 23 21.23	0 110		use. Houe	7847 Oct 01 04:20	0° ⊡	
aumorior aoni	7046 Oct. 20, 10:17	10°M23'00	1°41'05	morning sat		0 = 10° £ 01'09	
superior conj	7846 Oct 28 19:17			morning set	7847 Oct 06 01:53	10 ==01 09	
minimum elong	7846 Oct 28 19:51	10°M25'56	1°41'09				
max. Earth dist.	7846 Nov 01 20:31	18°M43'12	1.34824 AU	superior conj	7847 Oct 13 00:56	25° Ω 01'46	1°40'40
evening rise	7846 Nov 06 03:43	27°ML10'10		minimum elong	7847 Oct 13 00:16	24° ≏ 58'09	1°40'41
	7846 Nov 07 15:36	0° ∡ ¹			7847 Oct 15 08:43	0° M	
desc. node	7846 Nov 15 22:35	14° ∡ ³39'53		max. Earth dist.	7847 Oct 15 17:13	0° ™ 45'03	1.33376 AU
	7846 Nov 25 19:55	0°ರ		evening rise	7847 Oct 20 16:14	10° ™ 57'06	
evening max el	7846 Dec 11 08:22	18° る 59'24	26°47'06		7847 Oct 30 23:38	0° ∡ ¹	
retrograde	7846 Dec 24 11:13	26° ප 17'04		desc. node	7847 Nov 02 19:37	4° ∡ ¹42'32	
evening set	7846 Dec 31 00:22	23° る 41'29			7847 Nov 21 10:57	აგ	
min. Earth dist.	7847 Jan 04 01:23	19° る 38'54	0.65944 AU	evening max el	7847 Nov 23 21:04	2° る 25'57	27°21'28
inferior conj	7847 Jan 05 23:19	17° る 24'30		retrograde	7847 Dec 07 09:47	9° පි 45'11	27 2120
minimum elong	7847 Jan 06 00:29	17° පි 21'06	0°40'14	evening set	7847 Dec 14 08:15	7° る 09'27	
asc. node	7847 Jan 07 23:51	17 3 21 00	0 40 14	min. Earth dist.	7847 Dec 14 08:15 7847 Dec 18 03:55	3°る40'27	0.64439 AU
						1°る06'57	
morning rise	7847 Jan 12 01:34	11° る 44'46		inferior conj	7847 Dec 20 13:32		
direct	7847 Jan 14 21:58	10° ප් 59'55		minimum elong	7847 Dec 20 16:47	0°る58'17	1°44'46
morning max el	7847 Jan 21 09:38	14° る 28'25	18°16'36		7847 Dec 21 14:55	30°₽.∡7	
	7847 Feb 01 17:13	0° ≈		asc. node	7847 Dec 25 20:53	26° ≯ 20′30	
morning set	7847 Feb 09 15:51	12° ≈ 43'14		morning rise	7847 Dec 27 02:51	25° ∡ ′41'19	
desc. node	7847 Feb 11 21:56	16° ≈ 20'36		direct	7847 Dec 29 15:31	25° ∡ ′08'35	
	7847 Feb 20 11:43	0° ℋ		morning max el	7848 Jan 05 02:24	28° ₮ 31'28	17°53'45
					7848 Jan 06 11:35	5°0	
superior conj	7847 Feb 25 00:47	7°) €09'12	-1°25'14	morning set	7848 Jan 22 05:44	24° る 22'28	
minimum elong	7847 Feb 24 15:31	6° 升 32'52	1°24'09		7848 Jan 25 14:09	0° ≈	
max. Earth dist.	7847 Feb 26 15:13	9° ₩ 39'53	1.45490 AU	desc. node	7848 Jan 29 18:55	6°≈58'02	
	7847 Mar 11 15:34	0°Υ	-				
evening rise	7847 Mar 13 02:29	2° Υ 16'28		superior conj	7848 Feb 04 16:31	16° ≈ 33'47	-0°41'38
greatest brilliancy	7847 Mar 24 07:09	19° Υ 41'01	-0.8m	minimum elong	7848 Feb 04 11:43		0°40'52
greatest offinality		0° 8	-0.6111	max. Earth dist.		24°≈09'42	1.44982 AU
	7847 Mar 31 08:37		10012102	max. Earm dist.	7848 Feb 09 11:00		1.44962 AU
evening max el	7847 Apr 05 12:49	6° 8 15'19	19°13'02		7848 Feb 13 04:12	0°) {	
asc. node	7847 Apr 05 22:50	6° 8 40'11		evening rise	7848 Feb 20 16:42	11°) € 38'46	
retrograde	7847 Apr 12 12:22	10° 8 11'45			7848 Mar 03 19:29	0° Υ	
evening set	7847 Apr 16 00:05	9° 8 00'49		greatest brilliancy	7848 Mar 06 12:50	4° Υ 00'40	-0.6m
inferior conj	7847 Apr 21 11:30	3° 8 11'35	3°23'34	evening max el	7848 Mar 18 16:49	19° Ƴ 53'03	20°08'33
minimum elong	7847 Apr 21 10:58	3° 8 13'18	3°23'29	asc. node	7848 Mar 22 19:54	23° Y 16'16	
min. Earth dist.	7847 Apr 22 22:13	1° 8 19'39	0.66460 AU	retrograde	7848 Mar 26 10:43	24° Y °22'57	
	7847 Apr 23 23:47	30° ₹Ƴ		evening set	7848 Mar 30 06:59	22° Y 57'06	
morning rise	7847 Apr 26 21:29	26° Ƴ 54'08		inferior conj	7848 Apr 04 15:15	16° Ƴ 53'52	3°11'59
direct	7847 May 03 04:07	24°Υ08'35		minimum elong	7848 Apr 04 13:44	16° Y 59'00	3°11'45
desc. node	7847 May 10 21:32	27° Υ 18'36		min. Earth dist.	7848 Apr 05 11:31	15° Υ 45'10	0.67538 AU
acse. noue	7847 May 14 02:24	0° 8		morning rise	7848 Apr 09 20:17	13 γ 43 10 10° γ 37'29	0.07556 AU
morning me1	•	_	2600017	•	•	8° Υ 02'57	
morning max el	7847 May 15 20:30		26°09'17	direct	7848 Apr 15 14:45		
	7847 Jun 06 03:13	0°II		desc. node	7848 Apr 26 18:30	14° Y 32'23	24045125
morning set	7847 Jun 20 22:35	25° Ⅱ 16'47		morning max el	7848 Apr 27 05:49	15° Y ′00'43	24°47'32

	7848 May 09 12:24	0° ႘			7849 Apr 11 03:17	0° Υ	
	7848 May 29 00:35	0°II		desc. node	7849 Apr 13 15:29	2° Υ 50'18	
morning set	7848 Jun 02 05:15	7° Ⅱ 15'41		desc. node	7849 May 03 05:30	0°8	
max. Earth dist.	7848 Jun 05 20:08		1.37138 AU	morning set	7849 May 14 12:55	18° 8 08'10	
				max. Earth dist.	7849 May 18 15:56	25° 8 11'01	1.39358 AU
superior conj	7848 Jun 12 11:32	26° Ⅱ 21'47	-0°59'50		7849 May 21 09:38	0°II	
minimum elong	7848 Jun 12 15:10	26° Ⅱ 39'30	0°59'20		·		
	7848 Jun 14 07:58	0°€		superior conj	7849 May 26 06:53	8° Ⅱ 52'48	-1°30'10
asc. node	7848 Jun 18 19:00	8° 5 54'47		minimum elong	7849 May 26 12:12	9° Ⅱ 17'29	1°29'34
evening rise	7848 Jun 20 22:53	13° © 15'19		evening rise	7849 Jun 04 17:54	26° Ⅱ 54'37	
	7848 Jun 29 20:28	$0^{\circ}\Omega$		asc. node	7849 Jun 05 16:02	28° ∏ 41′07	
evening max el	7848 Jul 07 20:33	10° Ω 49'56	19°24'59		7849 Jun 06 08:28	0 \circ \odot	
retrograde	7848 Jul 17 07:21	15° Ω 29'43		evening max el	7849 Jun 20 21:33	22° © 59'23	18°38'30
evening set	7848 Jul 19 04:13	15° Ω 19'33		retrograde	7849 Jun 28 21:27	26° © 57'21	
desc. node	7848 Jul 23 17:45	13° Ω 40′08		evening set	7849 Jun 30 23:20	26°5542'11	
inferior conj	7848 Jul 27 20:03	11° Ω 12'30	-1°15'04	inferior conj	7849 Jul 08 19:43	22° © 17'10	0°31'59
minimum elong	7848 Jul 27 16:40	11° Ω 17'58	1°13'51	minimum elong	7849 Jul 08 20:55	22° © 14'56	0°31'26
min. Earth dist.	7848 Jul 30 09:12	9° Ω 33'43	0.55735 AU	desc. node	7849 Jul 10 14:47	20° © 55'17	
morning rise	7848 Aug 05 02:30	6° Ω 36′23		min. Earth dist.	7849 Jul 12 02:34	19° 5 349'01	0.57423 AU
direct	7848 Aug 09 23:43	5° Ω 42'29		morning rise	7849 Jul 16 14:58	17° © 03'56	
morning max el	7848 Aug 24 01:16	12° Ω 47'20	25°10'03	direct	7849 Jul 22 08:29	15°5542'00	
	7848 Sep 06 09:50	0° т р		morning max el	7849 Aug 05 17:16	23°516'05	26°37'51
asc. node	7848 Sep 14 18:30	14° m 58'54			7849 Aug 11 18:26	0 $^{\circ}$ Ω	
morning set	7848 Sep 19 13:31	24° m/49'57			7849 Aug 30 07:59	0° m	
	7848 Sep 21 23:03	0∘ ⊽		asc. node	7849 Sep 01 15:29	4° ™ 39'00	
				morning set	7849 Sep 03 23:45	9° ™ 32′29	
superior conj	7848 Sep 26 10:34	9° £ 50'07	1°34'12		7040 0 10 22 00	0.40 m. 4114 f	1022110
minimum elong	7848 Sep 26 08:58	9° £ 41'19	1°34'05	superior conj	7849 Sep 10 22:09	24° m/41'45	1°22'18
max. Earth dist.	7848 Sep 27 21:26	13° £ 01'01	1.32361 AU	minimum elong	7849 Sep 10 20:01	24° m/29'52	1°22'01
evening rise	7848 Oct 03 14:14	25° ♀ 09'16 0° ጤ		max. Earth dist.	7849 Sep 11 06:23	25° Mp 27′22 0° <u>₽</u>	1.31799 AU
11-	7848 Oct 05 23:38				7849 Sep 13 07:44		
desc. node	7848 Oct 19 16:40 7848 Oct 23 12:16	24°M18'05 0°⊀		evening rise	7849 Sep 17 18:56 7849 Sep 28 06:59	9° 亞 38'58 0° ጤ	
evening max el	7848 Nov 05 07:08	0 x ⁴ 15° x ⁴23'54	2702717	desc. node	7849 Oct 06 13:43	13°M15'40	
retrograde	7848 Nov 19 01:37	22° × ⁷ 39'54	2/2/1/	evening max el	7849 Oct 18 12:14	27°M41'31	27°00'10
evening set	7848 Nov 26 04:25	20° 🖈 12'59		evening max er	7849 Oct 21 03:31	27 IIC41 31 0° 🗷	27 00 10
min. Earth dist.	7848 Nov 29 20:37	17°×713'15	0.62627 AU	retrograde	7849 Nov 01 09:54	4° х 52′06	
inferior conj	7848 Dec 02 17:02	14° × 30'19		evening set	7849 Nov 08 09:02	2° × ⁷ 45'14	
minimum elong	7848 Dec 02 22:31	14° × 17'15		min. Earth dist.	7849 Nov 12 02:47	0° ₹ 05'20	0.60595 AU
morning rise	7848 Dec 09 18:39	9° × 22'03	2 0200	min. Burur uibv.	7849 Nov 12 05:25	30°RM	0.00090110
asc. node	7848 Dec 11 17:56	8° × 758'17		inferior conj	7849 Nov 15 06:33	27°M26'35	-4°02'27
direct	7848 Dec 12 02:01	8° ∡ 757'46		minimum elong	7849 Nov 15 13:35	27° M 11'48	4°00'18
morning max el	7848 Dec 18 19:29	12° ∡ °24'15	17°48'27	morning rise	7849 Nov 22 20:29	22°M38'38	
C	7848 Dec 30 17:42	0°ರ		direct	7849 Nov 25 01:43	22°M19'21	
morning set	7849 Jan 03 19:05	7° る 08'44		asc. node	7849 Nov 28 14:59	23°M11'11	
				morning max el	7849 Dec 02 09:34	25°M58'19	18°01'49
superior conj	7849 Jan 15 07:58	27° පි 08'01	0°02'25		7849 Dec 05 20:13	0°⊀	
minimum elong	7849 Jan 15 08:13	27° る 09'05	0°02'30	morning set	7849 Dec 18 01:35	20° х 43′34	
behind sun begin	7849 Jan 14 23:16	26° る 31'28			7849 Dec 23 02:01	5°0	
behind sun end	7849 Jan 15 17:10	27° る 46'36					
desc. node	7849 Jan 15 15:53	27° る 41'13		superior conj	7849 Dec 28 00:55	8° る 55'37	
	7849 Jan 17 01:10	0° ≈		minimum elong	7849 Dec 28 03:53	9° ට 08'45	0°39'36
max. Earth dist.	7849 Jan 22 03:44	8° ≈ 21'18	1.43794 AU	desc. node	7850 Jan 02 12:52	18° る 26'57	
evening rise	7849 Jan 30 04:47	21°≈03′10		max. Earth dist.	7850 Jan 04 15:42	22° る 00'26	1.42069 AU
	7849 Feb 05 01:16	0° ∀			7850 Jan 09 13:03	0° ≈	
	7849 Feb 26 10:49	0° Υ		evening rise	7850 Jan 10 05:34	1°≈06'10	
evening max el	7849 Mar 01 15:13	3° Y 31′25	21°16'59		7850 Jan 29 13:04	0°) (
asc. node	7849 Mar 09 17:00	8° Υ 39'06		evening max el	7850 Feb 12 08:50	17°) 12'07	22°34'03
retrograde	7849 Mar 10 09:03	8° Υ 41'25		retrograde	7850 Feb 22 05:34	23°) €03'15	
evening set	7849 Mar 14 15:02	7° Υ 00'31	2040142	asc. node	7850 Feb 24 14:05	22°) 35'08	
inferior conj	7849 Mar 19 22:27	0° Υ 45'45	2°49'43	evening set	7850 Feb 26 22:36	21°) (07'21	2010107
minimum elong	7849 Mar 19 20:20	0°Υ53'04	2°49'15	inferior conj	7850 Mar 04 07:03	14°) (44'17	2°18'06
min. Earth dist.	7849 Mar 20 05:34	0° Υ 21'02	0.68171 AU	minimum elong	7850 Mar 04 04:46	14° ¥ 52'12 15° ¥ 01'34	2°17'28
morning rise	7849 Mar 20 11:38	30° ₹ 24° 升 32'11		min. Earth dist.	7850 Mar 04 02:05 7850 Mar 09 10:48	8° H 34'59	0.68384 AU
morning rise	7849 Mar 25 01:28 7849 Mar 30 06:11	24° H 32'11 22° H 15'32		morning rise direct		8° ↑ 34 '59 6° ↑ 39 '53	
direct morning max el	7849 Mar 30 06:11 7849 Apr 09 15:15	28°\(\frac{15}{25}\)'50	23°18'07	morning max el	7850 Mar 14 01:27 7850 Mar 23 03:48	11° X 58'39	21°50'26
morning max ci	70 -7 7 гурт 07 13.13	20 1(23 30	23 100/	morning max ci	7050 Iviai 25 U5.40	11 / 30 39	41 30 40

desc. node	7850 Mar 31 12:28	21° ¥ 54'32		mamina may al	7851 Mar 05 22:55	25° ≈ 42'59	20°31'54
desc. node	7850 Mai 31 12.28 7850 Apr 06 09:42	21 π3432 0°Υ		morning max el	7851 Mar 09 19:10	23 ≈ 42 39 0° H	20 31 34
morning sat	7850 Apr 06 09.42 7850 Apr 24 17:06	0 γ 27° Υ 43'32		desc. node	7851 Mar 18 09:26	11° X 32'22	
morning set	7850 Apr 26 03:02	0° 8		desc. node	7851 Mar 30 19:41	0° Υ	
max. Earth dist.	7850 Apr 30 14:55		1.41550 AU	morning sat		6° Υ 15'01	
max. Earm dist.	7630 Apr 30 14.33	/ 02211	1.41330 AU	morning set max. Earth dist.	7851 Apr 03 21:08	20° Y 29'52	1.43434 AU
gunariar aani	7950 May 09 07:24	20° 8 30'31	1055122	max. Earm dist.	7851 Apr 12 21:30	0° 8	1.43434 AU
superior conj minimum elong	7850 May 08 07:24 7850 May 08 12:54	20° 8 54'40			7851 Apr 18 16:54	0.0	
minimum ciong	7850 May 08 12.54 7850 May 13 14:52	20 O 34 40 0° I	1 33 00	superior conj	7851 Apr 19 08:39	1° 8 05'29	2010/02
avanina riaa	7850 May 19 01:14	9° ∏ 58'04		minimum elong	7851 Apr 19 11:03	1° 8 15'31	
evening rise	,	9° Ⅲ 38′04 18° Ⅲ 11′41		U		22° 8 15'44	2 10 03
asc. node	7850 May 23 13:05	10 п 1141		evening rise	7851 May 01 16:27	0° I	
	7850 May 30 15:14		10010102	1-	7851 May 06 02:24	0° П 7° П 20'43	
evening max el	7850 Jun 04 06:17	5°943'21	18°12'23	asc. node	7851 May 10 10:09		10005144
retrograde	7850 Jun 11 06:13	9°514'52		evening max el	7851 May 18 18:55	18° Ⅱ 51'48	18°05'44
evening set	7850 Jun 13 15:41	8°950'46	1050146	retrograde	7851 May 25 06:29	22° I 12'51	
inferior conj	7850 Jun 20 17:01	4°905'16	1°52'46	evening set	7851 May 27 23:21	21° II 37'16	2045126
minimum elong	7850 Jun 20 20:03	3°958'34	1°51'43	inferior conj	7851 Jun 03 09:05	16° Ⅲ 31'45	2°45'26
min. Earth dist.	7850 Jun 24 02:07	1°507'30	0.59564 AU	minimum elong	7851 Jun 03 11:51	16° Ⅱ 24'43	2°44'43
	7850 Jun 25 11:48	30°RⅡ		min. Earth dist.	7851 Jun 06 09:39	13° Ⅱ 28'47	0.61809 AU
desc. node	7850 Jun 27 11:51	28° I I36'33		morning rise	7851 Jun 09 22:24	10° Ⅱ 29'07	
morning rise	7850 Jun 27 21:26	28° Ⅲ 22'06		desc. node	7851 Jun 14 08:54	8° Ⅲ 23'02	
direct	7850 Jul 04 06:52	26° Ⅱ 27'59		direct	7851 Jun 16 16:01	8° Ⅱ 06'48	
	7850 Jul 13 13:54	0ං ව		morning max el	7851 Jun 30 20:13	16° Ⅱ 07'30	27°55'18
morning max el	7850 Jul 18 15:34	4° © 19'55	27°35'15		7851 Jul 12 05:25	0ංම	
	7850 Aug 06 13:44	$0^{\circ}\Omega$			7851 Jul 30 04:58	$0^{\circ}\Omega$	
morning set	7850 Aug 19 06:49	24° Ω 02'57		morning set	7851 Aug 03 08:48	8° Ω 16′05	
asc. node	7850 Aug 19 12:28	24° Ω 32'32		asc. node	7851 Aug 06 09:27	14° Ω 34'44	
	7850 Aug 22 01:55	O° My		max. Earth dist.	7851 Aug 09 00:30	20° Ω 13'14	1.32059 AU
max. Earth dist.	7850 Aug 25 16:39	7° m 54'57	1.31698 AU				
				superior conj	7851 Aug 10 19:45	24° Ω 09'14	0°43'58
superior conj	7850 Aug 26 09:48	9° ™ 29'54	1°05'25	minimum elong	7851 Aug 10 17:56	23° Ω 59'14	0°43'32
minimum elong	7850 Aug 26 07:34	9° ™ 17'31	1°05'00		7851 Aug 13 11:36	0° m	
evening rise	7850 Sep 02 03:56	24° Mp 18'32		evening rise	7851 Aug 17 15:12	9° ™ 02'00	
	7850 Sep 04 21:04	0∘ ত			7851 Aug 28 08:50	0∘ ত	
	7850 Sep 22 10:41	0°M		desc. node	7851 Sep 10 07:53	18° ≏ 07'45	
desc. node	7850 Sep 23 10:49	1°M19'16		evening max el	7851 Sep 12 00:20	19° ≏ 49'42	24°32'50
evening max el	7850 Sep 30 10:04	9°M09'21	25°59'45	retrograde	7851 Sep 25 19:31	26° ≏ 45'49	
retrograde	7850 Oct 14 08:34	16°M₁3'40		evening set	7851 Oct 01 00:38	25° ≏ 45'24	
evening set	7850 Oct 20 17:07	14° M 37'31		min. Earth dist.	7851 Oct 06 11:21	22° ≙ 56'43	0.56636 AU
min. Earth dist.	7850 Oct 24 22:55	12°Mo2'26	0.58513 AU	inferior conj	7851 Oct 09 02:12	21° ≏ 16'59	-5°31'06
inferior conj	7850 Oct 28 02:27	9°M44'53	-4°59'29	minimum elong	7851 Oct 09 04:02	21° ≏ 14'03	5°30'57
minimum elong	7850 Oct 28 08:51	9°M33'10	4°58'14	morning rise	7851 Oct 17 09:37	17° ≙ 13'25	
morning rise	7850 Nov 05 02:54	5° M ₁9'21		direct	7851 Oct 20 00:15	16° ♀ 54'52	
direct	7850 Nov 07 10:19	5°M01'52		morning max el	7851 Oct 29 14:01	21° ≏ 26′16	19°31'08
morning max el	7850 Nov 15 16:56	9°M02'19	18°35'29	asc. node	7851 Nov 02 09:00	25° ≏ 42'13	
asc. node	7850 Nov 15 12:00	8°M50'34			7851 Nov 05 09:27	0° M .	
	7850 Nov 29 07:27	0° ∡ ¹		morning set	7851 Nov 15 22:18	19° M .19'15	
morning set	7850 Dec 01 19:57	4° ₹ 150'45			7851 Nov 21 05:36	0° ∡ ¹	
superior conj	7850 Dec 10 15:12	21° ≮¹ 43'38	1°08'19	superior conj	7851 Nov 23 21:42	5° ҂ 17'49	1°27'30
minimum elong	7850 Dec 10 18:39	21° ₹ 759'44	1°08'00	minimum elong	7851 Nov 24 00:21	5° х 30′49	1°27'22
	7850 Dec 15 03:39	ರ°0		max. Earth dist.	7851 Nov 30 05:05	17° ∡ 18'44	1.37843 AU
max. Earth dist.	7850 Dec 17 23:19	4° る 59'01	1.40004 AU	evening rise	7851 Dec 03 22:34	24° ₹ 02'19	
desc. node	7850 Dec 20 09:53	9° ⋜ 11'14		desc. node	7851 Dec 07 06:54	29° ₰ 750'14	
evening rise	7850 Dec 22 03:10	12° る 05'27			7851 Dec 07 09:12	0°ಕ	
	7851 Jan 02 09:30	0° ≈			7851 Dec 27 02:54	0° ≈	
	7851 Jan 25 01:07	0° ℋ		evening max el	7852 Jan 08 12:31	14° ≈ 43'25	25°10'54
evening max el	7851 Jan 25 23:21	0°) 56′32	23°54'15	retrograde	7852 Jan 20 11:55	21° ≈ 39'07	
retrograde	7851 Feb 05 22:54	7°) 24'11		evening set	7852 Jan 26 06:05	19° ≈ 15'54	
evening set	7851 Feb 11 04:09	5°) 13′52		asc. node	7852 Jan 29 08:15	16° ≈ 02'11	
asc. node	7851 Feb 11 11:10	4°) 58′33		min. Earth dist.	7852 Jan 30 17:03	14° ≈ 19′03	0.67608 AU
	7851 Feb 15 17:27	30° R ≈		inferior conj	7852 Jan 31 20:55	12° ≈ 48'19	0°49'50
min. Earth dist.	7851 Feb 15 22:40	29° ≈ 42'21	0.68190 AU	minimum elong	7852 Jan 31 19:44	12° ≈ 52'10	0°49'27
inferior conj	7851 Feb 16 15:10	28° ≈ 46'18	1°37'58	morning rise	7852 Feb 06 09:41	6° ≈ 52'31	
minimum elong	7851 Feb 16 13:11	28° ≈ 53'02	1°37'19	direct	7852 Feb 09 22:22	5° ≈ 40'56	
morning rise	7851 Feb 21 22:13	22° ≈ 42'52		morning max el	7852 Feb 17 02:03	9° ≈ 39'07	19°26'54
direct	7851 Feb 25 23:21	21°≈10'11		greatest brilliancy	7852 Feb 29 23:14	26°≈37'35	-0.7m
				<i>J</i>		3.20	

	7852 Mar 03 05:21	0° ∀		transit begin	7853 Jan 14 19:52	26° る 54'46	
desc. node	7852 Mar 04 06:24	1°) 34′28		transit end	7853 Jan 15 01:16	26°₹38'14	
morning set	7852 Mar 12 19:17	14°) (3120		asc. node	7853 Jan 15 05:17	26° ♂ 25'56	
	7852 Mar 22 16:25	0°Υ		morning rise	7853 Jan 20 19:10	21° る 00'54	
max. Earth dist.	7852 Mar 25 11:09	4° Υ 22'43	1.44779 AU	direct	7853 Jan 23 20:55	20° る 07'27	
				morning max el	7853 Jan 30 12:23	23° る 43'37	18°37'36
superior conj	7852 Mar 29 09:08	10° Ƴ 36′07	-2°08'05	C	7853 Feb 04 17:45	0° ≈	
minimum elong	7852 Mar 29 04:57	10° Ƴ 19'21	2°07'58	desc. node	7853 Feb 19 03:21	21° ≈ 54'22	
S	7852 Apr 10 06:37	0°8		morning set	7853 Feb 20 11:33	24°≈01'16	
evening rise	7852 Apr 12 10:57	3° 8 37'59		C	7853 Feb 24 06:40	0° ∀	
asc. node	7852 Apr 26 07:13	26° 8 00'18		max. Earth dist.	7853 Mar 08 05:10	18°) 42′51	1.45438 AU
	7852 Apr 29 07:21	$\Pi^{\circ}0$					
evening max el	7852 May 01 08:05	2° Ⅱ 15′04	18°17'50	superior conj	7853 Mar 08 16:15	19°) 26′18	-1°46'00
retrograde	7852 May 07 17:36	5° Ⅱ 40'14		minimum elong	7853 Mar 08 06:54	18°) 49'42	1°45'10
evening set	7852 May 10 17:30	4° ∏ 51'40			7853 Mar 15 09:38	0° Y	
	7852 May 16 04:20	30° ₹ 8		evening rise	7853 Mar 24 06:02	14° Ƴ 02'30	
inferior conj	7852 May 16 15:43	29° 8 27'46	3°14'21	greatest brilliancy	7853 Apr 01 09:48	27° Y 02'45	-0.8m
minimum elong	7852 May 16 17:17	29° 8 23'19	3°14'04		7853 Apr 03 06:55	0°8	
min. Earth dist.	7852 May 19 02:29	26° 8 41'12	0.63889 AU	asc. node	7853 Apr 13 04:16	14° 8 01'34	
morning rise	7852 May 22 15:57	23° 8 14'37		evening max el	7853 Apr 14 19:10	15° 8 47'22	18°47'56
direct	7852 May 29 09:52	20° 8 33'47		retrograde	7853 Apr 21 11:28	19° 8 29'23	
desc. node	7852 May 31 05:56	20° 8 44'32		evening set	7853 Apr 24 18:36	18° 8 26'56	
morning max el	7852 Jun 12 05:11	28° 8 34'29	27°38'04	inferior conj	7853 Apr 30 09:02	12° 8 46'27	3°24'32
	7852 Jun 13 14:12	$\Pi^{\circ}0$		minimum elong	7853 Apr 30 09:14	12° 8 45'52	3°24'27
	7852 Jul 05 01:27	0°€		min. Earth dist.	7853 May 02 04:30	10° 8 31'37	0.65639 AU
morning set	7852 Jul 17 03:19	22° 5 04'29		morning rise	7853 May 05 23:16	6° 8 29'07	
	7852 Jul 21 00:58	$0^{\circ}\Omega$		direct	7853 May 12 11:18	3° 8 41'48	
max. Earth dist.	7852 Jul 22 01:56	2° Ω 10′19	1.32884 AU	desc. node	7853 May 18 02:57	5° 8 24'09	
asc. node	7852 Jul 23 06:26	4° Ω 40′38		morning max el	7853 May 25 15:44	11° 8 30'27	26°48'45
					7853 Jun 09 08:56	$\Pi^{\circ}0$	
superior conj	7852 Jul 25 02:03	8° Ω 33'19	0°18'26		7853 Jun 27 15:00	0°©	
minimum elong	7852 Jul 25 01:09	8° Ω 28'33	0°18'08	morning set	7853 Jun 30 11:16	5° © 19'48	
evening rise	7852 Aug 01 02:48	23° Ω 42'43		max. Earth dist.	7853 Jul 04 17:26	13° © 39'04	1.34187 AU
	7852 Aug 04 03:04	0° m)					
	7852 Aug 23 10:13	0∘ ত		superior conj	7853 Jul 09 02:31	22° © 36'12	-0°10'30
evening max el	7852 Aug 23 11:48	0° ჲ 03'53	22°53'59	minimum elong	7853 Jul 09 03:06	22°539'13	0°10'31
	2						
desc. node	7852 Aug 27 04:58	3° º 12'55		behind sun begin	7853 Jul 08 22:43	22°516'28	
desc. node retrograde	•	3° £ 12'55 6° £ 41'44		•			
	7852 Aug 27 04:58			behind sun begin	7853 Jul 08 22:43	22°516'28	
retrograde	7852 Aug 27 04:58 7852 Sep 05 18:17	6° £ 41'44 6° £ 11'45	0.55264 AU	behind sun begin behind sun end	7853 Jul 08 22:43 7853 Jul 09 07:28	22°©16'28 23°©01'59	
retrograde evening set	7852 Aug 27 04:58 7852 Sep 05 18:17 7852 Sep 09 11:05	6° £ 41'44 6° £ 11'45		behind sun begin behind sun end	7853 Jul 08 22:43 7853 Jul 09 07:28 7853 Jul 10 03:26	22°©16'28 23°©01'59 24°©46'21	
retrograde evening set min. Earth dist.	7852 Aug 27 04:58 7852 Sep 05 18:17 7852 Sep 09 11:05 7852 Sep 16 20:05	6° Ω 41'44 6° Ω 11'45 2° Ω 52'17	-5°18'28	behind sun begin behind sun end asc. node	7853 Jul 08 22:43 7853 Jul 09 07:28 7853 Jul 10 03:26 7853 Jul 12 14:57 7853 Jul 16 12:48 7853 Jul 28 02:13	22°©16′28 23°©01′59 24°©46′21 0° <i>Ω</i>	
retrograde evening set min. Earth dist. inferior conj	7852 Aug 27 04:58 7852 Sep 05 18:17 7852 Sep 09 11:05 7852 Sep 16 20:05 7852 Sep 18 06:50	6° Ω 41'44 6° Ω 11'45 2° Ω 52'17 2° Ω 02'23 2° Ω 10'21 30°R ጥ	-5°18'28	behind sun begin behind sun end asc. node	7853 Jul 08 22:43 7853 Jul 09 07:28 7853 Jul 10 03:26 7853 Jul 12 14:57 7853 Jul 16 12:48	22°\$16'28 23°\$01'59 24°\$46'21 0°\$1 8°\$14'58	21°19′43
retrograde evening set min. Earth dist. inferior conj	7852 Aug 27 04:58 7852 Sep 05 18:17 7852 Sep 09 11:05 7852 Sep 16 20:05 7852 Sep 18 06:50 7852 Sep 18 01:18	6° \(\Omega \) 41'44 6° \(\Omega \) 11'45 2° \(\Omega \) 52'17 2° \(\Omega \) 02'23 2° \(\Omega \) 10'21	-5°18'28	behind sun begin behind sun end asc. node evening rise evening max el desc. node	7853 Jul 08 22:43 7853 Jul 09 07:28 7853 Jul 10 03:26 7853 Jul 12 14:57 7853 Jul 16 12:48 7853 Jul 28 02:13 7853 Aug 05 05:35 7853 Aug 14 02:03	22°©16'28 23°©01'59 24°©46'21 0°N 8°N14'58	21°19'43
retrograde evening set min. Earth dist. inferior conj minimum elong	7852 Aug 27 04:58 7852 Sep 05 18:17 7852 Sep 09 11:05 7852 Sep 16 20:05 7852 Sep 18 06:50 7852 Sep 18 01:18 7852 Sep 22 00:20	6°	-5°18'28	behind sun begin behind sun end asc. node evening rise evening max el	7853 Jul 08 22:43 7853 Jul 09 07:28 7853 Jul 10 03:26 7853 Jul 12 14:57 7853 Jul 16 12:48 7853 Jul 28 02:13 7853 Aug 05 05:35	22°\$16'28 23°\$01'59 24°\$46'21 0°\$\Omega\$ 8°\$\Omega\$14'58 0°\$\Omega\$ 10°\$\Omega\$28'24	21°19'43
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	7852 Aug 27 04:58 7852 Sep 05 18:17 7852 Sep 09 11:05 7852 Sep 16 20:05 7852 Sep 18 06:50 7852 Sep 18 01:18 7852 Sep 22 00:20 7852 Sep 26 17:35	6°	-5°18'28 5°17'48	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set	7853 Jul 08 22:43 7853 Jul 09 07:28 7853 Jul 10 03:26 7853 Jul 12 14:57 7853 Jul 16 12:48 7853 Jul 28 02:13 7853 Aug 05 05:35 7853 Aug 14 02:03 7853 Aug 17 08:00 7853 Aug 19 18:07	22°\$16'28 23°\$01'59 24°\$46'21 0°\$\Omega\$ 8°\$\Omega\$14'58 0°\$\mathred{m}\$10°\$\mathred{m}\$28'24 16°\$\mathred{m}\$28'11 16°\$\mathred{m}\$14'38	
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	7852 Aug 27 04:58 7852 Sep 05 18:17 7852 Sep 09 11:05 7852 Sep 16 20:05 7852 Sep 18 06:50 7852 Sep 18 01:18 7852 Sep 22 00:20 7852 Sep 26 17:35 7852 Sep 29 19:22 7852 Oct 06 23:16 7852 Oct 10 22:32	6° \$\Lambda 41'44 6° \$\Lambda 11'45 2° \$\Lambda 52'17 2° \$\Lambda 02'23 2° \$\Lambda 10'21 30° \$\mathbf{n}\mathbf{p} 28° \$\mathbf{n} 13'12 27° \$\mathbf{n} 51'11 0° \$\Lambda 3° \$\Lambda 03'25	-5°18'28 5°17'48	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj	7853 Jul 08 22:43 7853 Jul 09 07:28 7853 Jul 10 03:26 7853 Jul 12 14:57 7853 Jul 16 12:48 7853 Jul 28 02:13 7853 Aug 05 05:35 7853 Aug 14 02:03 7853 Aug 17 08:00 7853 Aug 19 18:07 7853 Aug 29 00:12	22°\$16'28 23°\$01'59 24°\$46'21 0°\$A 8°\$A14'58 0°\$\$\$ 10°\$\$\$\$\$28'24 16°\$\$\$\$28'11 16°\$\$\$\$\$\$\$\$\$14'38 12°\$\$\$\$\$16'47	-4°11'05
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	7852 Aug 27 04:58 7852 Sep 05 18:17 7852 Sep 09 11:05 7852 Sep 16 20:05 7852 Sep 18 06:50 7852 Sep 18 01:18 7852 Sep 22 00:20 7852 Sep 26 17:35 7852 Sep 29 19:22 7852 Oct 06 23:16 7852 Oct 10 22:32 7852 Oct 19 05:59	6°	-5°18'28 5°17'48	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	7853 Jul 08 22:43 7853 Jul 09 07:28 7853 Jul 10 03:26 7853 Jul 12 14:57 7853 Jul 16 12:48 7853 Jul 28 02:13 7853 Aug 05 05:35 7853 Aug 14 02:03 7853 Aug 17 08:00 7853 Aug 19 18:07 7853 Aug 29 00:12 7853 Aug 28 14:44	22°\$16'28 23°\$01'59 24°\$46'21 0°\$A 8°\$A14'58 0°\$\$\$ 10°\$\$\$\$28'24 16°\$\$\$02'34 16°\$\$\$28'11 16°\$\$\$\$\$\$\$\$14'38 12°\$\$\$\$16'47 12°\$\$\$30'04	-4°11'05 4°08'34
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retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	7852 Aug 27 04:58 7852 Sep 05 18:17 7852 Sep 09 11:05 7852 Sep 16 20:05 7852 Sep 18 06:50 7852 Sep 18 01:18 7852 Sep 22 00:20 7852 Sep 26 17:35 7852 Sep 29 19:22 7852 Oct 06 23:16 7852 Oct 10 22:32 7852 Oct 19 05:59	6°	-5°18'28 5°17'48	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	7853 Jul 08 22:43 7853 Jul 09 07:28 7853 Jul 10 03:26 7853 Jul 12 14:57 7853 Jul 16 12:48 7853 Jul 28 02:13 7853 Aug 05 05:35 7853 Aug 14 02:03 7853 Aug 17 08:00 7853 Aug 19 18:07 7853 Aug 29 00:12 7853 Aug 29 05:05 7853 Sep 06 12:07	22°\$16'28 23°\$01'59 24°\$46'21 0°\$\Omega\$ 8°\$\Omega\$14'58 0°\$\Omega\$ 10°\$\Omega\$28'24 16°\$\Omega\$28'11 16°\$\Omega\$14'38 12°\$\Omega\$10'47 12°\$\Omega\$30'04 12°\$\Omega\$24'10	-4°11'05 4°08'34
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	7852 Aug 27 04:58 7852 Sep 05 18:17 7852 Sep 09 11:05 7852 Sep 16 20:05 7852 Sep 18 06:50 7852 Sep 18 01:18 7852 Sep 22 00:20 7852 Sep 26 17:35 7852 Sep 29 19:22 7852 Oct 06 23:16 7852 Oct 10 22:32 7852 Oct 19 05:59 7852 Oct 28 06:40 7852 Oct 30 05:51	6°	-5°18'28 5°17'48 20°49'01	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	7853 Jul 08 22:43 7853 Jul 09 07:28 7853 Jul 10 03:26 7853 Jul 12 14:57 7853 Jul 16 12:48 7853 Jul 28 02:13 7853 Aug 05 05:35 7853 Aug 14 02:03 7853 Aug 17 08:00 7853 Aug 19 18:07 7853 Aug 29 00:12 7853 Aug 29 05:05 7853 Sep 06 12:07 7853 Sep 10 03:58	22°\$16'28 23°\$01'59 24°\$46'21 0°\$\Omega\$ 8°\$\Omega\$14'58 0°\$\mathred{m}\$28'24 16°\$\mathred{m}\$28'11 16°\$\mathred{m}\$14'38 12°\$\mathred{m}\$16'47 12°\$\mathred{m}\$30'04 12°\$\mathred{m}\$24'10 7°\$\mathred{m}\$55'15	-4°11'05 4°08'34 0.54698 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj	7852 Aug 27 04:58 7852 Sep 05 18:17 7852 Sep 05 11:05 7852 Sep 16 20:05 7852 Sep 18 06:50 7852 Sep 18 01:18 7852 Sep 22 00:20 7852 Sep 26 17:35 7852 Sep 29 19:22 7852 Oct 06 23:16 7852 Oct 10 22:32 7852 Oct 19 05:59 7852 Oct 28 06:40 7852 Oct 30 05:51 7852 Nov 06 15:55	6° \$\overline{9} 41'44 6° \$\overline{9} 11'45 2° \$\overline{9} 62'23 2° \$\overline{9} 10'21 30° R \$\overline{10} 28' \$\overline{1} 1'12 27' \$\overline{1} 51'11 0° \$\overline{9} 3° \$\overline{9} 0'8 \overline{1} 4' \$\overline{1} 1'14 19° \$\overline{1} 25'33	-5°18'28 5°17'48 20°49'01	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	7853 Jul 08 22:43 7853 Jul 09 07:28 7853 Jul 10 03:26 7853 Jul 12 14:57 7853 Jul 16 12:48 7853 Jul 28 02:13 7853 Aug 05 05:35 7853 Aug 14 02:03 7853 Aug 17 08:00 7853 Aug 19 18:07 7853 Aug 29 00:12 7853 Aug 29 05:05 7853 Sep 06 12:07 7853 Sep 10 03:58 7853 Sep 22 19:09	22°\$16'28 23°\$01'59 24°\$46'21 0°\$\Omega\$ 8°\$\Omega\$14'58 0°\$\mathred{m}\$28'24 16°\$\mathred{m}\$28'11 16°\$\mathred{m}\$14'38 12°\$\mathred{m}\$16'47 12°\$\mathred{m}\$30'04 12°\$\mathred{m}\$24'10 7°\$\mathred{m}\$55'15 13°\$\mathred{m}\$54'46	-4°11'05 4°08'34
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	7852 Aug 27 04:58 7852 Sep 05 18:17 7852 Sep 05 11:05 7852 Sep 16 20:05 7852 Sep 18 06:50 7852 Sep 18 01:18 7852 Sep 22 00:20 7852 Sep 26 17:35 7852 Sep 26 17:35 7852 Sep 29 19:22 7852 Oct 06 23:16 7852 Oct 10 22:32 7852 Oct 19 05:59 7852 Oct 28 06:40 7852 Oct 30 05:51 7852 Nov 06 15:55 7852 Nov 06 17:15	6° \$\Lambda 41'44\\ 6° \$\Lambda 11'45\\ 2° \$\Lambda 52'17\\ 2° \$\Lambda 02'23\\ 2° \$\Lambda 10'21\\ 30° \$\mathbf{R} \mathbf{M}\\ 28° \$\mathbf{M} 13'12\\ 27° \$\mathbf{M} 51'11\\ 0° \$\Lambda \\ 3° \$\Lambda 03'25\\ 13° \$\Lambda 31'09\\ 0° \$\mathbf{M}\\ 4° \$\mathbf{M} 01'14\\ 19° \$\mathbf{M} 25'33\\ 19° \$\mathbf{M} 32'26\\	-5°18'28 5°17'48 20°49'01 1°38'17 1°38'19	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	7853 Jul 08 22:43 7853 Jul 09 07:28 7853 Jul 10 03:26 7853 Jul 12 14:57 7853 Jul 16 12:48 7853 Jul 28 02:13 7853 Aug 05 05:35 7853 Aug 14 02:03 7853 Aug 17 08:00 7853 Aug 19 18:07 7853 Aug 29 00:12 7853 Aug 29 00:12 7853 Aug 29 05:05 7853 Sep 06 12:07 7853 Sep 10 03:58 7853 Sep 22 19:09 7853 Oct 04 22:21	22°\$16'28 23°\$01'59 24°\$46'21 0°\$\Omega\$ 8°\$\Omega\$14'58 0°\$\mathred{m}\$ 10°\$\Omega\$28'24 16°\$\Omega\$28'11 16°\$\Omega\$14'38 12°\$\Omega\$10'44 12°\$\Omega\$09'56 8°\$\Omega\$24'10 7°\$\Omega\$54'46 0°\$\Omega\$	-4°11'05 4°08'34 0.54698 AU
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retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	7852 Aug 27 04:58 7852 Sep 05 18:17 7852 Sep 05 18:17 7852 Sep 09 11:05 7852 Sep 16 20:05 7852 Sep 18 06:50 7852 Sep 18 01:18 7852 Sep 20:20 7852 Sep 20:20 7852 Sep 26 17:35 7852 Sep 29 19:22 7852 Oct 06 23:16 7852 Oct 10 22:32 7852 Oct 19 05:59 7852 Oct 28 06:40 7852 Oct 30 05:51 7852 Nov 06 15:55 7852 Nov 06 17:15 7852 Nov 11 13:30 7852 Nov 11 22:48 7852 Nov 15 13:01 7852 Nov 15 13:01 7852 Nov 23 03:55 7852 Nov 29 03:18 7852 Dec 21 01:31 7852 Dec 21 10:31 7852 Dec 22 16:34 7853 Jan 09 02:42 7853 Jan 09 02:42 7853 Jan 12 06:26	6° \$\overline{9} 41'44 6° \$\overline{9} 11'45 2° \$\overline{9} 62'23 2° \$\overline{9} 10'21 30° R R P 28° \$\overline{1} 13'12 27° \$\overline{9} 51'11 0° \$\overline{9} 3° \$\overline{9} 00' R. 4° \$\overline{1} 3' \$\overline{9} 3'	-5°18'28 5°17'48 20°49'01 1°38'17 1°38'19 1.35827 AU	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	7853 Jul 08 22:43 7853 Jul 09 07:28 7853 Jul 10 03:26 7853 Jul 12 14:57 7853 Jul 16 12:48 7853 Jul 28 02:13 7853 Aug 05 05:35 7853 Aug 14 02:03 7853 Aug 17 08:00 7853 Aug 19 18:07 7853 Aug 29 00:12 7853 Aug 29 00:12 7853 Aug 29 05:05 7853 Sep 06 12:07 7853 Sep 10 03:58 7853 Sep 10 03:58 7853 Sep 22 19:09 7853 Oct 04 22:21 7853 Oct 04 22:21 7853 Oct 14 16:21 7853 Oct 19 21:59 7853 Oct 21 18:13 7853 Oct 21 18:13 7853 Oct 29 18:34 7853 Nov 03 22:22 7853 Nov 10 00:56	22°\$16'28 23°\$01'59 24°\$46'21 0°\$\Omega\$ 8°\$\Omega\$14'58 0°\$\mathred{m}\$ 10°\$\mathred{m}\$28'24 16°\$\mathred{m}\$28'11 16°\$\mathred{m}\$14'38 12°\$\mathred{m}\$16'47 12°\$\mathred{m}\$30'04 12°\$\mathred{m}\$09'56 8°\$\mathred{m}\$24'10 7°\$\mathred{m}\$55'15 13°\$\mathred{m}\$54'46 0°\$\Omega\$ 2°\$\Omega\$03'52 18°\$\Omega\$49'55 0°\$\mathred{m}\$ 3°\$\mathred{m}\$55'44 11°\$\mathred{m}\$08'42 20°\$\mathred{m}\$18'23 0°\$\nallq\$\$ 10°\$\nallq\$34'03	-4°11'05 4°08'34 0.54698 AU 22°25'34 1°41'41 1°41'46
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	7852 Aug 27 04:58 7852 Sep 05 18:17 7852 Sep 05 18:17 7852 Sep 16 20:05 7852 Sep 18 06:50 7852 Sep 18 01:18 7852 Sep 22 00:20 7852 Sep 26 17:35 7852 Sep 27 19:22 7852 Oct 06 23:16 7852 Oct 10 22:32 7852 Oct 19 05:59 7852 Oct 28 06:40 7852 Oct 30 05:51 7852 Nov 06 15:55 7852 Nov 06 17:15 7852 Nov 11 13:30 7852 Nov 11 22:48 7852 Nov 15 13:01 7852 Nov 15 13:01 7852 Nov 23 03:55 7852 Nov 29 03:18 7852 Dec 21 01:31 7852 Dec 22 16:34 7853 Jan 02 20:02 7853 Jan 09 02:42 7853 Jan 12 06:26 7853 Jan 13 07:02	6° \$\overline{9} 41'44 6° \$\overline{9} 11'45 2° \$\overline{9} 62'23 2° \$\overline{9} 10'21 30° R M 28° \$\overline{1} 13'12 27° \$\overline{9} 51'11 0° \$\overline{9} 3° \$\overline{9} 00' \overline{1} 4° \overline{1} 01'14 19° \$\overline{1} 25'33 19° \$\overline{1} 32'26 29° \$\overline{1} 14'42 0° \$\overline{8} 6° \$\overline{8} 50'02 20° \$\overline{8} 19'45 0° \$\overline{9} 28° \$\overline{5} 29'01 0° \$\overline{9} 5° \$\overline{8} 42'20 3° \$\overline{9} 09'31 30° \$\overline{5} 28° \$\overline{5} 47'25	-5°18'28 5°17'48 20°49'01 1°38'17 1°38'19 1.35827 AU 26°16'53	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	7853 Jul 08 22:43 7853 Jul 09 07:28 7853 Jul 10 03:26 7853 Jul 10 03:26 7853 Jul 12 14:57 7853 Jul 16 12:48 7853 Jul 28 02:13 7853 Aug 05 05:35 7853 Aug 14 02:03 7853 Aug 17 08:00 7853 Aug 19 18:07 7853 Aug 29 00:12 7853 Aug 29 00:12 7853 Aug 29 05:05 7853 Sep 06 12:07 7853 Sep 10 03:58 7853 Sep 10 03:58 7853 Sep 22 19:09 7853 Oct 04 22:21 7853 Oct 06 02:58 7853 Oct 14 16:21 7853 Oct 19 21:59 7853 Oct 21 18:13 7853 Oct 21 18:13 7853 Oct 29 18:34 7853 Nov 03 22:22 7853 Nov 10 00:56 7853 Nov 23 02:36	22°\$16'28 23°\$01'59 24°\$46'21 0°\$\alpha\$ 8°\$\alpha\$14'58 0°\$\text{m}\$ 10°\$\text{m}\$28'24 16°\$\text{m}\$02'34 16°\$\text{m}\$28'11 16°\$\text{m}\$16'47 12°\$\text{m}\$30'04 12°\$\text{m}\$09'56 8°\$\text{m}\$24'10 7°\$\text{m}\$55'15 13°\$\text{m}\$54'46 0°\$\text{n}\$ 2°\$\text{n}\$03'52 18°\$\text{n}\$49'55 0°\$\text{m}\$ 3°\$\text{m}\$55'44 11°\$\text{m}\$08'42 20°\$\text{m}\$18'23 0°\$\text{s}\$ 10°\$\text{s}\$34'03 0°\$\text{s}\$	-4°11'05 4°08'34 0.54698 AU 22°25'34 1°41'41 1°41'46 1.34145 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	7852 Aug 27 04:58 7852 Sep 05 18:17 7852 Sep 05 18:17 7852 Sep 16 20:05 7852 Sep 18 06:50 7852 Sep 18 01:18 7852 Sep 22 00:20 7852 Sep 26 17:35 7852 Sep 27 19:22 7852 Oct 06 23:16 7852 Oct 10 22:32 7852 Oct 19 05:59 7852 Oct 28 06:40 7852 Oct 30 05:51 7852 Nov 06 15:55 7852 Nov 06 17:15 7852 Nov 11 13:30 7852 Nov 11 22:48 7852 Nov 15 13:01 7852 Nov 15 13:01 7852 Nov 23 03:55 7852 Nov 29 03:18 7852 Dec 21 01:31 7852 Dec 22 16:34 7853 Jan 02 20:02 7853 Jan 12 06:26 7853 Jan 13 07:02 7853 Jan 14 22:25	6° \$\times 41'44 6° \$\times 11'45 2° \$\times 52'17 2° \$\times 02'23 2° \$\times 10'21 30° R M 28° \$\times 13'12 27° \$\times 51'11 0° \$\times 3° \$\times 03'25 13° \$\times 31'09 0° M 4° \$\times 01'14 19° \$\times 25'33 19° \$\times 23'26 29° \$\times 14'42 0° \$\times 6° \$\times 50'02 20° \$\times 19'45 0° \$\times 28° \$\times 29'01 0° \$\times 5° \$\times 42'20 3° \$\times 09'31 30° R \$\times 28° \$\times 44'25 26° \$\times 46'57	-5°18'28 5°17'48 20°49'01 1°38'17 1°38'19 1.35827 AU 26°16'53 0.66650 AU -0°05'46	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	7853 Jul 08 22:43 7853 Jul 09 07:28 7853 Jul 10 03:26 7853 Jul 10 03:26 7853 Jul 12 14:57 7853 Jul 16 12:48 7853 Jul 28 02:13 7853 Aug 05 05:35 7853 Aug 14 02:03 7853 Aug 17 08:00 7853 Aug 19 18:07 7853 Aug 29 00:12 7853 Aug 29 00:12 7853 Aug 29 05:05 7853 Sep 06 12:07 7853 Sep 10 03:58 7853 Sep 10 03:58 7853 Sep 22 19:09 7853 Oct 04 22:21 7853 Oct 04 22:21 7853 Oct 14 16:21 7853 Oct 19 21:59 7853 Oct 21 18:13 7853 Oct 21 18:13 7853 Oct 21 18:13 7853 Oct 25 04:58 7853 Oct 29 18:34 7853 Nov 03 22:22 7853 Nov 10 00:56 7853 Nov 23 02:36 7853 Dec 03 14:29	22°\$16'28 23°\$01'59 24°\$46'21 0°\$\alpha\$ 8°\$\alpha\$14'58 0°\$\text{m}\$ 10°\$\text{m}\$28'24 16°\$\text{m}\$02'34 16°\$\text{m}\$28'11 16°\$\text{m}\$16'47 12°\$\text{m}\$30'04 12°\$\text{m}\$09'56 8°\$\text{m}\$24'10 7°\$\text{m}\$55'15 13°\$\text{m}\$54'46 0°\$\text{n}\$ 2°\$\text{n}\$03'52 18°\$\text{n}\$49'55 0°\$\text{m}\$ 3°\$\text{m}\$55'44 11°\$\text{m}\$08'42 20°\$\text{m}\$18'23 0°\$\text{s}\$ 10°\$\text{s}\$34'03 0°\$\text{s}\$ 12°\$\text{0}\$05'12	-4°11'05 4°08'34 0.54698 AU 22°25'34 1°41'41 1°41'46 1.34145 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	7852 Aug 27 04:58 7852 Sep 05 18:17 7852 Sep 05 18:17 7852 Sep 16 20:05 7852 Sep 18 06:50 7852 Sep 18 01:18 7852 Sep 22 00:20 7852 Sep 26 17:35 7852 Sep 27 19:22 7852 Oct 06 23:16 7852 Oct 10 22:32 7852 Oct 19 05:59 7852 Oct 28 06:40 7852 Oct 30 05:51 7852 Nov 06 15:55 7852 Nov 06 17:15 7852 Nov 11 13:30 7852 Nov 11 22:48 7852 Nov 15 13:01 7852 Nov 15 13:01 7852 Nov 23 03:55 7852 Nov 29 03:18 7852 Dec 21 01:31 7852 Dec 22 16:34 7853 Jan 02 20:02 7853 Jan 09 02:42 7853 Jan 12 06:26 7853 Jan 13 07:02	6° \$\overline{9} 41'44 6° \$\overline{9} 11'45 2° \$\overline{9} 62'23 2° \$\overline{9} 10'21 30° R M 28° \$\overline{1} 13'12 27° \$\overline{9} 51'11 0° \$\overline{9} 3° \$\overline{9} 00' \overline{1} 4° \overline{1} 01'14 19° \$\overline{1} 25'33 19° \$\overline{1} 32'26 29° \$\overline{1} 14'42 0° \$\overline{8} 6° \$\overline{8} 50'02 20° \$\overline{8} 19'45 0° \$\overline{9} 28° \$\overline{5} 29'01 0° \$\overline{9} 5° \$\overline{8} 42'20 3° \$\overline{9} 09'31 30° \$\overline{5} 28° \$\overline{5} 47'25	-5°18'28 5°17'48 20°49'01 1°38'17 1°38'19 1.35827 AU 26°16'53 0.66650 AU -0°05'46 0°05'34	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	7853 Jul 08 22:43 7853 Jul 09 07:28 7853 Jul 10 03:26 7853 Jul 10 03:26 7853 Jul 12 14:57 7853 Jul 16 12:48 7853 Jul 28 02:13 7853 Aug 05 05:35 7853 Aug 14 02:03 7853 Aug 17 08:00 7853 Aug 19 18:07 7853 Aug 29 00:12 7853 Aug 29 00:12 7853 Aug 29 05:05 7853 Sep 06 12:07 7853 Sep 10 03:58 7853 Sep 10 03:58 7853 Sep 22 19:09 7853 Oct 04 22:21 7853 Oct 06 02:58 7853 Oct 14 16:21 7853 Oct 19 21:59 7853 Oct 21 18:13 7853 Oct 21 18:13 7853 Oct 29 18:34 7853 Nov 03 22:22 7853 Nov 10 00:56 7853 Nov 23 02:36	22°\$16'28 23°\$01'59 24°\$46'21 0°\$\alpha\$ 8°\$\alpha\$14'58 0°\$\text{m}\$ 10°\$\text{m}\$28'24 16°\$\text{m}\$02'34 16°\$\text{m}\$28'11 16°\$\text{m}\$16'47 12°\$\text{m}\$30'04 12°\$\text{m}\$09'56 8°\$\text{m}\$24'10 7°\$\text{m}\$55'15 13°\$\text{m}\$54'46 0°\$\text{n}\$ 2°\$\text{n}\$03'52 18°\$\text{n}\$49'55 0°\$\text{m}\$ 3°\$\text{m}\$55'44 11°\$\text{m}\$08'42 20°\$\text{m}\$18'23 0°\$\text{s}\$ 10°\$\text{s}\$34'03 0°\$\text{s}\$	-4°11'05 4°08'34 0.54698 AU 22°25'34 1°41'41 1°41'46 1.34145 AU

min. Earth dist.	7853 Dec 27 14:26	13° る 00'40	0.65335 AU	evening set	7854 Dec 06 19:15	0° る 07'12	
inferior conj	7853 Dec 29 17:27	10° る 36'50		8	7854 Dec 06 23:11	30°R. ✓	
minimum elong	7853 Dec 29 19:27	10° る 31'11	1°07'02	min. Earth dist.	7854 Dec 10 13:10	26° ₹ 51'05	0.63697 AU
asc. node	7854 Jan 02 02:20	7° る 05'40		inferior conj	7854 Dec 13 03:30	24° ∡ 12'15	-2°15'15
morning rise	7854 Jan 05 00:13	5° る 02'52		minimum elong	7854 Dec 13 07:42	24° ∡ 01'30	2°13'27
direct	7854 Jan 07 16:56	4° る 23'49		morning rise	7854 Dec 19 21:55	18° ∡ 53′22	
morning max el	7854 Jan 14 03:35	7° る 49'04	18°04'50	asc. node	7854 Dec 19 23:23	18° ∡ ′51′58	
	7854 Jan 29 09:48	0° ≈		direct	7854 Dec 22 07:56	18° ∡ ¹24'42	
morning set	7854 Feb 01 09:02	4° ≈ 51'59		morning max el	7854 Dec 28 20:49	21° ∡ ⁴48'24	17°49'14
desc. node	7854 Feb 06 00:17	12° ≈ 26′17			7855 Jan 04 04:32	0°ප	
				morning set	7855 Jan 14 09:41	17° る 01'59	
superior conj	7854 Feb 15 23:20	28° ≈ 23'37			7855 Jan 22 00:35	0° ≈	
minimum elong	7854 Feb 15 15:32		1°06'24	desc. node	7855 Jan 23 21:14	3° ≈ 06'14	
	7854 Feb 16 23:46	0° ∀					
max. Earth dist.	7854 Feb 19 00:28	3°) 11′33	1.45356 AU	superior conj	7855 Jan 27 00:13	8° ≈ 15′02	
evening rise	7854 Mar 04 03:58	23°) 38′52		minimum elong	7855 Jan 26 21:45	8° ≈ 04'56	0°22'00
	7854 Mar 08 06:38	0° Υ		max. Earth dist.	7855 Feb 01 18:52	17° ≈ 33'57	1.44553 AU
greatest brilliancy	7854 Mar 17 07:13	13° Y 45'30	-0.7m		7855 Feb 09 17:20	0° ∀	
evening max el	7854 Mar 29 02:08	29° Y ′23′50	19°34'53	evening rise	7855 Feb 11 15:13	2°) 56'42	
	7854 Mar 29 16:45	0° 8			7855 Mar 01 19:47	0° Υ	
asc. node	7854 Mar 31 01:21	1° 8 12'37		evening max el	7855 Mar 12 03:50	13° Y ′02'02	20°36'26
retrograde	7854 Apr 05 08:52	3° 8 33'43		asc. node	7855 Mar 17 22:26	17° Y 19'19	
evening set	7854 Apr 08 24:00	2° 8 16'42		retrograde	7855 Mar 20 07:20	17° Y ′48′10	
	7854 Apr 11 11:29	30° ₹ Υ		evening set	7855 Mar 24 07:35	16° Y 16′02	
inferior conj	7854 Apr 14 09:47	26° Y °21′23	3°20'05	inferior conj	7855 Mar 29 15:15	10° Y ′07'51	3°03'46
minimum elong	7854 Apr 14 08:47	26° Y ′24'40	3°19'57	minimum elong	7855 Mar 29 13:26	10° Y 14'05	3°03'26
min. Earth dist.	7854 Apr 15 14:17	24° ℃ 47'11	0.66972 AU	min. Earth dist.	7855 Mar 30 05:52	9° Υ 17'43	0.67861 AU
morning rise	7854 Apr 19 17:15	20°Υ03'55		morning rise	7855 Apr 03 19:05	3°Υ52'34	
direct	7854 Apr 25 19:02	17° Υ 21'43		direct	7855 Apr 09 07:57	1° Υ 24'43	2 1000110
desc. node	7854 May 04 23:56	21° Υ 49'59	25026101	morning max el	7855 Apr 20 10:22	8° Υ '03'02	24°09'49
morning max el	7854 May 08 01:31	24° Ƴ 42'41	25°36'01	desc. node	7855 Apr 21 20:54	9° Υ 33'15	
	7854 May 12 20:00	0°B 0°B		mamina sat	7855 May 07 14:38	0° 8	
	7854 Jun 02 19:45 7854 Jun 13 04:41	0°Щ 17° Щ 51'04		morning set	7855 May 26 02:16	29° ႘ 23'29 0° Ⅱ	
morning set max. Earth dist.	7854 Jun 16 21:48	1/°Щ3104 24°Щ44'53	1.35950 AU	max. Earth dist.	7855 May 26 10:42		1.38068 AU
max. Earm dist.	7854 Jun 19 15:24	24 п 44 33 0° ©	1.33930 AU	max. Earth dist.	7855 May 29 18:50	э щээ 10	1.36006 AU
	7654 Juli 19 15.24	0 39		superior conj	7855 Jun 05 22:36	19° Ⅱ 08'29	-1°13'03
superior conj	7854 Jun 22 18:31	6° © 11'03	-0°41'37	minimum elong	7855 Jun 06 03:03	19° ∏ 29'42	1°12'28
minimum elong	7854 Jun 22 20:59	6°9523'24		minimum clong	7855 Jun 11 12:30	0° 9 5	1 12 28
asc. node	7854 Jun 27 00:26	14°9548'12	0 41 17	asc. node	7855 Jun 13 21:29	4° 9 341'31	
evening rise	703 1 Juli 27 00.20	11 0 10 12		asc. node			
evening rise	7854 Jun 30 19:08	22°932'51		evening rise			
	7854 Jun 30 19:08	22°\$32'51 0°Ω		evening rise	7855 Jun 14 19:11	6° © 28'38	
evening max el	7854 Jul 04 12:23	$0^{\circ}\Omega$	20°01'12		7855 Jun 14 19:11 7855 Jun 28 09:26	6°\$28'38 0° Ω	19°02'41
evening max el	7854 Jul 04 12:23 7854 Jul 18 11:54	0° Ω 21° Ω 30'52	20°01'12	evening max el	7855 Jun 14 19:11 7855 Jun 28 09:26 7855 Jul 01 06:54	6°€28'38 0°Ω 3°Ω17'06	19°02'41
retrograde	7854 Jul 04 12:23 7854 Jul 18 11:54 7854 Jul 28 22:09	0°Ω 21°Ω30'52 26°Ω39'06	20°01'12	evening max el retrograde	7855 Jun 14 19:11 7855 Jun 28 09:26 7855 Jul 01 06:54 7855 Jul 10 01:22	6°\$28'38 0°\$A 3°\$A17'06 7°\$A36'59	19°02'41
•	7854 Jul 04 12:23 7854 Jul 18 11:54 7854 Jul 28 22:09 7854 Jul 30 19:30	0° Ω 21° Ω 30'52	20°01'12	evening max el	7855 Jun 14 19:11 7855 Jun 28 09:26 7855 Jul 01 06:54	6°€28'38 0°Ω 3°Ω17'06	19°02'41
retrograde evening set desc. node	7854 Jul 04 12:23 7854 Jul 18 11:54 7854 Jul 28 22:09 7854 Jul 30 19:30 7854 Jul 31 23:07	0°N 21°N30'52 26°N39'06 26°N29'44 26°N15'17		evening max el retrograde evening set desc. node	7855 Jun 14 19:11 7855 Jun 28 09:26 7855 Jul 01 06:54 7855 Jul 10 01:22 7855 Jul 11 23:59 7855 Jul 18 20:12	6°\$28'38 0°\$A 3°\$117'06 7°\$\Omega36'59 7°\$\Omega25'06 4°\$\Omega11'31	
retrograde evening set desc. node inferior conj	7854 Jul 04 12:23 7854 Jul 18 11:54 7854 Jul 28 22:09 7854 Jul 30 19:30 7854 Jul 31 23:07 7854 Aug 08 20:17	0°N 21°N30'52 26°N39'06 26°N29'44 26°N15'17 22°N30'20		evening max el retrograde evening set desc. node inferior conj	7855 Jun 14 19:11 7855 Jun 28 09:26 7855 Jul 01 06:54 7855 Jul 10 01:22 7855 Jul 11 23:59	6°\$28'38 0°\$1 3°\$17'06 7°\$136'59 7°\$125'06	
retrograde evening set desc. node	7854 Jul 04 12:23 7854 Jul 18 11:54 7854 Jul 28 22:09 7854 Jul 30 19:30 7854 Jul 31 23:07	0°N 21°N30'52 26°N39'06 26°N29'44 26°N15'17 22°N30'20	-2°22'59	evening max el retrograde evening set desc. node	7855 Jun 14 19:11 7855 Jun 28 09:26 7855 Jul 01 06:54 7855 Jul 10 01:22 7855 Jul 11 23:59 7855 Jul 18 20:12 7855 Jul 20 07:50	6°\$28'38 0°\$\Omega\$17'06 7°\$\Omega\$6'59 7°\$\Omega\$25'06 4°\$\Omega\$11'31 3°\$\Omega\$11'03	-0°27'03 0°26'44
retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	7854 Jul 04 12:23 7854 Jul 18 11:54 7854 Jul 28 22:09 7854 Jul 30 19:30 7854 Jul 31 23:07 7854 Aug 08 20:17 7854 Aug 08 13:43 7854 Aug 10 16:17	0° N 21° N 30'52 26° N 39'06 26° N 29'44 26° N 15'17 22° N 30'20 22° N 40'11	-2°22'59 2°20'39	evening max el retrograde evening set desc. node inferior conj minimum elong	7855 Jun 14 19:11 7855 Jun 28 09:26 7855 Jul 01 06:54 7855 Jul 10 01:22 7855 Jul 11 23:59 7855 Jul 18 20:12 7855 Jul 20 07:50 7855 Jul 20 06:41	6°\$28'38 0°\$\Omega\$ 3°\$\Omega\$17'06 7°\$\Omega\$36'59 7°\$\Omega\$25'06 4°\$\Omega\$11'31 3°\$\Omega\$11'03 3°\$\Omega\$13'03	-0°27'03 0°26'44
retrograde evening set desc. node inferior conj minimum elong	7854 Jul 04 12:23 7854 Jul 18 11:54 7854 Jul 28 22:09 7854 Jul 30 19:30 7854 Jul 31 23:07 7854 Aug 08 20:17 7854 Aug 08 13:43 7854 Aug 10 16:17 7854 Aug 17 06:21	0° N 21° N 30'52 26° N 39'06 26° N 29'44 26° N 15'17 22° N 30'20 22° N 40'11 21° N 24'16	-2°22'59 2°20'39	evening max el retrograde evening set desc. node inferior conj minimum elong	7855 Jun 14 19:11 7855 Jun 28 09:26 7855 Jul 01 06:54 7855 Jul 10 01:22 7855 Jul 11 23:59 7855 Jul 18 20:12 7855 Jul 20 07:50 7855 Jul 20 06:41 7855 Jul 23 06:36	6°\$28'38 0°\$\Omega\$3\cdot \text{17'06} 7°\$\Omega\$36'59 7°\$\Omega\$25'06 4°\$\Omega\$11'03 3°\$\Omega\$13'03 1°\$\Omega\$09'39	-0°27'03 0°26'44
retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	7854 Jul 04 12:23 7854 Jul 18 11:54 7854 Jul 28 22:09 7854 Jul 30 19:30 7854 Jul 31 23:07 7854 Aug 08 20:17 7854 Aug 08 13:43 7854 Aug 10 16:17 7854 Aug 17 06:21 7854 Aug 21 16:10	0° N 21° N 30'52 26° N 39'06 26° N 29'44 26° N 15'17 22° N 30'20 22° N 40'11 21° N 24'16 18° N 14'11	-2°22'59 2°20'39 0.55095 AU	evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	7855 Jun 14 19:11 7855 Jun 28 09:26 7855 Jul 01 06:54 7855 Jul 10 01:22 7855 Jul 11 23:59 7855 Jul 18 20:12 7855 Jul 20 06:41 7855 Jul 23 06:36 7855 Jul 25 02:37	6°\$28'38 0°\$\Omega\$3'\Omega\$17'06 7°\$\Omega\$36'59 7°\$\Omega\$25'06 4°\$\Omega\$11'03 3°\$\Omega\$13'03 1°\$\Omega\$09'39 30°\$\Sigma\$\$	-0°27'03 0°26'44
retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	7854 Jul 04 12:23 7854 Jul 18 11:54 7854 Jul 28 22:09 7854 Jul 30 19:30 7854 Jul 31 23:07 7854 Aug 08 20:17 7854 Aug 08 13:43 7854 Aug 10 16:17 7854 Aug 17 06:21	0° R 21° R30'52 26° R39'06 26° R29'44 26° R15'17 22° R30'20 22° R40'11 21° R24'16 18° R14'11 17° R31'43	-2°22'59 2°20'39 0.55095 AU	evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	7855 Jun 14 19:11 7855 Jun 28 09:26 7855 Jul 01 06:54 7855 Jul 10 01:22 7855 Jul 11 23:59 7855 Jul 18 20:12 7855 Jul 20 07:50 7855 Jul 20 06:41 7855 Jul 23 06:36 7855 Jul 25 02:37 7855 Jul 28 10:14 7855 Aug 02 16:34	6°\$28'38 0°\$\Omega\$ 3°\$\Omega\$17'06 7°\$\Omega\$6'59 7°\$\Omega\$25'06 4°\$\Omega\$11'31 3°\$\Omega\$13'03 1°\$\Omega\$09'39 30°\$\Omega\$28°\$\Sign\$19'16	-0°27'03 0°26'44
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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	7854 Jul 04 12:23 7854 Jul 18 11:54 7854 Jul 28 22:09 7854 Jul 30 19:30 7854 Jul 31 23:07 7854 Aug 08 20:17 7854 Aug 08 13:43 7854 Aug 10 16:17 7854 Aug 17 06:21 7854 Aug 21 16:10 7854 Sep 04 08:36 7854 Sep 09 14:47 7854 Sep 22 23:56 7854 Sep 27 10:09 7854 Sep 29 04:05 7854 Oct 06 00:46 7854 Oct 08 04:59 7854 Oct 11 09:19 7854 Oct 13 11:35	0° R 21° R30'52 26° R39'06 26° R29'44 26° R15'17 22° R30'20 22° R40'11 21° R24'16 18° R14'11 17° R31'43 24° R15'32 0° m 21° m09'37 0° \(\oldsymbol{n}\) 3° \(\oldsymbol{n}\) 4° R33'56 23° \(\oldsymbol{n}\) 16' M 4° M17'54	-2°22'59 2°20'39 0.55095 AU 24°11'02 1°38'37 1°38'36	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	7855 Jun 14 19:11 7855 Jun 28 09:26 7855 Jul 01 06:54 7855 Jul 10 01:22 7855 Jul 11 23:59 7855 Jul 18 20:12 7855 Jul 20 07:50 7855 Jul 20 06:41 7855 Jul 23 06:36 7855 Jul 25 02:37 7855 Jul 25 02:37 7855 Jul 26 10:14 7855 Aug 02 16:34 7855 Aug 11 05:17 7855 Aug 16 21:51 7855 Sep 04 06:18 7855 Sep 04 06:18 7855 Sep 13 15:20 7855 Sep 18 22:31 7855 Sep 20 12:35 7855 Sep 20 10:42 7855 Sep 21 11:47	6°\$28'38 0°\$\Omega\$17'06 7°\$\Omega\$17'06 7°\$\Omega\$25'06 4°\$\Omega\$11'31 3°\$\Omega\$13'03 1°\$\Omega\$09'39 30°\$\S\$\$28°\$\S\$\$19'16 27°\$\S\$\$14'19 0°\$\Omega\$4*\Omega\$23'19 0°\$\Omega\$18*\Omega\$27'10 0°\$\Omega\$30'23 3°\$\Omega\$30'23 3°\$\Omega\$31'58 5°\$\Omega\$38'16	-0°27'03 0°26'44 0.56384 AU 25°50'13 1°29'47 1°29'36
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	7854 Jul 04 12:23 7854 Jul 18 11:54 7854 Jul 28 22:09 7854 Jul 30 19:30 7854 Jul 31 23:07 7854 Aug 08 20:17 7854 Aug 08 13:43 7854 Aug 10 16:17 7854 Aug 17 06:21 7854 Aug 21 16:10 7854 Sep 04 08:36 7854 Sep 09 14:47 7854 Sep 22 23:56 7854 Sep 27 10:09 7854 Sep 29 04:05 7854 Oct 06 01:53 7854 Oct 06 00:46 7854 Oct 10 09:19 7854 Oct 11 09:19 7854 Oct 13 11:35 7854 Oct 27 22:00	0° \$\mathcal{O}\$ 21° \$\mathcal{Q}\$30'52 26° \$\mathcal{Q}\$39'06 26° \$\mathcal{Q}\$29'44 26° \$\mathcal{Q}\$15'17 22° \$\mathcal{Q}\$30'20 22° \$\mathcal{Q}\$40'11 21° \$\mathcal{Q}\$24'16 18° \$\mathcal{Q}\$14'11 17° \$\mathcal{Q}\$31'43 24° \$\mathcal{Q}\$15'32 0° \$\mathcal{Q}\$ 0° \$\mathcal{Q}\$ 21° \$\mathcal{Q}\$09'37 0° \$\mathcal{Q}\$ 3° \$\mathcal{Q}\$40'29 18° \$\mathcal{Q}\$39'58 18° \$\mathcal{Q}\$33'56 23° \$\mathcal{Q}\$16'18 0° \$\mathcal{Q}\$ 4° \$\mathcal{Q}\$17'54 0° \$\mathcal{Q}\$26'30 0° \$\mathcal{Q}\$ 25° \$\mathcal{Q}\$21'39	-2°22'59 2°20'39 0.55095 AU 24°11'02 1°38'37 1°38'36 1.32889 AU	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	7855 Jun 14 19:11 7855 Jun 28 09:26 7855 Jul 01 06:54 7855 Jul 10 01:22 7855 Jul 11 23:59 7855 Jul 18 20:12 7855 Jul 20 07:50 7855 Jul 20 06:41 7855 Jul 25 02:37 7855 Jul 25 02:37 7855 Jul 26:34 7855 Aug 02 16:34 7855 Aug 11 05:17 7855 Aug 16 21:51 7855 Sep 04 06:18 7855 Sep 09 20:56 7855 Sep 13 15:20 7855 Sep 18 22:31 7855 Sep 20 12:35 7855 Sep 20 10:42 7855 Sep 21 11:47 7855 Sep 27 12:48	6°\$28'38 0°\$\mathcal{O}\$ 3°\$\mathcal{O}\$17'06 7°\$\mathcal{Q}\$36'59 7°\$\mathcal{Q}\$25'06 4°\$\mathcal{O}\$11'31 3°\$\mathcal{O}\$13'03 1°\$\mathcal{O}\$9'39 30°\$\mathcal{O}\$\$28'\sigma\$19'16 27'\sigma\$14'19 0°\$\mathcal{O}\$\$4'\$\mathcal{O}\$32'19 0°\$\mathcal{O}\$\$10 \text{ m}\$\$27'10 0°\$\mathcal{O}\$\$\sigma\$30'23 3°\$\mathcal{O}\$\$38'16 18°\$\mathcal{O}\$38'41	-0°27'03 0°26'44 0.56384 AU 25°50'13 1°29'47 1°29'36
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	7854 Jul 04 12:23 7854 Jul 18 11:54 7854 Jul 28 22:09 7854 Jul 30 19:30 7854 Jul 31 23:07 7854 Aug 08 20:17 7854 Aug 08 13:43 7854 Aug 10 16:17 7854 Aug 17 06:21 7854 Aug 21 16:10 7854 Sep 04 08:36 7854 Sep 09 14:47 7854 Sep 22 23:56 7854 Sep 27 10:09 7854 Sep 29 04:05 7854 Oct 06 00:46 7854 Oct 06 00:46 7854 Oct 11 09:19 7854 Oct 13 11:35 7854 Oct 27 22:00 7854 Oct 27 15:23	0° \$\mathcal{O}\$ 21° \$\mathcal{Q}\$30'52 26° \$\mathcal{Q}\$39'06 26° \$\mathcal{Q}\$29'44 26° \$\mathcal{Q}\$15'17 22° \$\mathcal{Q}\$30'20 22° \$\mathcal{Q}\$40'11 21° \$\mathcal{Q}\$24'16 18° \$\mathcal{Q}\$14'11 17° \$\mathcal{Q}\$31'43 24° \$\mathcal{Q}\$15'32 0° \$\mathcal{Q}\$ 0° \$\mathcal{Q}\$ 21° \$\mathcal{Q}\$09'37 0° \$\mathcal{Q}\$ 3° \$\mathcal{Q}\$40'29 18° \$\mathcal{Q}\$39'58 18° \$\mathcal{Q}\$39'58 18° \$\mathcal{Q}\$33'56 23° \$\mathcal{Q}\$16'18 0° \$\mathcal{Q}\$ 4° \$\mathcal{Q}\$17'54 0° \$\mathcal{Z}\$26'30 0° \$\mathcal{Z}\$ 25° \$\mathcal{Q}\$21'39 0° \$\mathcal{Z}\$	-2°22'59 2°20'39 0.55095 AU 24°11'02 1°38'37 1°38'36 1.32889 AU	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	7855 Jun 14 19:11 7855 Jun 28 09:26 7855 Jul 01 06:54 7855 Jul 10 01:22 7855 Jul 11 23:59 7855 Jul 18 20:12 7855 Jul 20 07:50 7855 Jul 20 06:41 7855 Jul 23 06:36 7855 Jul 25 02:37 7855 Jul 28 10:14 7855 Aug 02 16:34 7855 Aug 10 21:51 7855 Aug 16 21:51 7855 Sep 04 06:18 7855 Sep 09 20:56 7855 Sep 13 15:20 7855 Sep 18 22:31 7855 Sep 20 10:42 7855 Sep 21 11:47 7855 Sep 27 12:48 7855 Oct 03 05:17	6°\$28'38 0°\$\mathcal{O}\$\text{0}\$ 3°\$\mathcal{Q}\$17'06 7°\$\mathcal{Q}\$36'59 7°\$\mathcal{Q}\$25'06 4°\$\mathcal{Q}\$11'31 3°\$\mathcal{Q}\$13'03 1°\$\mathcal{Q}\$09'39 30°\$\mathcal{Q}\$28'\sigma 19'16 27'\sigma 14'19 0°\$\mathcal{Q}\$4'\$\mathcal{Q}\$32'19 0°\$\mathcal{W}\$10'\mathcal{W}\$39'03 18'\$\mathcal{Q}\$27'10 0°\$\mathcal{Q}\$3'\mathcal{Q}\$31'9'58 5°\$\mathcal{Q}\$38'41 0°\$\mathcal{W}\$1.	-0°27'03 0°26'44 0.56384 AU 25°50'13 1°29'47 1°29'36
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	7854 Jul 04 12:23 7854 Jul 18 11:54 7854 Jul 28 22:09 7854 Jul 30 19:30 7854 Jul 31 23:07 7854 Aug 08 20:17 7854 Aug 08 13:43 7854 Aug 10 16:17 7854 Aug 17 06:21 7854 Aug 21 16:10 7854 Sep 04 08:36 7854 Sep 09 14:47 7854 Sep 22 23:56 7854 Sep 27 10:09 7854 Sep 29 04:05 7854 Oct 06 00:46 7854 Oct 06 00:46 7854 Oct 11 09:19 7854 Oct 13 11:35 7854 Oct 27 22:00 7854 Oct 27 15:23 7854 Nov 16 02:27	0° \$\mathcal{O}\$ 21° \$\mathcal{Q}\$30'52 26° \$\mathcal{Q}\$39'06 26° \$\mathcal{Q}\$29'44 26° \$\mathcal{Q}\$15'17 22° \$\mathcal{Q}\$30'20 22° \$\mathcal{Q}\$40'11 21° \$\mathcal{Q}\$24'16 18° \$\mathcal{Q}\$14'11 17° \$\mathcal{Q}\$31'43 24° \$\mathcal{Q}\$15'32 0° \$\mathcal{Q}\$ 0° \$\mathcal{Q}\$ 21° \$\mathcal{Q}\$09'37 0° \$\mathcal{Q}\$ 3° \$\mathcal{Q}\$40'29 18° \$\mathcal{Q}\$39'58 18° \$\mathcal{Q}\$33'56 23° \$\mathcal{Q}\$16'18 0° \$\mathcal{Q}\$ 4° \$\mathcal{Q}\$17'54 0° \$\mathcal{Q}\$26'30 0° \$\mathcal{Q}\$ 25° \$\mathcal{Q}\$21'39	-2°22'59 2°20'39 0.55095 AU 24°11'02 1°38'37 1°38'36 1.32889 AU	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	7855 Jun 14 19:11 7855 Jun 28 09:26 7855 Jul 01 06:54 7855 Jul 10 01:22 7855 Jul 11 23:59 7855 Jul 18 20:12 7855 Jul 20 07:50 7855 Jul 20 06:41 7855 Jul 23 06:36 7855 Jul 25 02:37 7855 Jul 28 10:14 7855 Aug 02 16:34 7855 Aug 11 05:17 7855 Aug 16 21:51 7855 Sep 04 06:18 7855 Sep 09 20:56 7855 Sep 13 15:20 7855 Sep 13 15:20 7855 Sep 20 10:42 7855 Sep 21 11:47 7855 Sep 27 12:48 7855 Oct 03 05:17 7855 Oct 14 19:06	6°\$28'38 0°\$\Omega\$17'06 7°\$\Omega\$17'06 7°\$\Omega\$11'03 3°\$\Omega\$11'03 3°\$\Omega\$13'03 1°\$\Omega\$19'16 27°\$\Omega\$14'19 0°\$\Omega\$14'19 0°\$\Omega\$19'03 18°\$\Omega\$27'10 0°\$\Omega\$39'03 18°\$\Omega\$27'10 0°\$\Omega\$39'16 18°\$\Omega\$38'16 18°\$\Omega\$38'41 0°\$\Omega\$19'58 5°\$\Omega\$38'41 0°\$\Omega\$19'54	-0°27'03 0°26'44 0.56384 AU 25°50'13 1°29'47 1°29'36 1.32076 AU

ratragrada	7855 Nov 12 06:54	15° ∡ 17'19		evening set	7856 Oct 31 05:44	25°M13'23	
retrograde evening set	7855 Nov 19 09:17	13 x 17 19 12° x 57'53		min. Earth dist.	7856 Nov 04 02:54	23 IL 13 23 22°IL 37'56	0.59710 AU
min. Earth dist.	7855 Nov 23 01:29	12 x 37 33 10° x 07'52	0.61785 AU	inferior conj	7856 Nov 07 07:52	20°M06'06	
inferior conj	7855 Nov 26 01:29	7°×725'14		minimum elong	7856 Nov 07 07:32 7856 Nov 07 15:02		4°26'47
minimum elong	7855 Nov 26 07:46	7° × 10'59		morning rise	7856 Nov 15 02:39	15°M27'41	7 20 77
morning rise	7855 Dec 03 08:23	2° ₹ 1039	3 22 00	direct	7856 Nov 17 08:23	15°M09'26	
direct	7855 Dec 05 06:25	2°×703'02		asc. node	7856 Nov 22 17:27	17°M00'53	
asc. node	7855 Dec 06 20:25	2°×709'56		morning max el	7856 Nov 25 00:38	18°M55'56	18°13'36
morning max el	7855 Dec 12 12:59	5° × ⁷ 33'43	17°51'44	morning max or	7856 Dec 03 02:25	0° ₹	10 13 30
morning set	7855 Dec 28 07:05	0° ට 11'11	-,	morning set	7856 Dec 10 19:09	14° ₹ '01'06	
	7855 Dec 28 04:37	0°ප			7856 Dec 19 08:18	0°る	
superior conj	7856 Jan 08 02:45	19° る 20'53	0°19'21	superior conj	7856 Dec 20 05:24	1° る 35'54	0°53'07
minimum elong	7856 Jan 08 04:28	19° ට 28'16	0°19'14	minimum elong	7856 Dec 20 08:48	1° る 51'14	0°52'47
desc. node	7856 Jan 10 18:14	23° る 50'48		desc. node	7856 Dec 27 15:14	14° る 36'07	
	7856 Jan 14 11:00	0° ≈		max. Earth dist.	7856 Dec 27 20:32	14°る58'35	1.41215 AU
max. Earth dist.	7856 Jan 15 10:14	1° ≈ 35'06	1.43118 AU	evening rise	7857 Jan 01 16:17	22° る 59'20	
evening rise	7856 Jan 22 07:15	12° ≈ 34'13			7857 Jan 06 01:29	0° ≈	
	7856 Feb 02 18:54	0° ∀			7857 Jan 26 19:26	0°) €	
evening max el	7856 Feb 23 00:09	26°) 41′37	21°49'06	evening max el	7857 Feb 04 16:03	10°) €22'53	23°08'10
	7856 Feb 26 18:23	$0^{\circ}\mathbf{\Upsilon}$		retrograde	7857 Feb 15 00:18	16° ∺ 30'35	
retrograde	7856 Mar 03 04:59	2° Y 08'45		asc. node	7857 Feb 18 16:37	15° ¥ 23′06	
asc. node	7856 Mar 03 19:32	2° Y 06'51		evening set	7857 Feb 19 22:30	14° ∺ 28′08	
evening set	7856 Mar 07 15:37	0° Υ 21'16		inferior conj	7857 Feb 25 07:51	8° 米 02'30	2°02'03
	7856 Mar 08 01:35	30° ₹		minimum elong	7857 Feb 25 05:38	8°) 10′08	2°01'24
inferior conj	7856 Mar 12 23:16	24°) €02'43	2°37'24	min. Earth dist.	7857 Feb 24 21:50	8°) 37′05	0.68345 AU
minimum elong	7856 Mar 12 21:02	24°) 10′29	2°36'51	morning rise	7857 Mar 02 12:43	1°) 55'42	
min. Earth dist.	7856 Mar 13 01:06	23° ¥ 56′20	0.68311 AU	direct	7857 Mar 06 21:26	0°) 10′25	01015140
morning rise	7856 Mar 18 02:18	17°) 51'04		morning max el	7857 Mar 15 11:49	5°) €08'32	21°15'42
direct	7856 Mar 23 01:05	15° ¥ 43′20	22040114	desc. node	7857 Mar 25 14:48	17° ¥ 31'52 0° Ƴ	
morning max el	7856 Apr 01 20:41	21°\(\dagger)30'58 28°\(\dagger)12'32	22°40'14		7857 Apr 03 07:55	18° Ƴ 47'41	
desc. node	7856 Apr 07 17:52	28° π 12'32 0° Υ		morning set max. Earth dist.	7857 Apr 15 15:16	0° 8 13'19	1.42399 AU
	7856 Apr 09 03:53	0°8		max. Earm dist.	7857 Apr 22 18:00 7857 Apr 22 14:45	0° 8	1.42399 AU
morning set	7856 Apr 29 21:19 7856 May 05 22:35	9° 8 43'41			7657 Apr 22 14.45	0.0	
max. Earth dist.	7856 May 10 15:52	17° 8 37'43	1.40312 AU	superior conj	7857 Apr 30 01:33	12° 8 29'27	2003114
max. Latur dist.	7856 May 17 17:12	0° I	1. 4 0312 AO	minimum elong	7857 Apr 30 06:14	12° 8 49'33	
	7030 Way 17 17.12	о д		minimum ciong	7857 May 09 23:30	0°Ⅱ	2 03 03
superior conj	7856 May 18 10:35	1° Ⅱ 18'33	-1°41'45	evening rise	7857 May 11 10:46	2° ∏ 39'14	
minimum elong	7856 May 18 16:16	1° Ⅱ 44'19		asc. node	7857 May 17 15:36	13° ∏ 44'08	
evening rise	7856 May 28 09:46	19° Ⅱ 54'20		evening max el	7857 May 27 22:22	28° ∏ 37'02	18°07'13
asc. node	7856 May 30 18:33	24° Ⅱ 22'07		Č	7857 May 29 11:57	0ം ഇ	
	7856 Jun 02 19:49	0ංම		retrograde	7857 Jun 03 15:55	2°502'40	
evening max el	7856 Jun 13 11:40	15° © 42'23	18°24'53	evening set	7857 Jun 06 04:26	1° © 34'04	
retrograde	7856 Jun 20 23:51	19° 5 27'16			7857 Jun 09 00:45	30°R∏	
evening set	7856 Jun 23 04:57	19° 5 08'38		inferior conj	7857 Jun 12 22:39	26° Ⅲ 39'48	2°18'17
inferior conj	7856 Jun 30 16:53	14° © 34'32	1°09'46	minimum elong	7857 Jun 13 01:45	26° Ⅲ 32'30	2°17'21
minimum elong	7856 Jun 30 19:11	14° © 29'53	1°08'51	min. Earth dist.	7857 Jun 16 05:01	23° Ⅱ 36'47	0.60516 AU
min. Earth dist.	7856 Jul 04 02:07	11° © 51'18	0.58304 AU	morning rise	7857 Jun 19 20:27	20° ∏ 46'44	
desc. node	7856 Jul 04 17:16	11° 5 22'45		desc. node	7857 Jun 21 14:17	19° ∏ 48′22	
morning rise	7856 Jul 08 06:05	9° 5 07'25		direct	7857 Jun 26 10:08	18° Ⅱ 39'49	
direct	7856 Jul 14 07:03	7° © 32'14		morning max el	7857 Jul 10 17:51	26° Ⅲ 37′10	27°48'34
morning max el	7856 Jul 28 16:27	15°914'17	27°06'32		7857 Jul 13 22:14	0°€	
	7856 Aug 09 15:05	$0 ^{\circ} \Omega$			7857 Aug 03 05:10	0 $^{\circ}\Omega$	
asc. node	7856 Aug 26 17:56	0° m/25'32		morning set	7857 Aug 12 05:41	17° Ω 29'36	
	7856 Aug 26 13:00	0° m)		asc. node	7857 Aug 13 14:56	20° Ω 23'34	
morning set	7856 Aug 28 00:28	3°Mp05'16		F d U	7857 Aug 18 01:46	0°Mp 0°M>22/4€	1 21702 411
avmoni		100 m 20150	1015142	max. Earth dist.	7857 Aug 18 07:44	0° Mp 32′46	1.31792 AU
superior conj		18° m 20'58	1°15'43		7057 Aug 10 11.25	3° Mp 06'16	0°56'52
minimum -1	7856 Sep 04 00:25	100 m 00122	1015122				
minimum elong	7856 Sep 03 22:11	18° Mp 08'32		superior conj	7857 Aug 19 11:35		
minimum elong max. Earth dist.	7856 Sep 03 22:11 7856 Sep 03 21:58	18° m 07'17	1°15'22 1.31711 AU	minimum elong	7857 Aug 19 09:28	2° m 54'33	0°56'25
max. Earth dist.	7856 Sep 03 22:11 7856 Sep 03 21:58 7856 Sep 09 07:31	18°∰07'17 0° <u>Ω</u>			7857 Aug 19 09:28 7857 Aug 26 05:49	2° m 54'33 17° m 55'16	
•	7856 Sep 03 22:11 7856 Sep 03 21:58 7856 Sep 09 07:31 7856 Sep 10 19:37	18° № 07'17 0° <u>Ω</u> 3° <u>Ω</u> 13'16		minimum elong evening rise	7857 Aug 19 09:28 7857 Aug 26 05:49 7857 Sep 01 03:16	2° M 54'33 17° M 55'16 0° <u>a</u>	
max. Earth dist.	7856 Sep 03 22:11 7856 Sep 03 21:58 7856 Sep 09 07:31 7856 Sep 10 19:37 7856 Sep 25 01:46	18° № 07'17 0° Ω 3° Ω 13'16 0° M		minimum elong	7857 Aug 19 09:28 7857 Aug 26 05:49 7857 Sep 01 03:16 7857 Sep 17 13:16	2° m 54'33 17° m 55'16 0° Ω 25° Ω 59'14	
max. Earth dist. evening rise desc. node	7856 Sep 03 22:11 7856 Sep 03 21:58 7856 Sep 09 07:31 7856 Sep 10 19:37 7856 Sep 25 01:46 7856 Sep 30 16:11	18° ነው 07'17 0°	1.31711 AU	minimum elong evening rise desc. node	7857 Aug 19 09:28 7857 Aug 26 05:49 7857 Sep 01 03:16 7857 Sep 17 13:16 7857 Sep 21 04:04	2° m 54'33 17° m 55'16 0° <u>a</u> 25° <u>a</u> 59'14 0° m.	0°56'25
max. Earth dist.	7856 Sep 03 22:11 7856 Sep 03 21:58 7856 Sep 09 07:31 7856 Sep 10 19:37 7856 Sep 25 01:46	18° № 07'17 0° Ω 3° Ω 13'16 0° M		minimum elong evening rise	7857 Aug 19 09:28 7857 Aug 26 05:49 7857 Sep 01 03:16 7857 Sep 17 13:16	2° m 54'33 17° m 55'16 0° Ω 25° Ω 59'14	0°56'25

. ,	7057.0 + 12.02.40	60 m 40105		. 1	7050 0 17 11 20	100 0 22140	
evening set	7857 Oct 12 03:49	6°M48'05	0.55650 433	retrograde	7858 Sep 17 11:29	18° £ 23'40	
min. Earth dist.	7857 Oct 16 19:18		0.57672 AU	evening set	7858 Sep 22 01:16	17° Ω 37'46	
inferior conj	7857 Oct 19 19:27	2°M05'55		min. Earth dist.	7858 Sep 28 06:03		0.55968 AU
minimum elong	7857 Oct 20 00:27	1°M57'18	5°16'24	inferior conj	7858 Sep 30 10:42	13° ≏ 17'58	
	7857 Oct 23 00:29	30° ₹ Ω		minimum elong	7858 Sep 30 09:28	13° ≏ 19'49	5°32'08
morning rise	7857 Oct 27 23:26	27° ≏ 50'29		morning rise	7858 Oct 08 19:51	9° ≏ 21'44	
direct	7857 Oct 30 09:10	27° ≏ 33'00		direct	7858 Oct 11 14:36	9° ჲ 02'07	
	7857 Nov 06 02:26	0° M		morning max el	7858 Oct 21 20:11	13° ≏ 50'22	20°01'30
morning max el	7857 Nov 08 04:12	1°M45'15	18°56'25	asc. node	7858 Oct 27 11:26	20° ≏ 31'18	
asc. node	7857 Nov 09 14:27	3° ™ 13′28			7858 Nov 02 07:08	0° M	
morning set	7857 Nov 24 17:21	28° ™ 18'52		morning set	7858 Nov 08 22:13	12°M53'50	
	7857 Nov 25 13:52	0° ∡ ¹		-			
				superior conj	7858 Nov 16 15:16	28° ™ 35'59	1°33'02
superior conj	7857 Dec 03 03:17	14° ∡ °46′10	1°17'32	minimum elong	7858 Nov 16 17:24	28°M46'36	1°32'58
minimum elong	7857 Dec 03 06:30	15° ₹ '01'30	1°17'17	mmmam viong	7858 Nov 17 08:06	0° ⊼	1 5200
max. Earth dist.	7857 Dec 10 02:33	27° × 38'36	1.39078 AU	max. Earth dist.	7858 Nov 22 08:31	9° х 44'22	1.36960 AU
max. Lartii dist.	7857 Dec 10 02:33	0°る	1.57076 AC	evening rise	7858 Nov 26 03:26	16° х 44'11	1.50700 AC
		0 3 4° 3 24'09		=			
evening rise	7857 Dec 13 23:25			desc. node	7858 Dec 01 09:18	25° ₹ 54'35	
desc. node	7857 Dec 14 12:16	5° ට 18'59			7858 Dec 03 20:07	0°ප	
	7857 Dec 30 04:27	0° ≈			7858 Dec 24 15:10	0° ≈	
evening max el	7858 Jan 18 05:37		24°27'38	evening max el	7858 Dec 31 18:42	7° ≈ 55'13	25°40'41
	7858 Jan 26 01:32	0° ∀		retrograde	7859 Jan 13 03:09	14° ≈ 59'55	
retrograde	7858 Jan 29 16:03	0°) 49'36		evening set	7859 Jan 19 02:35	12° ≈ 32'22	
	7858 Feb 01 23:54	30° R ≈		asc. node	7859 Jan 23 10:42	7° ≈ 50'05	
evening set	7858 Feb 04 02:42	28° ≈ 33'26		min. Earth dist.	7859 Jan 23 10:44	7° ≈ 49'58	0.67247 AU
asc. node	7858 Feb 05 13:39	27° ≈ 09'39		inferior conj	7859 Jan 24 19:23	6° ≈ 06'07	0°27'08
min. Earth dist.	7858 Feb 08 17:49	23°≈16'30	0.67987 AU	minimum elong	7859 Jan 24 18:42	6° ≈ 08'18	0°26'58
inferior conj	7858 Feb 09 15:11	22° ≈ 04'57	1°18'28	morning rise	7859 Jan 30 11:15	0°≈13'53	
minimum elong	7858 Feb 09 13:28	22°≈10'40	1°17'55	· ·	7859 Jan 30 20:31	30°Rる	
morning rise	7858 Feb 15 00:22	16°≈04'27		direct	7859 Feb 02 19:03	29° る 10'22	
direct	7858 Feb 18 19:56	14°≈41'11		ancer	7859 Feb 05 20:32	0°≈	
morning max el	7858 Feb 26 10:19	18°≈58'09	20°02'21	morning max el	7859 Feb 09 16:38	2°≈57'57	19°03'48
morning max ci	7858 Mar 07 08:47	0°) €	20 02 21	greatest brilliancy	7859 Feb 23 11:28	21°≈33'51	-0.8m
1 1-		7°) 20'44		-			-0.6111
desc. node	7858 Mar 12 11:46			desc. node	7859 Feb 27 08:44	27°≈31'01	
morning set	7858 Mar 25 13:37	27°) €05'50			7859 Feb 28 23:20	0°) (45100	
	7858 Mar 27 10:40	0°Υ		morning set	7859 Mar 04 16:57	5°) (47'09	
max. Earth dist.	7858 Apr 05 03:08	13° Ƴ 39'11	1.44077 AU	max. Earth dist.	7859 Mar 18 18:39	27°) 44'26	1.45150 AU
					7859 Mar 20 05:06	0° Y	
superior conj	7858 Apr 10 15:58	22° Y 35'15					
minimum elong	7858 Apr 10 15:51	22° Ƴ 34'45	2°11'37	superior conj	7859 Mar 21 07:33	1° Ƴ 44'20	
	7858 Apr 15 03:45	9° 8		minimum elong	7859 Mar 21 00:32	1° Ƴ 16'40	2°00'46
evening rise	7858 Apr 23 17:37	14° 8 33'21		evening rise	7859 Apr 05 02:12	25° Ƴ 30′08	
	7858 May 02 20:08	$\Pi^{\circ}0$			7859 Apr 07 20:05	$8^{\circ 0}$	
asc. node	7858 May 04 12:39	2° Ⅱ 41'14		asc. node	7859 Apr 21 09:41	21° 8 05'38	
evening max el	7858 May 11 11:32	11° Ⅱ 52'06	18°08'43	evening max el	7859 Apr 25 00:10	25° 8 20'04	18°28'36
retrograde	7858 May 17 21:11	15° Ⅱ 13'18		retrograde	7859 May 01 11:27	28° 8 50'36	
evening set	7858 May 20 16:59	14° Ⅲ 32′28		evening set	7859 May 04 14:26	27° 8 56'10	
inferior conj	7858 May 26 21:21	9° ∏ 19'15	3°00'16	inferior conj	7859 May 10 08:56	22° 8 25'14	3°20'41
minimum elong	7858 May 26 23:40	9° Ⅱ 13'03	2°59'45	minimum elong	7859 May 10 09:54	22° 8 22'21	3°20'31
min. Earth dist.	7858 May 29 16:35		0.62719 AU	min. Earth dist.	7859 May 12 13:19	19° 8 50'36	0.64681 AU
morning rise	7858 Jun 02 04:44	3° I I1'03	0.02/17/10	morning rise	7859 May 16 04:32	16° 8 09'57	0.04001710
desc. node	7858 Jun 08 11:18	0° Д 39'53		direct	7859 May 22 20:48	13° 8 24'37	
direct	7858 Jun 08 23:26	0° Ⅱ 39'04	25052121	desc. node	7859 May 26 08:18	14° 8 03'27	25020125
morning max el	7858 Jun 23 00:36	8° Ⅱ 41'58	27°52'21	morning max el	7859 Jun 05 10:16	21° 8 21'36	27°20'35
	7858 Jul 09 11:12	0ಂ ತಾ			7859 Jun 12 22:11	0°Щ	
	7858 Jul 26 10:18	$0^{\circ}\Omega$			7859 Jul 02 15:04	0 \circ \odot	
morning set	7858 Jul 27 04:48	1° Ω 33'02		morning set	7859 Jul 10 19:13	15° © 08'12	
asc. node	7858 Jul 31 11:54	10° Ω 27'44		max. Earth dist.	7859 Jul 15 10:26	24° 5 26'21	1.33373 AU
max. Earth dist.	7858 Aug 01 13:06	12° Ω 42′05	1.32341 AU	asc. node	7859 Jul 18 08:54	0° Ω 34'04	
					7859 Jul 18 02:26	$0^{\circ}\Omega$	
superior conj	7858 Aug 03 20:13	17° Ω 39'50	0°33'38				
minimum elong	7858 Aug 03 18:43	17° Ω 31'42	0°33'13	superior conj	7859 Jul 19 00:20	1° Ω 55'46	0°06'33
3	7858 Aug 09 12:01	0° m		minimum elong	7859 Jul 19 00:00	1° Ω 54'02	0°06'22
evening rise	7858 Aug 10 17:25	2° m 37'56		behind sun begin	7859 Jul 18 18:55	1° Ω 27'02	
<i>5</i>	7858 Aug 25 11:36	0∘ ⊽		behind sun end	7859 Jul 19 05:06	2° Ω 21'03	
evening max el	7858 Sep 03 19:36	11° ≏ 33'06	23°51'23	evening rise	7859 Jul 26 04:33	17° Ω 15'43	
desc. node	7858 Sep 04 10:21	11 ≥ 33 00 12° ♀ 07'59	20 0120	0,0111115 1150	7859 Aug 01 11:47	0° Mp	
desc. Houc	7020 Sep 0+ 10.21	12 -0/39			,007 mg 01 11.4/	עויי	

Section Sect	evening max el	7859 Aug 16 08:52	21° m 47'56	22°12'41		7860 Jul 26 01:40	0° m	
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Miss		•				-		
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Manufact 7859 Oct 24 07-17					direct			
Separation Page	asc. node	7859 Oct 14 08:25	8° ≏ 40'14			•		
Page	morning set	7859 Oct 24 07:17	27° ≏ 39'17		morning max el	-	5° ™ 40'54	23°10'15
		7859 Oct 25 10:11	0°M		asc. node	7860 Sep 30 05:25	27° m 27'51	
minimar elong 7859 Nov 3 1 1-04 1 2°BL5759 140/08						7860 Oct 01 14:04	0∘ ⊽	
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Persing fiber Persing fibe	minimum elong	7859 Oct 31 14:04	12°M57'59	1°40'38				
Contact Con	max. Earth dist.	7859 Nov 04 19:49	21°M37'54	1.35076 AU	superior conj	7860 Oct 14 18:12	27° ♀ 30'53	1°41'07
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evening max el 7859 Nov. 26 23.28 0°5 evening rise 7860 Oct 21 11.40 13°11.25° retrograde 7859 Dec. 14 08.00 21°52873 26°39'54 desc. node 7860 Nov. 40 03.22 0°52" 7860 Nov. 14 03.22 0°52" 7860 Nov. 15 03.49 0°52"		7859 Nov 09 02:50	0° ∡ ¹			7860 Oct 15 22:05	0°M	
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Page								
Record	Č	7860 Mar 15 11:34					19° ≈ 46'44	
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minimum elong min. Earth dist. 7860 Apr 23 05:24 5°852'04 3°24'09 asc. node 7861 Mar 25 03:51 25°Y32'34 4	evening set	7860 Apr 17 17:40	11° 8 38'03		greatest brilliancy	7861 Mar 09 17:48	7° Ƴ 01'01	-0.6m
min. Earth dist. 7860 Apr 24 18:41 3°S52'59 0.66263 AU retrograde 7861 Mar 29 05:24 26°Y56'24 vevening set 7860 Apr 28 05:10 30°RY evening set 7861 Apr 02 00:17 25°Y32'52 morning rise 7860 Apr 28 16:44 29°Y33'26 inferior conj 7861 Apr 07 08:52 19°Y31'29 3°14'29 direct 7860 May 10 50:51 26°Y47'14 minimum elong 7861 Apr 07 07:28 19°Y36'10 3°14'16 desc. node 7860 May 12 05:19 29°Y31'52 minimum elong 7861 Apr 08 07:12 18°Y16'10 0.67407 AU 7860 May 12 20:58 0°S morning rise 7861 Apr 12 14:25 13°Y14'41 morning max el 7860 Jun 06 08:43 0°I desc. node 7861 Apr 12 14:25 13°Y14'41 morning set 7860 Jun 22 21:28 28°II05'17 morning max el 7860 Jun 23 21:51 0°S morning max el 7860 Jun 23 21:51 0°S morning set 7861 May 10 13:07 0°S morning set 7860 Jun 26 21:18 5°S43'56 1.34888 AU morning set 7861 Jun 05 07:07 10°II12'52 superior conj 7860 Jul 01 21:32 15°S53'51 0°23'22 asc. node 7860 Jul 04 05:54 20°S38'11 superior conj 7860 Jul 04 05:54 20°S38'11 superior conj 7860 Jul 08 17:35 0°Ω minimum elong 7861 Jun 15 12:13 29°II06'15 -0°55'05	inferior conj	7860 Apr 23 05:45	5° 8 50'57	3°24'15	evening max el	7861 Mar 21 14:32		19°59'20
Morning rise 7860 Apr 28 05:10 30°Rγ evening set 7861 Apr 02 00:17 25°γ32'52 19°γ31'29 3°14'29 Morning rise 7860 May 05 00:51 26°γ47'14 minimum elong 7861 Apr 07 07:28 19°γ36'10 3°14'16 desc. node 7860 May 12 05:19 29°γ31'52 min. Earth dist. 7861 Apr 08 07:12 18°γ16'10 0.67407 AU Morning max el 7860 May 17 20:35 4°825'10 26°20'10 direct 7861 Apr 18 10:49 10°γ37'59 morning set 7860 Jun 22 21:28 28°Π05'17 morning max el 7860 Jun 23 21:51 0°3 morning set 7860 Jun 23 21:51 0°3 morning set 7861 Apr 18 10:49 17°γ42'22 25°00'22 max. Earth dist. 7860 Jun 26 21:18 5°343'56 1.34888 AU morning set 7861 Jun 05 07:07 10°Π12'52 superior conj 7860 Jul 01 21:32 15°35'35 0°23'22 asc. node 7860 Jul 04 05:54 20°38'11 superior conj 7861 Jun 15 08:53 29°Π06'15 -0°55'05 Roon in the superior conj 7860 Jul 08 17:35 0°3 0°3 minimum elong 7861 Jun 15 12:13 29°Π06'15 -0°55'05 Roon in the superior conj 7860 Jul 08 17:35 0°3 0°3 minimum elong 7861 Jun 15 12:13 29°Π06'15 -0°55'05 Roon in the superior conj 7860 Jul 08 17:35 0°3 0	minimum elong	7860 Apr 23 05:24	5° 8 52'04	3°24'09	asc. node	7861 Mar 25 03:51	25° Y 32'34	
morning rise 7860 Apr 28 16:44 29°Y 33'26 inferior conj 7861 Apr 07 08:52 19°Y 31'29 3°14'29 direct 7860 May 05 00:51 26°Y 47'14 minimum elong 7861 Apr 07 07:28 19°Y 36'10 3°14'16 desc. node 7860 May 12 05:19 29°Y 31'52 min. Earth dist. 7861 Apr 08 07:12 18°Y 16'10 0.67407 AU morning max el 7860 May 12 20:58 0°B morning rise 7861 Apr 12 14:25 13°Y 14'41 morning max el 7860 May 17 20:35 4°B 25'10 26°20'10 direct 7861 Apr 18 10:49 10°Y 37'59 morning set 7860 Jun 22 21:28 28° Π05'17 morning max el 7861 Apr 29 02:18 16°Y 33'47 morning set 7860 Jun 23 21:51 0°S 7861 May 10 13:07 0°B max. Earth dist. 7860 Jun 26 21:18 5°S 43'56 1.34888 AU morning set 7861 May 30 09:16 0° Π morning set 7860 Jun 01 21:32 15°S 46'59 -0°23'31 max. Earth dist. 7861 Jun 05 07:07 10° Π 12'52 superior conj 7860 Jul 01 22:52 15°S 53'51 0°23'22 asc. node 7860 Jul 04 05:54 20°S 38'11 superior conj 7861 Jun 15 08:53 29° Π06'15 -0°55'05 7860 Jul 08 17:35 0°Ω minimum elong 7861 Jun 15 12:13 29° Π26'15 0°55'05 minimum elong 7860 Jul 08 17:35 0°54'36	min. Earth dist.	7860 Apr 24 18:41	3° 8 52'59	0.66263 AU	retrograde	7861 Mar 29 05:24	26° Y 56′24	
direct 7860 May 05 00:51 26°Y47'14 minimum elong 7861 Apr 07 07:28 19°Y36'10 3°14'16 desc. node 7860 May 12 05:19 29°Y31'52 min. Earth dist. 7861 Apr 08 07:12 18°Y16'10 0.67407 AU respect		7860 Apr 28 05:10	30° ₹Ƴ		evening set	7861 Apr 02 00:17	25° Ƴ 32'52	
May 12 05:19 29°Y31'52 min. Earth dist. 7861 Apr 08 07:12 18°Y16'10 0.67407 AU	morning rise	7860 Apr 28 16:44	29° Ƴ 33'26		inferior conj	7861 Apr 07 08:52	19° Ƴ 31'29	3°14'29
May 12 05:19 29°Y31'52 min. Earth dist. 7861 Apr 08 07:12 18°Y16'10 0.67407 AU	direct	7860 May 05 00:51	26° Ƴ 47'14		minimum elong	7861 Apr 07 07:28	19° Ƴ 36′10	3°14'16
Morning max el 7860 May 12 20:58 0°8 Morning rise 7861 Apr 12 14:25 13°Υ14'41 Morning max el 7860 May 17 20:35 4°825'10 26°20'10 direct 7861 Apr 18 10:49 10°Υ37'59 Morning set 7860 Jun 22 21:28 28° IO5'17 Morning max el 7861 Apr 29 02:18 16° Υ33'47 Morning set 7860 Jun 23 21:51 0°5 7860 Jun 26 21:18 5°543'56 1.34888 AU Morning set 7861 May 10 13:07 0°8 Morning set 7861 May 30 09:16 0° II Morning set 7861 Jun 05 07:07 10° II 12'52 Morning max el 7861 Jun 05 07:07 10° II 12'52 Morning max el 7860 Jul 01 21:32 15°546'59 0°23'31 Max. Earth dist. 7861 Jun 08 22:08 16° II 47'50 1.36823 AU Morning max el 7860 Jul 01 22:52 15°553'51 0°23'22 Morning max el 7860 Jul 04 05:54 20° II 11 Superior conj 7860 Jun 15 08:53 29° II 06'15 -0°55'05 7860 Jul 08 17:35 0° Ω Minimum elong 7861 Jun 15 12:13 29° II 22'36 0°54'36 Morning max el 7860 Jun 15 12:13 29° II 22'36 0°54'36 Morning max el 7861 Jun 15 12:13 29° II 22'36 0°54'36 Morning max el 7860 Jul 15 12:13 29° II 22'36 0°54'36 Morning max el 7860 Jun 15 12:13 29° II 22'36 0°54'36 Morning max el 7860 Jun 15 12:13 29° II 22'36 0°54'36 Morning max el 7860 Jun 15 12:13 Morning max el 10° Y3'47 Morn	desc. node	•	29° Ƴ 31'52		_	-	18° Ƴ 16'10	0.67407 AU
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	evening rise	/800 JUL 09 13:16	1 664211			/001 Jun 15 19:48	0 50	

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asc. node	7861 Jun 21 02:56	10° © 36'29 15° © 51'13		minimum elong	7862 May 29 11:48 7862 Jun 07 13:45	12° П 08'42 29° П 35'15	1-25/12
evening rise	7861 Jun 23 17:17 7861 Jul 01 01:55	0°Ω		evening rise	7862 Jun 07 13:43 7862 Jun 07 18:51	29° Щ 35°15	
evening max el	7861 Jul 10 19:13	13° Ω 44'55	19°33'40	asc. node	7862 Jun 08 00:00	0°924'57	
retrograde	7861 Jul 20 12:04	13° Ω 31'58	19 33 40	evening max el	7862 Jun 23 18:52	25° © 49'13	18°44'08
evening set	7861 Jul 22 08:36	18° Ω 22'13		retrograde	7862 Jul 01 23:14	29° 9 52'18	18 44 08
desc. node	7861 Jul 26 01:34	$17^{\circ}\Omega 10'26$		evening set	7862 Jul 04 00:10	29° © 38'07	
inferior conj	7861 Jul 31 03:01	14°Ω17'28	-1°32'43	inferior conj	7862 Jul 11 23:34	25° © 16'11	0°17'15
minimum elong	7861 Jul 30 22:48	14°Ω24'10		minimum elong	7862 Jul 12 00:13	25°9514'58	0°16'52
min. Earth dist.	7861 Aug 02 12:13	12° Ω 46'53	0.55539 AU	desc. node	7862 Jul 12 22:37	24°933'23	0 1002
morning rise	7861 Aug 08 10:35	9° Ω 46'39	0.55557 110	min. Earth dist.	7862 Jul 15 04:54	22° © 54'19	0.57137 AU
direct	7861 Aug 13 04:43	8° £ 56'02		morning rise	7862 Jul 19 20:47	20°508'19	0.57157110
morning max el	7861 Aug 27 04:28	15° Ω 56'03	24°55'16	direct	7862 Jul 25 11:35	18°950'52	
	7861 Sep 07 12:03	0° m)		morning max el	7862 Aug 08 19:39	26°521'16	26°26'21
asc. node	7861 Sep 17 02:25	16° m/ 44'06			7862 Aug 12 06:48	$0^{\circ}\Omega$	
morning set	7861 Sep 22 06:16	27° m) 18'33			7862 Aug 31 18:27	0° m/y	
C	7861 Sep 23 12:24	0∘ ⊽		asc. node	7862 Sep 03 23:24	6° m/21'35	
	•			morning set	7862 Sep 06 16:49	12° m 02'14	
superior conj	7861 Sep 29 03:24	12° ≏ 18'12	1°35'32		•		
minimum elong	7861 Sep 29 01:54	12° ≏ 10′03	1°35'28	superior conj	7862 Sep 13 14:50	27° m 09'44	1°24'27
max. Earth dist.	7861 Sep 30 18:21	15° ≏ 50'55	1.32476 AU	minimum elong	7862 Sep 13 12:44	26° Mp 58'10	1°24'11
evening rise	7861 Oct 06 08:27	27° ₽ 41'39		max. Earth dist.	7862 Sep 14 02:49	28° Mp 16′07	1.31856 AU
	7861 Oct 07 11:38	0°M₊			7862 Sep 14 21:36	0∘ ⊽	
desc. node	7861 Oct 22 00:27	26°MJ04'35		evening rise	7862 Sep 20 12:21	12° ≏ 09'18	
	7861 Oct 24 14:07	0° ∡ ¹			7862 Sep 29 15:12	0° M	
evening max el	7861 Nov 08 07:23	18° ∡ 11'01	27°28'31	desc. node	7862 Oct 08 21:33	15°M08'33	
retrograde	7861 Nov 22 01:26	25° ∡ ¹28'11			7862 Oct 20 22:46	0° ∡ ¹	
evening set	7861 Nov 29 03:56	22° х 59'17		evening max el	7862 Oct 21 13:30	0° ∡ ³35′18	27°06'24
min. Earth dist.	7861 Dec 02 20:24	19° ∡ 55′36	0.62908 AU	retrograde	7862 Nov 04 10:54	7° ∡ ¹46′29	
inferior conj	7861 Dec 05 15:22	17° ∡ 13'10	-2°44'34	evening set	7862 Nov 11 11:05	5° ∡ ³36′07	
minimum elong	7861 Dec 05 20:31	17° ∡ 00′38	2°42'31	min. Earth dist.	7862 Nov 15 04:12	2° ≯ 753'54	0.60905 AU
morning rise	7861 Dec 12 15:07	12° ≯ 02'08		inferior conj	7862 Nov 18 07:08	0° ≯ 13'40	-3°52'42
asc. node	7861 Dec 14 01:53	11° х 40′33		minimum elong	7862 Nov 18 14:02	29°M58'52	3°50'29
direct	7861 Dec 14 23:01	11° ∡ ³36'53			7862 Nov 18 13:30	30°RM	
morning max el	7861 Dec 21 15:07	15° х 02′26	17°48'04	morning rise	7862 Nov 25 19:17	25°M22'19	
	7862 Jan 01 01:24	0°₹		direct	7862 Nov 28 00:35	25°M02'29	
morning set	7862 Jan 06 17:28	9° る 52'00		asc. node	7862 Nov 30 22:53	25°M38'29	
desc. node	7862 Jan 17 23:37	29° る 14'54		morning max el	7862 Dec 05 05:49	28°M39'12	17°58'34
	7862 Jan 18 10:26	0° ≈		_	7862 Dec 06 12:27	0° ∡	
				morning set	7862 Dec 20 21:46	23°×20'18	
superior conj	7862 Jan 18 12:47	0°≈09'51			7862 Dec 24 12:43	0°る	
minimum elong	7862 Jan 18 12:23	0°≈08'11	0°03'50		50 (0 D 01 00 04	1107101	002446
behind sun begin	7862 Jan 18 03:24	29° る 30'40		superior conj	7862 Dec 31 02:04	11° 3 46'24	0°34'46
behind sun end	7862 Jan 18 21:23	0°≈45'38	1 44011 411	minimum elong	7862 Dec 31 04:47	11°る58'20	0°34'30
max. Earth dist.	7862 Jan 25 02:55	10°≈56'21	1.44011 AU	desc. node	7863 Jan 04 20:38	20°る00'13	1 42255 ATT
evening rise	7862 Feb 02 14:48	24°≈18'07		max. Earth dist.	7863 Jan 07 15:43	24°る40'56 0°≈	1.42355 AU
	7862 Feb 06 08:03 7862 Feb 27 06:04	0° ∀ 0° Υ		avanina riaa	7863 Jan 10 21:41 7863 Jan 13 12:59	0°≈ 4°≈13'31	
evening max el	7862 Mar 04 13:47	6° Υ 09'57	21°06'08	evening rise	7863 Jan 30 16:27	4 ≈1331 0°) (
asc. node	7862 Mar 12 00:57	11° Υ 07'18	21 00 08	evening max el	7863 Feb 15 08:05	19°) 50'19	22°22'16
retrograde	7862 Mar 13 03:52	11° Y 13'47		retrograde	7863 Feb 25 00:41	25° X 35'09	22 22 10
evening set	7862 Mar 17 08:17	9° Υ 35'14		asc. node	7863 Feb 26 22:02	25° X 16'57	
inferior conj	7862 Mar 22 15:42	3° Υ 22'05	2°53'43	evening set	7863 Mar 01 16:00	23°) (41'29	
minimum elong	7862 Mar 22 13:40	3° Υ 29'10		inferior conj	7863 Mar 07 00:12	17°) 19'33	2°23'26
min. Earth dist.	7862 Mar 23 00:46	2° Υ 50'42	0.68106 AU	minimum elong	7863 Mar 06 21:55	17°) (1733	2°22'50
Dartii dist.	7862 Mar 25 03:47	2 1 30 42 30°R ∺	0.00100 AU	min. Earth dist.	7863 Mar 06 21:00	17° X 30'42	0.68380 AU
morning rise	7862 Mar 27 18:50	27° ₩ 07'55		morning rise	7863 Mar 12 03:41	11° X 09'35	5.55550710
direct	7862 Apr 02 01:41	24° H 48'10		direct	7863 Mar 16 20:29	9°) 11'03	
	7862 Apr 11 12:21	0° Υ		morning max el	7863 Mar 26 03:07	14°) (37'04	22°03'02
morning max el	7862 Apr 12 15:20	1° Υ 06'06	23°31'27	desc. node	7863 Apr 02 20:13	23°) (40'47	-
desc. node	7862 Apr 15 23:15	4° Υ 42'58	 ·		7863 Apr 07 12:36	0°Υ	
	7862 May 04 11:37	0°8			7863 Apr 27 11:17	0°8	
morning set	7862 May 17 18:37	21° 8 16'27		morning set	7863 Apr 28 02:57	1° 8 02'57	
max. Earth dist.	7862 May 21 17:53	28° 8 06'24	1.39020 AU	max. Earth dist.	7863 May 03 16:11	10° 8 09'56	1.41237 AU
	7862 May 22 19:43	0°II			,		
	-			superior conj	7863 May 11 10:18	23° 8 30'59	-1°52'04
superior conj	7862 May 29 06:40	11° Ⅱ 44'43	-1°25'47	minimum elong	7863 May 11 15:56	23° 8 55'58	
•	-			-	-		

evening rise	7863 May 15 01:07 7863 May 21 23:03 7863 May 25 21:03	0°Ⅱ 12°Ⅱ44'28 19°Ⅱ58'08		superior conj minimum elong evening rise	7864 Apr 21 15:13 7864 Apr 21 18:21 7864 May 03 16:57	4°815'28 4°828'39 25°809'31	
asc. node	7863 May 31 16:22	0°95		evening rise	7864 May 06 10:39	0°耳	
evening max el	7863 Jun 07 02:42	8° 5 28'31	18°15'00	asc. node	7864 May 11 18:06	9°Ⅱ10′38	
retrograde	7863 Jun 14 05:21	12° © 02'51		evening max el	7864 May 20 14:54	21° Ⅲ 33'19	18°05'28
evening set	7863 Jun 16 13:44	11°5540'14	10.4040	retrograde	7864 May 27 03:40	24° Ⅱ 55'05	
inferior conj minimum elong	7863 Jun 23 17:43 7863 Jun 23 20:38	6°\$57'40 6°\$51'22	1°42'20 1°41'18	evening set inferior conj	7864 May 29 19:25 7864 Jun 05 07:13	24° Ⅲ 21'21 19° Ⅲ 18'35	2°39'03
min. Earth dist.	7863 Jun 27 03:13	4°902'59	0.59232 AU	minimum elong	7864 Jun 05 10:06	19 Ⅱ 1833	2°38'17
desc. node	7863 Jun 29 19:39	2° © 02'47	0.07232110	min. Earth dist.	7864 Jun 08 09:26	16° Ⅱ 14'57	0.61479 AU
morning rise	7863 Jul 01 00:27	1° 5 18'27		morning rise	7864 Jun 11 22:40	13° Ⅱ 18′05	
	7863 Jul 03 23:37	30°RⅡ		desc. node	7864 Jun 15 16:40	11° Ⅱ 26′09	
direct	7863 Jul 07 08:00	29° Ⅱ 29'12		direct	7864 Jun 18 15:29	10° Ⅱ 59'38	
mamina may al	7863 Jul 10 18:22 7863 Jul 21 16:53	0°ഇ 7° ഇ 18'35	27020150	morning max el	7864 Jul 02 20:44	18° Ⅱ 59'30 0° ©	27°54'47
morning max el	7863 Aug 07 19:13	0°Ω	21-2838		7864 Jul 12 04:02 7864 Jul 30 15:36	0°€	
asc. node	7863 Aug 21 20:24	26° Ω 13'18		morning set	7864 Aug 05 03:19	10°Ω50'22	
morning set	7863 Aug 22 00:27	26° Ω 34'34		asc. node	7864 Aug 07 17:23	16° Ω 14'18	
-	7863 Aug 23 15:14	0° m		max. Earth dist.	7864 Aug 10 21:41	23° Q 04'44	1.31977 AU
max. Earth dist.	7863 Aug 28 13:11	10° m 44'22	1.31690 AU				
	5 0.62 4 2 0.62 22	1107 7010	1000110	superior conj	7864 Aug 12 12:50	26° Ω 39'00	
superior conj minimum elong	7863 Aug 29 02:33 7863 Aug 29 00:18	11° Mp 58'26 11° Mp 45'57	1°08'18 1°07'53	minimum elong	7864 Aug 12 10:55 7864 Aug 14 01:22	26° Ω 28'27 0° m	0°47'03
evening rise	7863 Sep 04 20:50	26° Mp 47'38	1 0/33	evening rise	7864 Aug 19 07:51	11° Mg 30'29	
e vening rise	7863 Sep 06 09:16	0° ರ		evening rise	7864 Aug 28 15:33	0∘ ರ	
	7863 Sep 23 08:00	0°M		desc. node	7864 Sep 11 15:42	20° ≏ 22'24	
desc. node	7863 Sep 25 18:38	3°M21'07		evening max el	7864 Sep 14 03:38	22° ჲ 56'32	24°46'53
evening max el	7863 Oct 03 12:32	12°M10'31	26°10'37	retrograde	7864 Sep 27 23:39	29° ≏ 54'28	
retrograde	7863 Oct 17 10:50	19°M.15'17		evening set	7864 Oct 03 09:45	28° Ω 48'36	0.56001 ATT
evening set min. Earth dist.	7863 Oct 23 22:28 7863 Oct 28 01:38	17°M34'04 14°M59'25	0.58821 AU	min. Earth dist. inferior conj	7864 Oct 08 14:48 7864 Oct 11 08:37	26° £ 03'14 24° £ 16'49	0.56891 AU
inferior conj	7863 Oct 31 05:49	12°M37'47		minimum elong	7864 Oct 11 08:37	24° ⊆ 1049 24° ⊆ 12'17	
minimum elong	7863 Oct 31 12:32	12°M25'14	4°50'40	morning rise	7864 Oct 19 15:17	20° ♀ 10'29	2 2030
morning rise	7863 Nov 08 04:54	8°M08'46		direct	7864 Oct 22 04:34	19° ≏ 52'16	
direct	7863 Nov 10 11:45	7°M51'09		morning max el	7864 Oct 31 13:10	24° ≏ 18'14	19°21'27
asc. node	7863 Nov 17 19:53	11°M05'05		asc. node	7864 Nov 03 16:53	27° ≏ 46'45	
morning max el	7863 Nov 18 14:19 7863 Nov 30 17:18	11° M. 47'39 0° ∡ 7	18°29'09		7864 Nov 05 09:09	0°ጤ 21°ጤ48'58	
morning set	7863 Dec 04 14:36	0° x ¹ 7° x ¹23'12		morning set	7864 Nov 17 15:56 7864 Nov 21 17:55	21°111648′38 0° √ 1	
morning set	7003 Bec 04 14.50	7 7 23 12			70041404 21 17.55	0	
superior conj	7863 Dec 13 13:28	24° ₹ ′26′02	1°04'37	superior conj	7864 Nov 25 17:50	7° ∡ ¹54'12	1°25'09
minimum elong	7863 Dec 13 16:57	24° ₹ ′42′09	1°04'17	minimum elong	7864 Nov 25 20:39	8° ₮ 07'56	1°24'59
	7863 Dec 16 14:30	0°రె		max. Earth dist.	7864 Dec 02 05:48	20° ∡ 11′03	1.38157 AU
max. Earth dist.	7863 Dec 21 00:05	7° る 46'26	1.40322 AU	evening rise	7864 Dec 05 23:27	26° ₹ '52'00	
desc. node evening rise	7863 Dec 22 17:40 7863 Dec 25 07:14	10°පි44'51 15°පි03'43		desc. node	7864 Dec 07 18:49	0°궁 1°궁24'48	
evening rise	7864 Jan 03 16:09	13 3 03 43 0° ≈		desc. node	7864 Dec 08 14:40 7864 Dec 27 04:45	1 O2448 0°≈	
	7864 Jan 25 14:54	0° ∀		evening max el	7865 Jan 10 12:04	17° ≈ 20'15	24°59'58
evening max el	7864 Jan 28 22:56	3°) (34′06	23°42'21	retrograde	7865 Jan 22 08:14	24° ≈ 12'44	
retrograde	7864 Feb 08 18:28	9° ¥ 56'37		evening set	7865 Jan 28 00:28	21° ≈ 51′08	
evening set	7864 Feb 13 21:55	7°) (48'15		asc. node	7865 Jan 30 16:07	19° ≈ 07'56	
asc. node	7864 Feb 13 19:04	7°) 54'13	0.69245 ATT	min. Earth dist.	7865 Feb 01 12:26	16°≈49'10	0.67717 AU
min. Earth dist. inferior conj	7864 Feb 18 17:38 7864 Feb 19 08:28	2°) 11'45 1°) 21'09	0.68245 AU 1°44'35	inferior conj minimum elong	7865 Feb 02 14:40 7865 Feb 02 13:19	15°≈23'08 15°≈27'32	0°57'38 0°57'12
minimum elong	7864 Feb 19 06:24	1° X 21'09	1°43'56	morning rise	7865 Feb 08 02:26	9° ≈ 26'11	0 37 12
	7864 Feb 20 08:25	30°R≈		direct	7865 Feb 11 16:51	8°≈11'42	
morning rise	7864 Feb 24 14:52	25° ≈ 16'52		morning max el	7865 Feb 18 23:05	12° ≈ 14′20	19°35'40
direct	7864 Feb 28 17:59	23° ≈ 40'55		greatest brilliancy	7865 Mar 03 17:29	28°≈57'16	-0.7m
morning max el	7864 Mar 07 21:07	28°≈19'42	20°42'52	4 1	7865 Mar 04 10:27	0°) (
desc rodo	7864 Mar 09 11:23 7864 Mar 19 17:10	0° \ 13° \ 14'07		desc. node	7865 Mar 06 14:07 7865 Mar 16 07:13	3° ¥ 12'50 18° ¥ 01'14	
desc. node	7864 Mar 31 02:22	13°π1407 0° γ		morning set	7865 Mar 24 00:26	18° π 01'14 0° Υ	
morning set	7864 Apr 06 09:50	9° Υ 41'37		max. Earth dist.	7865 Mar 28 10:27	6° Υ 57'12	1.44618 AU
max. Earth dist.	7864 Apr 14 21:49	23° Y 10'29	1.43185 AU				
	7864 Apr 19 01:54	9° 8		superior conj	7865 Apr 01 19:10	13° Y ′54'42	
				minimum elong	7865 Apr 01 16:03	13° Y 42'14	2°09'37

	7865 Apr 11 15:10	0°8		max. Earth dist.	7866 Mar 11 03:38	21°) 12′51	1.45386 AU
evening rise	7865 Apr 15 14:47	6° 8 40'23					
asc. node	7865 Apr 28 15:08	27° 8 55'05		superior conj	7866 Mar 12 03:56	22°){ 48'06	-1°50'35
	7865 Apr 30 02:15	Π °0		minimum elong	7866 Mar 11 18:59	22°) 13′00	1°49'52
evening max el	7865 May 04 04:08	4° ∏ 54'34	18°14'50		7866 Mar 16 17:48	0° Y	
retrograde	7865 May 10 13:26	8° Ⅱ 18′24		evening rise	7866 Mar 27 13:20	17° Y 12'43	
evening set	7865 May 13 12:14	7° Ⅱ 31'54		greatest brilliancy	7866 Apr 03 18:16	28° Y 46'54	-0.9m
inferior conj	7865 May 19 11:55	2° Ⅱ 10'40	3°11'15		7866 Apr 04 12:37	0° 8	
minimum elong	7865 May 19 13:42	2° Ⅱ 05'41	3°10'54	asc. node	7866 Apr 15 12:11	16° 8 02'43	
	7865 May 21 10:28	30° ₹ 8		evening max el	7866 Apr 17 15:41	18° 8 25'50	18°42'23
min. Earth dist.	7865 May 22 00:58	29° 8 20'20	0.63596 AU	retrograde	7866 Apr 24 06:29	22° 8 04'33	
morning rise	7865 May 25 13:55	25° 8 58'26		evening set	7866 Apr 27 12:29	21° 8 04'16	
direct	7865 Jun 01 08:11	23° 8 19'32		inferior conj	7866 May 03 03:53	15° 8 26'17	3°24'00
desc. node	7865 Jun 02 13:40	23° 8 24'20		minimum elong	7866 May 03 04:16	15° 8 25'05	3°23'54
	7865 Jun 13 19:54	0°Ⅱ		min. Earth dist.	7866 May 05 01:42	13° 8 05'52	0.65403 AU
morning max el	7865 Jun 15 05:20	1° Ⅱ 21'24	27°42'51	morning rise	7866 May 08 19:24	9° 8 09'16	
	7865 Jul 06 08:23	0.20		direct	7866 May 15 08:42	6° 8 21'58	
morning set	7865 Jul 19 23:08	24°5643'07		desc. node	7866 May 20 10:40	7° 8 44'53	26055140
E 4 E	7865 Jul 22 13:41	0° Ω	1 22724 444	morning max el	7866 May 28 15:43	14° 8 13'33	26°57'48
max. Earth dist.	7865 Jul 25 00:18	5° Ω 05'30	1.32724 AU		7866 Jun 10 11:06	0°∏	
asc. node	7865 Jul 25 14:23	6° Ω 20'04			7866 Jun 29 01:16	0°©	
	7065 1-1 27 10-40	110 005140	0°22'33	morning set	7866 Jul 03 08:54	8°504'01	1.33958 AU
superior conj minimum elong	7865 Jul 27 19:49 7865 Jul 27 18:45	11° Ω 05'49 11° Ω 00'04	0°22'33 0°22'14	max. Earth dist.	7866 Jul 07 17:17	16° © 37'43	1.33938 AU
evening rise	7865 Aug 03 19:31	26° Ω 11'59	0 22 14	superior conj	7866 Jul 11 21:20	25° © 12'23	0°05'57
evening risc	7865 Aug 05 14:46	0° M)		minimum elong	7866 Jul 11 21:39	25° © 14'06	0°06'00
	7865 Aug 23 14:47	0° ت الأس		behind sun begin	7866 Jul 11 16:22	24°5946'23	0 00 00
evening max el	7865 Aug 26 15:01	ა <u>—</u> 3° Ω 12'53	23°08'53	behind sun end	7866 Jul 12 02:57	25° © 41'51	
desc. node	7865 Aug 29 12:45	5° Ω 45'34	25 00 55	asc. node	7866 Jul 12 11:24	26°\$26'08	
retrograde	7865 Sep 09 00:34	9° Ω 54'57		use. Houe	7866 Jul 14 03:56	0° Ω	
evening set	7865 Sep 12 22:43	9° £ 21'15		evening rise	7866 Jul 19 05:54	10° Ω 45'50	
min. Earth dist.	7865 Sep 19 24:00		0.55419 AU	evening rise	7866 Jul 29 05:21	0°m	
inferior conj	7865 Sep 21 15:53	5° Ω 09'15		evening max el	7866 Aug 08 07:25	13° m) 33'59	21°33'04
minimum elong	7865 Sep 21 11:26	5° Ω 15'44		desc. node	7866 Aug 16 09:50	18° m) 57'41	
morning rise	7865 Sep 30 02:19	1° Ω 18'48		retrograde	7866 Aug 20 15:03	19° m) 40'25	
direct	7865 Oct 03 02:05	0° ჲ 57'33		evening set	7866 Aug 23 04:41	19° m 25'24	
morning max el	7865 Oct 13 23:44	6° ჲ 03'22	20°36'02	inferior conj	7866 Sep 01 10:11	15° Mp 26'46	-4°24'39
asc. node	7865 Oct 21 13:53	15° ≙ 28'19		minimum elong	7866 Sep 01 00:51	15° m 39'51	4°22'20
	7865 Oct 29 17:50	0° M		min. Earth dist.	7866 Sep 01 08:57	15° m 28'30	0.54721 AU
morning set	7865 Nov 01 22:52	6°M29'35		morning rise	7866 Sep 09 22:00	11° m)35'51	
				direct	7866 Sep 13 11:35	11°Mp08'12	
superior conj	7865 Nov 09 10:35	21°M58'04	1°37'07	morning max el	7866 Sep 25 21:53	17° m 00'51	22°10'14
minimum elong	7865 Nov 09 12:09	22°M05'59	1°37'09		7866 Oct 06 02:34	0∘ ⊽	
	7865 Nov 13 10:56	0° ∡		asc. node	7866 Oct 08 10:54	3° ჲ 55'13	
max. Earth dist.	7865 Nov 14 13:23	2° ∡ 08'48	1.36111 AU	morning set	7866 Oct 17 09:07	21° ≏ 17'40	
evening rise	7865 Nov 18 11:22	9° ∡ ³33'11			7866 Oct 21 11:26	0°M₊	
desc. node	7865 Nov 25 11:43	21° ∡ ′56′13					
	7865 Nov 30 10:06	5°0		superior conj	7866 Oct 24 11:55	6°M25'27	1°41'35
	7865 Dec 22 22:24	0° ≈		minimum elong	7866 Oct 24 12:07	6°M26'32	1°41'40
evening max el	7865 Dec 24 01:01	1°≈06'12	26°07'59	max. Earth dist.	7866 Oct 28 03:38	14°M01'49	1.34375 AU
retrograde	7866 Jan 05 17:12	8°≈17'56		evening rise	7866 Nov 01 14:58	22°M56'20	
evening set	7866 Jan 11 22:01	5°≈46'17	0.66917 ATT	4 4-	7866 Nov 05 08:49	0° x̄ ⁷	
min. Earth dist.	7866 Jan 16 03:17 7866 Jan 17 04:50	1°≈18'54 30°Ŗる	0.66817 AU	desc. node	7866 Nov 12 08:46 7866 Nov 24 02:39	12°ズ13'15 0°る	
inforior aoni	7866 Jan 17 16:56	30 KO 29° る 22'27	0°03'10	avaning may al	7866 Dec 06 14:10	0 る 14° る 44'45	26°59'09
inferior conj minimum elong	7866 Jan 17 16:51	29 ප 22'44	0°03'14	evening max el retrograde	7866 Dec 19 20:33	14 844 43 22° る 04'22	20 39 09
transit middle	7866 Jan 17 16:51	29 8 22'44	0°03'14	evening set	7866 Dec 26 12:31	22 3 04 22 19° る 27'54	
transit initiale	7866 Jan 17 14:03	29° ට 31'25	3 03 17	min. Earth dist.	7866 Dec 30 11:54	15° ට 34'47	0.65556 AU
transit end	7866 Jan 17 19:39	29° る 14'04		inferior conj	7867 Jan 01 13:07	13° ප 14'05	
asc. node	7866 Jan 17 13:09	29° る 34'10		minimum elong	7867 Jan 01 14:49	13° る 09'15	0°57'19
morning rise	7866 Jan 23 12:21	23° ප 34'43		asc. node	7867 Jan 04 10:13	19° ろ 07'48	5 5, 17
direct	7866 Jan 26 15:34	22° る 38'51		morning rise	7867 Jan 07 18:16	7° る 37'59	
morning max el	7866 Feb 02 08:27	26° ප 17'44	18°43'51	direct	7867 Jan 10 12:12	6° る 56'59	
	7866 Feb 05 15:05	0° ≈		morning max el	7867 Jan 16 23:05	10° る 23'15	18°08'34
desc. node	7866 Feb 21 11:06	23° ≈ 30'14		<i>5</i>	7867 Jan 30 17:15	0° ≈	
morning set	7866 Feb 23 19:34	27°≈11'40		morning set	7867 Feb 04 12:39	7° ≈ 49'25	
Č	7866 Feb 25 14:28	0° ∀		desc. node	7867 Feb 08 08:05	14° ≈ 00'40	

	7867 Feb 18 08:10	0° ∀		morning set	7868 Jan 17 09:42 7868 Jan 23 09:54	19° ♂ 49'08 0°≈	
superior conj	7867 Feb 19 09:45	1°) 40′54	-1°13'57	desc. node	7868 Jan 26 05:03	0 ∞ 4°≈39'45	
minimum elong	7867 Feb 19 01:20	1°)(07'42		dese. Hode	7000 Jun 20 03.03	T ~3) T3	
max. Earth dist.	7867 Feb 21 22:56	5°) (41'20	1.45417 AU	superior conj	7868 Jan 30 07:12	11° ≈ 22'12	-0°29'16
evening rise	7867 Mar 07 13:57	26° H 54'53	1.13117110	minimum elong	7868 Jan 30 03:55	11°≈08'52	0°28'41
e vennig rise	7867 Mar 09 13:40	0°Υ		max. Earth dist.	7868 Feb 04 18:01	20°≈07'09	1.44718 AU
greatest brilliancy	7867 Mar 20 01:58	16° Ƴ 09'09	-0.7m	man. Darun dige.	7868 Feb 11 01:10	0° ∀	1,10110
8	7867 Mar 30 02:41	0°8		evening rise	7868 Feb 15 01:55	6° ¥ 13′20	
evening max el	7867 Mar 31 23:26	2° 8 02'19	19°26'56	C	7868 Mar 01 22:47	$_0$ ° $\boldsymbol{\gamma}$	
asc. node	7867 Apr 02 09:15	3° 8 22'26		evening max el	7868 Mar 14 01:58	15° Ƴ 40'21	20°26'27
retrograde	7867 Apr 08 03:31	6° 8 07'14		asc. node	7868 Mar 19 06:21	19° Ƴ 39'54	
evening set	7867 Apr 11 17:25	4° 8 52'21		retrograde	7868 Mar 22 01:58	20° Y 20′33	
-	7867 Apr 16 09:04	30° ₹ Υ		evening set	7868 Mar 26 00:49	18° Ƴ 50'34	
inferior conj	7867 Apr 17 03:43	28° Ƴ 59'14	3°21'34	inferior conj	7868 Mar 31 08:39	12° Y 44'06	3°06'53
minimum elong	7867 Apr 17 02:54	29° Ƴ 01'57	3°21'26	minimum elong	7868 Mar 31 06:56	12° Ƴ 49'58	3°06'36
min. Earth dist.	7867 Apr 18 10:25	27° Y 18'39	0.66802 AU	min. Earth dist.	7868 Apr 01 01:12	11° Y 47'32	0.67758 AU
morning rise	7867 Apr 22 12:01	22° Y 41'44		morning rise	7868 Apr 05 12:50	6° Ƴ 28'29	
direct	7867 Apr 28 15:35	19° Ƴ 58'06		direct	7868 Apr 11 03:43	3° Y 58′12	
desc. node	7867 May 07 07:41	23° Y 56'50		morning max el	7868 Apr 22 10:36	10° Ƴ 43'23	24°23'08
morning max el	7867 May 11 01:37	27° Y 23'50	25°47'58	desc. node	7868 Apr 23 04:40	11° Y 29'53	
	7867 May 13 12:15	9° 8			7868 May 07 18:24	$_{0\circ}$ 8	
	7867 Jun 04 03:03	Π $^{\circ}0$			7868 May 26 20:16	$\Pi^{\circ}0$	
morning set	7867 Jun 16 04:47	20° Ⅱ 42'42		morning set	7868 May 28 05:40	2° Ⅱ 24'35	
max. Earth dist.	7867 Jun 19 23:17	27° Ⅱ 46'13	1.35663 AU	max. Earth dist.	7868 May 31 21:12	8° Ⅱ 52'58	1.37741 AU
	7867 Jun 21 03:07	0					
				superior conj	7868 Jun 07 20:55	21° I 55'37	
superior conj	7867 Jun 25 14:50	8° © 52'10		minimum elong	7868 Jun 08 01:05	22° Ⅱ 15'39	1°07'48
minimum elong	7867 Jun 25 17:00	9° © 03'04	0°36'31		7868 Jun 12 00:08	0ංම	
asc. node	7867 Jun 29 08:26	16° © 28'55		asc. node	7868 Jun 15 05:27	6° © 23'43	
evening rise	7867 Jul 03 12:58	25°906'26		evening rise	7868 Jun 16 14:07	9° © 06'00	
. ,	7867 Jul 05 22:54	0°N	20011127		7868 Jun 28 05:07	0° U	10010100
evening max el	7867 Jul 21 11:43	24° £ 29'39	20°11'37	evening max el	7868 Jul 03 04:55	6° Ω 09'09	19°10'00
retrograde	7867 Aug 01 04:01	29° Ω 45'34		retrograde	7868 Jul 12 04:53	10° Ω 35'42	
evening set desc. node	7867 Aug 03 02:20	29° Ω 36'01 29° Ω 34'04		evening set desc. node	7868 Jul 14 02:46 7868 Jul 20 03:58	10° Ω 24'30 7° Ω 46'52	
inferior conj	7867 Aug 03 06:54 7867 Aug 12 04:51	29 8€ 34 04 25° Ω 37'47	2940140	inferior conj	7868 Jul 22 13:30	6°Ω12'55	0.043140
minimum elong	7867 Aug 11 21:32	25° Ω 48'36		minimum elong	7868 Jul 22 11:36	6° Ω 16'08	
min. Earth dist.	7867 Aug 13 19:34		0.54979 AU	min. Earth dist.	7868 Jul 25 09:12		0.56145 AU
morning rise	7867 Aug 20 15:30	21°Ω26'23	0.54717 AU	morning rise	7868 Jul 30 17:26	1° Ω 26'44	0.501 4 5 AC
direct	7867 Aug 24 22:35	20°Ω46'26		direct	7868 Aug 04 20:39	0° Ω 25'49	
morning max el	7867 Sep 07 11:51	27° Ω 23'49	23°55'21	morning max el	7868 Aug 19 00:46	7° Ω 39'12	25°36'39
morning max or	7867 Sep 10 01:21	0°m	25 55 21	morning max or	7868 Sep 04 13:17	0° m	23 3037
asc. node	7867 Sep 25 07:56	22° m 56'28		asc. node	7868 Sep 11 04:56	12° m/22'51	
	7867 Sep 28 22:07	0∘ ⊽		morning set	7868 Sep 15 08:13	20° m 55'41	
morning set	7867 Oct 01 20:47	6° ≏ 08'02			7868 Sep 19 12:29	0∘ ⊽	
					-		
superior conj	7867 Oct 08 18:57	21° ≏ 07'44	1°39'27	superior conj	7868 Sep 22 05:19	5° ≏ 57'36	1°31'29
minimum elong	7867 Oct 08 17:59	21° ഫ 02'32	1°39'28	minimum elong	7868 Sep 22 03:32	5° £ 47'44	1°31'19
max. Earth dist.	7867 Oct 11 02:33	26° ≏ 07'13	1.33050 AU	max. Earth dist.	7868 Sep 23 08:34	8° ≏ 27'32	1.32164 AU
	7867 Oct 12 22:31	0° M		evening rise	7868 Sep 29 06:39	21° ≏ 09'31	
evening rise	7867 Oct 16 06:30	6°M51'31			7868 Oct 03 16:12	0° M ₊	
	7867 Oct 28 22:01	0°⊀		desc. node	7868 Oct 16 02:54	21°M35'54	
desc. node	7867 Oct 30 05:49	2° ∡ 09'21			7868 Oct 21 23:46	0° ∡ ¹	
evening max el	7867 Nov 19 02:31	28° ₹ 05'14	27°26'16	evening max el	7868 Oct 31 11:41	10° ∡ 53'59	27°23'15
_	7867 Nov 21 05:36	0° ろ		retrograde	7868 Nov 14 07:04	18° ∡ *07'52	
retrograde	7867 Dec 02 17:25	5°る23'54		evening set	7868 Nov 21 09:48	15° x 45'35	0.60000 : *-
evening set	7867 Dec 09 17:30	2° ~3 49'53		min. Earth dist.	7868 Nov 25 01:53		0.62082 AU
min P d P :	7867 Dec 12 23:41	30°₹ ⋌ ¹	0.62062.433	inferior conj	7868 Nov 28 00:44	10° ₹ 09'26	
min. Earth dist.	7867 Dec 13 12:02		0.63962 AU	minimum elong	7868 Nov 28 06:45	9° × 755'32	5-11-41
inferior conj	7867 Dec 16 00:43	26° ₹ 52'12		morning rise	7868 Dec 05 05:48	5° ₹ 06'17	
minimum elong asc. node	7867 Dec 16 04:35	26° ₹ 42'10 21° ₹ 41'42	2 03 09	direct asc. node	7868 Dec 07 12:18	4° √ 43'37	
morning rise	7867 Dec 22 07:18 7867 Dec 22 17:20	21°×'41'42 21°×'30'48		asc. node morning max el	7868 Dec 08 04:21 7868 Dec 14 08:49	4° ₹ 45'38 8° ₹ 12'33	17°50'12
direct	7867 Dec 22 17:20 7867 Dec 25 04:14	21°×'30'48 21°×'00'47		morning max ei	7868 Dec 14 08:49 7868 Dec 28 14:13	8°×12'33 0°る	1/ 3014
morning max el	7867 Dec 31 16:14	24° 🖈 23'59	17°50'25	morning set	7868 Dec 30 04:27	0 0 2° る 51'13	
morning max or	7868 Jan 05 06:01	24 メ 23 39	1, 5025	morming set	7000 Dec 30 04.27	2 03113	
		- J					

superior conj	7869 Jan 10 05:56	22°る17'37	0°13'27		7869 Dec 04 06:58	0° ∡ 7	
minimum elong	7869 Jan 10 07:11	22° る 22'56	0°13'23	morning set	7869 Dec 13 14:38	16° ∡ 736′02	
behind sun begin	7869 Jan 10 02:21	22° ろ 02'20	0 13 23	morning set	7869 Dec 20 19:12	0°る	
behind sun end	7869 Jan 10 12:01	22° ප් 43'31			700) Bec 20 17.12	٥ ٠	
desc. node	7869 Jan 12 02:02	25° පි 24'11		superior conj	7869 Dec 23 05:17	4° る 23'24	0°48'34
dese. Hode	7869 Jan 14 20:14	0°≈		minimum elong	7869 Dec 23 08:34	4°₹38'07	
max. Earth dist.	7869 Jan 17 10:03	4°≈13'07	1.43367 AU	desc. node	7869 Dec 29 23:03	16° る 09'52	0 4014
evening rise	7869 Jan 24 16:20	15°≈46'05	1.43307 710	max. Earth dist.	7869 Dec 30 20:52	10 3 0792	1.41519 AU
evening rise	7869 Feb 03 00:42	0° ∀		evening rise	7870 Jan 04 22:21	26° る 03'10	1.11317110
evening max el	7869 Feb 24 22:59	29°) 19'29	21°37'39	evening rise	7870 Jan 07 09:30	0°≈	
evening max er	7869 Feb 25 15:18	0°Υ	21 3/3/		7870 Jan 27 19:37	0° ∀	
retrograde	7869 Mar 05 23:53	4° Υ 40'37		evening max el	7870 Feb 07 15:23		22°56'08
asc. node	7869 Mar 06 03:25	4° Υ 40'30		retrograde	7870 Feb 17 19:40	19° ¥ 02'36	22 30 00
evening set	7869 Mar 10 08:54	2°Υ55'20		asc. node	7870 Feb 21 00:29	18°) 11'11	
evening set	7869 Mar 13 04:08	2 1 33 20 30°R ∀		evening set	7870 Feb 21 00:29 7870 Feb 22 16:01	17° \ 02'25	
inferior conj	7869 Mar 15 16:25	26° ₩ 38'00	2°41'58	min. Earth dist.	7870 Feb 27 16:45	11° X 0223	0.68370 AU
minimum elong	7869 Mar 15 14:13	26°\(\frac{1}{45}\)'39	2°41'27	inferior conj	7870 Feb 27 10.43 7870 Feb 28 01:01	10° X 37'31	2°07'58
•		26° X 25'19		,		10 X 3/31 10° X 45'16	2°07'19
min. Earth dist.	7869 Mar 15 20:04		0.68275 AU	minimum elong	7870 Feb 27 22:47		2-0/19
morning rise	7869 Mar 20 19:24	20°\(\frac{1}{25}\)'41		morning rise	7870 Mar 05 05:27	4°) €29'46	
direct	7869 Mar 25 20:14	18°) 14′50	22052122	direct	7870 Mar 09 16:12	2°) (41'05	21027124
morning max el	7869 Apr 04 20:33	24°) 10′21	22°53'22	morning max el	7870 Mar 18 10:43	7°) (46′22	21°27'34
desc. node	7869 Apr 10 01:37	0° Υ 01'49		desc. node	7870 Mar 27 22:35	19°) 16′04	
	7869 Apr 10 01:02	0° Υ			7870 Apr 04 12:59	0° Υ	
	7869 May 01 04:37	0°8		morning set	7870 Apr 19 02:34	22° Y 10'44	
morning set	7869 May 09 05:58	12° 8 56'00			7870 Apr 23 23:27	0°8	
max. Earth dist.	7869 May 13 17:40	20° 8 29'46	1.39981 AU	max. Earth dist.	7870 Apr 25 18:33	2° 8 56'32	1.42108 AU
	7869 May 19 03:39	$\Pi^{\circ}0$					
				superior conj	7870 May 03 05:53	15° 8 33'22	
superior conj	7869 May 21 11:30	4° Ⅱ 12'53		minimum elong	7870 May 03 10:57	15° 8 55'14	2°00'27
minimum elong	7869 May 21 17:06		1°37'11		7870 May 11 09:21	Π $^{\circ}0$	
evening rise	7869 May 31 06:18	22° Ⅲ 36'31		evening rise	7870 May 14 09:36	5° Ⅱ 28'13	
asc. node	7869 Jun 02 02:28	26° Ⅱ 06'19		asc. node	7870 May 19 23:30	15° Ⅱ 31'37	
	7869 Jun 04 04:18	0 \circ			7870 May 29 12:13	0	
evening max el	7869 Jun 16 08:24	18° © 28'53	18°29'14	evening max el	7870 May 30 18:28	1° © 20'09	18°08'39
retrograde	7869 Jun 24 00:30	22° © 18'10		retrograde	7870 Jun 06 14:04	4° © 47'34	
evening set	7869 Jun 26 04:25	22° © 00'51		evening set	7870 Jun 09 01:29	4° 5 20'38	
inferior conj	7869 Jul 03 19:16	17° © 29'53	0°56'50		7870 Jun 15 08:49	30°RⅡ	
minimum elong	7869 Jul 03 21:14	17° 5 26'01	0°56'01	inferior conj	7870 Jun 15 22:08	29° Ⅱ 29'31	2°09'42
min. Earth dist.	7869 Jul 07 03:56	14° © 51'30	0.57987 AU	minimum elong	7870 Jun 16 01:14	29° Ⅲ 22'21	2°08'42
desc. node	7869 Jul 07 01:00	14° © 57'01		min. Earth dist.	7870 Jun 19 05:40	26° Ⅲ 27'45	0.60178 AU
morning rise	7869 Jul 11 10:37	12° © 07'22		morning rise	7870 Jun 22 22:13	23° Ⅲ 39'39	
direct	7869 Jul 17 09:01	10° © 36'56		desc. node	7870 Jun 23 22:01	23° Ⅲ 05′20	
morning max el	7869 Jul 31 18:26	18° © 16'27	26°57'13	direct	7870 Jun 29 10:35	21° Ⅲ 37′03	
	7869 Aug 10 14:07	$0^{\circ}\Omega$		morning max el	7870 Jul 13 18:47	29° Ⅲ 32'58	27°44'43
	7869 Aug 28 01:03	O° Mp			7870 Jul 14 05:36	0 \circ \odot	
asc. node	7869 Aug 29 01:53	2° m 07'14			7870 Aug 04 13:22	$\mathfrak{O}^{\circ}\mathfrak{O}$	
morning set	7869 Aug 30 17:44	5° m 35'30		morning set	7870 Aug 14 23:37	20° Ω 02'25	
				asc. node	7870 Aug 15 22:51	22° Ω 04'01	
superior conj	7869 Sep 06 17:04	20° Mp 48'40	1°18'12		7870 Aug 19 15:27	0° ™	
minimum elong	7869 Sep 06 14:51	20° Mp 36'23	1°17'51	max. Earth dist.	7870 Aug 21 04:21	3° Tp 22'33	1.31749 AU
max. Earth dist.	7869 Sep 06 18:22	20° m 55'52	1.31730 AU				
	7869 Sep 10 21:03	0∘ ⊽		superior conj	7870 Aug 22 04:26	5° Mp 35'26	1°00'02
evening rise	7869 Sep 13 12:44	5° £ 42'27		minimum elong	7870 Aug 22 02:15	5° Mp 23′25	0°59'36
-	7869 Sep 26 06:57	0° M		evening rise	7870 Aug 28 22:32	20° m 23'59	
desc. node	7869 Oct 02 23:58	10°M20'24		•	7870 Sep 02 13:51	0∘ ⊽	
evening max el	7869 Oct 13 14:51	22°M57'42	26°46'32	desc. node	7870 Sep 19 21:02	28° ≏ 06'18	
Ç	7869 Oct 25 22:20	0° ∡ ¹			7870 Sep 21 11:02	0°M	
retrograde	7869 Oct 27 12:39	0° ∡ 106'25		evening max el	7870 Sep 25 10:15	4° M 11'21	25°37'47
<u> </u>	7869 Oct 29 02:38	30°RM		retrograde	7870 Oct 09 08:36	11°M14'28	
evening set	7869 Nov 03 09:11	28°ML06'54		evening set	7870 Oct 15 10:48	9°M47'51	
min. Earth dist.	7869 Nov 07 04:51	25°M30'19	0.60017 AU	min. Earth dist.	7870 Oct 19 22:33	7°M10'51	0.57963 AU
inferior conj	7869 Nov 10 09:38	22°M55'38		inferior conj	7870 Oct 17 22:33	5°M01'58	
minimum elong	7869 Nov 10 16:48	22°M41'08	4°17'39	minimum elong	7870 Oct 23 05:43		5°10'35
morning rise	7869 Nov 18 02:47	18°M13'57	, .,	morning rise	7870 Oct 23 03:43 7870 Oct 31 02:58	0°M43'00	5 10 55
direct	7869 Nov 20 08:14	17°ML55'25		direct	7870 Oct 31 02:38 7870 Nov 02 11:43	0°M25'37	
asc. node	7869 Nov 25 01:22	17 IIC33 23 19°IIC33'01		morning max el	7870 Nov 11 02:18	4°M33'37	18048138
morning max el	7869 Nov 27 21:23	21°M39'04	18°09'05	asc. node	7870 Nov 11 02:18	5°M23'55	10 40 20
morning max ci	10071101 21 21.23	21 IIVJ7U4	10 0703	use. Houe	1010140V 11 22.22	J 1104333	

morning set	7870 Nov 27 11:30 7870 Nov 27 01:17	0° ⊀ ¹49'57 0° ⊀ ¹		morning set	7871 Nov 11 15:33 7871 Nov 18 20:34	15° ™ 22'56 0° ⊀	
superior conj	7870 Dec 06 00:34	17° ∡ ¹25'51	1°14'24	superior conj	7871 Nov 19 10:42	1° ∡ 10′25	1°31'12
minimum elong	7870 Dec 06 03:53		1°14'08	minimum elong	7871 Nov 19 13:01	1°×721'56	1°31'08
	7870 Dec 12 20:57	0°る		max. Earth dist.	7871 Nov 25 08:57	12° ₹ 37'53	1.37266 AU
max. Earth dist.	7870 Dec 13 03:10	0° る 27'31	1.39403 AU	evening rise	7871 Nov 29 03:10	19° ∡ ³31'04	
desc. node	7870 Dec 16 20:04	6° ප 53'13		desc. node	7871 Dec 03 17:06	27° ∡ ³30'14	
evening rise	7870 Dec 17 02:06	7° る 18'50			7871 Dec 05 04:43	5°0	
	7870 Dec 31 09:40	0° ≈			7871 Dec 25 12:38	0° ≈	
evening max el	7871 Jan 21 05:13	26° ≈ 45'14	24°16'04	evening max el	7872 Jan 03 18:23	10° ≈ 32'50	25°30'35
	7871 Jan 24 20:17	0° ∀		retrograde	7872 Jan 15 23:46	17° ≈ 34'29	
retrograde	7871 Feb 01 11:59	3°) 22′15		evening set	7872 Jan 21 21:21	15° ≈ 08'29	
evening set	7871 Feb 06 20:42	1°) €08'09		asc. node	7872 Jan 25 18:36	10° ≈ 58′28	
asc. node	7871 Feb 07 21:32	0°) 10′26		min. Earth dist.	7872 Jan 26 06:30	10° ≈ 21′00	0.67379 AU
	7871 Feb 08 01:38	30° R ≈		inferior conj	7872 Jan 27 13:27	8° ≈ 41'41	0°35'27
min. Earth dist.	7871 Feb 11 13:00	25° ≈ 46′03	0.68066 AU	minimum elong	7872 Jan 27 12:34	8° ≈ 44'30	0°35'11
inferior conj	7871 Feb 12 08:38	24° ≈ 39′52	1°25'38	morning rise	7872 Feb 02 04:10	2° ≈ 48′09	
minimum elong	7871 Feb 12 06:49	24° ≈ 46′00	1°25'02	direct	7872 Feb 05 13:41	1° ≈ 41'49	
morning rise	7871 Feb 17 17:01	18° ≈ 38'14		morning max el	7872 Feb 12 13:12	5° ≈ 32'47	19°11'35
direct	7871 Feb 21 14:30	17° ≈ 11'40		greatest brilliancy	7872 Feb 25 21:16	23° ≈ 22′10	-0.7m
morning max el	7871 Mar 01 07:58	21° ≈ 34′01	20°12'22	desc. node	7872 Feb 29 16:32	29° ≈ 09'03	
	7871 Mar 08 09:24	0° ∀			7872 Mar 01 05:50	0° ∀	
desc. node	7871 Mar 14 19:33	9° ∺ 01'17		morning set	7872 Mar 07 03:33	9° ∺ 06'18	
	7871 Mar 28 18:06	0° Y		max. Earth dist.	7872 Mar 20 17:47	0° Y 18′08	1.45036 AU
morning set	7871 Mar 29 02:26	0° Υ 32'10			7872 Mar 20 13:11	0° Y	
max. Earth dist.	7871 Apr 08 02:42	16° Ƴ 15'58	1.43866 AU			••	
				superior conj	7872 Mar 23 18:40	5° ℃ 06'01	
superior conj	7871 Apr 14 00:06	25° Y 49′24		minimum elong	7872 Mar 23 12:35	4° ℃ 41'55	2°03'47
minimum elong	7871 Apr 14 00:57	25° Y 52'54	2°11'28	evening rise	7872 Apr 07 07:37	28° Y 36'51	
	7871 Apr 16 12:41	0°8			7872 Apr 08 03:47	0° 8	
evening rise	7871 Apr 26 19:27	17° 8 30'38		asc. node	7872 Apr 22 17:36	23° 8 03'26	10024126
	7871 May 04 01:49	0°П 4°П33'03		evening max el	7872 Apr 26 20:26	27° 8 59'55 0° Ⅱ	18°24'26
asc. node	7871 May 06 20:32	4° Д 33'03	18°07'18	retrograde	7872 Apr 29 04:45	0°Щ 1°Щ28′11	
evening max el retrograde	7871 May 14 07:31	14° Д 32'37	18-0/18	Č	7872 May 03 06:52 7872 May 06 08:48	0° П 35'46	
evening set	7871 May 20 17:36 7871 May 23 12:23	17 П 33 44 17° П 14'46		evening set	7872 May 07 07:14	0 Д3346 30°R ठ	
inferior conj	7871 May 29 12:23	17 П 1440 12° П 04'16	2°55'25	inferior conj	7872 May 12 04:31	25° 8 07'14	3°18'44
minimum elong	7871 May 29 18:34 7871 May 29 21:03	12 H 04 10	2°54'49	minimum elong	7872 May 12 04:31 7872 May 12 05:43	25° 8 03'46	
min. Earth dist.	7871 Jun 01 15:47	9° П 03'37		min. Earth dist.	7872 May 12 03:43	22° 8 28'13	0.64415 AU
morning rise	7871 Jun 05 03:58	5° П 57'55	0.02400710	morning rise	7872 May 14 11:05	18° 8 52'37	0.04413710
desc. node	7871 Jun 10 19:03	3° П 33'07		direct	7872 May 24 18:41	16° 8 08'41	
direct	7871 Jun 11 22:30	3° ∏ 29'02		desc. node	7872 May 27 16:04	16° 8 35'27	
morning max el	7871 Jun 26 00:45	11° ∏ 31'21	27°54'09	morning max el	7872 Jun 07 10:15	24° 8 06'57	27°27'17
	7871 Jul 10 14:20	0°50		<i>S</i>	7872 Jun 12 17:01	0°Щ	
	7871 Jul 27 22:00	$0^{\circ}\Omega$			7872 Jul 02 23:39	0°©	
morning set	7871 Jul 29 23:46	4° Ω 09'06		morning set	7872 Jul 12 15:41	17° © 48'55	
asc. node	7871 Aug 02 19:50	12° Ω 07′28		max. Earth dist.	7872 Jul 17 09:27	27° © 23'31	1.33194 AU
max. Earth dist.	7871 Aug 04 10:34	15° Ω 34'38	1.32231 AU		7872 Jul 18 15:28	$0^{\circ}\Omega$	
				asc. node	7872 Jul 19 16:51	2° Ω 13'41	
superior conj	7871 Aug 06 13:32	20° Ω 10′58	0°37'25				
minimum elong	7871 Aug 06 11:55	20° Ω 02'07	0°37'00	superior conj	7872 Jul 20 18:29	4° Ω 29'48	0°10'52
	7871 Aug 11 01:14	0° ™		minimum elong	7872 Jul 20 17:56	4° Ω 26'55	0°10'38
evening rise	7871 Aug 13 10:01	5°M 06'51		behind sun begin	7872 Jul 20 13:50	4° Ω 05'01	
	7871 Aug 26 12:58	0∘ ⊽		behind sun end	7872 Jul 20 22:03	4° Ω 48'51	
desc. node	7871 Sep 06 18:05	14° ≏ 29'48		evening rise	7872 Jul 27 21:24	19° Ω 45'45	
evening max el	7871 Sep 06 23:05	14° ≏ 41'54	24°06'05		7872 Aug 01 21:16	0° ™	
retrograde	7871 Sep 20 16:21	21° △ 34'32		evening max el	7872 Aug 18 11:33	24° m 55'34	22°26'56
evening set	7871 Sep 25 11:39	20° Ω 43'46		desc. node	7872 Aug 23 15:10	29° Mp 01'05	
min. Earth dist.	7871 Oct 01 09:50		0.56191 AU		7872 Aug 25 11:03	0∘ ⊽	
inferior conj	7871 Oct 03 18:18	16° Ω 21'07		retrograde	7872 Aug 31 11:38	1° Ω 24'18	
minimum elong	7871 Oct 03 18:13	16° £ 21'16	5°32'50	evening set	7872 Sep 03 18:47	1° ⊆ 00'23	
morning rise	7871 Oct 12 02:55	12° £ 22'25		t material	7872 Sep 06 19:54	30°₹ M)	0.55010.433
direct	7871 Oct 14 20:09	12° Ω 03'13	10050124	min. Earth dist.	7872 Sep 11 18:16	27° Mp 30'06	0.55019 AU
morning max el	7871 Oct 24 20:06	16° £ 45'27	19°50'24	inferior conj	7872 Sep 12 18:43	26° Mp 55'34	
asc. node	7871 Oct 29 19:22	22° Ω 32'50		minimum elong	7872 Sep 12 11:28	27° Mp 05'51	5°04'19
	7871 Nov 03 14:06	0° M .		morning rise	7872 Sep 21 05:57	23°M 07'29	

direct	7872 Sep 24 11:35	22° m 43'48		minimum elong	7873 Aug 23 02:00	7° m 19'01	3°41'35
morning max el	7872 Oct 06 00:58	28° m 08'45	21°14'04	min. Earth dist.	7873 Aug 24 03:27	6° m) 42'57	0.54708 AU
S	7872 Oct 07 21:18	0∘ <u>⊽</u>		morning rise	7873 Aug 31 23:07	3° m)09'01	
asc. node	7872 Oct 15 16:23	10° ≏ 34'58		direct	7873 Sep 04 19:35	2°m/37'14	
	7872 Oct 25 22:43	0° M .		morning max el	7873 Sep 17 18:56	8° m 49'07	22°54'33
morning set	7872 Oct 26 00:09	0°M07'30		asc. node	7873 Oct 02 13:24	29° m 17'46	
					7873 Oct 02 22:41	0∘ ⊽	
superior conj	7872 Nov 02 07:29	15°M25'11	1°39'53	morning set	7873 Oct 10 11:15	14° ≏ 57'46	
minimum elong	7872 Nov 02 08:27	15°M30'13	1°39'56				
max. Earth dist.	7872 Nov 06 19:20	24°M32'41	1.35331 AU	superior conj	7873 Oct 17 11:35	0°M00'23	1°41'27
	7872 Nov 09 14:26	0°⊀		minimum elong	7873 Oct 17 11:15	29° ≏ 58'40	1°41'30
evening rise	7872 Nov 10 22:13	2° ≯ 31′08			7873 Oct 17 11:31	0° M	
desc. node	7872 Nov 19 14:08	17° ∡ 756'14		max. Earth dist.	7873 Oct 20 13:25	6° ™ 30'47	1.33752 AU
	7872 Nov 27 04:05	0° ප		evening rise	7873 Oct 25 07:21	16°M09'16	
evening max el	7872 Dec 16 07:37	24° る 17'18	26°32'16		7873 Nov 01 17:07	0° ∡	
	7872 Dec 23 18:15	0° ≈		desc. node	7873 Nov 06 11:11	8° ∡ '05'39	
retrograde	7872 Dec 29 06:13	1° ≈ 32'46			7873 Nov 21 17:05	0°る	
	7873 Jan 03 06:07	30°Rる		evening max el	7873 Nov 28 20:28	7° る 49'32	27°13'56
evening set	7873 Jan 04 16:10	28° ろ 58'22		retrograde	7873 Dec 12 06:52	15° る 09'43	
min. Earth dist.	7873 Jan 08 18:53	24°₹45'48	0.66327 AU	evening set	7873 Dec 19 02:59	12° る 32'55	
inferior conj	7873 Jan 10 13:26	22° る 38'24		min. Earth dist.	7873 Dec 23 00:00	8° る 54'22	
minimum elong	7873 Jan 10 14:02	22° る 36'35	0°21'42	inferior conj	7873 Dec 25 06:18	6° る 25'20	
asc. node	7873 Jan 11 15:42	21° る 20'35		minimum elong	7873 Dec 25 08:53	6°る18'15	1°24'41
morning rise	7873 Jan 16 12:45	16° පි 55'19		asc. node	7873 Dec 29 12:45	2°る14'57	
direct	7873 Jan 19 11:53	16° පි 06'06		morning rise	7873 Dec 31 16:11	0°る55'26	
morning max el	7873 Jan 26 01:08	19° る 37'56	18°26'48	direct	7874 Jan 03 06:51	0°る19'36	17050145
	7873 Feb 03 02:07	0°≈		morning max el	7874 Jan 09 17:18	3°₹43'11	17°58'45
morning set	7873 Feb 15 03:31	18°≈52'53		morning set	7874 Jan 27 09:06	0°≈07'44	
desc. node	7873 Feb 15 13:30	19°≈32'35		1 1	7874 Jan 27 07:14	0°≈	
	7873 Feb 22 03:49	0° ∀		desc. node	7874 Feb 02 10:30	10° ≈ 07'27	
superior conj	7873 Mar 02 23:40	13° ¥ 52'01	-1°36'44	superior conj	7874 Feb 10 10:17	23° ≈ 00'53	-0°55'19
minimum elong	7873 Mar 02 14:03	13°) 14′22	1°35'44	minimum elong	7874 Feb 10 03:50	22° ≈ 35'12	0°54'22
max. Earth dist.	7873 Mar 03 12:53	14°)(43'48	1.45495 AU	max. Earth dist.	7874 Feb 14 08:28	29° ≈ 13'22	1.45208 AU
	7873 Mar 13 06:42	$0^{\circ}\mathbf{\Upsilon}$			7874 Feb 14 20:19	0°) €	
evening rise	7873 Mar 18 20:16	8° Y 46'09		evening rise	7874 Feb 26 13:58	18°) 14′07	
greatest brilliancy	7873 Mar 28 12:45	24° Y 01'11	-0.8m		7874 Mar 06 06:17	0° Y	
	7873 Apr 01 10:41	9° 8		greatest brilliancy	7874 Mar 12 18:13	9° Y 45'10	-0.6m
asc. node	7873 Apr 09 14:42	10° 8 52'14		evening max el	7874 Mar 24 12:08	25° Y 10'26	19°50'31
evening max el	7873 Apr 10 06:36	11° 8 33'46	18°59'19	asc. node	7874 Mar 27 11:47	27° Y '47'04	
retrograde	7873 Apr 17 02:03	15° 8 22'17		retrograde	7874 Apr 01 00:05	29° Y 29'52	
evening set	7873 Apr 20 11:23	14° 8 15'41		evening set	7874 Apr 04 17:36	28° Y 08'37	
inferior conj	7873 Apr 26 00:13	8° 8 30'47	3°24'35	inferior conj	7874 Apr 10 02:33	22° Y 09'18	3°16'40
minimum elong	7873 Apr 26 00:04	8° 8 31'18	3°24'30	minimum elong	7874 Apr 10 01:18	22° Y 13'29	3°16'29
min. Earth dist.	7873 Apr 27 15:23	6° 8 26'51	0.66054 AU	min. Earth dist.	7874 Apr 11 03:02	20° Ƴ 47'16	0.67262 AU
morning rise	7873 May 01 12:17	2° 8 13'14		morning rise	7874 Apr 15 08:42	15° Y 52'08	
	7873 May 04 23:44	30° ₹ Υ		direct	7874 Apr 21 06:59	13° Y 13′21	
direct	7873 May 07 21:48	29° Y 26′30		desc. node	7874 May 01 10:04	18° Ƴ 36'38	
	7873 May 11 00:18	0° 8		morning max el	7874 May 03 06:24	20° Y 24'02	25°13'03
desc. node	7873 May 14 13:04	1° 8 47'13			7874 May 11 12:08	0°8	
morning max el	7873 May 20 20:46	7° 8 08'29	26°30'35		7874 May 31 17:32	0°П	
	7873 Jun 07 13:27	0° I I		morning set	7874 Jun 08 08:33	13° Ⅱ 09'14	1.26500 444
	7873 Jun 25 08:47	0.2 0.2		max. Earth dist.	7874 Jun 12 00:01	19° Ⅱ 49'24	1.36508 AU
morning set	7873 Jun 25 20:04	0°952'56	1 24/24 ATT		7874 Jun 17 07:33	0ಂತಾ	
max. Earth dist.	7873 Jun 29 22:03	8° © 45'24	1.34634 AU	superior conj	7874 Jun 18 05:58	1° © 50'27	-0°50'16
superior conj	7873 Jul 04 16:55	18° © 25'33	-0°18'50	minimum elong	7874 Jun 18 09:00	2°905'24	
minimum elong	7873 Jul 04 17:59	18° 9 31'00	0°18'44	asc. node	7874 Jun 23 10:54	12°50324	J ., J1
asc. node	7873 Jul 04 17:53	22° © 18'43	3 20 11	evening rise	7874 Jun 26 11:32	18° 5 27'06	
300. 11000	7873 Jul 10 05:54	0°Ω			7874 Jul 02 09:10	0°Ω	
evening rise	7873 Jul 10 05:54 7873 Jul 12 06:40	4° Ω 14'46		evening max el	7874 Jul 13 18:13	16° Ω 41'48	19°42'52
	7873 Jul 26 16:19	0°m)		retrograde	7874 Jul 23 17:10	21° Ω 36'13	
evening max el	7873 Jul 31 08:21	5° Mp 28'04	20°56'06	evening set	7874 Jul 25 13:41	21° Ω 26'44	
desc. node	7873 Aug 10 12:13	11° m) 08'54		desc. node	7874 Jul 28 09:17	20° Ω 39'05	
retrograde	7873 Aug 12 00:14	11° mp 14'28		inferior conj	7874 Aug 03 10:31	17° Ω 24'08	-1°50'37
evening set	7873 Aug 14 05:07	11° mp 02'55		minimum elong	7874 Aug 03 05:27	17° Ω 32'01	
inferior conj	7873 Aug 23 11:16	7° m 05'53	-3°44'21	min. Earth dist.	7874 Aug 05 15:26		0.55364 AU
,	5	,			<i>5</i>		-

	7074 4 11 10 02	120 0 5012 4			7075 X 1 15 02 55	200617117	0001145
morning rise	7874 Aug 11 19:03	12° Ω 58'34		minimum elong	7875 Jul 15 03:55	28°916'17	0°01'45
direct	7874 Aug 16 10:12	12°Ω10'58	24040102	transit middle	7875 Jul 15 03:55	28°516'17	0°01'45
morning max el	7874 Aug 30 07:45	19° Ω 05'45	24°40'03	transit begin	7875 Jul 15 00:13	28° © 22'56	
	7874 Sep 08 11:21	0° ™		transit end	7875 Jul 15 07:36	28° © 09'37	
asc. node	7874 Sep 19 10:23	18° Tp 30'25		desc. node	7875 Jul 15 06:20	28° © 11'55	
morning set	7874 Sep 24 23:00	29° m 47'24		min. Earth dist.	7875 Jul 18 07:15	26° © 01'21	0.56863 AU
	7874 Sep 25 01:22	0∘ ত		morning rise	7875 Jul 23 02:58	23°©14'07	
				direct	7875 Jul 28 14:57	22° © 01'06	
superior conj	7874 Oct 01 20:17	14° ≏ 46'49	1°36'46	morning max el	7875 Aug 11 22:07	29° © 27'22	26°14'14
minimum elong	7874 Oct 01 18:56	14° ≏ 39'23	1°36'42		7875 Aug 12 11:28	0 $^{\circ}$ Ω	
max. Earth dist.	7874 Oct 03 15:24	18° ≏ 41′26	1.32609 AU		7875 Sep 02 04:02	0° m)	
	7874 Oct 08 23:56	0° M		asc. node	7875 Sep 06 07:22	8° m 05'08	
evening rise	7874 Oct 09 02:52	0° ጤ 14'56		morning set	7875 Sep 09 09:47	14° m y 31'58	
desc. node	7874 Oct 24 08:14	27° M 50'17					
	7874 Oct 25 17:31	0° ∡ ¹		superior conj	7875 Sep 16 07:28	29° m 37'50	1°26'28
evening max el	7874 Nov 11 07:33	20° ∡ 57′21	27°28'56	minimum elong	7875 Sep 16 05:26	29° Mp 26'38	1°26'14
retrograde	7874 Nov 25 01:03	28° ∡ 15'14		-	7875 Sep 16 11:28	0∘ ত	
evening set	7874 Dec 02 03:01	25° ∡ ¹44'42		max. Earth dist.	7875 Sep 16 23:17	1° ≏ 05'20	1.31924 AU
min. Earth dist.	7874 Dec 05 19:55	22° ∡ ³36'48	0.63190 AU	evening rise	7875 Sep 23 05:50	14° £ 40'09	
inferior conj	7874 Dec 08 13:19	19° ∡ ¹55'18		8	7875 Oct 01 00:12	0° M .	
minimum elong	7874 Dec 08 18:08	19° х 43′22		desc. node	7875 Oct 11 05:16	17° M L00'14	
morning rise	7874 Dec 15 11:12	14° × 741'28			7875 Oct 21 05:11	0° ∡ 7	
asc. node	7874 Dec 16 09:47	14°×724'43		evening max el	7875 Oct 24 14:35	3° ₹ ¹28'18	27°11'52
direct	7874 Dec 17 19:45	14°×715'08		retrograde	7875 Nov 07 11:32	10° × 39'58	27 1132
morning max el	7874 Dec 24 10:37	17° 🗷 39'57	17°48'05	evening set	7875 Nov 14 12:39	8° ×726'20	
morning max ci	7875 Jan 02 07:58	0°る	17 40 03	min. Earth dist.	7875 Nov 14 12:39 7875 Nov 18 05:21	5° х 41′33	0.61214 AU
marning sat		0 る 12° る 36'15					
morning set	7875 Jan 09 16:11			inferior conj	7875 Nov 21 07:19	3°×700'13	
	7875 Jan 19 19:41	0° ≈		minimum elong	7875 Nov 21 14:01	2° ∡ 745'32	3-40-29
desc. node	7875 Jan 20 07:28	0° ≈ 49'14			7875 Nov 25 00:32	30°RM	
				morning rise	7875 Nov 28 17:39	28°M05'36	
superior conj	7875 Jan 21 18:06	3°≈13'04		direct	7875 Nov 30 23:08	27°M45'08	
minimum elong	7875 Jan 21 17:00	3° ≈ 08'32	0°10'13	asc. node	7875 Dec 03 06:49	28°ML08'11	
behind sun begin	7875 Jan 21 09:41	2° ≈ 38'13			7875 Dec 06 13:57	0° ∡ 7	
behind sun end	7875 Jan 22 00:19	3° ≈ 38'48		morning max el	7875 Dec 08 01:51	1° ≯ 19'38	17°55'45
max. Earth dist.	7875 Jan 28 01:56	13° ≈ 30'35	1.44214 AU	morning set	7875 Dec 23 18:10	25° ₹ ¹58'10	
evening rise	7875 Feb 06 00:59	27° ≈ 33'48			7875 Dec 25 23:05	0°ಕ	
	7875 Feb 07 15:04	0° ∀					
	7875 Feb 28 04:14	0 ° Υ		superior conj	7876 Jan 03 03:38	14° る 38'55	0°29'27
evening max el	7875 Mar 07 12:14	8° Y 48'56	20°55'33	minimum elong	7876 Jan 03 06:03	14° る 49'25	0°29'12
asc. node	7875 Mar 14 08:50	13° Ƴ 33'47		desc. node	7876 Jan 07 04:26	21° る 34'14	
retrograde	7875 Mar 15 22:33	13° Ƴ 46'31		max. Earth dist.	7876 Jan 10 15:39	27° る 21'21	1.42631 AU
evening set	7875 Mar 20 01:29	12° Y 10′15			7876 Jan 12 06:23	0° ≈	
inferior conj	7875 Mar 25 08:57	5° Ƴ 58'50	2°57'30	evening rise	7876 Jan 16 20:46	7° ≈ 22'31	
minimum elong	7875 Mar 25 06:59	6° Ƴ 05'39	2°57'07		7876 Jan 31 20:28	0°) €	
min. Earth dist.	7875 Mar 25 19:57	5° Y 20′50	0.68029 AU	evening max el	7876 Feb 18 07:12	22°) €29'07	22°10'33
	7875 Mar 30 05:25	30° Ŗ ₩		retrograde	7876 Feb 27 19:38	28° ∺ 07'39	
morning rise	7875 Mar 30 12:16	29° ¥ 44'12		asc. node	7876 Feb 29 05:53	27° ¥ 57'15	
direct	7875 Apr 04 21:15	27° ¥ 21′26		evening set	7876 Mar 03 09:18	26° ₩ 16'10	
	7875 Apr 11 08:53	$0^{\circ}\mathbf{\Upsilon}$		inferior conj	7876 Mar 08 17:17	19° ¥ 55'24	2°28'38
morning max el	7875 Apr 15 15:25	3° Y 46'46	23°44'53	minimum elong	7876 Mar 08 15:01	20°) €03'19	2°28'02
desc. node	7875 Apr 18 07:04	6° Ƴ 37'16		min. Earth dist.	7876 Mar 08 15:50	20°) €00'26	0.68368 AU
	7875 May 05 17:03	0°8		morning rise	7876 Mar 13 20:33	13°) (44′51	
morning set	7875 May 20 23:41	24° 8 23'24		direct	7876 Mar 18 15:29	11°) 43′01	
morning sec	7875 May 24 05:31	0°II		morning max el	7876 Mar 28 02:31	17°) 16′24	22°15'52
max. Earth dist.	7875 May 24 19:58		1.38684 AU	desc. node	7876 Apr 04 04:02	25° H 28'46	22 13 32
max. Earth dist.	7075 Way 24 17.50	1 1103 33	1.50004710	dese. Hode	7876 Apr 07 14:10	0° Υ	
superior conj	7875 Jun 01 06:03	14° Ⅱ 35'57	1021110		7876 Apr 07 14:10	0°8	
minimum elong	7875 Jun 01 10:57	14 Ⅲ 5557 14° Ⅲ 59'04		morning set	7876 Apr 30 12:09	4° 8 21'18	
mmmum ciong	7875 Jun 01 10:37	14°Щ39'04 0°©	1 2043	•	-	12° 8 59'52	1.40921 AU
avanina rica				max. Earth dist.	7876 May 05 17:39	12 03932	1.40921 AU
evening rise	7875 Jun 10 09:18	2°515'29		aumoni '	7076 M 12 12 20	260 - 20120	1040125
asc. node	7875 Jun 10 07:54	2°508'40	10050112	superior conj	7876 May 13 12:38	26° 8 30'30	
evening max el	7875 Jun 26 16:21	28°5540'11	18°50'13	minimum elong	7876 May 13 18:21	26° 8 56'01	1~48'0'/
	7875 Jun 28 03:47	0° N			7876 May 15 11:15	0°II	
retrograde	7875 Jul 05 01:22	2° Ω 48'44		evening rise	7876 May 23 20:29	15° Ⅱ 30′21	
evening set	7875 Jul 07 01:27	2° Ω 35'25		asc. node	7876 May 27 04:55	21° Ⅱ 44'19	
	7875 Jul 12 16:05	30°₹∽			7876 May 31 20:23	0°©	
inferior conj	7875 Jul 15 03:50	28° © 16'25	0°01'53	evening max el	7876 Jun 08 23:08	11° © 14'30	18°18'04

	7876 Jun 16 04:51	14° © 52'10		avaning sat	7877 Jun 01 15:43	27° Ⅱ 06'42	
retrograde evening set	7876 Jun 18 12:07	14°930'59		evening set inferior conj	7877 Jun 01 15:43	27 H 0042 22° H 06'48	2°32'10
inferior conj	7876 Jun 25 18:49	9° 9 51'17	1°31'18	minimum elong	7877 Jun 08 08:39	21° I I59'28	2°31'18
minimum elong	7876 Jun 25 21:33	9° 5 45'29	1°30'16	min. Earth dist.	7877 Jun 11 09:27	19° ∏ 02'55	0.61145 AU
min. Earth dist.	7876 Jun 29 04:27	7° © 00'13	0.58904 AU	morning rise	7877 Jun 14 23:19	16° ∏ 08'38	0.01110110
desc. node	7876 Jul 01 03:24	5°932'00	0.00,0.110	desc. node	7877 Jun 18 00:27	14° ∏ 33'26	
morning rise	7876 Jul 03 03:50	4°9316'11		direct	7877 Jun 21 15:08	13° ∏ 54'08	
direct	7876 Jul 09 09:15	2° © 31'52		morning max el	7877 Jul 05 21:25		27°53'27
morning max el	7876 Jul 23 18:20	10° © 18'37	27°21'54		7877 Jul 12 23:50	0.2e	
5 5	7876 Aug 07 23:11	$0^{\circ}\Omega$			7877 Aug 01 01:30	$0^{\circ}\Omega$	
asc. node	7876 Aug 23 04:20	27° Ω 54'58		morning set	7877 Aug 07 21:41	13° Ω 25′09	
morning set	7876 Aug 23 17:57	29° Ω 06′18		asc. node	7877 Aug 10 01:18	17° Ω 54'48	
C	7876 Aug 24 04:08	o° mp		max. Earth dist.	7877 Aug 13 18:45	25° Ω 56'45	1.31900 AU
		•			-		
superior conj	7876 Aug 30 19:14	14° m 27'13	1°11'03	superior conj	7877 Aug 15 05:52	29° Ω 09'24	0°50'57
minimum elong	7876 Aug 30 16:59	14° m 14'42	1°10'40	minimum elong	7877 Aug 15 03:52	28° Ω 58′22	0°50'30
max. Earth dist.	7876 Aug 30 09:41	13° m 34'11	1.31687 AU		7877 Aug 15 15:03	o° mp	
evening rise	7876 Sep 06 13:45	29° m 17'17		evening rise	7877 Aug 22 00:31	13° m 59'52	
	7876 Sep 06 21:47	0∘ ⊽			7877 Aug 29 23:25	0∘ 亚	
	7876 Sep 23 07:59	0° M.		desc. node	7877 Sep 13 23:25	22° ≏ 35'41	
desc. node	7876 Sep 27 02:20	5°M21'51		evening max el	7877 Sep 17 06:54	26° ഫ 03'55	25°00'42
evening max el	7876 Oct 05 14:49	15° M 11'24	26°20'56		7877 Sep 22 03:21	0° M	
retrograde	7876 Oct 19 12:55	22°M16'57		retrograde	7877 Oct 01 03:42	3°M03'35	
evening set	7876 Oct 26 03:20	20°M30'43		evening set	7877 Oct 06 18:27	1°M52'12	
min. Earth dist.	7876 Oct 30 04:06	17° M 56'12	0.59128 AU		7877 Oct 10 09:54	30° ₽ Ω	
inferior conj	7876 Nov 02 08:47	15°M30'41	-4°44'12	min. Earth dist.	7877 Oct 11 18:15	29° ≏ 09'43	0.57154 AU
minimum elong	7876 Nov 02 15:44	15° M .17'27	4°42'36	inferior conj	7877 Oct 14 14:40	27° ≏ 16'54	-5°25'29
morning rise	7876 Nov 10 06:25	10° ™ 58′20		minimum elong	7877 Oct 14 18:20	27° ≙ 10'48	5°25'05
direct	7876 Nov 12 12:49	10°M40'31		morning rise	7877 Oct 22 20:30	23° ჲ 07'33	
asc. node	7876 Nov 19 03:50	13°M22'35		direct	7877 Oct 25 08:26	22° ≙ 49'40	
morning max el	7876 Nov 20 11:32	14°M33'18	18°23'16	morning max el	7877 Nov 03 12:06	27° ≏ 10'32	19°12'15
	7876 Dec 01 01:59	0°⊀		asc. node	7877 Nov 06 00:51	29° ≏ 54'06	
morning set	7876 Dec 06 09:26	9° ∡ °57′08			7877 Nov 06 02:49	0°M₊	
		_		morning set	7877 Nov 20 09:45	24°M20'09	
superior conj	7876 Dec 15 12:06	27° ∡ 10'34	1°00'40		7877 Nov 23 05:55	0° ∡ ¹	
minimum elong	7876 Dec 15 15:35	27° ∡ ¹26'33	1°00'21				
	7876 Dec 17 01:13	ිට වංග		superior conj	7877 Nov 28 14:19	10° ∡ 32'40	1°22'35
max. Earth dist.	7876 Dec 17 01:13 7876 Dec 23 00:50	10° පි 34'06	1.40639 AU	minimum elong	7877 Nov 28 17:18	10° √ 47'02	1°22'24
desc. node	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26	10°පි34'06 12°පි19'14	1.40639 AU	minimum elong max. Earth dist.	7877 Nov 28 17:18 7877 Dec 05 06:35	10° ⊀ ¹47'02 23° ⊀ ¹03'46	
	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26 7876 Dec 27 11:48	10° පි34'06 12° පි19'14 18° පි04'13	1.40639 AU	minimum elong	7877 Nov 28 17:18 7877 Dec 05 06:35 7877 Dec 09 00:52	10° 尽 47'02 23° 尽 03'46 29° 尽 44'09	1°22'24
desc. node	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26 7876 Dec 27 11:48 7877 Jan 03 23:02	10°る34'06 12°る19'14 18°る04'13 0°≈	1.40639 AU	minimum elong max. Earth dist. evening rise	7877 Nov 28 17:18 7877 Dec 05 06:35 7877 Dec 09 00:52 7877 Dec 09 04:31	10°ダ47'02 23°ダ03'46 29°ダ44'09 0°る	1°22'24
desc. node evening rise	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26 7876 Dec 27 11:48 7877 Jan 03 23:02 7877 Jan 25 08:45	10°ට34'06 12°ට319'14 18°ට04'13 0°≈ 0°⊁		minimum elong max. Earth dist.	7877 Nov 28 17:18 7877 Dec 05 06:35 7877 Dec 09 00:52 7877 Dec 09 04:31 7877 Dec 10 22:26	10°メ47'02 23°メ03'46 29°メ44'09 0°る 3°る00'02	1°22'24
desc. node evening rise evening max el	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26 7876 Dec 27 11:48 7877 Jan 03 23:02 7877 Jan 25 08:45 7877 Jan 30 22:25	10°る34'06 12°る19'14 18°る04'13 0°≈ 0°升 6°升12'20		minimum elong max. Earth dist. evening rise desc. node	7877 Nov 28 17:18 7877 Dec 05 06:35 7877 Dec 09 00:52 7877 Dec 09 04:31 7877 Dec 10 22:26 7877 Dec 28 07:30	10° ₹47'02 23° ₹03'46 29° ₹44'09 0° ₹ 3° ₹500'02 0° ≈	1°22'24 1.38477 AU
desc. node evening rise evening max el retrograde	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26 7876 Dec 27 11:48 7877 Jan 03 23:02 7877 Jan 25 08:45 7877 Jan 30 22:25 7877 Feb 10 13:58	10°る34'06 12°る19'14 18°る04'13 0°≈ 0°升 6°升12'20 12°升29'41		minimum elong max. Earth dist. evening rise desc. node evening max el	7877 Nov 28 17:18 7877 Dec 05 06:35 7877 Dec 09 00:52 7877 Dec 09 04:31 7877 Dec 10 22:26 7877 Dec 28 07:30 7878 Jan 13 11:39	10° ₹47'02 23° ₹03'46 29° ₹44'09 0° ♂ 3° ♂00'02 0° ≈ 19° ≈57'54	1°22'24
desc. node evening rise evening max el retrograde asc. node	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26 7876 Dec 27 11:48 7877 Jan 03 23:02 7877 Jan 25 08:45 7877 Jan 30 22:25 7877 Feb 10 13:58 7877 Feb 15 02:57	10°る34'06 12°る19'14 18°る04'13 0°≈ 0°光 6°光12'20 12°光29'41 10°米48'41		minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	7877 Nov 28 17:18 7877 Dec 05 06:35 7877 Dec 09 00:52 7877 Dec 09 04:31 7877 Dec 10 22:26 7877 Dec 28 07:30 7878 Jan 13 11:39 7878 Jan 25 04:30	10° ₹47'02 23° ₹03'46 29° ₹44'09 0° ₹ 3° ₹00'02 0° ≈ 19° ≈57'54 26° ≈46'56	1°22'24 1.38477 AU
desc. node evening rise evening max el retrograde asc. node evening set	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26 7876 Dec 27 11:48 7877 Jan 03 23:02 7877 Jan 25 08:45 7877 Feb 10 13:58 7877 Feb 15 02:57 7877 Feb 15 15:36	10°る34'06 12°る19'14 18°る04'13 0°≈ 0°升 6°升12'20 12°升29'41 10°升48'41 10°升23'18	23°30'20	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	7877 Nov 28 17:18 7877 Dec 05 06:35 7877 Dec 09 00:52 7877 Dec 09 04:31 7877 Dec 10 22:26 7877 Dec 28 07:30 7878 Jan 13 11:39 7878 Jan 25 04:30 7878 Jan 30 18:48	10° ₹47'02 23° ₹03'46 29° ₹44'09 0° ₹ 3° ₹00'02 0° ≈ 19° ≈57'54 26° ≈46'56 24° ≈27'06	1°22'24 1.38477 AU
evening rise evening max el retrograde asc. node evening set min. Earth dist.	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26 7876 Dec 27 11:48 7877 Jan 03 23:02 7877 Jan 25 08:45 7877 Feb 10 13:58 7877 Feb 15 02:57 7877 Feb 15 15:36 7877 Feb 20 12:32	10°る34'06 12°る19'14 18°る04'13 0°≈ 0°光 6°光12'20 12°光29'41 10°光48'41 10°光23'18 4°光41'47	23°30'20 0.68293 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node	7877 Nov 28 17:18 7877 Dec 05 06:35 7877 Dec 09 00:52 7877 Dec 09 04:31 7877 Dec 10 22:26 7877 Dec 28 07:30 7878 Jan 13 11:39 7878 Jan 25 04:30 7878 Jan 30 18:48 7878 Feb 02 00:03	10° ₹47'02 23° ₹03'46 29° ₹44'09 0° ₹ 3° ₹00'02 0° ≈ 19° ≈57'54 26° ≈46'56 24° ≈27'06 22° ≈13'25	1°22'24 1.38477 AU 24°48'46
evening max el retrograde asc. node evening set min. Earth dist. inferior conj	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26 7876 Dec 27 11:48 7877 Jan 03 23:02 7877 Jan 25 08:45 7877 Feb 10 13:58 7877 Feb 15 02:57 7877 Feb 15 15:36 7877 Feb 20 12:32 7877 Feb 21 01:42	10°る34'06 12°る19'14 18°る04'13 0°≈ 0°米 6°升12'20 12°升29'41 10°升48'41 10°升23'18 4°升41'47 3°升56'40	23°30'20 0.68293 AU 1°51'03	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist.	7877 Nov 28 17:18 7877 Dec 05 06:35 7877 Dec 09 00:52 7877 Dec 09 04:31 7877 Dec 10 22:26 7877 Dec 28 07:30 7878 Jan 13 11:39 7878 Jan 25 04:30 7878 Jan 30 18:48 7878 Feb 02 00:03 7878 Feb 04 07:48	10° ₹47'02 23° ₹03'46 29° ₹44'09 0° ₹ 3° ₹00'02 0° ≈ 19° ≈57'54 26° ≈46'56 24° ≈27'06 22° ≈13'25 19° ≈19'56	1°22'24 1.38477 AU 24°48'46 0.67821 AU
evening rise evening max el retrograde asc. node evening set min. Earth dist.	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26 7876 Dec 27 11:48 7877 Jan 03 23:02 7877 Jan 25 08:45 7877 Jan 30 22:25 7877 Feb 10 13:58 7877 Feb 15 02:57 7877 Feb 15 15:36 7877 Feb 20 12:32 7877 Feb 21 01:42 7877 Feb 20 23:35	10°る34'06 12°る19'14 18°る04'13 0°≈ 0°米 6°米12'20 12°米29'41 10°米48'41 10°米23'18 4°米41'47 3°米56'40 4°米03'56	23°30'20 0.68293 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj	7877 Nov 28 17:18 7877 Dec 05 06:35 7877 Dec 09 00:52 7877 Dec 09 04:31 7877 Dec 10 22:26 7877 Dec 28 07:30 7878 Jan 13 11:39 7878 Jan 25 04:30 7878 Jan 30 18:48 7878 Feb 02 00:03 7878 Feb 04 07:48 7878 Feb 05 08:21	10° ₹47'02 23° ₹03'46 29° ₹44'09 0° ₹ 3° ₹00'02 0° ≈ 19° ≈57'54 26° ≈46'56 24° ≈27'06 22° ≈13'25 19° ≈19'56 17° ≈58'47	1°22'24 1.38477 AU 24°48'46 0.67821 AU 1°05'17
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26 7876 Dec 27 11:48 7877 Jan 03 23:02 7877 Jan 25 08:45 7877 Jan 30 22:25 7877 Feb 10 13:58 7877 Feb 15 02:57 7877 Feb 15 15:36 7877 Feb 20 12:32 7877 Feb 21 01:42 7877 Feb 20 23:35 7877 Feb 24 02:59	10°♂34'06 12°♂19'14 18°♂04'13 0°≈ 0°¥ 6°¥12'20 12°¥29'41 10°¥48'41 10°¥23'18 4°¥41'47 3°¥56'40 4°¥03'56	23°30'20 0.68293 AU 1°51'03	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	7877 Nov 28 17:18 7877 Dec 05 06:35 7877 Dec 09 00:52 7877 Dec 09 04:31 7877 Dec 10 22:26 7877 Dec 28 07:30 7878 Jan 13 11:39 7878 Jan 25 04:30 7878 Feb 02 00:03 7878 Feb 04 07:48 7878 Feb 05 08:21 7878 Feb 05 06:52	10° ₹47′02 23° ₹03′46 29° ₹44′09 0° ₹ 3° ₹00′02 0° ≈ 19° ≈57′54 26° ≈46′56 24° ≈27′06 22° ≈13′25 19° ≈19′56 17° ≈58′47 18° ≈03′41	1°22'24 1.38477 AU 24°48'46 0.67821 AU
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26 7876 Dec 27 11:48 7877 Jan 03 23:02 7877 Jan 25 08:45 7877 Feb 10 13:58 7877 Feb 15 02:57 7877 Feb 15 15:36 7877 Feb 20 12:32 7877 Feb 21 01:42 7877 Feb 20 23:35 7877 Feb 24 02:59 7877 Feb 26 07:31	10°る34'06 12°る19'14 18°る04'13 0°≈ 0°光 6°光12'20 12°光29'41 10°光48'41 10°光23'18 4°光41'47 3°米56'40 4°光03'56 30°R≈ 27°≈51'31	23°30'20 0.68293 AU 1°51'03	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	7877 Nov 28 17:18 7877 Dec 05 06:35 7877 Dec 09 00:52 7877 Dec 09 04:31 7877 Dec 10 22:26 7877 Dec 28 07:30 7878 Jan 13 11:39 7878 Jan 25 04:30 7878 Jan 30 18:48 7878 Feb 02 00:03 7878 Feb 04 07:48 7878 Feb 05 08:21 7878 Feb 05 06:52 7878 Feb 10 19:10	10° ₹47′02 23° ₹03′46 29° ₹44′09 0° ₹5 3° ₹00′02 0° ≈ 19° ≈57′54 26° ≈46′56 24° ≈27′06 22° ≈13′25 19° ≈19′56 17° ≈58′47 18° ≈03′41 12° ≈00′36	1°22'24 1.38477 AU 24°48'46 0.67821 AU 1°05'17
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26 7876 Dec 27 11:48 7877 Jan 03 23:02 7877 Jan 25 08:45 7877 Feb 10 13:58 7877 Feb 15 02:57 7877 Feb 20 12:32 7877 Feb 21 01:42 7877 Feb 20 23:35 7877 Feb 24 02:59 7877 Feb 26 07:31 7877 Mar 02 12:35	10°る34'06 12°る19'14 18°る04'13 0°≈ 0°升 6°升12'20 12°升29'41 10°升48'41 10°升23'18 4°升41'47 3°升56'40 4°升03'56 30°R≈ 27°≈51'31 26°≈12'20	23°30'20 0.68293 AU 1°51'03	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	7877 Nov 28 17:18 7877 Dec 05 06:35 7877 Dec 09 00:52 7877 Dec 09 04:31 7877 Dec 10 22:26 7877 Dec 28 07:30 7878 Jan 13 11:39 7878 Jan 25 04:30 7878 Jan 30 18:48 7878 Feb 02 00:03 7878 Feb 04 07:48 7878 Feb 05 08:21 7878 Feb 05 06:52 7878 Feb 10 19:10 7878 Feb 14 11:21	10° 🗷 47'02 23° 🗷 03'46 29° 🗷 44'09 0° 云 3° 云 00'02 0° ≈ 19° ≈ 57'54 26° ≈ 46'56 24° ≈ 27'06 22° ≈ 13'25 19° ≈ 19'56 17° ≈ 58'47 18° ≈ 03'41 12° ≈ 00'36 10° ≈ 43'08	1°22'24 1.38477 AU 24°48'46 0.67821 AU 1°05'17 1°04'48
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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.	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26 7876 Dec 27 11:48 7877 Jan 03 23:02 7877 Jan 25 08:45 7877 Feb 10 13:58 7877 Feb 15 02:57 7877 Feb 15 15:36 7877 Feb 20 12:32 7877 Feb 20 12:32 7877 Feb 20 23:35 7877 Feb 24 02:59 7877 Feb 26 07:31 7877 Mar 02 12:35 7877 Mar 09 19:31 7877 Mar 10 19:30 7877 Mar 10 19:30 7877 Apr 01 08:30 7877 Apr 09 22:14 7877 Apr 17 22:14 7877 Apr 20 10:41	10°♂34'06 12°♂19'14 18°♂04'13 0°≈ 0°ℋ 6°ℋ12'20 12°ℋ29'41 10°ℋ48'41 10°ℋ23'18 4°ℋ41'47 3°ℋ56'40 4°ℋ03'56 30°R≈ 27°≈51'31 26°≈12'20 0°ℋ 0°ℋ57'30 14°ℋ57'27 0°℉ 13°℉08'13 25°℉52'36 0°℧	23°30'20 0.68293 AU 1°51'03 1°50'22 20°54'05 1.42925 AU -2°07'06	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj	7877 Nov 28 17:18 7877 Dec 05 06:35 7877 Dec 09 00:52 7877 Dec 09 04:31 7877 Dec 10 22:26 7877 Dec 28 07:30 7878 Jan 13 11:39 7878 Jan 25 04:30 7878 Feb 02 00:03 7878 Feb 04 07:48 7878 Feb 05 08:21 7878 Feb 05 06:52 7878 Feb 10 19:10 7878 Feb 11 11:21 7878 Feb 12 120:19 7878 Mar 05 14:30 7878 Mar 06 15:22 7878 Mar 08 21:58 7878 Mar 19 19:30 7878 Mar 25 08:08 7878 Mar 31 09:42	10° ₹47′02 23° ₹03′46 29° ₹44′09 0° ₹ 3° ₹00′02 0° ≈ 19° ≈57′54 26° ≈46′56 24° ≈27′06 22° ≈13′25 19° ≈19′56 17° ≈58′47 18° ≈03′41 12° ≈00′36 10° ≈43′08 14° ≈50′35 0° ¥ 1° ¥30′50 4° ¥52′44 21° ¥26′06 0° ♀ 9° ♀32′28	1°22'24 1.38477 AU 24°48'46 0.67821 AU 1°05'17 1°04'48 19°44'42 -0.6m 1.44442 AU -2°10'46
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.	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26 7876 Dec 27 11:48 7877 Jan 03 23:02 7877 Jan 25 08:45 7877 Feb 10 13:58 7877 Feb 15 02:57 7877 Feb 20 12:32 7877 Feb 20 12:32 7877 Feb 20 23:35 7877 Feb 24 02:59 7877 Feb 26 07:31 7877 Mar 02 12:35 7877 Mar 09 19:31 7877 Mar 10 19:30 7877 Apr 01 08:30 7877 Apr 09 22:14 7877 Apr 17 22:14 7877 Apr 24 21:08 7877 Apr 25 00:55	10°♂34'06 12°♂19'14 18°♂04'13 0°≈ 0°ℋ 6°ℋ12'20 12°ℋ29'41 10°ℋ48'41 10°ℋ23'18 4°ℋ41'47 3°ℋ56'40 4°ℋ03'56 30°ℝ≈ 27°≈51'31 26°≈12'20 0°ℋ 0°ℋ57'30 14°ℋ57'27 0°℉ 13°℉82'36 0°℧ 7°℧24'24 7°℧40'23	23°30'20 0.68293 AU 1°51'03 1°50'22 20°54'05 1.42925 AU -2°07'06	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj	7877 Nov 28 17:18 7877 Dec 05 06:35 7877 Dec 09 00:52 7877 Dec 09 04:31 7877 Dec 10 22:26 7877 Dec 28 07:30 7878 Jan 13 11:39 7878 Jan 25 04:30 7878 Feb 02 00:03 7878 Feb 04 07:48 7878 Feb 05 08:21 7878 Feb 05 06:52 7878 Feb 10 19:10 7878 Feb 11 19:10 7878 Feb 12 120:19 7878 Mar 05 14:30 7878 Mar 06 15:22 7878 Mar 08 21:58 7878 Mar 19 19:30 7878 Mar 25 08:08 7878 Mar 31 09:42 7878 Apr 05 04:45 7878 Apr 05 04:45	10° ₹47′02 23° ₹03′46 29° ₹44′09 0° ₹ 3° ₹00′02 0° ≈ 19° ≈57′54 26° ≈46′56 24° ≈27′06 22° ≈13′25 19° ≈19′56 17° ≈58′47 18° ≈03′41 12° ≈00′36 10° ≈43′08 14° ≈50′35 0° ₹ 1° ₹30′50 4° ₹52′44 21° ₹26′06 0° ♀ 9° ♀32′28	1°22'24 1.38477 AU 24°48'46 0.67821 AU 1°05'17 1°04'48 19°44'42 -0.6m 1.44442 AU -2°10'46
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.	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26 7876 Dec 27 11:48 7877 Jan 03 23:02 7877 Jan 25 08:45 7877 Feb 10 13:58 7877 Feb 15 02:57 7877 Feb 20 12:32 7877 Feb 20 12:32 7877 Feb 20 23:35 7877 Feb 24 02:59 7877 Feb 26 07:31 7877 Mar 02 12:35 7877 Mar 09 19:31 7877 Mar 10 19:30 7877 Apr 01 08:30 7877 Apr 01 08:30 7877 Apr 02 22:14 7877 Apr 17 22:14 7877 Apr 24 21:08 7877 Apr 25 00:55 7877 May 06 16:59	10°♂34'06 12°♂19'14 18°♂04'13 0°≈ 0°ℋ 6°ℋ12'20 12°ℋ29'41 10°ℋ48'41 10°ℋ23'18 4°ℋ41'47 3°ℋ56'40 4°ℋ03'56 30°ℝ≈ 27°≈51'31 26°≈12'20 0°ℋ 0°ℋ57'30 14°ℋ57'27 0°Ƴ 13°Ŷ08'13 25°Ŷ52'36 0°℧ 7°℧24'24 7°℧40'23 28°℧02'39	23°30'20 0.68293 AU 1°51'03 1°50'22 20°54'05 1.42925 AU -2°07'06	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong	7877 Nov 28 17:18 7877 Dec 05 06:35 7877 Dec 09 00:52 7877 Dec 09 04:31 7877 Dec 10 22:26 7877 Dec 28 07:30 7878 Jan 13 11:39 7878 Jan 25 04:30 7878 Jan 30 18:48 7878 Feb 02 00:03 7878 Feb 04 07:48 7878 Feb 05 08:21 7878 Feb 05 06:52 7878 Feb 10 19:10 7878 Feb 14 11:21 7878 Feb 12 20:19 7878 Mar 05 14:30 7878 Mar 06 15:22 7878 Mar 08 21:58 7878 Mar 19 19:30 7878 Mar 25 08:08 7878 Mar 31 09:42 7878 Apr 05 04:45 7878 Apr 05 02:44 7878 Apr 05 02:44	10° 🗷 47′02 23° 🗷 03′46 29° 🗷 44′09 0° 🛪 3° 🛪 00′02 0° ≈ 19° ≈57′54 26° ≈46′56 24° ≈27′06 22° ≈13′25 19° ≈19′56 17° ≈58′47 18° ≈00′36 10° ≈43′08 14° ≈50′35 0° ¥ 1° ¥30′50 4° ¥52′44 21° ¥26′06 0° ♀ 9° ♀32′28 17° ♀12′59 17° ♀04′51 0° ௧	1°22'24 1.38477 AU 24°48'46 0.67821 AU 1°05'17 1°04'48 19°44'42 -0.6m 1.44442 AU -2°10'46
evening rise evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26 7876 Dec 27 11:48 7877 Jan 03 23:02 7877 Jan 25 08:45 7877 Feb 10 13:58 7877 Feb 15 02:57 7877 Feb 20 12:32 7877 Feb 20 12:32 7877 Feb 20 23:35 7877 Feb 20 23:35 7877 Feb 20 02:59 7877 Feb 20 02:59 7877 Feb 20 02:59 7877 Feb 20 02:59 7877 Feb 20 02:31 7877 Mar 02 12:35 7877 Mar 09 19:31 7877 Mar 10 19:30 7877 Mar 10 19:30 7877 Apr 01 08:30 7877 Apr 01 08:30 7877 Apr 02 22:14 7877 Apr 17 22:14 7877 Apr 20 10:41 7877 Apr 24 21:08 7877 May 06 16:59 7877 May 07 19:19	10°♂34'06 12°♂19'14 18°♂04'13 0°≈ 0°ℋ 6°ℋ12'20 12°ℋ29'41 10°ℋ48'41 10°ℋ23'18 4°ℋ41'47 3°ℋ56'40 4°ℋ03'56 30°ℝ≈ 27°≈51'31 26°≈12'20 0°ℋ 0°ℋ57'30 14°ℋ57'27 0°❤ 13°❤08'13 25°❤52'36 0°℧ 7°♂24'24 7°♂40'23 28°♂02'39 0°Ⅱ	23°30'20 0.68293 AU 1°51'03 1°50'22 20°54'05 1.42925 AU -2°07'06	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong	7877 Nov 28 17:18 7877 Dec 05 06:35 7877 Dec 09 00:52 7877 Dec 09 04:31 7877 Dec 10 22:26 7877 Dec 28 07:30 7878 Jan 13 11:39 7878 Jan 25 04:30 7878 Feb 02 00:03 7878 Feb 04 07:48 7878 Feb 05 08:21 7878 Feb 05 06:52 7878 Feb 10 19:10 7878 Feb 14 11:21 7878 Feb 12 20:19 7878 Mar 05 14:30 7878 Mar 06 15:22 7878 Mar 08 21:58 7878 Mar 19 19:30 7878 Mar 25 08:08 7878 Mar 31 09:42 7878 Apr 05 04:45 7878 Apr 05 04:44 7878 Apr 12 23:44 7878 Apr 18 18:08	10° 🗷 47'02 23° 🗷 03'46 29° 🗷 44'09 0° 🛪 3° 🛪 00'02 0° 🕿 19° 冬57'54 26° ≈ 46'56 24° ≈ 27'06 22° ≈ 13'25 19° ≈ 19'56 17° ≈ 58'47 18° ≈ 00'36 10° ≈ 43'08 14° ≈ 50'35 0° 💥 1° 💥 30'50 4° ※ 52'44 21° ※ 26'06 0° ϒ 9° ϒ 32'28 17° ϒ 12'59 17° ϒ 04'51 0° ੴ 9° ႘ 42'14	1°22'24 1.38477 AU 24°48'46 0.67821 AU 1°05'17 1°04'48 19°44'42 -0.6m 1.44442 AU -2°10'46
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	7876 Dec 17 01:13 7876 Dec 23 00:50 7876 Dec 24 01:26 7876 Dec 27 11:48 7877 Jan 03 23:02 7877 Jan 25 08:45 7877 Feb 10 13:58 7877 Feb 15 02:57 7877 Feb 15 15:36 7877 Feb 20 12:32 7877 Feb 20 12:32 7877 Feb 20 23:35 7877 Feb 20 23:35 7877 Feb 20 23:35 7877 Feb 20 12:35 7877 Feb 20 12:35 7877 Feb 20 07:31 7877 Mar 02 12:35 7877 Mar 09 19:31 7877 Mar 10 19:30 7877 Mar 22 01:00 7877 Apr 01 08:30 7877 Apr 01 08:30 7877 Apr 09 22:14 7877 Apr 17 22:14 7877 Apr 20 10:41 7877 Apr 24 21:08 7877 May 06 16:59 7877 May 07 19:19 7877 May 11 01:56	10°る34'06 12°る19'14 18°る04'13 0°≈ 0°升 6°升12'20 12°升29'41 10°升48'41 10°升23'18 4°升41'47 3°升56'40 4°升03'56 30°R≈ 27°≈51'31 26°≈12'20 0°升 0°升57'30 14°升57'30 14°升57'27 0°Y 13°Y08'13 25°Y52'36 0°8 7°824'24 7°840'23 28°802'39 0°用 11°用00'16	23°30'20 0.68293 AU 1°51'03 1°50'22 20°54'05 1.42925 AU -2°07'06 2°07'01	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong	7877 Nov 28 17:18 7877 Dec 05 06:35 7877 Dec 09 00:52 7877 Dec 09 04:31 7877 Dec 10 22:26 7877 Dec 28 07:30 7878 Jan 13 11:39 7878 Jan 25 04:30 7878 Feb 02 00:03 7878 Feb 04 07:48 7878 Feb 05 08:21 7878 Feb 05 06:52 7878 Feb 10 19:10 7878 Feb 14 11:21 7878 Feb 12 20:19 7878 Mar 05 14:30 7878 Mar 06 15:22 7878 Mar 08 21:58 7878 Mar 19 19:30 7878 Mar 25 08:08 7878 Apr 05 04:45 7878 Apr 05 04:44 7878 Apr 10 19:08 7878 Apr 11 23:44 7878 Apr 12 23:44 7878 Apr 13 18:08 7878 Apr 30 23:01	10° ₹47′02 23° ₹03′46 29° ₹44′09 0° ₹ 3° ₹00′02 0° ≈ 19° ≈57′54 26° ≈46′56 24° ≈27′06 22° ≈13′25 19° ≈19′56 17° ≈58′47 18° ≈00′36 10° ≈43′08 14° ≈50′35 0° ₹ 1° ₹30′50 4° ₹52′44 21° ₹26′06 0° ₹ 9° ₹32′28 17° ₹12′59 17° ₹04′51 0° ₹ 9° ₹49′44	1°22'24 1.38477 AU 24°48'46 0.67821 AU 1°05'17 1°04'48 19°44'42 -0.6m 1.44442 AU -2°10'46 2°10'47

ratragrada	7878 May 13 09:27	10° Ⅱ 57'59		ovening rise	7879 Mar 30 20:10	20° Y ′22'44	
retrograde	•			evening rise			
evening set	7878 May 16 07:09	10° Ⅱ 13'33	2007142		7879 Apr 05 18:56	0°8	
inferior conj	7878 May 22 08:25	4° Ⅱ 55'07	3°07'42	asc. node	7879 Apr 17 20:06	18° 8 03'42	10005110
minimum elong	7878 May 22 10:23	4° Ⅱ 49'39	3°07'18	evening max el	7879 Apr 20 12:11	21° 8 05'32	18°37'13
min. Earth dist.	7878 May 24 23:41	2° ∏ 01'24	0.63294 AU	retrograde	7879 Apr 27 01:36	24° 8 41'08	
	7878 May 27 00:24	30° ₹8		evening set	7879 Apr 30 06:31	23° 8 42'56	
morning rise	7878 May 28 12:14	28° 8 44'03		inferior conj	7879 May 05 22:56	18° 8 07'29	3°23'04
direct	7878 Jun 04 06:46	26° 8 07'18		minimum elong	7879 May 05 23:32	18° 8 05'40	3°22'57
desc. node	7878 Jun 04 21:29	26° 8 08'30		min. Earth dist.	7879 May 07 23:06	15° 8 41'47	0.65159 AU
	7878 Jun 13 13:07	Π $^{\circ}0$		morning rise	7879 May 11 15:49	11° 8 50'58	
morning max el	7878 Jun 18 05:32	4° Ⅱ 10'01	27°46'54	direct	7879 May 18 06:17	9° 8 04'01	
	7878 Jul 07 14:17	0 \circ \odot		desc. node	7879 May 22 18:30	10° 8 09'22	
morning set	7878 Jul 22 18:46	27° © 22'10		morning max el	7879 May 31 15:41	16° 8 57'53	27°06'18
	7878 Jul 24 02:01	$0^{\circ}\Omega$			7879 Jun 11 11:31	$\Pi^{\circ}0$	
asc. node	7878 Jul 27 22:18	8° Ω 00′10			7879 Jun 30 10:59	0 \circ \odot	
max. Earth dist.	7878 Jul 27 22:26	8° Ω 00′50	1.32579 AU	morning set	7879 Jul 06 06:15	10°9548'12	
				max. Earth dist.	7879 Jul 10 16:56	19° © 36'54	1.33744 AU
superior conj	7878 Jul 30 13:31	13° Ω 38'59	0°26'36				
minimum elong	7878 Jul 30 12:17	13° € 333'39	0°26'15	superior conj	7879 Jul 14 16:01	27° © 48'58	-0°01'24
evening rise	7878 Aug 06 12:15	28° Ω 42'04	0 20 15	minimum elong	7879 Jul 14 16:05	27°549'22	0°01'31
evening rise	7878 Aug 07 02:54	0° Mp		behind sun begin	7879 Jul 14 10:30	27° © 19'59	0 0131
	•	0∘ ت ۱۱۱۸		behind sun end			
	7878 Aug 24 04:16		22022147		7879 Jul 14 21:41	28°5018'49	
evening max el	7878 Aug 29 18:23	6° Ω 22'49	23°23'46	asc. node	7879 Jul 14 19:18	28°906'17	
desc. node	7878 Aug 31 20:30	8° Ω 15'51			7879 Jul 15 16:51	0°Ω	
retrograde	7878 Sep 12 06:32	13° Ω 08'24		evening rise	7879 Jul 21 22:57	13° Ω 17'17	
evening set	7878 Sep 16 10:08	12° ≏ 30'41			7879 Jul 30 10:46	0° ™	
min. Earth dist.	7878 Sep 23 04:00	9° ≏ 21'46	0.55596 AU	evening max el	7879 Aug 11 09:33	16°Mp40'57	21°46'38
inferior conj	7878 Sep 25 00:38	8° ≏ 16'01	-5°28'06	desc. node	7879 Aug 18 17:36	21° Mp 49'42	
minimum elong	7878 Sep 24 21:19	8° ഫ 20'55	5°27'50	retrograde	7879 Aug 23 21:55	22° m 53'31	
morning rise	7878 Oct 03 10:41	4° ≙ 23'49		evening set	7879 Aug 26 15:35	22° M 36'42	
direct	7878 Oct 06 08:33	4° ₽ 03'14		inferior conj	7879 Sep 04 20:08	18° ™ 36'58	-4°37'02
morning max el	7878 Oct 17 00:38	9° ჲ 02'48	20°23'31	minimum elong	7879 Sep 04 11:06	18° ™ 49'37	4°35'00
asc. node	7878 Oct 23 21:53	17° ≏ 27'26		min. Earth dist.	7879 Sep 04 12:49	18° m 47'12	0.54771 AU
	7878 Oct 31 04:07	0°M		morning rise	7879 Sep 13 07:49	14° m 47'20	
morning set	7878 Nov 04 16:01	8°M58'43		direct	7879 Sep 16 19:19	14° m/20'48	
Č				morning max el	7879 Sep 29 00:24	20° m) 06'23	21°55'11
superior conj	7878 Nov 12 05:30	24°M31'41	1°35'48	Č	7879 Oct 07 03:55	0∘ <mark>⊽</mark>	
minimum elong	7878 Nov 12 07:15	24°M40'35	1°35'48	asc. node	7879 Oct 10 18:53	5° Ω 47'57	
mmmam erong	7878 Nov 14 23:08	0° ⊼	1 30 .0	morning set	7879 Oct 20 01:54	23° Ω 45'50	
max. Earth dist.	7878 Nov 17 13:21	5° ∡ 02'58	1.36402 AU	morning sec	7879 Oct 23 00:41	0°M.	
evening rise	7878 Nov 21 10:06	12°×717'54	1.50402 110		7077 Oct 25 00.41	O IIO	
desc. node	7878 Nov 27 19:28	23° 🖈 32'42		superior conj	7879 Oct 27 05:44	8°M55'49	10/11/21
desc. Hode		23 メ ・3242				8°M57'56	1°41'25
	7878 Dec 01 17:24			minimum elong	7879 Oct 27 06:09		
	7878 Dec 23 10:47	0°≈	25050147	max. Earth dist.	7879 Oct 31 02:31	16°M55'37	1.34611 AU
evening max el	7878 Dec 27 00:36	3°≈44′00	25°58'47	evening rise	7879 Nov 04 11:37	25°M35'18	
retrograde	7879 Jan 08 14:17	10°≈53'43			7879 Nov 06 19:34	0° ∡ 7	
evening set	7879 Jan 14 17:13	8° ≈ 23'25		desc. node	7879 Nov 14 16:31	13° ∡ ′52'11	
min. Earth dist.	7879 Jan 18 23:28	3°≈50'45	0.66973 AU		7879 Nov 25 04:13	0° る	
asc. node	7879 Jan 19 21:09	2° ≈ 43'08		evening max el	7879 Dec 09 13:54	17° る 24'45	26°52'58
inferior conj	7879 Jan 20 11:22	1°≈58'33	0°11'52	retrograde	7879 Dec 22 18:29	24° る 43'25	
minimum elong	7879 Jan 20 11:03	1° ≈ 59'31	0°11'52	evening set	7879 Dec 29 08:55	22° る 07'24	
transit middle	7879 Jan 20 11:03	1° ≈ 59'31	0°11'52	min. Earth dist.	7880 Jan 02 09:11	18° る 09'12	0.65765 AU
transit begin	7879 Jan 20 09:08	2° ≈ 05'33		inferior conj	7880 Jan 04 08:38	15° る 51'47	-0°48'29
transit end	7879 Jan 20 12:58	1° ≈ 53'30		minimum elong	7880 Jan 04 10:01	15° る 47'46	0°47'45
	7879 Jan 22 02:07	30°R₹		asc. node	7880 Jan 06 18:13	13° る 12'00	
morning rise	7879 Jan 26 05:29	26° る 09'09		morning rise	7880 Jan 10 12:12	10° る 13'42	
direct	7879 Jan 29 10:15	25° る 10'43		direct	7880 Jan 13 07:26	9° ප 30'38	
morning max el	7879 Feb 05 04:39	28° る 52'29	18°50'28	morning max el	7880 Jan 19 18:40	12° る 58'02	18°12'43
Č	7879 Feb 06 06:38	0° ≈		Č	7880 Jan 31 23:52	0° ≈	
desc. node	7879 Feb 23 18:55	25° ≈ 07'19		morning set	7880 Feb 07 16:56	10° ≈ 49'33	
	7879 Feb 26 21:54	0° ∀		desc. node	7880 Feb 10 15:52	15°≈35'58	
morning set	7879 Feb 27 04:17	0°) (24'56		acce. Houc	7880 Feb 19 16:24	0° ∺	
max. Earth dist.	7879 Mar 14 02:10		1.45316 AU		,000100 17 10.24	υ / (
max. Earth dist.	,0// IVIAL 14 UZ.1U	43 / (433/	1.73310 AU	superior coni	7880 Feb. 22, 20-22	5°) 00'03	-1°20'17
suporior cor:	7970 Mar 15 15:25	260¥ 10140	105/11/6	superior conj	7880 Feb 22 20:33		
superior conj	7879 Mar 15 15:35	26° X 10'48		minimum elong	7880 Feb 22 11:36	4°) €24'54	
minimum elong	7879 Mar 15 07:11	25°) €37'48	1-34 09	max. Earth dist.	7880 Feb 24 21:37	8°) €12'36	1.45461 AU
	7879 Mar 18 01:50	0 ° Υ		evening rise	7880 Mar 09 23:41	0° Ƴ 11'07	

	7880 Mar 09 20:49	$0^{\circ}\Upsilon$		superior conj	7881 Feb 01 14:47	14° ≈ 31'43	-0°36'06
greatest brilliancy	7880 Mar 21 19:19	18° Υ 28'25	-0.7m	minimum elong	7881 Feb 01 10:40	14°≈15'04	
8	7880 Mar 29 20:26	0°8		max. Earth dist.	7881 Feb 06 17:07	22°≈40'34	1.44868 AU
evening max el	7880 Apr 02 20:39	4° 8 41'29	19°19'18		7881 Feb 11 09:02	0° ∀	
asc. node	7880 Apr 03 17:12	5° 8 31'30		evening rise	7881 Feb 17 12:40	9°) 30′50	
retrograde	7880 Apr 09 22:12	8° 8 41'39		<i>S</i>	7881 Mar 03 02:40	$0^{\circ}\Upsilon$	
evening set	7880 Apr 13 10:55	7° 8 28'53		evening max el	7881 Mar 16 23:56	18° Y 18'51	20°16'42
inferior conj	7880 Apr 18 21:47	1° 8 37'53	3°22'42	asc. node	7881 Mar 21 14:17	21° Y 59'04	
minimum elong	7880 Apr 18 21:08	1° 8 40'02	3°22'37	retrograde	7881 Mar 24 20:34	22° Y 53'24	
	7880 Apr 20 03:53	30° ₹ Υ		evening set	7881 Mar 28 18:03	21° Y 25'36	
min. Earth dist.	7880 Apr 20 06:39	29° Y 51'07	0.66624 AU	inferior conj	7881 Apr 03 02:05	15° Y 20′51	3°09'47
morning rise	7880 Apr 24 06:58	25° Ƴ 20′22		minimum elong	7881 Apr 03 00:29	15° Y 26′18	3°09'32
direct	7880 Apr 30 12:14	22° Y 35'38		min. Earth dist.	7881 Apr 03 20:37	14° Y 17'46	0.67646 AU
desc. node	7880 May 08 15:29	26° Ƴ 06'16		morning rise	7881 Apr 08 06:42	9° Y 04'48	
	7880 May 12 23:25	0° ႘		direct	7881 Apr 13 23:31	6° Ƴ 32'13	
morning max el	7880 May 13 01:42	0° 8 05'48	25°59'34	morning max el	7881 Apr 25 10:50	13° Y 24'12	24°36'18
•	7880 Jun 04 09:39	$\Pi^{\circ}0$		desc. node	7881 Apr 25 12:27	13° Y 28′20	
morning set	7880 Jun 18 04:26	23° Ⅲ 33′21			7881 May 08 21:10	0°8	
•	7880 Jun 21 14:35	0°ಲಾ			7881 May 28 05:29	$\Pi^{\circ}0$	
max. Earth dist.	7880 Jun 22 00:35	0°5548'06	1.35387 AU	morning set	7881 May 31 08:28	5° Ⅱ 24'15	
				max. Earth dist.	7881 Jun 03 23:26	11° Ⅱ 53'11	1.37414 AU
superior conj	7880 Jun 27 10:51	11° © 32'48	-0°32'01				
minimum elong	7880 Jun 27 12:43	11° © 42'15	0°31'47	superior conj	7881 Jun 10 18:50	24° Ⅱ 41'47	-1°03'39
asc. node	7880 Jun 30 16:19	18° © 09'31		minimum elong	7881 Jun 10 22:43	25° Ⅱ 00'34	1°03'07
evening rise	7880 Jul 05 06:38	27° © 39'59			7881 Jun 13 11:50	0°ಲ	
	7880 Jul 06 10:00	$0^{\circ}\Omega$		asc. node	7881 Jun 17 13:20	8° © 05'40	
evening max el	7880 Jul 23 11:48	27° Ω 29'44	20°22'29	evening rise	7881 Jun 19 08:50	11° © 42'56	
C	7880 Jul 26 09:51	0° m		Č	7881 Jun 29 05:46	$0^{\circ}\Omega$	
retrograde	7880 Aug 03 10:12	2° m 53'29		evening max el	7881 Jul 06 03:07	9° Ω 02'24	19°17'51
desc. node	7880 Aug 04 14:40	2° Mp 49'55		retrograde	7881 Jul 15 08:52	13° Ω 36′03	
evening set	7880 Aug 05 09:46	2° Mp 43'38		evening set	7881 Jul 17 06:07	13° Ω 25'27	
C	7880 Aug 12 10:02	30°RΩ		desc. node	7881 Jul 22 11:42	11° Ω 21'16	
inferior conj	7880 Aug 14 13:41	28° Ω 46′09	-2°58'03	inferior conj	7881 Jul 25 19:38	9° Ω 16′20	-1°01'02
minimum elong	7880 Aug 14 05:42	28° Ω 57'47	2°55'22	minimum elong	7881 Jul 25 16:56	9° Ω 20'48	1°00'05
min. Earth dist.	7880 Aug 15 22:50	27° Ω 57'50	0.54883 AU	min. Earth dist.	7881 Jul 28 11:56	7° Ω 30'38	0.55916 AU
morning rise	7880 Aug 23 00:50	24° Ω 39'11		morning rise	7881 Aug 03 00:57	4° Ω 35'39	
direct	7880 Aug 27 05:09	24° Ω 01'35		direct	7881 Aug 08 00:57	3° £ 38'36	
	7880 Sep 09 01:00	0° m)		morning max el	7881 Aug 22 03:47	10° Ω 47'24	25°22'34
morning max el	7880 Sep 09 15:04	0° m 32'20	23°39'36		7881 Sep 05 18:35	0° m	
asc. node	7880 Sep 26 15:50	24° m/ 44'13		asc. node	7881 Sep 13 12:48	14° m)07'19	
	7880 Sep 29 09:17	0∘ <u>v</u>		morning set	7881 Sep 18 01:01	23° m 24'38	
morning set	7880 Oct 03 13:27	8° £ 36′01		Č	7881 Sep 21 02:09	0∘ <u>⊽</u>	
8							
superior conj	7880 Oct 10 12:02	23° £ 36′05	1°40'11	superior conj	7881 Sep 24 22:03	8° ഫ 25'29	1°33'03
minimum elong	7880 Oct 10 11:14	23° £ 31'46	1°40'12	minimum elong	7881 Sep 24 20:21	8° ≏ 16'12	1°32'55
max. Earth dist.	7880 Oct 13 00:18	28° ♀ 59'09	1.33218 AU	max. Earth dist.	7881 Sep 26 05:23	11° ≏ 17'33	1.32265 AU
	7880 Oct 13 11:47	0°M		evening rise	7881 Oct 02 00:36	23° ≏ 41'13	
evening rise	7880 Oct 18 01:34	9°M26'01		8	7881 Oct 05 03:31	0°M	
8	7880 Oct 29 05:20	0° × ⁷		desc. node	7881 Oct 18 10:37	23°M23'42	
desc. node	7880 Oct 31 13:34	3° ∡ 751'56			7881 Oct 22 22:24	0° ⊼	
	7880 Nov 20 06:25	0°る		evening max el	7881 Nov 03 12:08	13° ∡ ′42'30	27°25'44
evening max el	7880 Nov 21 02:28	0° る 48'37	27°24'02	retrograde	7881 Nov 17 07:02	20° ₹ 57'32	
retrograde	7880 Dec 04 16:12	8° る 07'35		evening set	7881 Nov 24 09:53	18° ∡ ³32'40	
evening set	7880 Dec 11 15:28	5° る 32'36		min. Earth dist.	7881 Nov 28 01:58	15° х 36′06	0.62378 AU
min. Earth dist.	7880 Dec 15 10:37	2° る 07'32	0.64221 AU	inferior conj	7881 Nov 30 23:34	12° ₹ 52'58	
Januar Gibt.	7880 Dec 17 11:12	30°R.✓		minimum elong	7881 Dec 01 05:18	12° 🗷 32'30	3°01'17
inferior conj	7880 Dec 17 21:40	29° ₹ 32'17	-1°54'28	morning rise	7881 Dec 08 02:47	7° × ⁷ 47'03	
minimum elong	7880 Dec 18 01:11	29°×723'00		direct	7881 Dec 10 09:45	7°×7'23'32	
asc. node	7880 Dec 23 15:16	24° × ⁷ 34'12		asc. node	7881 Dec 10 07:45	7° × 23'35	
morning rise	7880 Dec 24 12:29	24° × 08'33		morning max el	7881 Dec 17 04:31	10° ₹ 51'01	17°49'05
direct	7880 Dec 24 12.29 7880 Dec 27 00:19	23° 🖈 37'05		morning max ci	7881 Dec 17 04:31 7881 Dec 29 23:15	0°중	17 17 03
morning max el	7881 Jan 02 11:38		17°52'02	morning set	7882 Jan 02 02:06	5° る 32'06	
morning max ci	7881 Jan 05 03:09	20 メ ・3939	1/ 5202	morning set	, 002 Juli 02 02.00	5 052 00	
morning set	7881 Jan 19 10:10	0 8 22° る 38'14		superior conj	7882 Jan 13 09:39	25° ට 15'56	0°07'23
morning set	7881 Jan 23 18:56	22 O 38 14 0° ≈		minimum elong	7882 Jan 13 10:22	25° る 18'58	0°07'23
desc. node	7881 Jan 27 12:49	0 ≈ 6°≈13'55		behind sun begin	7882 Jan 13 10:22	23 3 1838 24° 3 45'21	0 0/43
desc. Hode	1001 Jall 21 12:49	0 \$13.33		behind sun begin	7882 Jan 13 02:25 7882 Jan 13 18:19	24° る 45'21 25° る 52'31	
				ociniiu suii eiiu	1004 Jan 13 18.19	25 05251	

desc. node	7882 Jan 14 09:49	26° පි 57'42		superior conj	7882 Dec 26 05:33	7° る 11'39	0°43'49
	7882 Jan 16 05:31	0° ≈		minimum elong	7882 Dec 26 08:41	7° る 25'33	0°43'30
max. Earth dist.	7882 Jan 20 09:34	6° ≈ 49'42	1.43606 AU	desc. node	7883 Jan 01 06:49	17° る 43'10	
evening rise	7882 Jan 28 01:44	18°≈58'51		max. Earth dist.	7883 Jan 02 20:55	20° る 23'41	1.41819 AU
	7882 Feb 04 06:58	0°) €		evening rise	7883 Jan 08 04:50	29° る 07'53	
	7882 Feb 26 01:48	0° Υ			7883 Jan 08 17:50	0° ≈	
evening max el	7882 Feb 27 21:39		21°26'25		7883 Jan 28 21:15	0° ∀	
asc. node	7882 Mar 08 11:20	7°Υ11'52		evening max el	7883 Feb 10 14:40	15°) (38′03	22°44'14
retrograde	7882 Mar 08 18:43	7° Υ 12'21		retrograde	7883 Feb 20 14:56	21°) (34'24	
evening set	7882 Mar 13 02:06	5°Υ29'23		asc. node	7883 Feb 23 08:24	20°) ₹56'50	
	7882 Mar 17 20:06	30° ₹	2046122	evening set	7883 Feb 25 09:29	19°) (36'31	2012144
inferior conj	7882 Mar 18 09:33			inferior conj	7883 Mar 02 18:10	13°) 12'32	
minimum elong	7882 Mar 18 07:24	29°) (20'50	2°45'52	minimum elong	7883 Mar 02 15:54	13° ¥ 20′23	2°13'04
min. Earth dist.	7882 Mar 18 15:03	28°) 54'13	0.68226 AU	min. Earth dist.	7883 Mar 02 11:40	13°) ₹35'06	0.68381 AU
morning rise	7882 Mar 23 12:31	23°\(\)(00'20		morning rise	7883 Mar 07 22:12	7°) (03'54	
direct	7882 Mar 28 15:26	20°\(\frac{1}{46}\)'22	22007127	direct	7883 Mar 12 11:03	5°) 11'45	21020147
morning max el	7882 Apr 07 20:28	26°) 49′51 0° °	23°06'36	morning max el	7883 Mar 21 09:46	10°) (24'19	21-3947
11-	7882 Apr 10 19:02	1° Υ 52'19		desc. node	7883 Mar 30 06:25	21° 米 01'14 0° Ƴ	
desc. node	7882 Apr 12 09:26 7882 May 02 11:33	0° 8		morning set	7883 Apr 05 17:23 7883 Apr 22 13:26	0° γ 25° Υ 32'40	
marning gat	•	16° 8 06'44		morning set	•	0° 8	
morning set	7882 May 12 12:45	_	1 20642 ATT	Darth diet	7883 Apr 25 08:00	_	1 41011 ATT
max. Earth dist.	7882 May 16 19:29	23° ႘ 22'44 0° Ⅱ	1.39643 AU	max. Earth dist.	7883 Apr 28 19:19	5° O 41'07	1.41811 AU
	7882 May 20 13:59	υщ		aumorior aoni	7992 May 06 00:44	18° 8 36'02	1057150
aumariar aani	7992 May 24 11:50	7° Ⅱ 06'07	1922127	superior conj	7883 May 06 09:44	_	
superior conj	7882 May 24 11:59			minimum elong	7883 May 06 15:04	18° 8 59'19	1-5/34
minimum elong	7882 May 24 17:27	7° Ⅱ 31'19 25° Ⅱ 17'57	1°33′02		7883 May 12 19:26	0°П 8°П16'06	
evening rise	7882 Jun 03 02:33	25°Щ1/'5/ 27°Щ50'11		evening rise	7883 May 17 08:04	8°Щ16'06 17°Щ18'26	
asc. node	7882 Jun 04 10:21	2/°Щ3011 0°9		asc. node	7883 May 22 07:24	1/°Щ18′26 0°95	
	7882 Jun 05 13:39		10024104		7883 May 30 03:58	4°903'46	10010120
evening max el	7882 Jun 19 05:18 7882 Jun 27 01:32	21°©16'27 25°©10'23	18-34-04	evening max el	7883 Jun 02 14:41 7883 Jun 09 12:31	7° © 33'13	18°10'30
retrograde	7882 Jun 29 04:19	23 \$1023 24°\$54'16		retrograde	7883 Jun 11 22:53	7°907'52	
evening set inferior conj	7882 Jul 29 04.19 7882 Jul 06 22:08	24 \$34 16 20°\$26'33	0°43'17	evening set inferior conj	7883 Jun 18 22:02	7 907 32 2°919'49	2°00'29
·	7882 Jul 06 22:08 7882 Jul 06 23:41	20°\$20'33 20°\$23'32	0°42'35	,	7883 Jun 19 01:06	2°912'52	1°59'27
minimum elong desc. node	7882 Jul 00 23:41 7882 Jul 09 08:46	18°933'05	0 42 33	minimum elong	7883 Jun 21 12:02	2 €312 32 30°R I I	1 3921
min. Earth dist.	7882 Jul 10 05:56	18 \$33 03 17° \$53'29	0.57675 AU	min. Earth dist.	7883 Jun 22 06:30	29° Ⅱ 19'57	0.59845 AU
morning rise	7882 Jul 14 15:35	17 93329 15°908'56	0.57075 AO	morning rise	7883 Jun 26 00:26	26° I I33'26	0.33643 AU
direct	7882 Jul 20 11:22	13° 9 43'07		desc. node	7883 Jun 26 05:49	26° I I25'26	
morning max el	7882 Aug 03 20:34	21° © 19'55	26°47'08	direct	7883 Jul 02 11:19	24° II 35'20	
morning max ci	7882 Aug 11 10:01	0°Ω	20 47 00	uncet	7883 Jul 14 02:58	0°95	
	7882 Aug 29 12:30	0° m/y		morning max el	7883 Jul 16 19:49	2° 5 29'16	27°40'00
asc. node	7882 Aug 31 09:46	3° m 49'13		morning max er	7883 Aug 05 20:47	0° Ω	27 10 00
morning set	7882 Sep 02 10:55	8° Mp 05'47		morning set	7883 Aug 17 17:27	22° Ω 34'21	
morning sec	7002 Sep 02 10.33	0 112 03 17		asc. node	7883 Aug 18 06:46	23° Ω 44'06	
superior conj	7882 Sep 09 09:42	23° Mp 16'41	1°20'32	use. House	7883 Aug 21 05:05	0° m)	
minimum elong	7882 Sep 09 07:31	23° Mp 04'36	1°20'14	max. Earth dist.	7883 Aug 24 00:53		1.31716 AU
max. Earth dist.	7882 Sep 09 14:46	23° m/44'48	1.31762 AU	man. Bartin digt.	700511 ug 2 1 00.55	0 .41123	1.51710110
	7882 Sep 12 10:42	0∘ ಹ		superior conj	7883 Aug 24 21:14	8° Mp 04'00	1°03'05
evening rise	7882 Sep 16 05:56	8° £ 12'12		minimum elong	7883 Aug 24 19:01	7° m 51'46	1°02'40
8 2	7882 Sep 27 13:25	0°M		evening rise	7883 Aug 31 15:18	22° m 52'24	
desc. node	7882 Oct 05 07:41	12°M15'22			7883 Sep 04 01:13	0∘ ⊽	
evening max el	7882 Oct 16 16:19		26°54'08	desc. node	7883 Sep 22 04:45	0°M11'02	
C	7882 Oct 21 18:46	0° ∡ 7			7883 Sep 22 01:17	0°M	
retrograde	7882 Oct 30 14:03	3° ≯ 03'01		evening max el	7883 Sep 28 13:01		25°49'51
evening set	7882 Nov 06 12:05	0° ∡ 759′25		retrograde	7883 Oct 12 11:30	14°M18'06	
C	7882 Nov 08 01:29	30°RM		evening set	7883 Oct 18 17:15	12°M46'20	
min. Earth dist.	7882 Nov 10 06:37	28°M21'11	0.60331 AU	min. Earth dist.	7883 Oct 23 01:40	10°M10'29	0.58258 AU
inferior conj	7882 Nov 13 10:56	25°M44'08		inferior conj	7883 Oct 26 04:22	7° M 56'48	
minimum elong	7882 Nov 13 18:04	25°M29'26	4°08'12	minimum elong	7883 Oct 26 10:28	7°M45'52	
morning rise	7882 Nov 21 02:24	20°M59'04		morning rise	7883 Nov 03 05:59	3°M34'17	
direct	7882 Nov 23 07:39	20°M40'11		direct	7883 Nov 05 13:56	3°M16'53	
asc. node	7882 Nov 27 09:16	21°M46'51		morning max el	7883 Nov 14 00:10	7°M20'46	18°41'18
morning max el	7882 Nov 30 17:54	24°M21'15	18°04'58	asc. node	7883 Nov 14 06:18	7°M35'43	
-	7882 Dec 05 08:29	0°⊀			7883 Nov 28 12:16	0°⊀	
morning set	7882 Dec 16 10:18	19° ∡ 11'10		morning set	7883 Nov 30 05:50	3° ∡ 21'19	
	7882 Dec 22 06:06	ರ°0					
				superior conj	7883 Dec 08 22:10	20° ₰ 06'09	1°11'05

minimum elong	7883 Dec 09 01:34	20° ₹ 22'08	1°10'47	minimum elong	7884 Nov 21 08:57	3° ∡ 758′05	1°29'05
C	7883 Dec 14 07:37	0°る		max. Earth dist.	7884 Nov 27 09:44	15° ∡ ³31'57	1.37576 AU
max. Earth dist.	7883 Dec 16 03:49	3° ප 15'40	1.39728 AU	evening rise	7884 Dec 01 03:23	22° ∡ 19′09	
desc. node	7883 Dec 19 03:48	8° පි 26'47		desc. node	7884 Dec 05 00:49	29° ₹ '05'06	
evening rise	7883 Dec 20 05:15	10° る 14'33			7884 Dec 05 13:47	8°0	
•	7884 Jan 01 15:34	0° ≈			7884 Dec 25 12:10	0° ≈	
evening max el	7884 Jan 24 04:52	29° ≈ 22'31	24°04'24	evening max el	7885 Jan 05 18:06	13° ≈ 10′13	25°20'03
	7884 Jan 24 20:12	0°) €		retrograde	7885 Jan 17 20:17	20° ≈ 08'39	
retrograde	7884 Feb 04 07:48	5° ¥ 54'39		evening set	7885 Jan 23 16:01	17° ≈ 44'07	
evening set	7884 Feb 09 14:39	3°) 42′35		asc. node	7885 Jan 27 02:35	14° ≈ 05'48	
asc. node	7884 Feb 10 05:30	3° ₩ 09'15		min. Earth dist.	7885 Jan 28 02:09	12° ≈ 51'36	0.67510 AU
	7884 Feb 13 00:28	30° R ≈		inferior conj	7885 Jan 29 07:27	11° ≈ 16′51	0°43'33
min. Earth dist.	7884 Feb 14 08:08	28° ≈ 15′24	0.68136 AU	minimum elong	7885 Jan 29 06:23	11° ≈ 20′16	0°43'14
inferior conj	7884 Feb 15 02:05	27° ≈ 14'40	1°32'36	morning rise	7885 Feb 03 21:05	5° ≈ 22'06	
minimum elong	7884 Feb 15 00:10	27° ≈ 21′08	1°31'59	direct	7885 Feb 07 08:19	4°≈12'56	
morning rise	7884 Feb 20 09:42	21°≈12'01		morning max el	7885 Feb 14 09:58	8° ≈ 07'35	19°19'39
direct	7884 Feb 24 09:10	19° ≈ 42'09		greatest brilliancy	7885 Feb 27 11:11	25° ≈ 25'38	-0.7m
morning max el	7884 Mar 03 05:50	24°≈09'59	20°22'44		7885 Mar 02 11:59	0° ∀	
	7884 Mar 08 07:50	0° ∀		desc. node	7885 Mar 03 00:20	0°) 46′52	
desc. node	7884 Mar 16 03:23	10°) 42′15		morning set	7885 Mar 10 14:39	12° ∺ 26′27	
	7884 Mar 29 01:21	0 ° \mathbf{Y}			7885 Mar 21 21:24	0 ° $\mathbf{\Upsilon}$	
morning set	7884 Mar 31 15:20	3° Y 58'47		max. Earth dist.	7885 Mar 23 17:04	2° Y 51'54	1.44909 AU
max. Earth dist.	7884 Apr 10 02:36	18° Ƴ 54'09	1.43641 AU				
				superior conj	7885 Mar 27 05:26	8° Y 26′08	
superior conj	7884 Apr 16 07:45	29° Y ′02'09		minimum elong	7885 Mar 27 00:22	8° Y 05'58	2°06'19
minimum elong	7884 Apr 16 09:29	29° Y ′09′23	2°10'52		7885 Apr 09 11:58	0°8	
	7884 Apr 16 21:42	0°8		evening rise	7885 Apr 10 12:29	1° 8 41'35	
evening rise	7884 Apr 28 20:52	20° 8 26'39		asc. node	7885 Apr 25 01:33	24° 8 59'38	
	7884 May 04 08:46	$0^{\circ}\Pi$			7885 Apr 29 01:32	$\Pi^{\circ 0}$	
asc. node	7884 May 08 04:28	6° Ⅲ 24'01		evening max el	7885 Apr 29 16:39	0°∏39'08	18°20'40
evening max el	7884 May 16 03:33	17° Ⅱ 14'01	18°06'15	retrograde	7885 May 06 02:28	4° Ⅱ 05'32	
retrograde	7884 May 22 14:19	20° Ⅲ 34'44		evening set	7885 May 09 03:19	3° Ⅱ 15'10	
evening set	7884 May 25 08:04	19° II 57'36	2040150		7885 May 13 01:23	30°R 8	201 (12.1
inferior conj	7884 May 31 16:07	14° Ⅱ 49'45	2°49'59	inferior conj	7885 May 15 00:21	27° 8 49'06	
minimum elong	7884 May 31 18:46	14° Ⅱ 42'54	2°49'19	minimum elong	7885 May 15 01:45	27° 8 45'03	3°16'06
min. Earth dist.	7884 Jun 03 15:12	11° П 47'39 8° П 45'20	0.62089 AU	min. Earth dist.	7885 May 17 09:12	25° 8 05'52 21° 8 35'09	0.64139 AU
morning rise	7884 Jun 07 03:37			morning rise	7885 May 20 23:09	18° 8 52'50	
desc. node	7884 Jun 12 02:53	6°Ⅲ29'46 6°Ⅲ19'52		direct	7885 May 27 16:41	18° 6 32'30	
direct	7884 Jun 13 21:45	6°Щ1932 14°Щ21'17	27055107	desc. node	7885 May 29 23:55 7885 Jun 10 10:19	26° 8 52'27	27022122
morning max el	7884 Jun 28 01:02 7884 Jul 10 16:08	14 ய 2117	27 33 07	morning max el	7885 Jun 13 08:31	20 Ο 3227 0° Π	21 33 22
	7884 Jul 28 09:28	0°Ω			7885 Jul 04 07:46	0°©	
morning set	7884 Jul 31 18:37	6° Ω 44'06		morning set	7885 Jul 15 11:57	0 3 20° 9 28'31	
asc. node	7884 Aug 04 03:46	13° Ω 46'33		morning set	7885 Jul 20 04:31	20 3 28 31	
max. Earth dist.	7884 Aug 06 07:59		1.32131 AU	max. Earth dist.	7885 Jul 20 04:31 7885 Jul 20 08:18		1.33021 AU
max. Lartii dist.	7004 rug 00 07.57	10 062022	1.52151710	asc. node	7885 Jul 22 00:47	3°Ω52'33	1.55021710
superior conj	7884 Aug 08 06:50	22° Ω 41'15	0°41'07	ase. node	7003 Jul 22 00.47	3 66 32 33	
minimum elong	7884 Aug 08 05:05	22°Ω31'43		superior conj	7885 Jul 23 12:32	7° Ω 02'56	0°15'08
minimum crong	7884 Aug 11 14:49	0° m	0 10 11	minimum elong	7885 Jul 23 11:48	6° Ω 58'59	0°14'51
evening rise	7884 Aug 15 02:42	7° mp 35'18		behind sun begin	7885 Jul 23 09:46	6°Ω48'08	0 1.01
e vennig 1150	7884 Aug 26 16:54	0∘ ⊽		behind sun end	7885 Jul 23 13:49	7°Ω09'50	
desc. node	7884 Sep 08 01:51	16° ≏ 48'34		evening rise	7885 Jul 30 14:14	22°Ω15'12	
evening max el	7884 Sep 09 02:38	17° ≏ 50'01	24°20'39	3	7885 Aug 03 07:51	0° m/	
retrograde	7884 Sep 22 21:03	24° ≏ 44'36		evening max el	7885 Aug 21 14:28	28° m 03'24	22°41'27
evening set	7884 Sep 27 21:44	23° ≏ 48'42			7885 Aug 23 18:10	0∘ ⊽	
min. Earth dist.	7884 Oct 03 13:32		0.56421 AU	desc. node	7885 Aug 25 22:57	1° ≏ 38'53	
inferior conj	7884 Oct 06 01:35	19° £ 23'06		retrograde	7885 Sep 03 18:07	4° £ 37'15	
minimum elong	7884 Oct 06 02:35	19° £ 21'32		evening set	7885 Sep 07 06:26	4° £ 10'10	
morning rise	7884 Oct 14 09:35	15° Ω 21'52		min. Earth dist.	7885 Sep 14 22:03		0.55138 AU
direct	7884 Oct 17 01:23	15° ⊆ 03'02		inferior conj	7885 Sep 16 04:09	0° ⊆ 03'03	
morning max el	7884 Oct 26 19:48	19° Ω 39'27	19°39'49	minimum elong	7885 Sep 15 21:47	0° £ 12'07	
asc. node	7884 Oct 31 03:19	24° Ω 35'22		3	7885 Sep 16 06:17	30°R, Mp	
	7884 Nov 03 19:01	0°M		morning rise	7885 Sep 24 15:08	26° m 14'37	
morning set	7884 Nov 13 09:04	17°M52'28		direct	7885 Sep 27 18:40	25° m 51'52	
-	7884 Nov 19 09:04	0°⊀			7885 Oct 07 18:51	0∘ ⊽	
				morning max el	7885 Oct 09 02:37	1° ≏ 09'55	21°00'28
superior conj	7884 Nov 21 06:26	3° ∡ ¹45'43	1°29'11	asc. node	7885 Oct 18 00:20	12° ≏ 30'08	
=							

	7885 Oct 27 10:53	0° M .		min. Earth dist.	7886 Aug 27 07:09	10° m 01'11	0.54693 AU
morning set	7885 Oct 28 17:09	2°M35'42		morning rise	7886 Sep 04 08:55	6° Mp 21'04	0.0 1075 110
				direct	7886 Sep 08 02:51	5° m 50'54	
superior conj	7885 Nov 05 01:53	17° M 56'44	1°39'02	morning max el	7886 Sep 20 21:58	11° m 56'10	22°38'54
minimum elong	7885 Nov 05 03:04	18° M 02'49	1°39'05	C	7886 Oct 04 06:04	0∘ <u>⊽</u>	
max. Earth dist.	7885 Nov 09 19:04	27° M 27'19	1.35593 AU	asc. node	7886 Oct 04 21:18	1° ≏ 07'18	
	7885 Nov 11 02:21	0° ∡ ¹		morning set	7886 Oct 13 03:56	17° ≏ 25'05	
evening rise	7885 Nov 13 19:59	5° х 12′33			7886 Oct 19 01:05	0° M	
desc. node	7885 Nov 21 21:51	19° ∡ 33′02					
	7885 Nov 28 09:41	0° ට		superior conj	7886 Oct 20 05:02	2°M29'13	1°41'37
evening max el	7885 Dec 19 07:10	26° පි 55'11	26°24'08	minimum elong	7886 Oct 20 04:54	2°M28'29	1°41'42
	7885 Dec 22 18:47	0° ≈		max. Earth dist.	7886 Oct 23 11:39	9°M22'34	1.33959 AU
retrograde	7886 Jan 01 03:36	4° ≈ 09'35		evening rise	7886 Oct 28 03:13	18°M45'21	
evening set	7886 Jan 07 11:49	1° ≈ 35'57			7886 Nov 03 02:55	0° ∡	
	7886 Jan 09 05:29	30°₹ ⋜		desc. node	7886 Nov 08 18:54	9° х 45′09	
min. Earth dist.	7886 Jan 11 15:24	27° る 18'18	0.66510 AU		7886 Nov 22 13:39	0°る	
inferior conj	7886 Jan 13 08:16	25° る 14'31		evening max el	7886 Dec 01 20:04	10° る 29'25	27°09'18
minimum elong	7886 Jan 13 08:36	25° る 13'29	0°12'38	retrograde	7886 Dec 15 05:14	17° る 49'47	
transit middle	7886 Jan 13 08:36	25° る 13'29	0°12'38	evening set	7886 Dec 21 23:57	15° る 12'54	
transit begin	7886 Jan 13 06:49	25° る 18'54		min. Earth dist.	7886 Dec 25 21:44	11° ろ 29'21	0.65149 AU
transit end	7886 Jan 13 10:24	25° る 08'03		inferior conj	7886 Dec 28 02:18	9° る 02'56	
asc. node	7886 Jan 13 23:39	24° る 28'07		minimum elong	7886 Dec 28 04:34	8° ろ 56'39	1°14'48
morning rise	7886 Jan 19 06:10	19° る 29'51		asc. node	7886 Dec 31 20:41	5° ට 13'40	
direct	7886 Jan 22 06:42	18° පි 38'23		morning rise	7887 Jan 03 10:30	3° る 30'52	
morning max el	7886 Jan 28 21:03	22° る 12'22	18°32'23	direct	7887 Jan 06 02:14	2°る53'21	
	7886 Feb 04 04:15	0° ≈		morning max el	7887 Jan 12 12:43	6° ප 17'43	18°01'48
desc. node	7886 Feb 17 21:16	21°≈08'09			7887 Jan 28 15:30	0°≈	
morning set	7886 Feb 18 10:20	21°≈59'53		morning set	7887 Jan 30 11:35	3°≈01'50	
	7886 Feb 23 11:53	0° ∀		desc. node	7887 Feb 04 18:12	11° ≈ 41'19	
superior conj	7886 Mar 06 11:20	17° ₩ 13'31	-1°42'00	superior conj	7887 Feb 13 19:52	26°≈15'48	-1°02'03
minimum elong	7886 Mar 06 01:47	16°) (36′10		minimum elong	7887 Feb 13 12:39	25°≈47'10	
max. Earth dist.	7886 Mar 06 11:31	17°) 14'17			7887 Feb 16 04:38	0° ∀	
	7886 Mar 14 14:44	$0^{\circ}\Upsilon$		max. Earth dist.	7887 Feb 17 06:56	1°) 43′26	1.45295 AU
evening rise	7886 Mar 22 04:30	11° Y 58'37		evening rise	7887 Mar 02 00:19	21°) 30'44	
greatest brilliancy	7886 Mar 31 01:51	26° Y 03'56	-0.8m	, and the second	7887 Mar 07 12:40	$0^{\circ}\mathbf{\Upsilon}$	
	7886 Apr 02 14:37	9° 8		greatest brilliancy	7887 Mar 15 15:56	12° Υ 19'21	-0.7m
asc. node	7886 Apr 11 22:38	12° 8 55'28		evening max el	7887 Mar 27 09:35	27° Y 48'35	19°41'59
evening max el	7886 Apr 13 03:18	14° 8 12'04	18°53'03	asc. node	7887 Mar 29 19:42	29° Y 59'27	
retrograde	7886 Apr 19 21:01	17° 8 57'03			7887 Mar 29 19:59	9° 8	
evening set	7886 Apr 23 05:09	16° 8 52'42		retrograde	7887 Apr 03 18:42	2° 8 02'49	
inferior conj	7886 Apr 28 18:48	11° 8 10'07	3°24'38	evening set	7887 Apr 07 10:55	0° 8 43'52	
minimum elong	7886 Apr 28 18:50	11° 8 10'01	3°24'33		7887 Apr 08 08:52	30° ₹Ƴ	
min. Earth dist.	7886 Apr 30 12:17	9° 8 00'14	0.65833 AU	inferior conj	7887 Apr 12 20:17	24° Y 46'42	3°18'39
morning rise	7886 May 04 08:00	4° 8 52'38		minimum elong	7887 Apr 12 19:10	24° Y 50'24	3°18'29
direct	7886 May 10 18:53	2° 8 05'30		min. Earth dist.	7887 Apr 13 22:56	23° Y 18'02	0.67110 AU
desc. node	7886 May 16 20:54	4° 8 04'04		morning rise	7887 Apr 18 03:07	18° Y 29'18	
morning max el	7886 May 23 20:54	9° 8 51'21	26°40'37	direct	7887 Apr 24 03:17	15° Y 48'36	
	7886 Jun 08 17:27	0° I I		desc. node	7887 May 03 17:52	20° Υ 40'30	
	7886 Jun 26 19:33	0°95		morning max el	7887 May 06 06:35	23° Y 05′05	25°25'30
morning set	7886 Jun 28 18:20	3°539'10	1 2 12 0 7 1 7 7		7887 May 12 09:15	8°0	
max. Earth dist.	7886 Jul 02 22:32	11° © 45'53	1.34387 AU		7887 Jun 02 01:33	0°П	
	7007 1 07 12 07	210502156	001.4100	morning set	7887 Jun 11 09:26	16° Ⅱ 03'22	1 2/204 ATT
superior conj	7886 Jul 07 12:07	21°502'56		max. Earth dist.	7887 Jun 15 01:42	22°Ⅲ50′23 0°©	1.36204 AU
minimum elong	7886 Jul 07 12:54 7886 Jul 07 10:07	21°507'01 20°552'36	0-140/		7887 Jun 18 19:21	0.50	
behind sun begin behind sun end	7886 Jul 07 15:41	20 \$3236 21°\$21'27		superior conj	7887 Jun 21 02:43	4° © 32'59	0045120
asc. node	7886 Jul 08 21:47	21 3 21 27 23° 9 58'17		minimum elong	7887 Jun 21 05:26	4°93239	0°45'05
use. 11000	7886 Jul 11 18:35	23 3 3817 0° Ω		asc. node	7887 Jun 25 18:47	13°959'04	0 73 03
evening rise	7886 Jul 14 23:57	6° Ω 46'26		evening rise	7887 Jun 29 05:35	21° © 01'32	
5 , ching 1150	7886 Jul 27 13:26	0° m)		Croning rise	7887 Jul 29 03:33 7887 Jul 03 18:00	0°Ω	
evening max el	7886 Aug 03 09:34	8° Mp 31'32	21°08'39	evening max el	7887 Jul 16 17:29	19° Ω 38'53	19°52'31
desc. node	7886 Aug 12 20:02	14° Mp 10'26		retrograde	7887 Jul 26 22:30	24° Ω 40'40	
retrograde	7886 Aug 15 07:15	14° m/ 25'21		evening set	7887 Jul 28 19:20	24° Ω 31'18	
evening set	7886 Aug 17 14:47	14° m) 12'49		desc. node	7887 Jul 30 17:07	24°Ω03'39	
inferior conj	7886 Aug 26 21:02	10° Mp 15'27	-3°59'33	inferior conj	7887 Aug 06 18:24	20° Ω 30'34	-2°08'32
minimum elong	7886 Aug 26 11:35	10° m 28'46		minimum elong	7887 Aug 06 12:30	20° £ 39'35	
· · · · · ·	5	3 - "		3	2	=	

min. Earth dist.	7887 Aug 08 18:39	19° Ω 16'59	0.55213 AU	inferior conj	7888 Jul 17 08:33	1° Ω 16′20	
morning rise	7887 Aug 15 03:46	16° Ω 10′08		minimum elong	7888 Jul 17 07:58	1° Ω 17'21	
direct	7887 Aug 19 16:07	15° Ω 25'20		transit middle	7888 Jul 17 07:58	1° Ω 17'21	0°13'49
morning max el	7887 Sep 02 11:00	22° Ω 14′23	24°24'33	transit begin	7888 Jul 17 06:03	1° Ω 20'43	
	7887 Sep 09 07:18	0° m)		transit end	7888 Jul 17 09:52	1° Ω 13'59	
asc. node	7887 Sep 21 18:16	20° m 15'51			7888 Jul 19 03:45	30° ₹ ∽	
	7887 Sep 26 14:08	0∘ ত		min. Earth dist.	7888 Jul 20 09:37	29° © 08'30	0.56602 AU
morning set	7887 Sep 27 15:39	2° £ 14'50		morning rise	7888 Jul 25 09:28	26°©19'43	
C				direct	7888 Jul 30 18:30	25°911'02	
superior conj	7887 Oct 04 13:10	17° ≙ 14'12	1°37'50		7888 Aug 11 03:24	$0^{\circ}\Omega$	
minimum elong	7887 Oct 04 11:57	17° ₽ 07'32		morning max el	7888 Aug 14 00:39	2° £ 32'51	26°01'35
max. Earth dist.	7887 Oct 06 12:31		1.32753 AU	morning man vi	7888 Sep 02 12:51	0°m)	20 0130
max. Lartii dist.	7887 Oct 10 12:44	0°M	1.32/33/110	asc. node	7888 Sep 07 15:14	9° m)47'42	
avanina riaa		2°M47'26			•	17° Mp 00'31	
evening rise	7887 Oct 11 21:23			morning set	7888 Sep 11 02:40	0° ⊽	
desc. node	7887 Oct 26 15:59	29°M34'06			7888 Sep 17 01:30	0-32	
	7887 Oct 26 22:31	0°⊀ ⁷	27020142		7000 G 10 00 05	20.00.415.4	1000100
evening max el	7887 Nov 14 07:39	23° ∡ ′41′58	27°28'42	superior conj	7888 Sep 18 00:05	2° £ 04'54	
	7887 Nov 23 07:11	0° ਰ		minimum elong	7888 Sep 17 22:09	1° ≏ 54'08	1°28'10
retrograde	7887 Nov 28 00:25	1° る 00'20		max. Earth dist.	7888 Sep 18 19:49	3° ჲ 53'53	1.32000 AU
	7887 Dec 02 11:28	30°Ŗ ⋌ 7		evening rise	7888 Sep 24 23:25	17° ≏ 10'21	
evening set	7887 Dec 05 01:47	28° ∡¹ 28'27			7888 Oct 01 10:06	0°M	
min. Earth dist.	7887 Dec 08 19:12	25° ∡ 16′09	0.63460 AU	desc. node	7888 Oct 12 13:04	18°M50'19	
inferior conj	7887 Dec 11 10:58	22° ∡ ³35'59	-2°23'37		7888 Oct 20 18:36	0° ∡ ¹	
minimum elong	7887 Dec 11 15:27	22° х 24'41	2°21'45	evening max el	7888 Oct 26 15:32	6° √ 19'31	27°16'35
morning rise	7887 Dec 18 06:59	17° ∡ 19′23		retrograde	7888 Nov 09 11:56	13° ∡ ³31'47	
asc. node	7887 Dec 18 17:41	17° ∡ 10′08		evening set	7888 Nov 16 13:48	11° × 15'01	
direct	7887 Dec 20 16:16	16° × 751'51		min. Earth dist.	7888 Nov 20 06:12	8° × ⁷ 27'30	0.61518 AU
morning max el	7887 Dec 27 06:02	20° × 16'04	17°48'33	inferior conj	7888 Nov 23 07:08	5° × ⁷ 45'21	
morning max cr	7888 Jan 03 13:12	0°중	17 4033	minimum elong	7888 Nov 23 13:38	5°× 7 30'52	
		0 3 15° る 21'00		•		0° ₹ 47'37	3 30 21
morning set	7888 Jan 12 15:19			morning rise	7888 Nov 30 15:38		
	7888 Jan 21 05:06	0° ≈		direct	7888 Dec 02 21:25	0° ₹26'25	
desc. node	7888 Jan 22 15:11	2° ≈ 22'23		asc. node	7888 Dec 04 14:43	0° ∡ 39'21	
				morning max el	7888 Dec 09 21:46	3° ∡ 758'49 −	17°53'27
superior conj	7888 Jan 24 23:59	6°≈17'15		morning set	7888 Dec 25 14:54	28° ∡ 36'19	
minimum elong	7888 Jan 24 22:08	6° ≈ 09'42	0°16'44		7888 Dec 26 09:20	0°ಕ	
max. Earth dist.	7888 Jan 31 01:00	16° ≈ 04'08	1.44402 AU				
	7888 Feb 08 22:30	0° ∀		superior conj	7889 Jan 05 05:46	17° る 32'24	0°23'54
evening rise	7888 Feb 09 11:24	0°) 49′38		minimum elong	7889 Jan 05 07:49	17° ප් 41'15	0°23'43
	7888 Feb 29 04:45	0 ° $\mathbf{\Upsilon}$		desc. node	7889 Jan 08 12:11	23° ප 07'11	
evening max el	7888 Mar 09 10:34	11° Y 27'20	20°45'07	max. Earth dist.	7889 Jan 12 15:36	0° ≈ 00'38	1.42897 AU
asc. node	7888 Mar 15 16:45	15° Ƴ 57'45			7889 Jan 12 15:27	0° ≈	
retrograde	7888 Mar 17 17:10	16° Ƴ 18'40		evening rise	7889 Jan 19 05:04	10° ≈ 32'11	
evening set	7888 Mar 21 18:39	14° Ƴ 44'38		<i>8</i> 11	7889 Feb 01 01:23	0°) €	
inferior conj	7888 Mar 27 02:12	8° Υ 34'58	3°01'04	evening max el	7889 Feb 20 06:16	25°) €07'19	21°58'55
minimum elong	7888 Mar 27 00:19	8° Υ 41'27	3°00'42	evening max er	7889 Feb 26 16:23	0° Υ	21 3033
min. Earth dist.	7888 Mar 27 15:09	7° Υ 50'24	0.67947 AU	retrograde		0° Υ 39'38	
		2° Υ 19'57	0.07947 AU	Č	7889 Mar 01 14:33	0° Υ 34'49	
morning rise	7888 Apr 01 05:46			asc. node	7889 Mar 02 13:50		
1.	7888 Apr 05 14:13	30° ₹ ₩			7889 Mar 04 08:13	30° ₹	
direct	7888 Apr 06 16:53	29°) 54′22		evening set	7889 Mar 06 02:36	28°) € 50'17	
	7888 Apr 07 20:16	0° Y		inferior conj	7889 Mar 11 10:23	22° ∺ 30'43	2°33'35
morning max el	7888 Apr 17 15:29	6° Y 26'45	23°58'16	minimum elong	7889 Mar 11 08:08	22° ∺ 38'34	2°33'01
desc. node	7888 Apr 19 14:49	8° Ƴ 31'49		min. Earth dist.	7889 Mar 11 10:42	22° ∺ 29'37	0.68346 AU
	7888 May 05 22:01	$6^{\circ}B$		morning rise	7889 Mar 16 13:30	16°) (19′34	
morning set	7888 May 23 04:04	27° 8 27'23		direct	7889 Mar 21 10:31	14° 升 14'32	
	7888 May 24 15:21	$\Pi^{\circ}0$		morning max el	7889 Mar 31 02:07	19° ¥ 55'25	22°28'52
max. Earth dist.	7888 May 26 22:03	4° Ⅱ 00'44	1.38355 AU	desc. node	7889 Apr 06 11:47	27° ℋ 16'40	
	•				7889 Apr 08 14:31	0 $^{\circ}$ $\mathbf{\Upsilon}$	
superior conj	7888 Jun 03 04:58	17° Ⅱ 24'55	-1°16'46		7889 Apr 29 02:52	0°8	
minimum elong	7888 Jun 03 09:37	17° II 47'02		morning set	7889 May 03 20:46	7° 8 37'21	
	7888 Jun 09 16:48	0°9		max. Earth dist.	7889 May 08 19:21	15° 8 50'36	1.40599 AU
asc. node	7888 Jun 11 15:48	0 € 3°€51'09		max. Darm UISt.	100) way 00 19.21	15 050 50	1.70333 AU
				avmari ·	7000 M 16 14 20	200	1044152
evening rise	7888 Jun 12 04:34	4°953'50		superior conj	7889 May 16 14:29	29° 8 27'57	
	7888 Jun 27 03:45	0°N	1005642	minimum elong	7889 May 16 20:13	29° 8 53'44	1~44'23
evening max el	7888 Jun 28 13:57	1° Ω 30'41	18°56'43		7889 May 16 21:36	0°II	
retrograde	7888 Jul 07 03:56	5° Ω 45'08		evening rise	7889 May 26 17:37	18° Ⅱ 14'39	
evening set	7888 Jul 09 03:11	5° Ω 32'38		asc. node	7889 May 29 12:51	23° Ⅱ 29'42	
desc. node	7888 Jul 16 14:09	1° Ω 48'29			7889 Jun 02 02:38	0ಂತ	

avaning may al	7889 Jun 11 19:41	14°500'16	10021122		7890 May 30 18:21	0° ©	
evening max el			16 21 33	ratra ara da	•	0°\$22'36	
retrograde	7889 Jun 19 04:46	17°5541'43		retrograde	7890 Jun 01 22:50		
evening set	7889 Jun 21 10:51	17°921'57	1010125		7890 Jun 04 03:59	30°RⅡ	
inferior conj	7889 Jun 28 20:21	12°5645'14	1°19'35	evening set	7890 Jun 04 12:18	29° ∏ 52'31	2024125
minimum elong	7889 Jun 28 22:52	12°5540'02	1°18'37	inferior conj	7890 Jun 11 04:31	24° ∏ 55'37	
min. Earth dist.	7889 Jul 02 05:53	9° © 58'11	0.58576 AU	minimum elong	7890 Jun 11 07:35	24° ∏ 48'16	
desc. node	7889 Jul 03 11:12	9° © 02'53		min. Earth dist.	7890 Jun 14 09:45	21° ∏ 51'58	0.60805 AU
morning rise	7889 Jul 06 07:37	7° © 14'24		morning rise	7890 Jun 18 00:23	19° Ⅱ 00'03	
direct	7889 Jul 12 10:41	5° © 35'01		desc. node	7890 Jun 20 08:15	17° Ⅱ 44'17	
morning max el	7889 Jul 26 20:00	13° © 19'17	27°14'05	direct	7890 Jun 24 15:06	16° Ⅱ 49'37	
	7889 Aug 09 01:39	$\mathfrak{O}_{\circ} \mathfrak{O}$		morning max el	7890 Jul 08 22:16	24° ∏ 47'59	27°51'15
asc. node	7889 Aug 25 12:15	29° Ω 36'15			7890 Jul 13 16:11	0	
	7889 Aug 25 16:49	0° m			7890 Aug 02 10:51	$0 {\circ} \Omega$	
morning set	7889 Aug 26 11:25	1° m)37'31		morning set	7890 Aug 10 15:58	15° Ω 59'24	
				asc. node	7890 Aug 12 09:14	19° Ω 35'13	
superior conj	7889 Sep 02 11:57	16° m 55'33	1°13'43	max. Earth dist.	7890 Aug 16 15:43	28° Ω 48'04	1.31835 AU
minimum elong	7889 Sep 02 09:42	16° Mp 43′04	1°13'21		7890 Aug 17 04:49	o°mp	
max. Earth dist.	7889 Sep 02 06:14	16° Mp 23'52	1.31692 AU		•		
	7889 Sep 08 10:48	0° <u>ٽ</u>		superior conj	7890 Aug 17 22:52	1° m)39'27	0°54'19
evening rise	7889 Sep 09 06:47	1° ≏ 46'46		minimum elong	7890 Aug 17 20:48	1° mp 28'01	0°53'51
	7889 Sep 24 10:21	0°M		evening rise	7890 Aug 24 17:15	16° Mp 29'02	
desc. node	7889 Sep 29 10:09	7°M20'56		evening rise	7890 Aug 31 08:31	0° ⊽	
evening max el	7889 Oct 08 16:54	18°M10'35	26°30'32	desc. node	7890 Sep 16 07:14	0 — 24° Ω 46'51	
retrograde	7889 Oct 22 14:50	25°M17'05	20 30 32	evening max el	7890 Sep 20 10:03	29° £ 10'09	25014107
•	7889 Oct 22 14.30 7889 Oct 29 07:43	23°M25'57		evening max er		29 = 1009 0° M	23 1407
evening set			0.50441.411	. 1	7890 Sep 21 07:32		
min. Earth dist.	7889 Nov 02 06:23	20°M51'08	0.59441 AU	retrograde	7890 Oct 04 07:32	6°M11'20	
inferior conj	7889 Nov 05 11:21	18°M22'05		evening set	7890 Oct 10 02:36	4°M54'30	0.55420.444
minimum elong	7889 Nov 05 18:27	18°M08'16	4°34'05	min. Earth dist.	7890 Oct 14 21:42	2°M14'23	0.57430 AU
morning rise	7889 Nov 13 07:29	13°M46'26		inferior conj	7890 Oct 17 20:17	0° M .15'33	
direct	7889 Nov 15 13:29	13°M28'24		minimum elong	7890 Oct 18 00:44	0°M08'01	5°20'43
asc. node	7889 Nov 21 11:45	15°M41'14			7890 Oct 18 05:29	30°Ŗ Ω	
morning max el	7889 Nov 23 08:36	17° M 17'41	18°17'51	morning rise	7890 Oct 26 01:12	26° ≏ 02'59	
	7889 Dec 02 09:36	0° ⊀		direct	7890 Oct 28 11:51	25° ≏ 45'22	
morning set	7889 Dec 09 04:30	12° ∡ ′30′53			7890 Nov 06 10:12	0° M ₊	
				morning max el	7890 Nov 06 10:49	0° M 01′28	19°03'29
superior conj	7889 Dec 18 11:11	29° ∡ 55′34	0°56'32	asc. node	7890 Nov 08 08:47	2°M02'16	
minimum elong	7889 Dec 18 14:38	0°る11'14	0°56'11	morning set	7890 Nov 23 03:41	26°M50'58	
	7889 Dec 18 12:10	8°0			7890 Nov 24 17:50	0° ∡ ¹	
max. Earth dist.	7889 Dec 26 01:28	13° る 19'44	1.40953 AU				
desc. node							
	7889 Dec 26 09:12	13° る 52'39		superior conj	7890 Dec 01 11:05	13° ∡ 11'14	1°19'50
evening rise	7889 Dec 26 09:12 7889 Dec 30 16:52	13°る52'39 21°る05'10			7890 Dec 01 11:05 7890 Dec 01 14:12	13° ⊀ 11'14 13° ⊀ 26'11	1°19'50 1°19'36
evening rise				minimum elong	7890 Dec 01 14:12		
evening rise	7889 Dec 30 16:52 7890 Jan 05 06:33	21° ට 05'10 0°≈				13° ⊀ 26'11 25° ≮ 54'26	1°19'36
ū	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50	21° පි 05'10 0°≈ 0°¥	23°18'22	minimum elong max. Earth dist.	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37	13° ₹26'11 25° ₹54'26 0° ₹	1°19'36
evening max el	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52	21°る05'10 0°≈ 0°升 8°升49'42	23°18'22	minimum elong max. Earth dist.	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43	13° メ 26'11 25° メ 54'26 0°る 2°る36'46	1°19'36
evening max el retrograde	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28	21°る05'10 0°≈ 0°升 8°升49'42 15°升01'52	23°18'22	minimum elong max. Earth dist.	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13	13° ₹26'11 25° ₹54'26 0° ප 2° ප36'46 4° ප34'34	1°19'36
evening max el retrograde asc. node	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28 7890 Feb 17 10:55	21° 5 05'10 0°≈ 0° X 8° X 49'42 15° X 01'52 13° X 40'19	23°18'22	minimum elong max. Earth dist. evening rise desc. node	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13 7890 Dec 29 11:25	13° ₹26'11 25° ₹54'26 0° ₹5 2° ₹36'46 4° ₹334'34 0° ≈	1°19'36 1.38801 AU
evening max el retrograde asc. node evening set	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28 7890 Feb 17 10:55 7890 Feb 18 09:15	21°る05'10 0°≈ 0°米 8°升49'42 15°升01'52 13°升40'19 12°升57'32		minimum elong max. Earth dist. evening rise desc. node evening max el	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13 7890 Dec 29 11:25 7891 Jan 16 11:13	13° ₹26'11 25° ₹54'26 0° ₹ 2° ₹36'46 4° ₹34'34 0° ≈ 22° ≈34'54	1°19'36 1.38801 AU
evening max el retrograde asc. node evening set inferior conj	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28 7890 Feb 17 10:55 7890 Feb 18 09:15 7890 Feb 23 18:56	21°る05'10 0°≈ 0°米 8°米49'42 15°米01'52 13°米40'19 12°米57'32 6°米31'23	1°57'16	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13 7890 Dec 29 11:25 7891 Jan 16 11:13 7891 Jan 28 00:42	13° ₹26'11 25° ₹54'26 0° ₹ 2° ₹36'46 4° ₹34'34 0° ≈ 22° ≈34'54 29° ≈20'12	1°19'36 1.38801 AU
evening max el retrograde asc. node evening set inferior conj minimum elong	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28 7890 Feb 17 10:55 7890 Feb 18 09:15 7890 Feb 23 18:56 7890 Feb 23 16:46	21°る05'10 0°≈ 0°升 8°升49'42 15°升01'52 13°升40'19 12°升57'32 6°升31'23 6°升38'52	1°57'16 1°56'36	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13 7890 Dec 29 11:25 7891 Jan 16 11:13 7891 Jan 28 00:42 7891 Feb 02 13:02	13° \$\frac{7}{26}'11 25° \$\frac{7}{54}'26 0° \$\frac{7}{36}'46 4° \$\frac{7}{34}'34 0° \$\approx 22° \$\approx 34'54 29° \$\approx 20'12 27° \$\approx 02'18	1°19'36 1.38801 AU
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evening max el retrograde asc. node evening set inferior conj minimum elong	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28 7890 Feb 17 10:55 7890 Feb 18 09:15 7890 Feb 23 18:56 7890 Feb 23 16:46 7890 Feb 23 07:27 7890 Mar 01 00:13	21°♂05'10 0°≈ 0°¥ 8°¥49'42 15°¥01'52 13°¥40'19 12°¥57'32 6°¥31'23 6°¥38'52 7°¥10'56 0°¥25'23	1°57'16 1°56'36	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist.	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13 7890 Dec 29 11:25 7891 Jan 16 11:13 7891 Jan 28 00:42 7891 Feb 02 13:02 7891 Feb 04 08:00 7891 Feb 07 03:09	13° \$\frac{7}{26}'11 25° \$\frac{7}{54}'26 0° \$\frac{7}{5}'36'46 4° \$\frac{7}{3}'34'34 0° \$\approx 22° \$\approx 34'54 29° \$\approx 20'12 27° \$\approx 20'18 25° \$\approx 17'03 21° \$\approx 49'53	1°19'36 1.38801 AU 24°37'30 0.67912 AU
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evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28 7890 Feb 17 10:55 7890 Feb 18 09:15 7890 Feb 23 16:46 7890 Feb 23 07:27 7890 Mar 01 00:13 7890 Mar 01 13:44 7890 Mar 05 07:15	21°♂05'10 0°≈ 0°¥ 8°¥49'42 15°¥01'52 13°¥40'19 12°¥57'32 6°¥31'23 6°¥38'52 7°¥10'56 0°¥25'23 30°R≈ 28°≈42'55	1°57'16 1°56'36	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13 7890 Dec 29 11:25 7891 Jan 16 11:13 7891 Jan 28 00:42 7891 Feb 02 13:02 7891 Feb 04 08:00 7891 Feb 07 03:09 7891 Feb 08 01:59 7891 Feb 08 00:23	13° \$\frac{7}{26'11} 25° \$\frac{7}{54'26} 0° \$\frac{7}{6}\$ 2° \$\frac{7}{36'46}\$ 4° \$\frac{7}{34'34}\$ 0° \$\infty\$ 22° \$\approx 34'54\$ 29° \$\approx 20'12\$ 27° \$\approx 02'18\$ 25° \$\approx 17'03\$ 21° \$\approx 49'53\$ 20° \$\approx 33'48\$ 20° \$\approx 39'11	1°19'36 1.38801 AU 24°37'30 0.67912 AU
evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28 7890 Feb 17 10:55 7890 Feb 18 09:15 7890 Feb 23 18:56 7890 Feb 23 07:27 7890 Mar 01 00:13 7890 Mar 01 13:44 7890 Mar 05 07:15 7890 Mar 09 08:35	21°♂05'10 0°≈ 0° ₩ 8° ₩ 49'42 15° ₩ 01'52 13° ₩ 40'19 12° ₩ 57'32 6° ₩ 31'23 6° ₩ 38'52 7° ₩ 10'56 0° ₩ 25'23 30° R≈ 28°≈ 42'55 0° ₩	1°57'16 1°56'36 0.68328 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13 7890 Dec 29 11:25 7891 Jan 16 11:13 7891 Jan 28 00:42 7891 Feb 02 13:02 7891 Feb 04 08:00 7891 Feb 07 03:09 7891 Feb 08 01:59 7891 Feb 08 00:23 7891 Feb 13 11:54	13° \$\frac{7}{26'11} 25° \$\frac{7}{54'26} 0° \$\frac{7}{6}\$ 2° \$\frac{7}{36'46}\$ 4° \$\frac{7}{34'34}\$ 0° \$\approx\$ 22° \$\approx 34'54\$ 29° \$\approx 20'12\$ 27° \$\approx 02'18\$ 25° \$\approx 17'03\$ 21° \$\approx 49'53\$ 20° \$\approx 33'48\$ 20° \$\approx 33'41\$ 14° \$\approx 34'22\$	1°19'36 1.38801 AU 24°37'30 0.67912 AU 1°12'44
evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28 7890 Feb 17 10:55 7890 Feb 18 09:15 7890 Feb 23 18:56 7890 Feb 23 16:46 7890 Feb 23 07:27 7890 Mar 01 00:13 7890 Mar 01 00:13 7890 Mar 05 07:15 7890 Mar 09 08:35 7890 Mar 13 18:07	21°♂05'10 0°≈ 0° ₩ 8° ₩ 49'42 15° ₩ 01'52 13° ₩ 40'19 12° ₩ 57'32 6° ₩ 31'23 6° ₩ 38'52 7° ₩ 10'56 0° ₩ 25'23 30° № 28°≈42'55 0° ₩ 3° ₩ 34'55	1°57'16 1°56'36	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13 7890 Dec 29 11:25 7891 Jan 16 11:13 7891 Jan 28 00:42 7891 Feb 02 13:02 7891 Feb 04 08:00 7891 Feb 07 03:09 7891 Feb 08 01:59 7891 Feb 08 00:23 7891 Feb 13 11:54 7891 Feb 17 05:52	13° \$\frac{7}{26'11} 25° \$\frac{7}{54'26} 0° \$\frac{7}{6}\$ 2° \$\frac{7}{36'46}\$ 4° \$\frac{7}{34'34}\$ 0° \$\infty\$ 22° \$\infty\$34'54 29° \$\infty\$20'12 27° \$\infty\$02'18 25° \$\infty\$17'03 21° \$\infty\$49'53 20° \$\infty\$33'48 20° \$\infty\$39'11 14° \$\infty\$4'22 13° \$\infty\$13'49	1°19'36 1.38801 AU 24°37'30 0.67912 AU 1°12'44 1°12'12
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evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28 7890 Feb 17 10:55 7890 Feb 18 09:15 7890 Feb 23 18:56 7890 Feb 23 16:46 7890 Feb 23 07:27 7890 Mar 01 00:13 7890 Mar 01 00:13 7890 Mar 05 07:15 7890 Mar 09 08:35 7890 Mar 13 18:07 7890 Mar 24 08:46 7890 Apr 02 14:24 7890 Apr 13 10:23	21°♂05'10 0°≈ 0°¥ 8°¥49'42 15°¥01'52 13°¥40'19 12°¥57'32 6°¥31'23 6°¥38'52 7°¥10'56 0°¥25'23 30°R≈ 28°≈42'55 0°¥ 3°¥34'55 16°¥40'23 0°° 16°°¥33'36	1°57'16 1°56'36 0.68328 AU 21°05'34	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13 7890 Dec 29 11:25 7891 Jan 16 11:13 7891 Jan 28 00:42 7891 Feb 02 13:02 7891 Feb 04 08:00 7891 Feb 07 03:09 7891 Feb 08 01:59 7891 Feb 08 00:23 7891 Feb 13 11:54 7891 Feb 17 05:52 7891 Feb 24 17:43 7891 Mar 06 17:36 7891 Mar 09 22:22	13° \$\frac{7}{26'11} 25° \$\frac{7}{26'26} 0° \$\frac{7}{26'36'46} 4° \$\frac{7}{34'34} 0° \$\infty\$ 22° \$\infty 34'54 29° \$\infty 20'12 27° \$\infty 02'18 25° \$\infty 17'03 21° \$\infty 49'53 20° \$\infty 33'48 20° \$\infty 34'22 13° \$\infty 13'49 17° \$\infty 26'20 0° \$\frac{1}{4}\$ 4° \$\frac{1}{4}37'01	1°19'36 1.38801 AU 24°37'30 0.67912 AU 1°12'44 1°12'12
evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28 7890 Feb 17 10:55 7890 Feb 18 09:15 7890 Feb 23 18:56 7890 Feb 23 16:46 7890 Feb 23 07:27 7890 Mar 01 00:13 7890 Mar 01 00:13 7890 Mar 05 07:15 7890 Mar 09 08:35 7890 Mar 13 18:07 7890 Mar 24 08:46 7890 Apr 02 14:24 7890 Apr 13 10:23 7890 Apr 20 22:45	21°♂05'10 0°≈ 0°¥ 8°¥49'42 15°¥01'52 13°¥40'19 12°¥57'32 6°¥31'23 6°¥38'52 7°¥10'56 0°¥25'23 30°₹≈ 28°≈42'55 0°¥ 3°¥34'55 16°¥40'23 0°Ŷ 16°Ŷ33'36 28°Ŷ34'58	1°57'16 1°56'36 0.68328 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13 7890 Dec 29 11:25 7891 Jan 16 11:13 7891 Jan 28 00:42 7891 Feb 02 13:02 7891 Feb 04 08:00 7891 Feb 08 01:59 7891 Feb 08 00:23 7891 Feb 13 11:54 7891 Feb 17 05:52 7891 Feb 24 17:43 7891 Mar 06 17:36 7891 Mar 09 22:22 7891 Mar 11 05:43	13° \$\frac{7}{26'11} 25° \$\frac{7}{26'26} 0° \$\frac{7}{26'36'46} 4° \$\frac{7}{34'34} 0° \$\infty\$ 22° \$\infty\$34'54 29° \$\infty\$20'12 27° \$\infty\$02'18 25° \$\infty\$17'03 21° \$\infty\$49'53 20° \$\infty\$3'48 20° \$\infty\$3'11 14° \$\infty\$34'22 13° \$\infty\$13'49 17° \$\infty\$26'20 0° \$\frac{1}{26'20} 0° \$	1°19'36 1.38801 AU 24°37'30 0.67912 AU 1°12'44 1°12'12
evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28 7890 Feb 17 10:55 7890 Feb 18 09:15 7890 Feb 23 18:56 7890 Feb 23 16:46 7890 Feb 23 07:27 7890 Mar 01 00:13 7890 Mar 01 00:13 7890 Mar 05 07:15 7890 Mar 09 08:35 7890 Mar 13 18:07 7890 Mar 24 08:46 7890 Apr 02 14:24 7890 Apr 13 10:23	21°♂05'10 0°≈ 0°¥ 8°¥49'42 15°¥01'52 13°¥40'19 12°¥57'32 6°¥31'23 6°¥38'52 7°¥10'56 0°¥25'23 30°R≈ 28°≈42'55 0°¥ 3°¥34'55 16°¥40'23 0°° 16°°¥33'36	1°57'16 1°56'36 0.68328 AU 21°05'34	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13 7890 Dec 29 11:25 7891 Jan 16 11:13 7891 Jan 28 00:42 7891 Feb 02 13:02 7891 Feb 04 08:00 7891 Feb 08 01:59 7891 Feb 08 00:23 7891 Feb 13 11:54 7891 Feb 17 05:52 7891 Feb 24 17:43 7891 Mar 06 17:36 7891 Mar 09 22:22 7891 Mar 11 05:43 7891 Mar 23 08:03	13° \$\frac{7}{26'11} 25° \$\frac{7}{26'26} 0° \$\frac{7}{36'46} 4° \$\frac{7}{36'46} 4° \$\frac{7}{34'34} 0° \$\infty\$ 22° \$\infty\$34'54 29° \$\infty\$20'12 27° \$\infty\$02'18 25° \$\infty\$17'03 21° \$\infty\$49'53 20° \$\infty\$3'48 20° \$\infty\$3'11 14° \$\infty\$34'22 13° \$\infty\$13'49 17° \$\infty\$26'20 0° \$\frac{7}{4} 4° \$\frac{7}{37'01} 6° \$\frac{7}{32'18} 24° \$\frac{7}{51'27}	1°19'36 1.38801 AU 24°37'30 0.67912 AU 1°12'44 1°12'12
evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28 7890 Feb 17 10:55 7890 Feb 18 09:15 7890 Feb 23 18:56 7890 Feb 23 16:46 7890 Feb 23 07:27 7890 Mar 01 00:13 7890 Mar 01 00:13 7890 Mar 05 07:15 7890 Mar 09 08:35 7890 Mar 13 18:07 7890 Mar 24 08:46 7890 Apr 02 14:24 7890 Apr 13 10:23 7890 Apr 20 22:45	21°♂05'10 0°≈ 0°¥ 8°¥49'42 15°¥01'52 13°¥40'19 12°¥57'32 6°¥31'23 6°¥38'52 7°¥10'56 0°¥25'23 30°₹≈ 28°≈42'55 0°¥ 3°¥34'55 16°¥40'23 0°Ŷ 16°Ŷ33'36 28°Ŷ34'58	1°57'16 1°56'36 0.68328 AU 21°05'34	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13 7890 Dec 29 11:25 7891 Jan 16 11:13 7891 Jan 28 00:42 7891 Feb 02 13:02 7891 Feb 04 08:00 7891 Feb 08 01:59 7891 Feb 08 00:23 7891 Feb 13 11:54 7891 Feb 17 05:52 7891 Feb 24 17:43 7891 Mar 06 17:36 7891 Mar 09 22:22 7891 Mar 11 05:43	13° \$\frac{7}{26'11} 25° \$\frac{7}{54'26} 0° \$\frac{7}{6}\$ 2° \$\frac{7}{36'46}\$ 4° \$\frac{3}{34'34}\$ 0° \$\infty\$ 22° \$\infty\$34'54 29° \$\infty\$20'12 27° \$\infty\$02'18 25° \$\infty\$17'03 21° \$\infty\$49'53 20° \$\infty\$33'48 20° \$\infty\$39'11 14° \$\infty\$34'22 13° \$\infty\$13'49 17° \$\infty\$26'20 0° \$\frac{1}{4}\$ 4° \$\frac{1}{3}\$3'18 24° \$\frac{1}{5}\$1'27 0° \$\frac{1}{7}\$	1°19'36 1.38801 AU 24°37'30 0.67912 AU 1°12'44 1°12'12
evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28 7890 Feb 17 10:55 7890 Feb 18 09:15 7890 Feb 23 18:56 7890 Feb 23 16:46 7890 Feb 23 07:27 7890 Mar 01 00:13 7890 Mar 01 00:13 7890 Mar 05 07:15 7890 Mar 09 08:35 7890 Mar 13 18:07 7890 Mar 24 08:46 7890 Apr 02 14:24 7890 Apr 13 10:23 7890 Apr 20 22:45	21°♂05'10 0°≈ 0°¥ 8°¥49'42 15°¥01'52 13°¥40'19 12°¥57'32 6°¥31'23 6°¥38'52 7°¥10'56 0°¥25'23 30°₹≈ 28°≈42'55 0°¥ 3°¥34'55 16°¥40'23 0°Ŷ 16°Ŷ33'36 28°Ŷ34'58	1°57'16 1°56'36 0.68328 AU 21°05'34	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13 7890 Dec 29 11:25 7891 Jan 16 11:13 7891 Jan 28 00:42 7891 Feb 02 13:02 7891 Feb 04 08:00 7891 Feb 08 01:59 7891 Feb 08 00:23 7891 Feb 13 11:54 7891 Feb 17 05:52 7891 Feb 24 17:43 7891 Mar 06 17:36 7891 Mar 09 22:22 7891 Mar 11 05:43 7891 Mar 23 08:03	13° \$\frac{7}{26'11} 25° \$\frac{7}{26'26} 0° \$\frac{7}{36'46} 4° \$\frac{7}{36'46} 4° \$\frac{7}{34'34} 0° \$\infty\$ 22° \$\infty\$34'54 29° \$\infty\$20'12 27° \$\infty\$02'18 25° \$\infty\$17'03 21° \$\infty\$49'53 20° \$\infty\$3'48 20° \$\infty\$3'11 14° \$\infty\$34'22 13° \$\infty\$13'49 17° \$\infty\$26'20 0° \$\frac{7}{4} 4° \$\frac{7}{37'01} 6° \$\frac{7}{32'18} 24° \$\frac{7}{51'27}	1°19'36 1.38801 AU 24°37'30 0.67912 AU 1°12'44 1°12'12
evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28 7890 Feb 17 10:55 7890 Feb 18 09:15 7890 Feb 23 16:46 7890 Feb 23 07:27 7890 Mar 01 00:13 7890 Mar 01 13:44 7890 Mar 05 07:15 7890 Mar 09 08:35 7890 Mar 13 18:07 7890 Mar 24 08:46 7890 Apr 02 14:24 7890 Apr 13 10:23 7890 Apr 20 22:45 7890 Apr 21 19:32	21°♂05'10 0°≈ 0°H 8°H49'42 15°H01'52 13°H40'19 12°H57'32 6°H31'23 6°H38'52 7°H10'56 0°H25'23 30°R≈ 28°≈42'55 0°H 3°H34'55 16°H40'23 0°Y 16°Y33'36 28°Y34'58 0°B	1°57'16 1°56'36 0.68328 AU 21°05'34 1.42648 AU -2°05'06	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13 7890 Dec 29 11:25 7891 Jan 16 11:13 7891 Jan 28 00:42 7891 Feb 02 13:02 7891 Feb 04 08:00 7891 Feb 07 03:09 7891 Feb 08 01:59 7891 Feb 08 00:23 7891 Feb 13 11:54 7891 Feb 17 05:52 7891 Feb 17 05:52 7891 Feb 24 17:43 7891 Mar 06 17:36 7891 Mar 09 22:22 7891 Mar 11 05:43 7891 Mar 23 08:03 7891 Mar 26 15:48	13° \$\frac{7}{26'11} 25° \$\frac{7}{54'26} 0° \$\frac{7}{6}\$ 2° \$\frac{7}{36'46}\$ 4° \$\frac{3}{34'34}\$ 0° \$\infty\$ 22° \$\infty\$34'54 29° \$\infty\$20'12 27° \$\infty\$02'18 25° \$\infty\$17'03 21° \$\infty\$49'53 20° \$\infty\$33'48 20° \$\infty\$39'11 14° \$\infty\$34'22 13° \$\infty\$13'49 17° \$\infty\$26'20 0° \$\frac{1}{4}\$ 4° \$\frac{1}{3}\$3'18 24° \$\frac{1}{5}\$1'27 0° \$\frac{1}{7}\$	1°19'36 1.38801 AU 24°37'30 0.67912 AU 1°12'44 1°12'12 19°54'04 -0.6m
evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28 7890 Feb 17 10:55 7890 Feb 18 09:15 7890 Feb 23 16:46 7890 Feb 23 07:27 7890 Mar 01 00:13 7890 Mar 01 13:44 7890 Mar 05 07:15 7890 Mar 09 08:35 7890 Mar 13 18:07 7890 Mar 24 08:46 7890 Apr 02 14:24 7890 Apr 13 10:23 7890 Apr 20 22:45 7890 Apr 21 19:32	21°♂05'10 0°≈ 0°H 8°H49'42 15°H01'52 13°H40'19 12°H57'32 6°H31'23 6°H38'52 7°H10'56 0°H25'23 30°R≈ 28°≈42'55 0°H 3°H34'55 16°H40'23 0°Y 16°Y33'36 28°Y34'58 0°B	1°57'16 1°56'36 0.68328 AU 21°05'34 1.42648 AU -2°05'06	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13 7890 Dec 29 11:25 7891 Jan 16 11:13 7891 Jan 28 00:42 7891 Feb 02 13:02 7891 Feb 04 08:00 7891 Feb 07 03:09 7891 Feb 08 01:59 7891 Feb 08 00:23 7891 Feb 13 11:54 7891 Feb 17 05:52 7891 Feb 17 05:52 7891 Feb 24 17:43 7891 Mar 06 17:36 7891 Mar 09 22:22 7891 Mar 11 05:43 7891 Mar 23 08:03 7891 Mar 26 15:48	13° \$\frac{7}{26'11} 25° \$\frac{7}{54'26} 0° \$\frac{7}{6}\$ 2° \$\frac{7}{36'46}\$ 4° \$\frac{3}{34'34}\$ 0° \$\infty\$ 22° \$\infty\$34'54 29° \$\infty\$20'12 27° \$\infty\$02'18 25° \$\infty\$17'03 21° \$\infty\$49'53 20° \$\infty\$33'48 20° \$\infty\$39'11 14° \$\infty\$34'22 13° \$\infty\$13'49 17° \$\infty\$26'20 0° \$\frac{1}{4}\$ 4° \$\frac{1}{3}\$3'18 24° \$\frac{1}{5}\$1'27 0° \$\frac{1}{7}\$	1°19'36 1.38801 AU 24°37'30 0.67912 AU 1°12'44 1°12'12 19°54'04 -0.6m
evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28 7890 Feb 17 10:55 7890 Feb 18 09:15 7890 Feb 23 18:56 7890 Feb 23 16:46 7890 Feb 23 07:27 7890 Mar 01 00:13 7890 Mar 01 13:44 7890 Mar 05 07:15 7890 Mar 09 08:35 7890 Mar 13 18:07 7890 Mar 24 08:46 7890 Apr 02 14:24 7890 Apr 13 10:23 7890 Apr 20 22:45 7890 Apr 21 19:32	21°♂05'10 0°≈ 0°H 8°H49'42 15°H01'52 13°H40'19 12°H57'32 6°H31'23 6°H38'52 7°H10'56 0°H25'23 30°R≈ 28°≈42'55 0°H 3°H34'55 16°H40'23 0°Y 16°Y33'36 28°Y34'58 0°B 10°B31'25 10°B49'51	1°57'16 1°56'36 0.68328 AU 21°05'34 1.42648 AU -2°05'06	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist.	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13 7890 Dec 29 11:25 7891 Jan 16 11:13 7891 Jan 28 00:42 7891 Feb 02 13:02 7891 Feb 04 08:00 7891 Feb 07 03:09 7891 Feb 08 01:59 7891 Feb 08 00:23 7891 Feb 13 11:54 7891 Feb 17 05:52 7891 Feb 17 05:52 7891 Feb 24 17:43 7891 Mar 06 17:36 7891 Mar 09 22:22 7891 Mar 11 05:43 7891 Mar 23 08:03 7891 Mar 26 15:48 7891 Apr 03 08:58	13° \$\frac{7}{26'11} 25° \$\frac{7}{54'26} 0° \$\frac{7}{6}\$ 2° \$\frac{7}{36'46}\$ 4° \$\frac{7}{34'34}\$ 0° \$\infty\$ 22° \$\infty\$34'54 29° \$\infty\$20'12 27° \$\infty\$02'18 25° \$\infty\$17'03 21° \$\infty\$49'53 20° \$\infty\$33'48 20° \$\infty\$39'11 14° \$\infty\$34'22 13° \$\infty\$13'49 17° \$\infty\$26'20 0° \$\frac{1}{4}\$ 4° \$\frac{1}{37'01}\$ 6° \$\frac{1}{32'18}\$ 24° \$\frac{1}{35'127}\$ 0° \$\frac{1}{35'127}\$ 12° \$\frac{1}{35'143}\$	1°19'36 1.38801 AU 24°37'30 0.67912 AU 1°12'44 1°12'12 19°54'04 -0.6m 1.44250 AU -2°11'25
evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28 7890 Feb 17 10:55 7890 Feb 18 09:15 7890 Feb 23 18:56 7890 Feb 23 16:46 7890 Feb 23 07:27 7890 Mar 01 00:13 7890 Mar 01 00:13 7890 Mar 05 07:15 7890 Mar 09 08:35 7890 Mar 13 18:07 7890 Mar 24 08:46 7890 Apr 02 14:24 7890 Apr 13 10:23 7890 Apr 20 22:45 7890 Apr 21 19:32 7890 Apr 28 02:33 7890 Apr 28 06:52 7890 May 09 04:33	21°る05'10 0°≈ 0°升 8°升49'42 15°升01'52 13°升40'19 12°升57'32 6°升31'23 6°升38'52 7°升10'56 0°升25'23 30°R≈ 28°≈42'55 0°升 3°升34'55 16°升33'36 28°介34'58 0°岁 10°号31'25 10°号49'51 0°用	1°57'16 1°56'36 0.68328 AU 21°05'34 1.42648 AU -2°05'06	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13 7890 Dec 29 11:25 7891 Jan 16 11:13 7891 Jan 28 00:42 7891 Feb 02 13:02 7891 Feb 04 08:00 7891 Feb 07 03:09 7891 Feb 08 01:59 7891 Feb 08 00:23 7891 Feb 13 11:54 7891 Feb 17 05:52 7891 Feb 24 17:43 7891 Mar 06 17:36 7891 Mar 09 22:22 7891 Mar 11 05:43 7891 Mar 23 08:03 7891 Mar 26 15:48 7891 Apr 08 13:52	13° \$\frac{7}{26'11} 25° \$\frac{7}{54'26} 0° \$\frac{7}{6}\$ 2° \$\frac{7}{36'46}\$ 4° \$\frac{7}{34'34}\$ 0° \$\infty\$ 22° \$\infty\$ 20'12 27° \$\infty\$ 20'18 25° \$\infty\$ 17'03 21° \$\infty\$ 49'53 20° \$\infty\$ 33'48 20° \$\infty\$ 34'22 13° \$\infty\$ 13'49 17° \$\infty\$ 26'20 0° \$\frac{7}{4}\$ 4° \$\frac{7}{32'18}\$ 24° \$\frac{7}{51'27}\$ 0° \$\frac{7}{12}\$ 20° \$\frac{7}{29'44}	1°19'36 1.38801 AU 24°37'30 0.67912 AU 1°12'44 1°12'12 19°54'04 -0.6m 1.44250 AU -2°11'25
evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	7889 Dec 30 16:52 7890 Jan 05 06:33 7890 Jan 26 05:50 7890 Feb 02 21:52 7890 Feb 13 09:28 7890 Feb 17 10:55 7890 Feb 18 09:15 7890 Feb 23 18:56 7890 Feb 23 16:46 7890 Feb 23 07:27 7890 Mar 01 00:13 7890 Mar 01 00:13 7890 Mar 05 07:15 7890 Mar 09 08:35 7890 Mar 13 18:07 7890 Mar 13 18:07 7890 Mar 24 08:46 7890 Apr 02 14:24 7890 Apr 13 10:23 7890 Apr 20 22:45 7890 Apr 21 19:32 7890 Apr 28 02:33 7890 Apr 28 06:52 7890 May 09 04:33 7890 May 09 16:38	21°る05'10 0°≈ 0° H 8° H 49'42 15° H 01'52 13° H 40'19 12° H 57'32 6° H 31'23 6° H 38'52 7° H 10'56 0° H 25'23 30° R≈ 28°≈42'55 0° H 3° H 34'55 16° H 40'23 0° Y 16° Y 33'36 28° Y 34'58 0° B 10° B 31'25 10° B 49'51 0° II 0° II 54'18	1°57'16 1°56'36 0.68328 AU 21°05'34 1.42648 AU -2°05'06	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj	7890 Dec 01 14:12 7890 Dec 08 07:14 7890 Dec 10 14:37 7890 Dec 12 02:43 7890 Dec 13 06:13 7890 Dec 29 11:25 7891 Jan 16 11:13 7891 Jan 28 00:42 7891 Feb 02 13:02 7891 Feb 04 08:00 7891 Feb 08 01:59 7891 Feb 08 00:23 7891 Feb 13 11:54 7891 Feb 17 05:52 7891 Feb 24 17:43 7891 Mar 06 17:36 7891 Mar 09 22:22 7891 Mar 11 05:43 7891 Mar 23 08:03 7891 Mar 26 15:48 7891 Apr 08 13:52 7891 Apr 08 13:52 7891 Apr 08 13:55	13° \$\frac{7}{26'11} 25° \$\frac{7}{54'26} 0° \$\frac{7}{6}\text{26'46} 4° \$\frac{7}{34'34} 0° \$\infty\$ 22° \$\infty\$34'54 29° \$\infty\$20'12 27° \$\infty\$02'18 25° \$\infty\$17'03 21° \$\infty\$49'53 20° \$\infty\$33'48 20° \$\infty\$39'11 14° \$\infty\$34'22 13° \$\infty\$13'49 17° \$\infty\$26'20 0° \$\frac{1}{4}\text{37'01} 6° \$\frac{1}{4}32'18 24° \$\frac{1}{4}51'27 0° \$\frac{1}{4}\$ 20° \$\frac{1}{4}\$29'44 20° \$\frac{1}{4}\$25'52	1°19'36 1.38801 AU 24°37'30 0.67912 AU 1°12'44 1°12'12 19°54'04 -0.6m 1.44250 AU -2°11'25

	7891 May 02 04:21	0°Ⅱ		evening rise	7892 Apr 02 02:29	23° Y '31'28	
asc. node	7891 May 03 06:59	1° Ⅱ 43'40		-	7892 Apr 06 01:53	0°8	
evening max el	7891 May 09 20:13	10° Ⅱ 16′06	18°10'10	asc. node	7892 Apr 19 04:04	20° 8 03'40	
retrograde	7891 May 16 05:37	13° Ⅲ 37′52		evening max el	7892 Apr 22 08:36	23° 8 45'17	18°32'25
evening set	7891 May 19 02:16	12° Ⅱ 55′26		retrograde	7892 Apr 28 20:46	27° 8 17'59	
inferior conj	7891 May 25 05:11	7° Ⅱ 39'48	3°03'39	evening set	7892 May 02 00:39	26° 8 21'49	
minimum elong	7891 May 25 07:21	7° Ⅱ 33'54	3°03'11	inferior conj	7892 May 07 18:09	20° 8 48'50	3°21'49
min. Earth dist.	7891 May 27 22:37	4° Ⅱ 43'10	0.62988 AU	minimum elong	7892 May 07 18:58	20° 8 46'25	3°21'39
morning rise	7891 May 31 10:54	1° Ⅱ 30′09		min. Earth dist.	7892 May 09 20:36	18° 8 18'11	0.64906 AU
	7891 Jun 02 20:12	30°₽ ႘		morning rise	7892 May 13 12:28	14° 8 32'56	
direct	7891 Jun 07 05:35	28° 8 55'51		direct	7892 May 20 03:57	11° 8 46'44	
desc. node	7891 Jun 07 05:16	28° 8 55'51		desc. node	7892 May 24 02:15	12° 8 36'20	
	7891 Jun 11 21:56	0°П		morning max el	7892 Jun 02 15:35	19° 8 42'23	27°14'13
morning max el	7891 Jun 21 05:41	6° ∏ 58'50	27°50'08		7892 Jun 11 10:11	Π °0	
	7891 Jul 08 19:17	0°©			7892 Jun 30 20:17	0°©	
morning set	7891 Jul 25 14:10	0° Ω 00'02		morning set	7892 Jul 08 03:15	13° © 31'09	
	7891 Jul 25 14:09	0 ° Ω		max. Earth dist.	7892 Jul 12 16:19	22° © 35'22	1.33542 AU
asc. node	7891 Jul 30 06:15	9° Ω 40'12	1 22 1 17 1 17		5000 X 1 16 10 00	00 00 440	0000104
max. Earth dist.	7891 Jul 30 20:17	10° Ω 54'54	1.32447 AU	superior conj	7892 Jul 16 10:28	0° Ω 24'42	0°03'04
	7001 4 02 07 05	160 0 1 1100	0020124	minimum elong	7892 Jul 16 10:19	0° Ω 23'54	0°02'56
superior conj	7891 Aug 02 07:05	16° Ω 11'20	0°30'34	behind sun begin	7892 Jul 16 04:50	29°954'58	
minimum elong	7891 Aug 02 05:42	16° Ω 03'50	0°30'11	behind sun end	7892 Jul 16 15:48	0° £ 52'53	
	7891 Aug 08 15:34	0° Mp		asc. node	7892 Jul 16 03:15	29°5946'33	
evening rise	7891 Aug 09 04:56	1°Mp11'34 0° ≏			7892 Jul 16 05:48	0° Ω 15° Ω 48'18	
	7891 Aug 24 23:40		22020120	evening rise	7892 Jul 23 15:54		
evening max el desc. node	7891 Sep 01 21:48	9° £ 32'17 10° £ 42'58	23°38'38	avaning may al	7892 Jul 30 18:02	0° Mp 19° Mp 48'26	22°00'29
	7891 Sep 03 04:18 7891 Sep 15 12:08	10 <u>22</u> 42 38 16° <u>2</u> 20'45		evening max el desc. node	7892 Aug 13 11:53 7892 Aug 20 01:22	24° m 38'07	22 00 29
retrograde evening set	7891 Sep 19 21:15	16 2 043		retrograde	7892 Aug 26 04:40	26° Mp 06'52	
min. Earth dist.	7891 Sep 26 07:57	13 ≥ 3643 12° ⊆ 34'40	0.55789 AU	evening set	7892 Aug 29 04:40 7892 Aug 29 02:44	25° m) 47'53	
inferior conj	7891 Sep 28 09:00	12 ⊆ 3440 11° ⊆ 21'23		min. Earth dist.	7892 Sep 06 16:34	22° m) 05'28	0.54838 AU
minimum elong	7891 Sep 28 06:50		5°30'50	inferior conj	7892 Sep 07 05:57	21° m/ 46'43	
morning rise	7891 Oct 06 18:36	7° £ 27'09	3 30 30	minimum elong	7892 Sep 06 21:24	21° m 58'43	4°46'35
direct	7891 Oct 09 14:45	7° Ω 07'08		morning rise	7892 Sep 15 17:29	17° m ₂ 58'02	1 1033
morning max el	7891 Oct 20 01:12	12° ⊆ 00'38	20°11'28	direct	7892 Sep 19 02:57	17° m/32'32	
asc. node	7891 Oct 26 05:47	19° £ 27'06		morning max el	7892 Oct 01 02:38	23° m/ 10'56	21°40'30
	7891 Nov 01 13:22	0°M		. <i></i>	7892 Oct 07 01:25	0∘ <u>⊽</u>	
morning set	7891 Nov 07 09:13	11° M 27'43		asc. node	7892 Oct 12 02:46	7° - 41'30	
Č				morning set	7892 Oct 21 18:42	26° ≏ 14'24	
superior conj	7891 Nov 15 00:34	27°M05'29	1°34'18	Č	7892 Oct 23 13:37	0° M	
minimum elong	7891 Nov 15 02:32	27°M15'22	1°34'16				
	7891 Nov 16 11:28	0°⊀		superior conj	7892 Oct 28 23:40	11°M26'49	1°40'56
max. Earth dist.	7891 Nov 20 13:27	7° ∡ 756'50	1.36700 AU	minimum elong	7892 Oct 29 00:16	11°M29'59	1°41'01
evening rise	7891 Nov 24 09:10	15° ∡ 03'21		max. Earth dist.	7892 Nov 02 01:41	19°M50'38	1.34855 AU
desc. node	7891 Nov 30 03:15	25° 渘 '09'00		evening rise	7892 Nov 06 08:32	28°M15'23	
	7891 Dec 03 01:15	5°0			7892 Nov 07 06:34	0° ∡ ¹	
	7891 Dec 24 03:35	0° ≈		desc. node	7892 Nov 16 00:17	15° ∡ ³31'17	
evening max el	7891 Dec 30 00:14	6° ≈ 21'49	25°49'14		7892 Nov 25 07:00	0°ಕ	
retrograde	7892 Jan 11 11:13	13° ≈ 29′02		evening max el	7892 Dec 11 13:35	20° る 04'44	26°46'09
evening set	7892 Jan 17 12:15	11° ≈ 00′12		retrograde	7892 Dec 24 16:09	27° る 22'17	
min. Earth dist.	7892 Jan 21 19:30	6° ≈ 22'17	0.67122 AU	evening set	7892 Dec 31 05:04	24° ろ 46'49	
asc. node	7892 Jan 22 05:04	5° ≈ 52'17		min. Earth dist.	7893 Jan 04 06:12	20° る 43'33	0.65972 AU
inferior conj	7892 Jan 23 05:40	4° ≈ 34'29	0°20'28	inferior conj	7893 Jan 06 03:55	18° る 29'34	
minimum elong	7892 Jan 23 05:08	4°≈36'09	0°20'22	minimum elong	7893 Jan 06 05:01	18° ろ 26'20	0°38'16
	7892 Jan 27 06:40	30°Rる		asc. node	7893 Jan 08 02:06	16°る18'06	
morning rise	7892 Jan 28 22:32	28° 3 43'32		morning rise	7893 Jan 12 05:57	12° ⋜ 49'36	
direct	7892 Feb 01 04:55	27° る 42'23		direct	7893 Jan 15 02:32	12° ろ 04'26	10017117
	7892 Feb 06 10:26	0°≈ 1°227!12	10057120	morning max el	7893 Jan 21 14:17	15° る 33'05	18°17'16
morning max el	7892 Feb 08 00:58	1°≈27'12	18°57'28	morning set	7893 Feb 01 05:33	0°≈ 13°0051'52	
desc. node	7892 Feb 26 02:40	26° ≈ 44'31		morning set	7893 Feb 09 21:52	13°≈51'52	
marning sat	7892 Feb 28 05:03	0° \ 3° \ 40'10		desc. node	7893 Feb 11 23:37	17°≈11'42	
morning set	7892 Mar 01 13:39 7892 Mar 16 00:53	3° 1 15'48	1.45232 AU		7893 Feb 20 00:32	0° ∺	
max. Earth dist.	(0.77. IVIAL TO UU 1.)	20 N 1348	1.43232 AU			>	
	70,21,141 10 00.05			superior coni	7893 Feb. 25 07-38	8°# 20'10	-1°26'22
superior coni		29°¥33'00	-1°58'30	superior conj	7893 Feb 25 07:38 7893 Feb 24 22:19		-1°26'22 1°25'19
superior conj	7892 Mar 18 03:05	29°) 33'09		minimum elong	7893 Feb 24 22:19	7°) 43′45	1°25'19
superior conj minimum elong		29°¥33'09 29°¥02'53 0°℃					

evening rise greatest brilliancy	7893 Mar 13 09:03 7893 Mar 24 11:19	3° Υ 26'48 20° Υ 42'48	-0.8m	superior conj minimum elong	7894 Feb 04 22:57 7894 Feb 04 17:59	17° ≈ 43'29 17° ≈ 23'32	
8	7893 Mar 30 18:34	0°8		max. Earth dist.	7894 Feb 09 16:03	25°≈13'39	1.45006 AU
evening max el	7893 Apr 05 17:40	7° 8 20'25	19°11'58		7894 Feb 12 16:55	0° ∀	
asc. node	7893 Apr 06 01:07	7° 8 39'03		evening rise	7894 Feb 20 23:25	12°) 48′55	
retrograde	7893 Apr 12 16:52	11° 8 16'11			7894 Mar 04 07:15	0 ° \mathbf{Y}	
evening set	7893 Apr 16 04:26	10° 8 05'32		greatest brilliancy	7894 Mar 07 19:09	5° Y 09'47	-0.6m
inferior conj	7893 Apr 21 15:55	4° 8 16'37		evening max el	7894 Mar 19 21:44	20° Y 57'36	20°07'14
minimum elong	7893 Apr 21 15:26	4° 8 18'11	3°23'32	asc. node	7894 Mar 23 22:10	24°Υ16'44	
min. Earth dist.	7893 Apr 23 02:57	2° 8 23'47	0.66436 AU	retrograde	7894 Mar 27 15:11	25° Y 26'45 24° Y 01'11	
marning rise	7893 Apr 25 02:27 7893 Apr 27 02:03	30° ₹ Υ 27° Υ 59'06		evening set inferior conj	7894 Mar 31 11:17 7894 Apr 05 19:35	17° Y 58'13	3°12'28
morning rise direct	7893 May 03 08:53	25° Y 13'30		minimum elong	7894 Apr 05 18:06	18° Y 03'15	3°12'14
desc. node	7893 May 10 23:15	28° Υ 17'34		min. Earth dist.	7894 Apr 06 16:09	16° Υ 48'32	0.67522 AU
dese. Hode	7893 May 13 02:28	0°8		morning rise	7894 Apr 11 00:41	11° Y 41'45	0.07322710
morning max el	7893 May 16 01:45	2° 8 47'55	26°10'48	direct	7894 Apr 16 19:24	9° Y 06'55	
	7893 Jun 05 15:35	$\Pi^{\circ}0$		desc. node	7894 Apr 27 20:13	15° Y 28'35	
morning set	7893 Jun 21 03:39	26° Ⅱ 22'50		morning max el	7894 Apr 28 11:06	16° Y 05'42	24°49'21
	7893 Jun 23 01:50	0 \circ \odot			7894 May 09 22:40	9° 8	
max. Earth dist.	7893 Jun 25 01:40	3° 5 49'53	1.35114 AU		7894 May 29 14:16	Π °0	
				morning set	7894 Jun 03 10:46	8° Ⅱ 23'05	
superior conj	7893 Jun 30 06:36	14° © 12'42		max. Earth dist.	7894 Jun 07 01:37	14° ∏ 54'36	1.37089 AU
minimum elong	7893 Jun 30 08:10	14° © 20'43	0°27'05				
asc. node	7893 Jul 03 00:15	19° © 50'28		superior conj	7894 Jun 13 16:26	27° I 127'30	
	7893 Jul 07 21:35	0° Ω		minimum elong	7894 Jun 13 20:00	27° ∏ 44'58	0°58'23
evening rise	7893 Jul 08 00:09 7893 Jul 25 23:48	0° Ω 13'15 0° m		aga mada	7894 Jun 14 23:30 7894 Jun 19 21:16	0°ഇ 9° ഇ 48'06	
evening max el	7893 Jul 25 23:48 7893 Jul 26 12:08	0°Mg31'08	20°33'52	asc. node evening rise	7894 Jun 19 21:16 7894 Jun 22 03:21	14° © 19'50	
retrograde	7893 Jul 20 12:08 7893 Aug 06 16:43	6° Mp 02'55	20 33 32	evening rise	7894 Jun 30 09:34	0°Ω	
desc. node	7893 Aug 06 22:26	6° Mp 02'47		evening max el	7894 Jul 09 01:35		19°26'14
evening set	7893 Aug 08 17:50	5° m 52'36		retrograde	7894 Jul 18 13:18	16°Ω38'14	1, 2011
inferior conj	7893 Aug 17 22:50	1° m 55'32	-3°15'05	evening set	7894 Jul 20 10:05	16° Ω 28'09	
minimum elong	7893 Aug 17 14:16	2°m,07'52		desc. node	7894 Jul 24 19:30	14° £ 54′26	
min. Earth dist.	7893 Aug 19 02:09	1° m)16'11	0.54801 AU	inferior conj	7894 Jul 29 02:18	12° Ω 21′26	-1°18'31
	7893 Aug 21 09:02	30° R Ω		minimum elong	7894 Jul 28 22:46	12° Ω 27'09	1°17'16
morning rise	7893 Aug 26 10:18	27° Ω 52'37		min. Earth dist.	7894 Jul 31 14:53	10° Ω 43'52	0.55702 AU
direct	7893 Aug 30 11:50	27° Ω 17'13		morning rise	7894 Aug 06 08:51	7° Ω 46′09	
	7893 Sep 08 01:16	0° m		direct	7894 Aug 11 05:39	6° Ω 52'41	
morning max el	7893 Sep 12 18:15	3°m/41'19	23°23'50	morning max el	7894 Aug 25 06:58	13° Ω 56'49	25°08'00
asc. node	7893 Sep 28 23:44	26° m 33'10			7894 Sep 06 21:57	0° ™	
	7893 Sep 30 19:29	0° ⊽		asc. node	7894 Sep 15 20:43	15° m 52'52	
morning set	7893 Oct 06 06:06	11° ≏ 04'40		morning set	7894 Sep 20 17:46 7894 Sep 22 15:32	25° M 53′56 0° <u>₽</u>	
superior conj	7893 Oct 13 05:12	26° ≏ 05'19	1°40'45		7694 Sep 22 13.32	0 ==	
minimum elong	7893 Oct 13 04:34	26° ⊆ 03154	1°40'47	superior conj	7894 Sep 27 14:49	10° £ 53'57	1°34'30
minimum ciong	7893 Oct 15 01:02	0°M	1 10 17	minimum elong	7894 Sep 27 13:14	10° ⊆ 3537	1°34'23
max. Earth dist.	7893 Oct 15 22:12	1°M52'09	1.33395 AU	max. Earth dist.	7894 Sep 29 02:17	14° £ 08'05	1.32376 AU
evening rise	7893 Oct 20 20:48	12°M01'40		evening rise	7894 Oct 04 18:41	26° £ 13'43	
	7893 Oct 30 13:16	0° ∡ ¹			7894 Oct 06 15:12	0° M	
desc. node	7893 Nov 02 21:20	5° ∡ ³34'40		desc. node	7894 Oct 20 18:25	25°M11'17	
	7893 Nov 20 15:42	∂ °0			7894 Oct 23 23:04	0°⊀	
evening max el	7893 Nov 24 02:16	3°₹31'42	27°21'04	evening max el	7894 Nov 06 12:27	16° ₹ 30′22	27°27'28
retrograde	7893 Dec 07 14:51	10° る 51'06		retrograde	7894 Nov 20 06:53	23° ≯ 46′32	
evening set	7893 Dec 14 13:09	8° ろ 15'18		evening set	7894 Nov 27 09:36	21° ₹ 19'22	
min. Earth dist.	7893 Dec 18 08:54		0.64474 AU	min. Earth dist.	7894 Dec 01 01:51	18° 🖈 19'03	0.62669 AU
inferior conj	7893 Dec 20 18:20	2°る12'23		inferior conj	7894 Dec 03 22:05	15° ₹ 36'10	
minimum elong	7893 Dec 20 21:31 7893 Dec 22 21:37	2°る03'52 30°Rメ	1 42 43	minimum elong	7894 Dec 04 03:30 7894 Dec 10 23:27	15° 尽 23'11 10° 尽 27'30	2 30 34
asc. node	7893 Dec 22 21:37 7893 Dec 25 23:07	30° ₹× ¹ 27° ₹ ¹29'25		morning rise asc. node	7894 Dec 10 23:27 7894 Dec 12 20:09	10°×'2/'30 10°×'04'01	
morning rise	7893 Dec 23 23:07 7893 Dec 27 07:24	27 x 29 23 26° x 46'28		direct	7894 Dec 13 06:52	10° ₹ '04'01 10° ₹ '03'05	
direct	7893 Dec 27 07:24 7893 Dec 29 20:12	26° ₹ 13'32		morning max el	7894 Dec 20 00:08	10 x 03 03 13° x 29'26	17°48'21
morning max el	7894 Jan 05 07:01	29° ₹ 36'22	17°54'02		7894 Dec 31 07:28	0° る	
<i>5</i>	7894 Jan 05 16:22	0°ප		morning set	7895 Jan 05 00:04	8° ਰ 14'18	
morning set	7894 Jan 22 11:09	25° පි 29'16		-			
	7894 Jan 25 03:40	0° ≈		superior conj	7895 Jan 16 13:54	28° ප 16'19	0°01'08
desc. node	7894 Jan 29 20:35	7° ≈ 48'43		minimum elong	7895 Jan 16 14:01	28° ප 16'47	0°01'14
				behind sun begin	7895 Jan 16 04:59	27° る 38'52	

1 1 1 1 1	7005 1 16 22 02	200754127			7005 D 20 07 17	100 7 01155	0020152
behind sun end	7895 Jan 16 23:03	28°る54'37		superior conj	7895 Dec 29 06:17	10°る01'55	0°38'52
desc. node	7895 Jan 16 17:37	28° る 31'52		minimum elong	7895 Dec 29 09:12	10°る14'47	0°38'33
n d ti	7895 Jan 17 14:43	0°≈	1 42020 411	desc. node	7896 Jan 03 14:36	19°る17'13	1 42100 411
max. Earth dist.	7895 Jan 23 08:52	9° ≈ 25'41	1.43830 AU	max. Earth dist.	7896 Jan 05 20:56		1.42109 AU
evening rise	7895 Jan 31 11:25	22°≈13'03			7896 Jan 10 02:13	0° ≈	
	7895 Feb 05 13:27	0° ∀		evening rise	7896 Jan 11 11:49	2°≈14'46	
	7895 Feb 26 18:24	$0^{\circ}\Upsilon$			7896 Jan 29 23:50	0° ∀	
evening max el	7895 Mar 02 20:15	4° Y 35'59	21°15'24	evening max el	7896 Feb 13 13:58	18°) 16'48	22°32'23
asc. node	7895 Mar 10 19:15	9° Ƴ 42'03		retrograde	7896 Feb 23 10:08	24°) €07'04	
retrograde	7895 Mar 11 13:33	9° Ƴ 45′03		asc. node	7896 Feb 25 16:20	23°) 41′12	
evening set	7895 Mar 15 19:19	8° Ƴ 04'27		evening set	7896 Feb 28 02:55	22° 升 11′28	
inferior conj	7895 Mar 21 02:44	1° Ƴ 49'55	2°50'32	inferior conj	7896 Mar 04 11:19	15°) 48′34	
minimum elong	7895 Mar 21 00:38	1° Ƴ 57'11	2°50'05	minimum elong	7896 Mar 04 09:03	15° ¥ 56′29	2°18'36
min. Earth dist.	7895 Mar 21 10:08	1° Y 24′13	0.68167 AU	min. Earth dist.	7896 Mar 04 06:36	16°) (04′59	0.68385 AU
	7895 Mar 22 10:38	30° ₹		morning rise	7896 Mar 09 15:02	9° ∺ 39'10	
morning rise	7895 Mar 26 05:46	25° ∺ 36′13		direct	7896 Mar 14 06:00	7°) 43′32	
direct	7895 Mar 31 10:47	23° ₩ 19'08		morning max el	7896 Mar 23 08:57	13° ¥ 03′20	21°52'12
morning max el	7895 Apr 10 20:30	29°) (30′31	23°19'55	desc. node	7896 Mar 31 14:10	22°)(47'40	
	7895 Apr 11 08:03	$0^{\circ}\mathbf{\Upsilon}$			7896 Apr 05 20:40	0° Y	
desc. node	7895 Apr 14 17:12	3° Ƴ 44'37		morning set	7896 Apr 24 23:46	28° Y 54'01	
	7895 May 03 17:50	0° ႘			7896 Apr 25 16:12	0°8	
morning set	7895 May 15 18:57	19° 8 16'46		max. Earth dist.	7896 Apr 30 20:20	8° 8 28'00	1.41510 AU
max. Earth dist.	7895 May 19 21:24	26° 8 17'40	1.39308 AU		1		
	7895 May 22 00:02	0°Щ		superior conj	7896 May 08 13:05	21° 8 38'14	-1°54'46
	, , , , , , , , , , , , , , , , , , , ,	-		minimum elong	7896 May 08 18:37	22° 8 02'36	
superior conj	7895 May 27 12:05	9° Ⅱ 59'11	-1°29'20		7896 May 13 05:29	0°II	
minimum elong	7895 May 27 17:23	10° Ⅲ 23'47		evening rise	7896 May 19 06:13	11° I I03'50	
evening rise	7895 Jun 05 22:34	27° I I59'29	1 20 43	asc. node	7896 May 23 15:22	19° Ⅱ 05'40	
asc. node	7895 Jun 06 18:18	29° I I34'36		asc. node	7896 May 30 02:24	0°95	
asc. node	7895 Jun 06 23:35	0° 9		evening max el	7896 Jun 04 11:00	6°9548'37	18°12'41
avaning may al	7895 Jun 22 02:25	24° © 05'38	18°39'19	retrograde	7896 Jun 11 11:18	10°\$20'30	16 1241
evening max el	7895 Jun 30 02:57	24 \$03 38 28°\$04'23	10 39 19	-	7896 Jun 13 20:35	9°956'38	
retrograde	7895 Jul	28 \$04 23 27°\$49'22		evening set	7896 Jun 20 22:19		1°50'36
evening set			002010.4	inferior conj			
inferior conj	7895 Jul 10 01:30	23°524'50	0°29'04	minimum elong	7896 Jun 21 01:19	5°904'54	1°49'33
minimum elong	7895 Jul 10 02:35	23°522'47	0°28'32	min. Earth dist.	7896 Jun 24 07:28	2°514'12	0.59518 AU
desc. node	7895 Jul 11 16:34	22°5010'46	0.57270.411		7896 Jun 27 06:57	30°RⅡ	
min. Earth dist.	7895 Jul 13 08:07	20°957'36	0.57379 AU	desc. node	7896 Jun 27 13:36	29° ∏ 49'20	
morning rise	7895 Jul 17 21:00	18° © 12'23		morning rise	7896 Jun 28 03:03	29° ∏ 28'55	
direct	7895 Jul 23 14:10	16°951'04		direct	7896 Jul 04 12:15	27° ∏ 35′29	
morning max el	7895 Aug 06 22:50	24°9524'38	26°36'17		7896 Jul 12 02:24	0.2	
	7895 Aug 12 01:42	0 \circ Ω		morning max el	7896 Jul 18 20:57	5° 5 27'00	27°34'28
	7895 Aug 30 23:18	0°Щ			7896 Aug 06 02:59	0 \circ Ω	
asc. node	7895 Sep 02 17:44	5° Mp 32′08		morning set	7896 Aug 19 11:11	25° Ω 06'30	
morning set	7895 Sep 05 04:02	10°Mp36'10		asc. node	7896 Aug 19 14:45	25° Ω 25'07	
					7896 Aug 21 18:29	0°Щ	
superior conj	7895 Sep 12 02:22	25° Mp 45'06		max. Earth dist.	7896 Aug 25 21:24	9° ™ 00'52	1.31693 AU
minimum elong	7895 Sep 12 00:14	25° Mp 33'17	1°22'29				
max. Earth dist.	7895 Sep 12 11:09	26° Mp 33′47	1.31807 AU	superior conj	7896 Aug 26 14:02	10° Mp 33'00	1°06'03
	7895 Sep 14 00:27	0∘ ⊽		minimum elong	7896 Aug 26 11:48	10° Mp 20'36	1°05'37
evening rise	7895 Sep 18 23:15	10° ≏ 42'38		evening rise	7896 Sep 02 08:09	25° m 21'39	
	7895 Sep 28 20:57	0°M			7896 Sep 04 13:04	0∘ ⊽	
desc. node	7895 Oct 07 15:30	14°M09'45			7896 Sep 21 20:10	0°M₊	
evening max el	7895 Oct 19 17:40	28°M48'24	27°01'04	desc. node	7896 Sep 23 12:35	2°M14'54	
	7895 Oct 21 01:08	0° ∡ ¹		evening max el	7896 Sep 30 15:41	10°M17'13	26°01'23
retrograde	7895 Nov 02 15:16	5° ∡ ¹58'59		retrograde	7896 Oct 14 14:09	17° M 21'31	
evening set	7895 Nov 09 14:34	3° ∡ 751'39		evening set	7896 Oct 20 23:10	15° M 44'39	
min. Earth dist.	7895 Nov 13 08:15	1° √ 11′22	0.60639 AU	min. Earth dist.	7896 Oct 25 04:35	13°M09'38	0.58555 AU
	7895 Nov 14 18:39	30°RM		inferior conj	7896 Oct 28 08:12	10°M51'31	-4°58'19
inferior conj	7895 Nov 16 11:53	28°M32'27	-4°00'44	minimum elong	7896 Oct 28 14:41	10°M39'38	4°57'01
minimum elong	7895 Nov 16 18:54	28°M17'38	3°58'33	morning rise	7896 Nov 05 08:29	6°M25'29	
morning rise	7895 Nov 24 01:35	23°M43'59		direct	7896 Nov 07 15:47	6°M08'00	
direct	7895 Nov 26 06:47	23°M24'40		asc. node	7896 Nov 15 14:14	9° ™ 49'57	
asc. node	7895 Nov 29 17:12	24°M13'13		morning max el	7896 Nov 15 21:50	10°M07'55	18°34'32
morning max el	7895 Dec 03 14:17	27°M03'19	18°01'19	-	7896 Nov 28 22:26	0° ∡	
Ü	7895 Dec 06 05:00	0° ∡ ¹		morning set	7896 Dec 02 00:24	5° ₹ '54'21	
morning set	7895 Dec 19 06:15	21° х 47'48		<i>U</i> .			
<i>5</i>	7895 Dec 23 16:47	0°る		superior conj	7896 Dec 10 20:10	22° ∡ ⁴48'37	1°07'32
		-		1		/	-

minimum elong	7896 Dec 10 23:37	23° ∡ ¹04'43	1°07'13	minimum elong	7897 Nov 24 05:06	6° ₹ ³35'36	1°26'51
minimum crong	7896 Dec 14 18:15	0° ਰ	1 07 13	max. Earth dist.	7897 Nov 30 10:33	18° ∡ 26′07	1.37889 AU
max. Earth dist.	7896 Dec 18 04:39	6° ට 04'48	1.40049 AU	evening rise	7897 Dec 04 03:58	25°× 7 08'53	1.5 , 665 116
desc. node	7896 Dec 20 11:36	10°る01'23	1.10019110	evening 1150	7897 Dec 06 23:03	0°ප	
evening rise	7896 Dec 22 08:56	13° る 12'41		desc. node	7897 Dec 07 08:38	0° る 40'47	
e vennig 1150	7897 Jan 01 21:45	0°≈		dese. Hode	7897 Dec 26 13:03	0°≈	
	7897 Jan 24 06:00	0° ₩		evening max el	7898 Jan 08 17:42	15° ≈ 47'49	25°09'17
evening max el	7897 Jan 26 04:31		23°52'33	retrograde	7898 Jan 20 16:38	22°≈43'02	20 0) 1,
retrograde	7897 Feb 06 03:30	8° H 27'49	23 32 33	evening set	7898 Jan 26 10:32	20°≈20'01	
evening set	7897 Feb 11 08:30	6°) 17'46		asc. node	7898 Jan 29 10:28	17°≈12'53	
asc. node	7897 Feb 11 13:25	6° \ 07'09		min. Earth dist.	7898 Jan 30 21:39	15°≈22'27	0.67632 AU
min. Earth dist.	7897 Feb 16 03:11	0° ¥ 45'34	0.68202 AU	inferior conj	7898 Feb 01 01:18	13°≈52'19	0°51'31
inferior conj	7897 Feb 16 19:27	29°≈50'14	1°39'22	minimum elong	7898 Feb 01 00:05	13°≈56'18	0°51'07
minimum elong	7897 Feb 16 17:27	29°≈57'02	1°38'44	morning rise	7898 Feb 06 13:54	7°≈56'22	0 31 07
minimum ciong	7897 Feb 16 17:27 7897 Feb 16 16:35	29 ≈37 02 30°R≈	1 30 44	direct	7898 Feb 10 02:51	6°≈44'21	
morning rise	7897 Feb 10 10:33	23°≈46'43		morning max el	7898 Feb 17 06:51	10°≈43'03	19°28'01
direct	7897 Feb 26 03:50	22°≈13'32		greatest brilliancy	7898 Mar 02 03:28	27°≈38'30	-0.7m
	7897 Mar 06 03:52	22 ≈13 32 26°≈47'05	20°33'23	greatest offinancy	7898 Mar 03 17:24	27 ≈ 38 30 0 ° ∺	-0.7111
morning max el		20 ≈ 4703 0° H	20 33 23	desc. node	7898 Mar 05 08:04	0 X 2° X 25'27	
JJ.	7897 Mar 09 02:40	12° ∺ 24'13				15°\(\frac{1}{48}\)'23	
desc. node	7897 Mar 18 11:07	12° π 2413		morning set	7898 Mar 14 02:07	15°π48′23 0°Υ	
	7897 Mar 30 08:06			F 4 F	7898 Mar 23 05:21		1 11500 177
morning set	7897 Apr 04 04:09	7° Υ 26'05	1 12 10 5 1 7 7	max. Earth dist.	7898 Mar 26 16:15	5° Y 26′11	1.44762 AU
max. Earth dist.	7897 Apr 13 02:46	21° Y 34′26	1.43405 AU				
	7897 Apr 18 06:32	9° 8		superior conj	7898 Mar 30 15:44	11° Y 45'38	
				minimum elong	7898 Mar 30 11:44	11° Y 29'38	2°08'21
superior conj	7897 Apr 19 14:48	2° 8 14'03			7898 Apr 10 20:14	0°8	
minimum elong	7897 Apr 19 17:21	2° 8 24'43	2°09'51	evening rise	7898 Apr 13 16:43	4° 8 45'20	
evening rise	7897 May 01 21:46	23° 8 22'05		asc. node	7898 Apr 27 09:28	26° 8 55'31	
	7897 May 05 16:25	$\Pi^{\circ}0$			7898 Apr 29 15:31	0°II	
asc. node	7897 May 10 12:25	8° Ⅱ 15'05		evening max el	7898 May 02 12:44	3° Ⅱ 18'57	18°17'22
evening max el	7897 May 18 23:33	19° Ⅱ 56'01	18°05'37	retrograde	7898 May 08 22:12	6° Ⅱ 43'52	
retrograde	7897 May 25 11:15	23° Ⅱ 17'07		evening set	7898 May 11 21:56	5° Ⅱ 55'36	
evening set	7897 May 28 03:57	22° Ⅱ 41'49		inferior conj	7898 May 17 20:21	0°Ⅱ32′04	
inferior conj	7897 Jun 03 13:59	17° Ⅱ 36'40	2°44'03	minimum elong	7898 May 17 21:57	0° Ⅱ 27'30	3°13'19
minimum elong	7897 Jun 03 16:47	17° Ⅱ 29'35	2°43'19		7898 May 18 07:35	30°₹ ႘	
min. Earth dist.	7897 Jun 06 14:48	14° Ⅱ 33'32	0.61764 AU	min. Earth dist.	7898 May 20 07:27	27° 8 44'55	0.63848 AU
morning rise	7897 Jun 10 03:36	11° Ⅱ 34'16		morning rise	7898 May 23 20:50	24° 8 18'58	
desc. node	7897 Jun 14 10:37	9° Ⅱ 30'46		direct	7898 May 30 14:48	21° 8 38'26	
direct	7897 Jun 16 21:06	9° Ⅱ 12'31		desc. node	7898 Jun 01 07:37	21° 8 47'40	
morning max el	7897 Jul 01 01:29	17° Ⅱ 13'08	27°55'21	morning max el	7898 Jun 13 10:24	29° 8 39'23	27°38'48
	7897 Jul 11 15:54	0°€			7898 Jun 13 18:32	Π $\circ 0$	
	7897 Jul 29 20:17	0 \circ Ω			7898 Jul 05 14:57	0∘ ௐ	
morning set	7897 Aug 03 13:18	9° Ω 19'41		morning set	7898 Jul 18 07:57	23° © 08'25	
asc. node	7897 Aug 06 11:45	15° Ω 26'55			7898 Jul 21 17:12	$0 {\circ} \Omega$	
max. Earth dist.	7897 Aug 09 05:20	21° Ω 19'06	1.32039 AU	max. Earth dist.	7898 Jul 23 06:54	3° Ω 16′23	1.32856 AU
				asc. node	7898 Jul 24 08:43	5° Ω 32'36	
superior conj	7897 Aug 11 00:02	25° Ω 12'14	0°44'44				
minimum elong	7897 Aug 10 22:11	25° Ω 02'06	0°44'18	superior conj	7898 Jul 26 06:25	9° Ω 36′29	0°19'18
	7897 Aug 13 04:23	0° m y		minimum elong	7898 Jul 26 05:29	9° Ω 31'31	0°19'00
evening rise	7897 Aug 17 19:23	10° Mp 04'46		evening rise	7898 Aug 02 06:59	24° Ω 45'22	
	7897 Aug 27 22:30	0∘ ত			7898 Aug 04 19:01	O° Mp	
desc. node	7897 Sep 10 09:39	19° ≏ 05'58			7898 Aug 23 12:52	0∘ ত	
evening max el	7897 Sep 12 06:07	20° ≏ 58'35	24°34'59	evening max el	7898 Aug 24 17:31	1° ≏ 12'33	22°56'10
retrograde	7897 Sep 26 01:27	27° £ 55'00		desc. node	7898 Aug 28 06:43	4° £ 14'26	
evening set	7897 Oct 01 07:21	26° £ 53'45		retrograde	7898 Sep 07 00:28	7° ≙ 51'04	
min. Earth dist.	7897 Oct 06 17:08	24° £ 05'41	0.56666 AU	evening set	7898 Sep 10 18:06	7° £ 20'31	
inferior conj	7897 Oct 09 08:27	22° £ 24'58	-5°30'56	min. Earth dist.	7898 Sep 18 01:54	4° £ 01'54	0.55281 AU
minimum elong	7897 Oct 09 10:29	22° ≏ 21'43	5°30'48	inferior conj	7898 Sep 19 13:23	3° ≏ 10'51	-5°19'49
morning rise	7897 Oct 17 15:47	18° ≙ 21'03		minimum elong	7898 Sep 19 08:03	3° ≙ 18'34	5°19'11
direct	7897 Oct 20 06:10	18° ≏ 02'34			7898 Sep 25 21:23	30°R Mp	
morning max el	7897 Oct 29 19:14	22° ≏ 33'16	19°29'42	morning rise	7898 Sep 28 00:06	29° m 21'33	
asc. node	7897 Nov 02 11:15	26° £ 39'52		direct	7898 Oct 01 01:34	28° m 59'39	
	7897 Nov 04 20:51	0°M₊			7898 Oct 05 23:28	0∘ ⊽	
morning set	7897 Nov 16 02:40	20°M22'59		morning max el	7898 Oct 12 04:00	4° £ 11'02	20°47'10
-	7897 Nov 20 21:20	0° ∡ ¹		asc. node	7898 Oct 20 08:14	14° ≏ 26'53	
					7898 Oct 28 22:23	0°M	
superior conj	7897 Nov 24 02:25	6° ∡ ¹22'27	1°26'58	morning set	7898 Oct 31 10:08	5°M04'24	
-				-			

	7000 N 07 20 25	200 M 20112	1020100		7000 0 24 00 47	1.50 m. 0.2145	22022125
superior conj	7898 Nov 07 20:25	20°M29'13		morning max el	7899 Sep 24 00:47	15° Mp 02'45	22°23'25
minimum elong	7898 Nov 07 21:48	20°M36'20	1°38'03	1	7899 Oct 05 11:36	0° ʊ	
	7898 Nov 12 14:20	0° ∡ ¹		asc. node	7899 Oct 07 05:14	2° £ 58'06	
max. Earth dist.	7898 Nov 12 18:48	0° ∡ 1'45	1.35868 AU	morning set	7899 Oct 15 20:36	19° Ω 52'36	
evening rise	7898 Nov 16 18:03	7° ∡ 755'16			7899 Oct 20 14:34	0°M₊	
desc. node	7898 Nov 24 05:40	21° ∡ 10′21					
	7898 Nov 29 15:57	0°₹		superior conj	7899 Oct 22 22:35	4°M58'36	1°41'39
evening max el	7898 Dec 22 06:40	29° る 33'02	26°15'35	minimum elong	7899 Oct 22 22:38	4°M58'53	1°41'44
	7898 Dec 22 17:55	0° ≈		max. Earth dist.	7899 Oct 26 10:02	12°M14'56	1.34177 AU
retrograde	7899 Jan 04 00:52	6° ≈ 46′10		evening rise	7899 Oct 30 23:20	21°M22'30	
evening set	7899 Jan 10 07:17	4° ≈ 13'32			7899 Nov 04 13:07	0° ∡ ¹	
	7899 Jan 14 08:39	30°₽₹		desc. node	7899 Nov 11 02:43	11° 渘 ¹24'52	
min. Earth dist.	7899 Jan 14 11:45	29° る 50'42	0.66679 AU		7899 Nov 23 12:26	ರ°0	
inferior conj	7899 Jan 16 02:54	27°る50'43	-0°03'51	evening max el	7899 Dec 04 19:42	13° る 09'28	27°04'07
minimum elong	7899 Jan 16 03:00	27°る50'25	0°03'42	retrograde	7899 Dec 18 03:28	20° る 29'38	
transit middle	7899 Jan 16 03:00	27°る50'25	0°03'42	evening set	7899 Dec 24 20:42	17° る 52'54	
transit begin	7899 Jan 16 00:12	27° る 59'00		min. Earth dist.	7899 Dec 28 19:19	14° る 04'14	0.65367 AU
transit end	7899 Jan 16 05:48	27°る41'50		inferior conj	7899 Dec 30 22:07	11° る 40'46	-1°05'58
asc. node	7899 Jan 16 07:30	27° ප 36'36		minimum elong	7899 Dec 31 00:03	11°る35'17	1°05'01
morning rise	7899 Jan 21 23:27	22° る 04'26		asc. node	7900 Jan 03 04:33	8°る14'46	
direct	7899 Jan 25 01:25	21° ට 10'38		morning rise	7900 Jan 06 04:39	6° ප 06'30	
morning max el	7899 Jan 31 17:03	24° පි 47'05	18°38'22	direct	7900 Jan 08 21:32	5° る 27'10	
morning max or	7899 Feb 05 03:36	0°≈	10 30 22	morning max el	7900 Jan 15 08:11	8° ප 52'31	18°05'18
desc. node	7899 Feb 20 05:03	22°≈44'38		morning max ci	7900 Jan 29 23:11	0°≈	10 03 10
morning set	7899 Feb 21 17:48	25°≈09'23		morning set	7900 Feb 02 14:43	5°≈58'23	
morning set	7899 Feb 24 19:39	25 ≈ 0925		desc. node	7900 Feb 07 02:02	13°≈16'14	
	7699 FCU 24 19.39	0 X		desc. node	7900 Feb 07 02.02	13 ~10 14	
superior conj	7899 Mar 09 23:03	20°) 36′00	-1°46'54	superior conj	7900 Feb 17 06:00	29° ≈ 32'49	-1°08'42
minimum elong	7899 Mar 09 13:45	19° ¥ 59'36	1°46'06	minimum elong	7900 Feb 16 22:04	29°≈01'31	1°07'39
max. Earth dist.	7899 Mar 09 10:04	19°) 45′10	1.45434 AU	· ·	7900 Feb 17 12:53	0° ∀	
	7899 Mar 15 22:41	$0^{\circ}\Upsilon$		max. Earth dist.	7900 Feb 20 05:28	4°) € 14'07	1.45368 AU
evening rise	7899 Mar 25 12:15	15° Ƴ 10'40		evening rise	7900 Mar 05 10:34	24°) (47'47	
greatest brilliancy	7899 Apr 02 13:14	28° Y 00'34	-0.9m	<i>5</i>	7900 Mar 08 19:20	o°Υ	
8	7899 Apr 03 19:32	0°8		greatest brilliancy	7900 Mar 18 11:48	14° Y 47'30	-0.7m
asc. node	7899 Apr 14 06:30	14° 8 58'03		greatest stillars	7900 Mar 29 20:22	0°8	0.711
evening max el	7899 Apr 15 23:53	16° 8 51'04	18°47'09	evening max el	7900 Mar 30 06:58	0° 8 27'26	19°33'43
retrograde	7899 Apr 22 15:58	20° 8 32'38	10 47 07	asc. node	7900 Apr 01 03:34	2° 8 10'45	17 33 43
evening set	7899 Apr 25 22:56	19° 8 30'28		retrograde	7900 Apr 06 13:19	4° 8 36'32	
inferior conj	7899 May 01 13:30	13° 8 50'22	2024121	•	7900 Apr 00 13:19 7900 Apr 10 04:17	3° 8 19'47	
minimum elong	7899 May 01 13:44	13° 8 49'38		evening set	7900 Apr 10 04.17 7900 Apr 13 13:36	30°RΥ	
min. Earth dist.	7899 May 03 09:19	13 8 4938		inferior conj	7900 Apr 15 13:30 7900 Apr 15 14:07	27° Υ 24'49	3°20'19
	7899 May 07 03:55	7° 8 33'01	0.03003 AO	-	7900 Apr 15 13:10	27° Υ 27'58	3°20'11
morning rise	7899 May 07 03:33 7899 May 13 16:06	4° 8 45'43		minimum elong min. Earth dist.	-	$27 \cdot 12738$ 25° \cap 49'39	0.66951 AU
direct	•				7900 Apr 16 18:57	23° γ 49'39 21° Υ 07'17	0.00931 AU
desc. node	7899 May 19 04:37	6° 8 23'33	26050105	morning rise	7900 Apr 20 21:43		
morning max el	7899 May 26 20:55	12° 8 34'53	26°50'05	direct	7900 Apr 26 23:45	18° Y 24'54	
	7899 Jun 09 20:12	0°II		desc. node	7900 May 06 01:37	22° Y 46'20	25025120
	7899 Jun 28 05:51	0.22 no c		morning max el	7900 May 09 06:44	25° Y 46'33	25°37'39
morning set	7899 Jul 01 16:10	6°524'36	1 24152 411		7900 May 13 03:31	8°0	
max. Earth dist.	7899 Jul 05 22:39	14°945'52	1.34153 AU		7900 Jun 03 09:04	0°II	
				morning set	7900 Jun 14 09:52	18° Ⅲ 56'13	
superior conj	7899 Jul 10 07:02	23° © 39'56		max. Earth dist.	7900 Jun 18 03:11	25° ∏ 51′21	1.35912 AU
minimum elong	7899 Jul 10 07:34	23°5642'41	0°09'34		7900 Jun 20 07:02	0	
behind sun begin	7899 Jul 10 02:55	23° © 18'31					
behind sun end	7899 Jul 10 12:12	24° © 06'52		superior conj	7900 Jun 23 23:12	7° © 14'49	-0°40'39
asc. node	7899 Jul 11 05:43	25° © 38'28		minimum elong	7900 Jun 24 01:36	7° © 26'54	0°40'19
	7899 Jul 13 07:22	$0 {\circ} \Omega$		asc. node	7900 Jun 28 02:43	15°9540'00	
evening rise	7899 Jul 17 17:04	9° Ω 17'55		evening rise	7900 Jul 01 23:28	23° © 35'31	
	7899 Jul 28 14:33	0° m)			7900 Jul 05 03:54	$0 { m ^o} \Omega$	
evening max el	7899 Aug 06 11:04	11°Mp36'16	21°21'35	evening max el	7900 Jul 19 17:01	22° Ω 36′58	20°02'36
desc. node	7899 Aug 15 03:46	17° m 08'23		retrograde	7900 Jul 30 04:07	27° Ω 46′15	
retrograde	7899 Aug 18 14:13	17° m 37'00		evening set	7900 Aug 01 01:35	27° Ω 36′52	
evening set	7899 Aug 21 00:52	17° m 23'14		desc. node	7900 Aug 02 00:49	27° Ω 25′08	
inferior conj	7899 Aug 30 06:51	13° m 25'18	-4°13'50	inferior conj	7900 Aug 10 02:37	23° Ω 37'38	-2°26'20
minimum elong	7899 Aug 29 21:23	13° m 38'35		minimum elong	7900 Aug 09 19:55	23° Ω 47'41	
min. Earth dist.	7899 Aug 30 10:53		0.54701 AU	min. Earth dist.	7900 Aug 11 21:54	22° Ω 32'47	0.55078 AU
morning rise	7899 Sep 07 18:41	9° m 32'57		morning rise	7900 Aug 18 12:42	19° Ω 22'12	
direct	7899 Sep 11 10:18	9° m 04'10		direct	7900 Aug 22 22:16	18° Ω 40'01	
	•	-			-		

morning max el	7900 Sep 05 14:13	25° Ω 22'56	24°08'58	direct	7901 Aug 03 22:17	28° © 22'03	
morning max ci	7900 Sep 09 14:13	0° m)	24 00 30	direct	7901 Aug 03 22:17 7901 Aug 10 10:34	0°Ω	
asc. node	7900 Sep 24 02:14	22° m) 02'35		morning max el	7901 Aug 18 03:24	5° Ω 39'21	25°48'28
	7900 Sep 28 02:21	0∘ <u>v</u>		Č	7901 Sep 04 20:31	0° m/y	
morning set	7900 Sep 30 08:19	4° £ 42'42		asc. node	7901 Sep 10 23:13	11° m /31'26	
				morning set	7901 Sep 14 19:35	19° m 29'24	
superior conj	7900 Oct 07 06:08	19° ≏ 42'10	1°38'48		7901 Sep 19 15:28	0。 ত	
minimum elong	7900 Oct 07 05:04	19° ≏ 36'19	1°38'47				
max. Earth dist.	7900 Oct 09 09:53	24° £ 21'48	1.32905 AU	superior conj	7901 Sep 21 16:47	4° £ 32'23	1°30'09
	7900 Oct 12 01:42	0°M		minimum elong	7901 Sep 21 14:55	4° £ 22'06	1°29'58
evening rise	7900 Oct 14 16:06	5°M21'00		max. Earth dist.	7901 Sep 22 16:33	6° £ 43'25	1.32082 AU
desc. node	7900 Oct 28 04:28 7900 Oct 28 23:46	0° √ 1° √ 17'49		evening rise	7901 Sep 28 17:09 7901 Oct 03 20:36	19° ≙ 41'14 0° I L	
evening max el	7900 Oct 28 23:46 7900 Nov 17 07:45	26° 🗷 26'38	27°27'46	desc. node	7901 Oct 03 20:30 7901 Oct 15 20:50	20°M39'41	
evening max er	7900 Nov 17 07:43 7900 Nov 21 12:53	20 x 2038	27 27 40	desc. flode	7901 Oct 13 20:30 7901 Oct 22 12:27	0° × 7	
retrograde	7900 Nov 30 23:35	³° ठ 45'16		evening max el	7901 Oct 22 12:27 7901 Oct 30 16:23	9° × 10'11	27°20'32
evening set	7900 Dec 08 00:17	1°る12'14		retrograde	7901 Nov 13 12:15	16° ₹ 23'14	_, _, _,
S	7900 Dec 09 12:47	30°R <i>≯</i> ¹		evening set	7901 Nov 20 14:39	14° ∡ °03′25	
min. Earth dist.	7900 Dec 11 18:19	27° х 55'29	0.63729 AU	min. Earth dist.	7901 Nov 24 06:50	11° ∡ °13′00	0.61823 AU
inferior conj	7900 Dec 14 08:25	25° ∡ 16'51	-2°13'11	inferior conj	7901 Nov 27 06:41	8° ≯ 30′16	-3°22'19
minimum elong	7900 Dec 14 12:34	25° ∡ ¹06'15	2°11'24	minimum elong	7901 Nov 27 12:56	8° ₰ 16′04	3°20'04
morning rise	7900 Dec 21 02:35	19° ∡ 57'38		morning rise	7901 Dec 04 13:21	3° х 29′33	
asc. node	7900 Dec 21 01:37	19° ∡ 58'35		direct	7901 Dec 06 19:29	3° ₹ 07'35	
direct	7900 Dec 23 12:42	19° ∡ ¹28'47		asc. node	7901 Dec 07 22:41	3° ≯ 13'18	
morning max el	7900 Dec 30 01:28	22° × 52'24	17°49'25	morning max el	7901 Dec 13 17:41	6° ∡ ³38′02	17°51'31
	7901 Jan 04 16:15	0°る			7901 Dec 28 19:13	0°る	
morning set	7901 Jan 15 14:58	18° る 07'36		morning set	7901 Dec 29 11:59	1° る 15'33	
desc. node	7901 Jan 22 14:25 7901 Jan 24 23:01	0° ≈ 3° ≈ 56'19		superior conj	7902 Jan 09 08:29	20° පි 27'41	0°18'10
desc. node	7901 Jan 24 23.01	3 ~30 19		minimum elong	7902 Jan 09 08:29	20° ろ 34'40	0°18'02
superior conj	7901 Jan 28 06:31	9° ≈ 23'35	-0°23'50	desc. node	7902 Jan 11 20:00	20 334 40 24° 3 40'36	0 1802
minimum elong	7901 Jan 28 03:54	9°≈12'51		dese. Hode	7902 Jan 15 00:40	0°≈	
max. Earth dist.	7901 Feb 03 00:07	18° ≈ 37'49	1.44580 AU	max. Earth dist.	7902 Jan 16 15:33	2° ≈ 39'25	1.43156 AU
	7901 Feb 10 06:06	0°) €		evening rise	7902 Jan 23 13:49	13° ≈ 43'06	
evening rise	7901 Feb 12 22:03	4° ∺ 06'29		· ·	7902 Feb 03 06:53	0°) €	
_	7901 Mar 02 06:51	0° Y		evening max el	7902 Feb 24 05:15	27°) 45'26	21°47'23
evening max el	7901 Mar 13 08:50	14° Y 06'01	20°34'54		7902 Feb 26 14:58	$0^{\circ}\Upsilon$	
asc. node	7901 Mar 19 00:39	18° Ƴ 20′02		retrograde	7902 Mar 05 09:30	3° Y 11'38	
retrograde	7901 Mar 21 11:48	18° Y 51'11		asc. node	7902 Mar 05 21:45	3° Y 10′18	
evening set	7901 Mar 25 11:52	17° Y 19'19		evening set	7902 Mar 09 19:56	1° Υ 24'26	
inferior conj	7901 Mar 30 19:34	11° Y 11′22	3°04'22		7902 Mar 11 07:39	30° ₹	
minimum elong	7901 Mar 30 17:46	11° Υ 17'31	3°04'02	inferior conj	7902 Mar 15 03:33	25°) €06'03	2°38'21
min. Earth dist.	7901 Mar 31 10:27	10° Y 20'18 4° Y 56'01	0.67856 AU	minimum elong	7902 Mar 15 01:20	25°) 13'47 24°) 58'46	
morning rise direct	7901 Apr 04 23:27 7901 Apr 10 12:37	2° Y 27'49		min. Earth dist. morning rise	7902 Mar 15 05:39 7902 Mar 20 06:34	18° H 54'17	0.68314 AU
morning max el	7901 Apr 21 15:38	9° Υ 07'01	24°11'36	direct	7902 Mar 25 05:39	16°) (3417	
desc. node	7901 Apr 21 13:38 7901 Apr 22 22:38	10° Υ 27'43	24 11 30	morning max el	7902 Apr 04 01:54	22°) 34'48	22°41'59
dese. node	7901 May 08 02:16	0°8		desc. node	7902 Apr 09 19:36	29° \ 05'27	22 1137
morning set	7901 May 27 07:55	0° Ⅱ 29'49			7902 Apr 10 13:04	$0^{\circ}\Upsilon$	
C	7901 May 27 01:01	Π°			7902 May 01 10:19	0°8	
max. Earth dist.	7901 May 31 00:17	6° Ⅱ 59'08	1.38027 AU	morning set	7902 May 08 04:50	10° 8 51'50	
				max. Earth dist.	7902 May 12 21:17	18° 8 42'48	1.40268 AU
superior conj	7901 Jun 07 03:34	20° Ⅱ 12'55	-1°12'08		7902 May 19 08:00	$\Pi^{\circ}0$	
minimum elong	7901 Jun 07 07:57	20° Ⅱ 33'56	1°11'34				
	7901 Jun 12 04:17	0ංම		superior conj	7902 May 20 15:56	2° Ⅱ 24'10	
asc. node	7901 Jun 14 23:44	5° © 33'26		minimum elong	7902 May 20 21:37	2° ∏ 49'57	1°40'28
evening rise	7901 Jun 15 23:40	7° © 31'40		evening rise	7902 May 30 14:30	20° ∏ 58'15	
	7901 Jun 28 18:34	0°N	10002140	asc. node	7902 Jun 01 20:47	25° Ⅱ 14'30	
evening max el	7901 Jul 02 11:47	4° Ω 22'04	19°03'40	ovonina ma1	7902 Jun 04 10:22	0°©	10005100
retrograde evening set	7901 Jul 11 07:02 7901 Jul 13 05:30	8° Ω 42'55 8° Ω 31'10		evening max el retrograde	7902 Jun 15 16:23 7902 Jun 23 05:08	16°5946'47 20°532'21	18°25'28
desc. node	7901 Jul 19 21:54	5° Ω 24'41		evening set	7902 Jun 25 10:02	20 \$32.21 20°\$13'56	
inferior conj	7901 Jul 19 21:34 7901 Jul 21 13:46	4°Ω17'26	-0°30'18	inferior conj	7902 Jul 02 22:24	15° © 40'18	1°07'10
minimum elong	7901 Jul 21 12:29	4°Ω19'39		minimum elong	7902 Jul 03 00:38	15° © 35'47	1°06'17
min. Earth dist.	7901 Jul 24 12:07	2° Ω 17'07		min. Earth dist.	7902 Jul 06 07:34	12° © 57'43	0.58254 AU
	7901 Jul 28 10:03	30° ₹©		desc. node	7902 Jul 06 18:57	12° © 36'12	
morning rise	7901 Jul 29 16:20	29° 5 26'30		morning rise	7902 Jul 10 11:52	10°513'50	

direct	7902 Jul 16 12:28	8° © 39'20		morning max el	7903 Jul 12 23:10	27° Ⅱ 43'00	27°48'06
morning max el	7902 Jul 30 21:55	16°521'06	27°05'23	-	7903 Jul 15 03:50	0 \circ \odot	
	7902 Aug 11 02:10	$0^{\circ}\Omega$			7903 Aug 04 19:36	$0^{\circ}\Omega$	
	7902 Aug 28 05:07	0° m		morning set	7903 Aug 14 10:03	18° Ω 32′20	
asc. node	7902 Aug 28 20:13	1° m ∤17'48		asc. node	7903 Aug 15 17:11	21° Ω 15'14	
morning set	7902 Aug 30 04:47	4° Mp 08′06			7903 Aug 19 18:38	0° m y	
				max. Earth dist.	7903 Aug 20 12:26	1°My37'44	1.31784 AU
superior conj	7902 Sep 06 04:37	19° Mp 23′22	1°16'16				
minimum elong	7902 Sep 06 02:23	19° m 10'58	1°15'55	superior conj	7903 Aug 21 15:47	4° ₯ 08′28	0°57'33
max. Earth dist.	7902 Sep 06 02:44	19° m 12'53	1.31707 AU	minimum elong	7903 Aug 21 13:39	3°₩56'41	0°57'06
	7902 Sep 11 00:12	0∘ ত		evening rise	7903 Aug 28 09:58	18° m 57'19	
evening rise	7902 Sep 12 23:52	4° £ 15'53			7903 Sep 02 18:43	0∘ ⊽	
	7902 Sep 26 14:37	0°M₊		desc. node	7903 Sep 19 14:58	26° ≏ 54'48	
desc. node	7902 Oct 02 17:54	9° ™ 18'01			7903 Sep 22 07:54	0°M₊	
evening max el	7902 Oct 12 18:43	21°M07'53	26°39'26	evening max el	7903 Sep 24 12:59	2°M14'22	25°27'02
retrograde	7902 Oct 26 16:31	28°M15'30		retrograde	7903 Oct 08 11:01	9°M16'43	
evening set	7902 Nov 02 11:32	26°M19'44		evening set	7903 Oct 14 10:03	7°M54'36	
min. Earth dist.	7902 Nov 06 08:28	23°M44'07	0.59754 AU	min. Earth dist.	7903 Oct 19 01:00	5°M16'19	0.57711 AU
inferior conj	7902 Nov 09 13:26	21°M11'53	-4°27'06	inferior conj	7903 Oct 22 01:19	3°M11'57	-5°16'17
minimum elong	7902 Nov 09 20:36	20°M57′38	4°25'11	minimum elong	7903 Oct 22 06:27	3°M03'05	5°15'33
morning rise	7902 Nov 17 08:00	16°M32'58			7903 Oct 27 06:49	30°Ŗ 죠	
direct	7902 Nov 19 13:40	16° ™ 14'43		morning rise	7903 Oct 30 05:11	28° ≙ 56'01	
asc. node	7902 Nov 24 19:43	18°M01'23		direct	7903 Nov 01 14:44	28° ≏ 38'35	
morning max el	7902 Nov 27 05:28	20°M₀00'48	18°12'54		7903 Nov 06 14:51	0°M₊	
	7902 Dec 04 15:38	0° ⊼		morning max el	7903 Nov 10 09:10	2°M50'17	18°55'17
morning set	7902 Dec 12 23:45	15° ∡ 04'32		asc. node	7903 Nov 11 16:43	4° ጤ 11'10	
	7902 Dec 20 23:13	0°ප		morning set	7903 Nov 26 21:43	29°M21'20	
					7903 Nov 27 05:34	0° ∡ ″	
superior conj	7902 Dec 22 10:38						
minimum elong	7902 Dec 22 14:00	2° る 56'23	0°51'50	superior conj	7903 Dec 05 08:05	15° ∡ ¹49'50	1°16'51
desc. node	7902 Dec 29 17:00	15° る 25'50		minimum elong	7903 Dec 05 11:19	16° ₰ 05'14	1°16'37
max. Earth dist.	7902 Dec 30 01:52	16° る 03'24	1.41261 AU	max. Earth dist.	7903 Dec 12 07:48	28° ∡ ⁴43'31	1.39123 AU
evening rise	7903 Jan 03 22:24	24° る 06'53			7903 Dec 13 01:03	0°ප	
	7903 Jan 07 14:33	0° ≈		evening rise	7903 Dec 16 04:58	5° る 29'57	
	7903 Jan 28 05:08	0° ∀		desc. node	7903 Dec 16 14:00	6° る 08'32	
evening max el	7903 Feb 06 21:13		23°06'26		7903 Dec 31 16:17	0° ≈	
retrograde	7903 Feb 17 04:55	17° ∺ 33'36		evening max el	7904 Jan 20 10:47	25° ≈ 11'38	24°26'04
asc. node	7903 Feb 20 18:51	16° ∺ 29'39			7904 Jan 26 06:49	0° ∀	
evening set	7903 Feb 22 02:51	15°) 31′26		retrograde	7904 Jan 31 20:45	1° ¥ 52'43	
min. Earth dist.	7903 Feb 27 02:22	9° ∺ 39'39			7904 Feb 05 19:44	30°R≈	
inferior conj	7903 Feb 27 12:08	9° ₩ 05'54	2°03'20	evening set	7904 Feb 06 07:07	29° ≈ 36′51	
minimum elong	7903 Feb 27 09:56		2°02'40	asc. node	7904 Feb 07 15:54	28° ≈ 18'47	
morning rise	7903 Mar 04 16:56	2° 升 58′58		min. Earth dist.	7904 Feb 10 22:23	24° ≈ 19'13	0.67996 AU
direct	7903 Mar 09 01:57	1° 米 13′10		inferior conj	7904 Feb 11 19:31	23° ≈ 08′23	1°20'02
morning max el	7903 Mar 17 16:54	6°) 12′18	21°17'19	minimum elong	7904 Feb 11 17:47	23° ≈ 14'12	1°19'28
desc. node	7903 Mar 27 16:34	18° ∺ 23'51		morning rise	7904 Feb 17 04:34	17° ≈ 07'44	
	7903 Apr 04 19:54	0° Υ		direct	7904 Feb 21 00:25	15° ≈ 43'59	
morning set	7903 Apr 17 22:09	19° Y 57'49		morning max el	7904 Feb 28 15:14	20°≈01'43	20°03'47
	7903 Apr 24 04:20	0°8			7904 Mar 07 19:23	0°) (12001	
max. Earth dist.	7903 Apr 24 23:20	1° 8 17'42	1.42361 AU	desc. node	7904 Mar 13 13:31	8°) 12'04	
	5000 N 00 05 06	1201 1201 17	2002110	morning set	7904 Mar 26 20:45	28°) 16′56	
superior conj	7903 May 02 07:26	13° 8 36'47		E d E c	7904 Mar 27 23:26	0°Υ 1.4° Ω (4.2100	1 44040 433
minimum elong	7903 May 02 12:12	13° 8 57'16	2°02'36	max. Earth dist.	7904 Apr 06 08:21	14° Ƴ 43'09	1.44048 AU
	7903 May 11 14:12	0°II			7004 4 11 22 26	2200044127	2011127
evening rise	7903 May 13 15:54	3° Ⅱ 44'32		superior conj	7904 Apr 11 22:26	23° Y 44'37	
asc. node	7903 May 19 17:50	14° Ⅱ 37'19	10007110	minimum elong	7904 Apr 11 22:31	23° Y 44'55	2°11'40
evening max el	7903 May 30 03:01	29° Ⅱ 41'06	18°07'19	·	7904 Apr 15 17:28	0°8	
	7903 May 30 10:52	0°50		evening rise	7904 Apr 24 23:13	15° 8 40'26	
retrograde	7903 Jun 05 20:50	3°506'56		1	7904 May 03 09:09	0°П 2°П25140	
evening set	7903 Jun 08 09:10	2°€38'37		asc. node	7904 May 05 14:53	3° ∏ 35'49	10000107
	7903 Jun 12 15:15	30°RⅡ	2017/21	evening max el	7904 May 12 16:13	12° II 56'26	18°08'25
inferior conj	7903 Jun 15 03:44	27° I I44'47		retrograde	7904 May 19 01:54	16° Ⅱ 17'30	
minimum elong	7903 Jun 15 06:50	27° I I37'30	2°15'32	evening set	7904 May 21 21:32	15° Ⅱ 36'57	20.50***
min. Earth dist.	7903 Jun 18 10:16	24° I I41'55	0.60469 AU	inferior conj	7904 May 28 02:10	10° Ⅱ 24'07	2°59'10
morning rise	7903 Jun 22 01:52	21° II 52'08		minimum elong	7904 May 28 04:32	10° Ⅱ 17'50	2°58'37
desc. node	7903 Jun 23 16:00	20° I 58'28		min. Earth dist.	7904 May 30 21:42	7° II 25'06	0.62679 AU
direct	7903 Jun 28 15:23	19° Ⅱ 45'50		morning rise	7904 Jun 03 09:52	4° Ⅱ 16′08	

desc. node	7904 Jun 09 13:00	1° Ⅱ 45'56		morning max el	7905 Jun 06 15:30	22° 8 26'28	27°21'32
direct	7904 Jun 10 04:32	1° Ⅱ 44'37			7905 Jun 13 06:54	Π $^{\circ}0$	
morning max el	7904 Jun 24 05:50	9° ∏ 47'20	27°52'35		7905 Jul 03 05:16	0°ಅ	
	7904 Jul 09 23:20	0 \circ \odot		morning set	7905 Jul 11 23:57	16°©12'23	
	7904 Jul 27 02:08	$0^{\circ}\Omega$		max. Earth dist.	7905 Jul 16 15:31	25° © 32'43	1.33347 AU
morning set	7904 Jul 28 09:19	2° Ω 36′17			7905 Jul 18 18:52	$0^{\circ}\Omega$	
asc. node	7904 Aug 01 14:10	11° Ω 19'21		asc. node	7905 Jul 19 11:10	1° Ω 25'53	
max. Earth dist.	7904 Aug 02 17:55	13° Ω 47'25	1.32327 AU				
				superior conj	7905 Jul 20 04:46	2° Ω 59'08	0°07'28
superior conj	7904 Aug 05 00:30	18° Ω 42'24	0°34'26	minimum elong	7905 Jul 20 04:24	2° Ω 57'08	0°07'16
minimum elong	7904 Aug 04 22:59	18° Ω 34'07	0°34'02	behind sun begin	7905 Jul 19 23:27	2° Ω 30'55	
	7904 Aug 10 04:42	o° mp		behind sun end	7905 Jul 20 09:20	3° Ω 23′22	
evening rise	7904 Aug 11 21:34	3° Mp 40'05		evening rise	7905 Jul 27 08:47	18° Ω 18'25	
	7904 Aug 25 23:15	0∘ ত		-	7905 Aug 02 02:51	0° m	
evening max el	7904 Sep 05 01:17	12° ≏ 40'48	23°53'25	evening max el	7905 Aug 17 14:29	22° m 56'03	22°14'41
desc. node	7904 Sep 05 12:02	13° ≏ 06'22		desc. node	7905 Aug 23 09:06	27° m 22'32	
retrograde	7904 Sep 18 17:21	19° ≏ 31'36		retrograde	7905 Aug 30 11:18	29° m 20'08	
evening set	7904 Sep 23 07:57	18° ≏ 45'01		evening set	7905 Sep 02 14:13	28° m 58'36	
min. Earth dist.	7904 Sep 29 11:47	15° ≏ 45'30	0.55996 AU	min. Earth dist.	7905 Sep 10 20:21		0.54927 AU
inferior conj	7904 Oct 01 16:56	14° ≏ 24'54		inferior conj	7905 Sep 11 15:45	24° m 55'37	
minimum elong	7904 Oct 01 15:55	14° ≏ 26′27		minimum elong	7905 Sep 11 07:50	25° m 06'45	
morning rise	7904 Oct 10 02:02	10° £ 28'21		morning rise	7905 Sep 20 03:06	21° mp 07'27	
direct	7904 Oct 12 20:33	10° ⊆ 08'48		direct	7905 Sep 23 10:31	20° m 42'56	
morning max el	7904 Oct 23 01:23	14° £ 56'19	19°59'58	morning max el	7905 Oct 05 04:40	26° Mp 14'01	21°26'06
asc. node	7904 Oct 28 13:42	21° ⊆ 27'18	17 37 30	morning max or	7905 Oct 08 17:35	0° ರ	21 2000
use. Houe	7904 Nov 02 21:25	0°M		asc. node	7905 Oct 15 10:42	∘ _ 9° _ 35'20	
morning set	7904 Nov 10 02:29	13°M56'13		morning set	7905 Oct 25 11:32	28° £ 42'15	
morning set	77041101 10 02.27	15 1103015		morning set	7905 Oct 26 02:26	0°M	
superior conj	7904 Nov 17 19:48	29°M39'04	1°32'37		7703 Oct 20 02.20	O IIG	
minimum elong	7904 Nov 17 13:48	29°M49'53	1°32'34	superior conj	7905 Nov 01 17:43	13°M57'20	1°40'24
minimum ciong	7904 Nov 17 21:38 7904 Nov 17 24:00	29 11 0 49 33	1 32 34	minimum elong	7905 Nov 01 17:43	13 IIC37 20 14°ML01'32	
max. Earth dist.	7904 Nov 17 24:00 7904 Nov 23 13:47	10° ∡ ¹50'19	1.37000 AU	max. Earth dist.	7905 Nov 06 01:03	22°M44'57	1.35109 AU
evening rise	7904 Nov 27 08:34	10 × 3019 17°× 49'05	1.57000 AO	max. Earth dist.	7905 Nov 09 18:06	22 11 044 37 0° √ 7	1.55109 AO
desc. node	7904 Nov 27 08:34 7904 Dec 02 11:00	26° х 44'26		evening rise	7905 Nov 10 05:42	0° ₹ 55'13	
desc. node	7904 Dec 02 11:00 7904 Dec 04 09:41	20 x・44 20 0°る		desc. node	7905 Nov 19 08:04	17°×709'03	
		0°≈		desc. Hode	7905 Nov 27 11:11	0°る	
arraning may al	7904 Dec 24 23:40 7905 Jan 01 23:52	0 ≈ 8°≈59'02	25°39'20	avanina may al	7905 Nov 27 11.11 7905 Dec 15 13:12	0 3 22° る 43'05	26°38'49
evening max el	7905 Jan 01 23:32 7905 Jan 14 07:56	8 ≈3902 16°≈03'21	23 39 20	evening max el	7905 Dec 28 13:38	22 3 43 03 29° る 59'30	20 36 49
retrograde	7905 Jan 20 07:05			retrograde		29 83930 27° 8 24'36	
evening set		13°≈36'03	0.67266 AII	evening set	7906 Jan 04 00:59		0.66171 ATT
min. Earth dist.	7905 Jan 24 15:22 7905 Jan 24 12:57		0.67266 AU	min. Earth dist.	7906 Jan 08 03:00	23 31620 21° る 05'49	0.66171 AU
asc. node		9°≈00'32	0020154	inferior conj	7906 Jan 09 23:00		
inferior conj	7905 Jan 25 23:48	7°≈09'41	0°28'54	minimum elong	7906 Jan 09 23:49	21°る03'23	0-28-38
minimum elong	7905 Jan 25 23:04	7°≈11'59	0°28'43	asc. node	7906 Jan 11 10:00	19° る 23'54	
morning rise	7905 Jan 31 15:29	1°≈17'17		morning rise	7906 Jan 15 23:33	15° る 24'09	
direct	7905 Feb 03 23:33	0°≈13'21	10004152	direct	7906 Jan 18 21:30	14°₹36'49	10022111
morning max el	7905 Feb 10 21:22	4°≈01'21	19°04'52	morning max el	7906 Jan 25 09:57	18° る 06'58	18°22'11
greatest brilliancy desc. node	7905 Feb 24 14:04	22°≈28'19 28°≈21'41	-0.8m		7906 Feb 03 10:24	0° ≈ 16° ≈ 54'55	
desc. node	7905 Feb 28 10:27	28 ≈ 2141 0° ∀		morning set desc. node	7906 Feb 14 03:23	16 ≈34 33 18°≈47'02	
	7905 Mar 01 11:58			desc. node	7906 Feb 15 07:27	18 ≈ 47 02 0°) €	
morning set	7905 Mar 05 23:39	6°) 56'44 28°) 47'49	1 45126 ATT		7906 Feb 22 08:50	0 X	
max. Earth dist.	7905 Mar 19 23:47	28 π 4/49 0° Υ	1.45136 AU	aumariar aami	7006 Mar 01 19:55	11°) 40'16	1022112
	7905 Mar 20 18:08	U- Y		superior conj	7906 Mar 01 18:55		
	7005 M 22 14 20	20005411.0	2001146	minimum elong	7906 Mar 01 09:22	11°\(\frac{1}{2}\)02'50	
superior conj	7905 Mar 22 14:20	2° Υ 54'18		max. Earth dist.	7906 Mar 02 19:05	13°π 14'51 0° Υ	1.45506 AU
minimum elong	7905 Mar 22 07:29	2° Υ 27'14	2 01 24		7906 Mar 13 11:56	0° γ 6° γ 40'39	
evening rise	7905 Apr 06 08:14	26° Ƴ 38'08		evening rise	7906 Mar 17 18:00		0.0
1	7905 Apr 08 09:29	0° 8		greatest brilliancy	7906 Mar 28 02:21	22° Y 52'48	-0.8m
asc. node	7905 Apr 22 11:56	22° 8 01'26	10007150	ana mada	7906 Apr 01 19:44	0° 8	
evening max el	7905 Apr 26 04:54	26° 8 24'11	18°27'59	asc. node	7906 Apr 09 08:59	9° 8 44'13	10005102
retrograde	7905 May 02 16:02	29° 8 54'20		evening max el	7906 Apr 09 14:32	9° 8 58'25	19°05'02
evening set	7905 May 05 18:52	29° 8 00'11	2020100	retrograde	7906 Apr 16 11:38	13° 8 50'11	
inferior conj	7905 May 11 13:32	23° 8 29'36	3°20'09	evening set	7906 Apr 19 22:01	12° 8 41'40	2024112
minimum elong	7905 May 11 14:33	23° 8 26'35	3°19'59	inferior conj	7906 Apr 25 10:12	6° 8 54'53	
	•	200 4110	O CACAE ATT		7006 1 25 00 52	20 0 5 5150	202/100
min. Earth dist.	7905 May 13 18:15	20° 8 54'19	0.64645 AU	minimum elong	7906 Apr 25 09:53	6° 8 55'52	
morning rise	7905 May 13 18:15 7905 May 17 09:23	17° 8 14'21	0.64645 AU	min. Earth dist.	7906 Apr 26 23:27	4° 8 56'01	3°24'08 0.66234 AU
	7905 May 13 18:15		0.64645 AU	•	=		

		••				••	
direct	7906 May 07 05:37	27° Y 51′04		morning rise	7907 Apr 14 18:50	14° Y 18'30	
	7906 May 13 12:42	0° 8		direct	7907 Apr 20 15:28	11° Y 41'32	
desc. node	7906 May 14 07:02	0° 8 30'12		desc. node	7907 May 01 04:04	17° Ƴ 29'57	
morning max el	7906 May 20 01:50	5° 8 29'40	26°21'40	morning max el	7907 May 02 11:25	18° Ƴ 46'56	25°02'12
	7906 Jun 07 20:59	Π $^{\circ}0$			7907 May 11 22:54	9° 8	
morning set	7906 Jun 25 02:31	29° Ⅱ 10'40			7907 May 31 22:52	$\Pi^{\circ}0$	
	7906 Jun 25 13:02	0° ©		morning set	7907 Jun 07 12:35	11° Ⅱ 19'51	
max. Earth dist.	7906 Jun 29 02:38	6°951'10	1.34848 AU	max. Earth dist.	7907 Jun 11 03:40	17° Ⅱ 55'30	1.36774 AU
					7907 Jun 17 11:24	0°€	
superior conj	7906 Jul 04 02:09	16°951'13	-0°22'32				
minimum elong	7906 Jul 04 03:26	16°957'48		superior conj	7907 Jun 17 13:45	0°911'37	-0°54'06
asc. node	7906 Jul 06 08:10	21°930'23	0 22 20	minimum elong	7907 Jun 17 17:02	0°927'43	
ase. Houe	7906 Jul 10 09:45	0°Ω		asc. node	7907 Jun 23 05:12	11° 9 29'15	0 33 37
ovanina rias	7906 Jul 11 17:35	2° Ω 45'34			7907 Jun 25 03:12	16°955'24	
evening rise				evening rise		10 \$33 24 0°Ω	
	7906 Jul 27 08:33	0°M)	20045142		7907 Jul 02 15:55		10025100
evening max el	7906 Jul 30 12:49	3° m 32'59	20°45'43	evening max el	7907 Jul 13 00:20	14° £ 52′14	19°35'00
desc. node	7906 Aug 10 06:11	9° m 11'30		retrograde	7907 Jul 22 18:05	19° Ω 40′26	
retrograde	7906 Aug 10 23:33	9° m ,12'49		evening set	7907 Jul 24 14:36	19° Ω 30'44	
evening set	7906 Aug 13 02:34	9° m 01'53		desc. node	7907 Jul 28 03:15	18° Ω 24'05	
inferior conj	7906 Aug 22 08:19	5° ™ 04'57	-3°31'35	inferior conj	7907 Aug 02 09:23	15° Ω 26′20	-1°36'17
minimum elong	7906 Aug 21 23:18	5° Mp 17′48	3°28'47	minimum elong	7907 Aug 02 05:00	15° Ω 33'16	1°34'41
min. Earth dist.	7906 Aug 23 05:39	4° m 34'30	0.54741 AU	min. Earth dist.	7907 Aug 04 17:57	13° Ω 57'00	0.55512 AU
morning rise	7906 Aug 30 20:00	1° m 05'32		morning rise	7907 Aug 10 17:01	10° Ω 56′20	
direct	7906 Sep 03 18:47	0° Mp 32′09		direct	7907 Aug 15 10:47	10° Ω 06′07	
morning max el	7906 Sep 16 21:30	6° ™ 49'38	23°08'01	morning max el	7907 Aug 29 10:13	17° Ω 05'23	24°53'07
asc. node	7906 Oct 02 07:42	28° m/22'10		Ü	7907 Sep 08 23:17	0° m)	
	7906 Oct 03 04:52	0∘ ಹ		asc. node	7907 Sep 19 04:43	17° m 38'02	
morning set	7906 Oct 09 22:48	0 — 13° Ω 32'34		morning set	7907 Sep 24 10:32	28° m 22'04	
morning set	7700 001 07 22.40	13 —32 34		morning set	7907 Sep 25 04:51	20 M22 0∓ 0° Ω	
	7006 0-+ 16 22-21	200 0 24106	1041112		7907 Sep 23 04.31	0 ==	
superior conj	7906 Oct 16 22:31	28° £ 34'06			7007.0 / 01.07.20	120 0 21125	1025140
minimum elong	7906 Oct 16 22:03	28° £ 31'37	1°41'14	superior conj	7907 Oct 01 07:39		1°35'48
	7906 Oct 17 14:34	0° M ,		minimum elong	7907 Oct 01 06:12	13° £ 13'37	1°35'44
max. Earth dist.	7906 Oct 19 20:16	4°M44'32	1.33586 AU	max. Earth dist.	7907 Oct 02 23:14	16° ≏ 57'35	1.32496 AU
evening rise	7906 Oct 24 16:19	14°MJ37'04		evening rise	7907 Oct 08 12:56	28° ≏ 45'42	
	7906 Nov 01 22:08	0°⊀			7907 Oct 09 03:30	0° M	
desc. node	7906 Nov 06 05:07	7° ∡ 15'43		desc. node	7907 Oct 24 02:10	26°M56'49	
	7906 Nov 22 06:49	0°ප			7907 Oct 26 01:45	0° ∡ ¹	
evening max el	7906 Nov 28 02:01	6° ප 12'54	27°17'26	evening max el	7907 Nov 10 12:40	19° ∡ 16'37	27°28'34
retrograde	7906 Dec 11 13:25	13° る 32'42		retrograde	7907 Nov 24 06:38	26° ₹ ³33'50	
evening set	7906 Dec 18 10:34	10° ප 56'17		evening set	7907 Dec 01 09:01	24° ₹ 104'46	
min. Earth dist.	7906 Dec 22 07:00	7° る 21'54	0.64719 AU	min. Earth dist.	7907 Dec 05 01:35	21° ₹ 00'25	0.62951 AU
inferior conj	7906 Dec 24 14:46	4° る 50'48	-1°33'58	inferior conj	7907 Dec 07 20:20	18° ∡ 18'07	-2°42'33
minimum elong	7906 Dec 24 17:37	4°₹43'05		minimum elong	7907 Dec 08 01:25	18° х 05'42	2°40'30
asc. node	7906 Dec 29 07:03	0° る 25'10		morning rise	7907 Dec 14 19:50	13° х 06'41	
use. Houe	7906 Dec 29 22:09	30°R. ₹		asc. node	7907 Dec 16 04:08	12° × ⁷ 45'54	
morning rise	7906 Dec 31 02:06	29° × 122'45		direct	7907 Dec 17 03:48	12° х 1331	
Č	7907 Jan 02 15:54	28° × ⁷ 48'17			7907 Dec 17 03:48 7907 Dec 23 19:43	16° × 06'44	17°48'01
direct				morning max el			17 48 01
	7907 Jan 06 09:47	0°る	17056124	. ,	7908 Jan 02 14:56	0°る	
morning max el	7907 Jan 09 02:26	2°る11'24	17°56'24	morning set	7908 Jan 08 22:28	10°る56'56	
morning set	7907 Jan 26 12:37	28° る 20'36		desc. node	7908 Jan 20 01:24	0°≈05'18	
	7907 Jan 27 12:26	0° ≈			7908 Jan 20 00:08	0° ≈	
desc. node	7907 Feb 02 04:27	9° ≈ 23'00					
				superior conj	7908 Jan 20 18:43	1°≈17'32	
superior conj	7907 Feb 09 07:39	20° ≈ 55'51	-0°49'49	minimum elong	7908 Jan 20 18:12	1° ≈ 15′20	0°05'05
minimum elong	7907 Feb 09 01:51	20° ≈ 32'41	0°48'57	behind sun begin	7908 Jan 20 09:22	0° ≈ 38'34	
max. Earth dist.	7907 Feb 13 14:52	27° ≈ 45′11	1.45120 AU	behind sun end	7908 Jan 21 03:01	1° ≈ 52'02	
	7907 Feb 15 01:09	0°) €		max. Earth dist.	7908 Jan 27 07:59	11° ≈ 59'59	1.44041 AU
evening rise	7907 Feb 25 10:06	16° ∺ 06'09		evening rise	7908 Feb 04 21:24	25° ≈ 27'29	
2 ·	7907 Mar 06 12:43	0°Υ		5	7908 Feb 07 20:28	0°) €	
greatest brilliancy	7907 Mar 11 23:23	8° Υ 06'58	-0.6m		7908 Feb 28 15:03	0° Υ	
evening max el	7907 Mar 11 23:23 7907 Mar 23 19:25	23° Y 35'51	19°58'05	evening max el	7908 Pco 28 13:03 7908 Mar 05 18:47	7° Υ 14'20	21°04'37
•		26° Y 32'06	17 30 03	•		12° Υ 09'40	21 043/
asc. node	7907 Mar 27 06:04			asc. node	7908 Mar 13 03:10		
retrograde	7907 Mar 31 09:52	27° Y 59'42		retrograde	7908 Mar 14 08:20	12° Υ 17'16	
evening set	7907 Apr 04 04:34	26° Y 36′28	******	evening set	7908 Mar 18 12:33	10° Y 39'01	
inferior conj	7907 Apr 09 13:10	20° Y 35′25	3°14'53	inferior conj	7908 Mar 23 19:58	4° Y 26′07	2°54'30
minimum elong	7907 Apr 09 11:49	20° Ƴ 39'58	3°14'41	minimum elong	7908 Mar 23 17:56	4° Ƴ 33'09	2°54'04
min. Earth dist.	7907 Apr 10 11:51	19° Ƴ 19'04	0.67386 AU	min. Earth dist.	7908 Mar 24 05:18	3° Y 53'47	0.68098 AU

	7908 Mar 27 05:12	30° ₹		retrograde	7909 Feb 26 05:12	26°) 39'05	
morning rise	7908 Mar 28 23:07	28°) 11'52		asc. node	7909 Feb 28 00:16	26°) 22'42	
direct	7908 Apr 03 06:16	25° H 51'40		evening set	7909 Mar 02 20:18	24° X 45'43	
direct		25 χ3140 0° Υ		-		18°) (23'57	2024124
	7908 Apr 11 13:18		22022110	inferior conj	7909 Mar 08 04:27		
morning max el	7908 Apr 13 20:34	2°Υ10'42	23°33'19	minimum elong	7909 Mar 08 02:11	18°) € 31'52	
desc. node	7908 Apr 17 01:02	5° Ƴ 37'39		min. Earth dist.	7909 Mar 08 01:30	18°) 34'14	0.68385 AU
	7908 May 04 23:45	9° 8		morning rise	7909 Mar 13 07:54	12°) 13′53	
morning set	7908 May 19 00:32	22° 8 24'34		direct	7909 Mar 18 01:01	10°) (14′52	
max. Earth dist.	7908 May 22 23:21	29° 8 12'59	1.38976 AU	morning max el	7909 Mar 27 08:15	15°) 41′52	22°04'47
	7908 May 23 10:04	$\Pi^{\circ}0$		desc. node	7909 Apr 03 21:59	24°)(34'31	
					7909 Apr 07 23:06	$0^{\circ}\Upsilon$	
superior conj	7908 May 30 11:48	12° Ⅱ 50'38	-1°24'56		7909 Apr 28 00:19	0° ႘	
minimum elong	7908 May 30 16:54	13° Ⅱ 14'29		morning set	7909 Apr 29 09:27	2° 8 13'02	
minimum crong	7908 Jun 08 10:11	0°9	1 2121	max. Earth dist.	7909 May 04 21:34	11° 8 15'51	1.41199 AU
ovanina rias	7908 Jun 08 18:21	0° © 39'38		max. Earth dist.	7909 May 04 21.34	11 01331	1.41199 AU
evening rise					7000 M 12 15 51	240 420120	1051127
asc. node	7908 Jun 09 02:13	1°5517'48		superior conj	7909 May 12 15:51	24° 8 38'20	
evening max el	7908 Jun 24 23:42	26° © 54'56	18°44'57	minimum elong	7909 May 12 21:31	25° 8 03'28	1°51'02
	7908 Jun 29 03:44	$0 {\circ} \Omega$			7909 May 15 15:42	Π °0	
retrograde	7908 Jul 03 04:42	0° Ω 58'47		evening rise	7909 May 23 03:56	13° Ⅱ 49'54	
evening set	7908 Jul 05 05:29	0° Ω 44'45		asc. node	7909 May 26 23:14	20° Ⅱ 51'39	
	7908 Jul 07 10:37	30° ₹ ∽			7909 Jun 01 04:52	0 \circ \odot	
inferior conj	7908 Jul 13 05:19	26°523'14	0°14'14	evening max el	7909 Jun 08 07:22	9° © 33'36	18°15'22
minimum elong	7908 Jul 13 05:52	26° © 22'13	0°13'55	retrograde	7909 Jun 15 10:26	13°908'24	
transit middle	7908 Jul 13 05:52	26°S22'13	0°13'55	evening set	7909 Jun 17 18:38	12°546'00	
transit begin	7908 Jul 13 04:01	26°\$25'37	0 13 33	inferior conj	7909 Jun 24 23:01	8°903'48	1°40'08
•							1°39'05
transit end	7908 Jul 13 07:43	26°5518'49		minimum elong	7909 Jun 25 01:53	7° © 57'35	
desc. node	7908 Jul 14 00:20	25° © 48'06		min. Earth dist.	7909 Jun 28 08:33	5° © 09'36	0.59187 AU
min. Earth dist.	7908 Jul 16 10:24	24° © 02'20	0.57097 AU	desc. node	7909 Jun 30 21:22	3° © 15'45	
morning rise	7908 Jul 21 02:47	21° © 16'13		morning rise	7909 Jul 02 06:03	2° © 25'09	
direct	7908 Jul 26 17:15	19° 9 59'20		direct	7909 Jul 08 13:19	0° ॐ 36′34	
morning max el	7908 Aug 10 01:10	27° © 29'09	26°24'48	morning max el	7909 Jul 22 22:14	8° © 25'34	27°28'08
	7908 Aug 12 11:54	$0^{\circ}\Omega$			7909 Aug 08 07:56	$0^{\circ}\Omega$	
	7908 Sep 01 09:32	o° mp		asc. node	7909 Aug 22 22:39	27° Ω 06′02	
asc. node	7908 Sep 05 01:42	7° m) 14'43		morning set	7909 Aug 23 04:47	27° Ω 38'10	
morning set	7908 Sep 07 21:06	13° mp 05'34			7909 Aug 24 07:38	0° m)	
morning sec	7300 Sep 07 21.00	15 110 05 5 1		max. Earth dist.	7909 Aug 29 17:55	11° m) 50'25	1.31681 AU
superior conj	7908 Sep 14 19:02	28° m 12'48	1°24'52	max. Earth dist.	7707 Hug 27 17.55	11 11/2025	1.51001710
minimum elong	7908 Sep 14 15:57	28° Mp 01'18	1°24'38	superior conj	7909 Aug 30 06:46	13° m 01'38	1°08'53
	*				-	•	
max. Earth dist.	7908 Sep 15 07:33	7	1.31859 AU	minimum elong	7909 Aug 30 04:30		1°08'30
	7908 Sep 15 14:24	0∘ ⊽		evening rise	7909 Sep 06 01:02	27° m 50'56	
evening rise	7908 Sep 21 16:39	13° ≏ 12'44			7909 Sep 07 01:24	0∘ ⊽	
	7908 Sep 30 05:33	0°M₊			7909 Sep 23 18:33	0° M	
desc. node	7908 Oct 09 23:13	16° ™ 02'02		desc. node	7909 Sep 26 20:18	4°M16'36	
	7908 Oct 21 01:25	0° ∡ ¹		evening max el	7909 Oct 04 18:11	13°M18'58	26°12'16
evening max el	7908 Oct 22 18:56	1° ∡ ′42′19	27°07'19	retrograde	7909 Oct 18 16:28	20°M23'52	
retrograde	7908 Nov 05 16:18	8° ҂ 53'37		evening set	7909 Oct 25 04:31	18° M 41'54	
evening set	7908 Nov 12 16:37	6° ∡ ¹42'50		min. Earth dist.	7909 Oct 29 07:17	16°M07'23	0.58860 AU
min. Earth dist.	7908 Nov 16 09:41	4° ∡ ¹00′15	0.60946 AU	inferior conj	7909 Nov 01 11:35	13°M45'10	-4°50'49
inferior conj	7908 Nov 19 12:29	1° √ 19'51		minimum elong	7909 Nov 01 18:22	13°M32'27	
minimum elong	7908 Nov 19 19:21	1° х 05'03		morning rise	7909 Nov 09 10:29	9°M15'40	, 20
mmmum ciong	7908 Nov 19 19:21 7908 Nov 21 02:19	30°RM	3 70 30	direct	7909 Nov 11 17:13	8°M58'03	
morning rise	7908 Nov 27 00:24	26°M28'02		asc. node	7909 Nov 18 22:12	12°M05'49	10020115
direct	7908 Nov 29 05:41	26°M08'09		morning max el	7909 Nov 19 19:15	12°M54'05	18°28'15
asc. node	7908 Dec 02 01:11	26°M41′26			7909 Dec 01 07:47	0° ∡	
morning max el	7908 Dec 06 10:32	29°M44'33	17°58'06	morning set	7909 Dec 05 19:07	8° ≯ 27'43	
	7908 Dec 06 16:45	0° ∡ ¹					
morning set	7908 Dec 22 02:28	24° ₹ 25′02		superior conj	7909 Dec 14 18:31	25° ∡ ³32′02	1°03'46
	7908 Dec 25 03:22	5°0		minimum elong	7909 Dec 14 22:00	25° х 48′07	1°03'27
					7909 Dec 17 05:02	万 °0	
superior conj	7909 Jan 01 07:31	12° る 53'15	0°33'40	max. Earth dist.	7909 Dec 22 05:31	8° ප 53'14	1.40372 AU
minimum elong	7909 Jan 01 10:10	13° る 04'53	0°33'25	desc. node	7909 Dec 23 19:21	11° る 35'28	
desc. node	7909 Jan 05 22:22	20°る50'49		evening rise	7909 Dec 26 13:08	16° る 11'57	
max. Earth dist.	7909 Jan 08 20:57	25°る46'09	1.42397 AU		7910 Jan 04 04:28	0°≈	
max. Durin dist.	7909 Jan 11 10:53	23 ⊙ 40 09	2.12371 AU		7910 Jan 25 21:36	0° ∺	
avaning rise	7909 Jan 11 10.33 7909 Jan 14 19:18	0 ≈ 5°≈22'40		avanina may al	7910 Jan 23 21.36 7910 Jan 30 04:06	4°) 38′52	230/10/25
evening rise				evening max el			23 40 33
	7909 Jan 31 03:30	0°)(22020122	retrograde	7910 Feb 09 23:04	11°) (00'35	
evening max el	7909 Feb 16 13:12	20° ¥ 55'10	22~20.33	asc. node	7910 Feb 14 21:20	9° ₩ 02'41	

evening set	7910 Feb 15 02:16	8°) 52′28		evening set	7911 Jan 30 04:55	22°≈55'41	
min. Earth dist.	7910 Feb 19 22:09	3°) 15′17	0.68260 AU	asc. node	7911 Feb 01 18:24	20°≈18'42	
inferior conj	7910 Feb 20 12:45	2°) 25′24	1°45'58	min. Earth dist.	7911 Feb 03 17:02	17°≈52'59	0.67740 AU
minimum elong	7910 Feb 20 10:41	2°) 32′28	1°45'18	inferior conj	7911 Feb 04 19:02	16° ≈ 27'35	0°59'16
C	7910 Feb 22 08:18	30°R≈		minimum elong	7911 Feb 04 17:40	16° ≈ 32'05	0°58'50
morning rise	7910 Feb 25 19:04	26° ≈ 21'00		morning rise	7911 Feb 10 06:39	10° ≈ 30'27	
direct	7910 Mar 01 22:27	24° ≈ 44'35		direct	7911 Feb 13 21:19	9° ≈ 15'32	
morning max el	7910 Mar 10 02:05	29° ≈ 24'11	20°44'20	morning max el	7911 Feb 21 03:55	13° ≈ 18'46	19°36'49
	7910 Mar 10 16:12	0° ∀		•	7911 Mar 05 22:05	0° ∀	
desc. node	7910 Mar 21 18:56	14°) €06'41		greatest brilliancy	7911 Mar 05 22:16	0°) 00'40	-0.7m
	7910 Apr 01 14:33	0 ° Υ		desc. node	7911 Mar 08 15:53	4°) €04'43	
morning set	7910 Apr 08 16:45	10° Ƴ 52'44		morning set	7911 Mar 18 14:06	19° ℋ 12'06	
max. Earth dist.	7910 Apr 17 03:03	24° Y 15'20	1.43151 AU	C	7911 Mar 25 13:10	0° Y	
	7910 Apr 20 15:23	0°8		max. Earth dist.	7911 Mar 30 15:29	8° Y 00'59	1.44597 AU
superior conj	7910 Apr 23 21:14	5° 8 24'06	-2°08'30	superior conj	7911 Apr 04 01:40	15° Y 04'35	-2°09'56
minimum elong	7910 Apr 24 00:30	5° 8 37'52	2°08'28	minimum elong	7911 Apr 03 22:46	14° Ƴ 52'54	2°09'54
evening rise	7910 May 05 22:11	26° 8 16'05			7911 Apr 13 04:41	$8^{\circ 0}$	
	7910 May 08 00:46	Π $^{\circ}0$		evening rise	7911 Apr 17 20:29	7° 8 48'09	
asc. node	7910 May 13 20:17	10° Ⅱ 05′08		asc. node	7911 Apr 30 17:21	28° 8 50'44	
evening max el	7910 May 22 19:31	22° Ⅲ 38′14	18°05'28		7911 May 01 12:27	Π $^{\circ}0$	
retrograde	7910 May 29 08:29	26° Ⅱ 00'09		evening max el	7911 May 06 08:46	5° Ⅱ 59'16	18°14'28
evening set	7910 Jun 01 00:03	25° Ⅱ 26'42		retrograde	7911 May 12 18:04	9° Ⅱ 22'56	
inferior conj	7910 Jun 07 12:09	20° Ⅲ 24'20	2°37'35	evening set	7911 May 15 16:42	8° Ⅱ 36'45	
minimum elong	7910 Jun 07 15:04	20° Ⅲ 17′05	2°36'47	inferior conj	7911 May 21 16:36	3° Ⅱ 15'55	3°10'25
min. Earth dist.	7910 Jun 10 14:35	17° Ⅲ 20'38	0.61429 AU	minimum elong	7911 May 21 18:25	3° Ⅱ 10′50	3°10'03
morning rise	7910 Jun 14 03:55	14° Ⅱ 24'07		min. Earth dist.	7911 May 24 05:58	0° Ⅱ 25′03	0.63551 AU
desc. node	7910 Jun 17 18:24	12° Ⅱ 35'19			7911 May 24 15:21	30°₹ ႘	
direct	7910 Jun 20 20:35	12° Ⅱ 06′16		morning rise	7911 May 27 18:52	27° 8 03'48	
morning max el	7910 Jul 05 02:01	20° II 06'07	27°54'45	direct	7911 Jun 03 13:09	24° 8 25'13	
	7910 Jul 13 13:22	0 \circ \odot		desc. node	7911 Jun 04 15:26	24° 8 29'03	
	7910 Aug 01 06:30	$0^{\circ}\Omega$			7911 Jun 14 20:10	Π $^{\circ}0$	
morning set	7910 Aug 07 07:47	11° Ω 54'46		morning max el	7911 Jun 17 10:32	2° Ⅲ 27′18	27°43'30
asc. node	7910 Aug 09 19:36	17° Ω 07'00			7911 Jul 07 21:21	0 \circ \odot	
max. Earth dist.	7910 Aug 13 02:31	24° Ω 11'32	1.31960 AU	morning set	7911 Jul 22 03:44	25° © 47'51	
					7911 Jul 24 05:39	$0^{\circ}\Omega$	
superior conj	7910 Aug 14 17:06	27° Ω 42'50	0°48'16	max. Earth dist.	7911 Jul 27 05:15	6° Ω 12'26	1.32702 AU
minimum elong	7910 Aug 14 15:10	27° Ω 32'09	0°47'49	asc. node	7911 Jul 27 16:35	7° Ω 12'26	
	7910 Aug 15 18:02	O° mp					
evening rise	7910 Aug 21 12:03	12° Mp 34'07		superior conj	7911 Jul 30 00:09	12° Ω 09'44	0°23'25
	7910 Aug 30 05:37	0∘ ত		minimum elong	7911 Jul 29 23:03	12° Ω 03'48	0°23'05
desc. node	7910 Sep 13 17:22	21° ≏ 20'40		evening rise	7911 Aug 05 23:42	27° Ω 15'25	
evening max el	7910 Sep 16 09:25	24° ≏ 06'03	24°48'57		7911 Aug 07 06:49	O° Mp	
	7910 Sep 24 22:39	0° M ,			7911 Aug 24 21:13	0∘ ত	
retrograde	7910 Sep 30 05:32	1°ML04'13		evening max el	7911 Aug 28 20:41	4° £ 21'56	23°10'57
evening set	7910 Oct 05 16:22	29° ≏ 57'30		desc. node	7911 Aug 31 14:28	6° ≏ 46'50	
	7910 Oct 05 13:50	30° ₹ Ω		retrograde	7911 Sep 11 06:36	11° ≏ 04'28	
min. Earth dist.	7910 Oct 10 20:36	27° ≙ 12'37	0.56925 AU	evening set	7911 Sep 15 05:35	10° ≏ 30'11	
inferior conj	7910 Oct 13 14:47	25° ≏ 25'19	-5°28'26	min. Earth dist.	7911 Sep 22 05:47	7° ≙ 16'52	0.55443 AU
minimum elong	7910 Oct 13 17:46	25° ≏ 20'28	5°28'10	inferior conj	7911 Sep 23 22:18	6° ₽ 17'51	-5°24'59
morning rise	7910 Oct 21 21:23	21° ≏ 18'33		minimum elong	7911 Sep 23 18:03	6° £ 24'04	5°24'35
direct	7910 Oct 24 10:25	21° ≏ 00'25		morning rise	7911 Oct 02 08:41	2° ₽ 27'10	
morning max el	7910 Nov 02 18:20	25° ≏ 25'41	19°20'06	direct	7911 Oct 05 08:12	2° ≏ 06'01	
asc. node	7910 Nov 05 19:11	28° ≏ 45'27		morning max el	7911 Oct 16 05:06	7° ≏ 11'02	20°34'19
	7910 Nov 06 18:25	0° M		asc. node	7911 Oct 23 16:10	16° ≏ 24'43	
morning set	7910 Nov 19 20:20	22°M53'19			7911 Oct 31 09:11	0°M	
	7910 Nov 23 09:32	0° ∡		morning set	7911 Nov 04 03:10	7° M 33'10	
superior conj	7910 Nov 27 22:37	8° ≯ 59'33	1°24'35	superior conj	7911 Nov 11 15:07	23°M02'14	1°36'50
minimum elong	7910 Nov 28 01:28	9° ∡ 13′25	1°24'25	minimum elong	7911 Nov 11 16:43	23°M10'21	1°36'50
max. Earth dist.	7910 Dec 04 11:15	21° ≯ 18′39	1.38206 AU		7911 Nov 15 02:28	0°⊀	
evening rise	7910 Dec 08 04:57	27° х 59'19		max. Earth dist.	7911 Nov 16 18:36	3° х 15′50	1.36149 AU
	7910 Dec 09 08:43	0°ರ		evening rise	7911 Nov 20 16:26	10° ∡ ³38'58	
desc. node	7910 Dec 10 16:22	2° る 15'37		desc. node	7911 Nov 27 13:24	22° ∡ °47′04	
	7910 Dec 28 15:16	0° ≈			7911 Dec 01 22:52	5°0	
evening max el	7911 Jan 12 17:15	18° ≈ 25′02	24°58'19		7911 Dec 24 02:35	0° ≈	
retrograde	7911 Jan 24 12:56	25° ≈ 17′03		evening max el	7911 Dec 26 06:13	2° ≈ 11′08	26°06'44

. 1	7012 1 07 22 05	0022140			7012 N 02 10 42	2.40 m 0.1107	
retrograde	7912 Jan 07 22:05	9°≈22'40		evening rise	7912 Nov 02 19:43	24°M01'07	
evening set	7912 Jan 14 02:36	6° ≈ 51'15			7912 Nov 05 23:35	0° ∡	
min. Earth dist.	7912 Jan 18 08:00	2° ≈ 23′10	0.66839 AU	desc. node	7912 Nov 13 10:27	13° ∡ 04'28	
inferior conj	7912 Jan 19 21:26	0° ≈ 27'13	0°05'00		7912 Nov 24 12:56	0°₹	
minimum elong	7912 Jan 19 21:18	0° ≈ 27'38	0°05'04	evening max el	7912 Dec 07 19:24	15°る50'02	26°58'23
transit middle	7912 Jan 19 21:18	0° ≈ 27'38	0°05'04	retrograde	7912 Dec 21 01:33	23° る 09'36	
transit begin	7912 Jan 19 18:35	0° ≈ 36′03		evening set	7912 Dec 27 17:17	20° ට 33'15	
transit end	7912 Jan 20 00:00	0°≈19'14		min. Earth dist.	7912 Dec 31 16:47	16° る 39'26	0.65582 AU
asc. node	7912 Jan 19 15:28	0° ≈ 45'45		inferior conj	7913 Jan 02 17:47	14°る19'08	
use. Houe	7912 Jan 20 06:14	30°Rる		minimum elong	7913 Jan 02 17:17	14°る14'28	0°55'20
		• -		_			0 33 20
morning rise	7912 Jan 25 16:39	24°る39'17		asc. node	7913 Jan 05 12:32	11°る18'14	
direct	7912 Jan 28 20:06	23° る 43'02		morning rise	7913 Jan 08 22:42	8° る 42'46	
morning max el	7912 Feb 04 13:10	27° る 22'16	18°44'44	direct	7913 Jan 11 16:49	8° る 01'29	
	7912 Feb 06 22:43	0° ≈		morning max el	7913 Jan 18 03:44	11° る 27'52	18°09'08
desc. node	7912 Feb 23 12:51	24° ≈ 21'44			7913 Jan 31 06:09	0° ≈	
morning set	7912 Feb 26 02:02	28° ≈ 21'30		morning set	7913 Feb 05 18:30	8° ≈ 57'28	
	7912 Feb 27 03:09	0° ∀		desc. node	7913 Feb 09 09:48	14° ≈ 51'42	
max. Earth dist.	7912 Mar 12 08:41	22°) (16'47	1.45379 AU		7913 Feb 18 21:01	0° ∀	
		• • • •					
superior conj	7912 Mar 13 10:49	23° ¥ 59'15	-1°51'26	superior conj	7913 Feb 20 16:32	2°) 51′38	-1°15'12
minimum elong	7912 Mar 13 01:57	23° H 24'29		minimum elong	7913 Feb 20 08:00	2° H 18'03	
minimum clong		0°Υ	1 30 43	max. Earth dist.		6°\(\frac{45}{31}\)	1.45428 AU
	7912 Mar 17 06:37	18° Y 22'06			7913 Feb 23 04:04	. , ,	1.45428 AU
evening rise	7912 Mar 28 19:34			evening rise	7913 Mar 08 20:36	28°) €05'06	
greatest brilliancy	7912 Apr 04 20:57	29° Y 42'43	-0.9m		7913 Mar 10 02:12	0° Υ	
	7912 Apr 05 01:17	9° 8		greatest brilliancy	7913 Mar 21 06:14	17° Ƴ 11′00	-0.7m
asc. node	7912 Apr 16 14:26	17° 8 00'04			7913 Mar 30 09:53	$6^{\circ}B$	
evening max el	7912 Apr 18 20:26	19° 8 30'45	18°41'37	evening max el	7913 Apr 02 04:17	3° 8 06'59	19°25'47
retrograde	7912 Apr 25 11:01	23° 8 08'58		asc. node	7913 Apr 03 11:32	4° 8 21'23	
evening set	7912 Apr 28 16:52	22° 8 08'58		retrograde	7913 Apr 09 07:59	7° 8 11'08	
inferior conj	7912 May 04 08:24		3°23'41	evening set	7913 Apr 12 21:44	5° 8 56'32	
minimum elong	7912 May 04 08:50	16° 8 30'02	3°23'35	inferior conj	7913 Apr 18 08:06	0° 8 03'42	3°21'42
min. Earth dist.	7912 May 04 06:34	14° 8 10'08	0.65371 AU	minimum elong	7913 Apr 18 07:19	0° 8 06'18	
		_	0.033/1 AU	minimum elong	-	_	3 21 33
morning rise	7912 May 10 00:08	10° 8 14'22			7913 Apr 18 09:14	30°RƳ	
direct	7912 May 16 13:34	7° 8 27'09		min. Earth dist.	7913 Apr 19 15:06	28° Y 22′13	0.66784 AU
desc. node	7912 May 21 12:27	8° 8 46'00		morning rise	7913 Apr 23 16:33	23° Y 46'09	
morning max el	7912 May 29 20:57	15° 8 19'05	26°58'59	direct	7913 Apr 29 20:21	21° Y 02'22	
	7912 Jun 10 21:34	$\Pi^{\circ}0$		desc. node	7913 May 08 09:27	24° Ƴ 54'41	
	7912 Jun 29 15:46	0°ಅ		morning max el	7913 May 12 06:51	28° Ƴ 28'42	25°49'31
morning set	7912 Jul 04 13:44	9° © 09'22		Ç	7913 May 13 17:47	0°8	
max. Earth dist.	7912 Jul 08 22:26		1.33929 AU		7913 Jun 04 15:56	0°II	
max. Earth dist.	7712 341 00 22.20	17 343 00	1.55727710	morning set	7913 Jun 17 09:55	21° ∏ 48'29	
	7012 1 1 12 01 40	260616146	0004150	•			1 25/24 ATT
superior conj	7912 Jul 13 01:49	26°5516'46		max. Earth dist.	7913 Jun 21 04:33		1.35624 AU
minimum elong	7912 Jul 13 02:05	26° © 18'11	0°05'04		7913 Jun 21 18:29	0_{\circ} වෙ	
behind sun begin	7912 Jul 12 20:41	25° © 49'53					
behind sun end	7912 Jul 13 07:30	26° © 46'31		superior conj	7913 Jun 26 19:29	9° © 56'42	-0°35'51
asc. node	7912 Jul 13 13:36	27° 5 018'32		minimum elong	7913 Jun 26 21:35	10° 5 07'19	0°35'34
	7912 Jul 14 20:13	$0^{\circ}\Omega$		asc. node	7913 Jun 30 10:38	17° 5 21'19	
evening rise	7912 Jul 20 10:08	11° Ω 49'22		evening rise	7913 Jul 04 17:16	26° © 09'56	
-	7912 Jul 29 18:33	0° m		-	7913 Jul 06 14:31	$0^{\circ}\Omega$	
evening max el	7912 Aug 09 12:55	14° m 42'28	21°34'55	evening max el	7913 Jul 22 16:55	25° Ω 37'04	20°13'10
desc. node	7912 Aug 17 11:33	20° mp 03'13	21 3.00	evening man er	7913 Jul 28 22:59	0° m)	20 13 10
retrograde	7912 Aug 17 11:33	20° mp 49'42		retrograde	7913 Aug 02 10:06	0° Mp 54'09	
•	=			•	-	-	
evening set	7912 Aug 24 11:25	20° Tp 34'25		evening set	7913 Aug 04 08:34	0° m 44'34	
inferior conj	7912 Sep 02 16:46	16°Mp35'39		desc. node	7913 Aug 04 08:38	0° т у44'33	
minimum elong	7912 Sep 02 07:27	16° Mp 48'41	4°24'51		7913 Aug 07 03:16	30° R Ω	
min. Earth dist.	7912 Sep 02 14:42	16° Mp 38′33	0.54728 AU	inferior conj	7913 Aug 13 11:17	26° Ω 46'29	-2°44'04
morning rise	7912 Sep 11 04:30	12° m 44'56		minimum elong	7913 Aug 13 03:50	26° Ω 57'28	2°41'29
direct	7912 Sep 14 17:53	12° m 17'23		min. Earth dist.	7913 Aug 15 01:14	25° Ω 50'31	0.54960 AU
morning max el	7912 Sep 27 03:27	18° m 09'06	22°08'10	morning rise	7913 Aug 21 21:56	22° Ω 35'49	
5	7912 Oct 06 14:40	0∘ ⊽		direct	7913 Aug 26 04:42	21° Ω 56'09	
asc. node	7912 Oct 00 14:40	ა _ 4° ჲ 50'10		morning max el	7913 Nug 20 04:42 7913 Sep 08 17:29	28° Ω 32'36	23°53'1/
morning set	7912 Oct 18 13:20	22° £ 20'53		morning max or	7913 Sep 08 17:29 7913 Sep 10 05:01	0° m)	20 00 1T
morning set				ana mada	-		
	7912 Oct 22 03:50	0°M		asc. node	7913 Sep 26 10:09	23° m 50'37	
					7913 Sep 29 13:48	0∘ 亚	
superior conj	7912 Oct 25 16:16		1°41'32	morning set	7913 Oct 03 01:01	7° £ 11'35	
minimum elong	7912 Oct 25 16:31	7°M30'15	1°41'36				
max. Earth dist.	7912 Oct 29 08:42	15°M08'41	1.34404 AU	superior conj	7913 Oct 09 23:12	22° £ 11'16	1°39'36

minimum elong	7913 Oct 09 22:17	22° ჲ 06'16	1°39'37	minimum elong	7914 Sep 24 07:45	6° £ 51'06	1°31'40
max. Earth dist.	7913 Oct 12 07:30	27° £ 14'18	1.33068 AU	max. Earth dist.	7914 Sep 25 13:23	9° £ 34'11	1.32174 AU
	7913 Oct 13 14:44	0°M		evening rise	7914 Oct 01 11:00	22° £ 13'19	
evening rise	7913 Oct 17 11:02	7°M56'01		<i>y</i>	7914 Oct 05 07:31	0°M₊	
Č	7913 Oct 29 11:09	0° ∡ ¹		desc. node	7914 Oct 18 04:35	22°M28'49	
desc. node	7913 Oct 31 07:31	3° ∡ *01'33			7914 Oct 23 09:19	0° ∡	
evening max el	7913 Nov 20 07:48	29° ∡ 11'16	27°26'02	evening max el	7914 Nov 02 17:00	12° ₹ 00'14	27°23'39
	7913 Nov 21 04:47	0°ರ		retrograde	7914 Nov 16 12:18	19° ∡ 14'13	
retrograde	7913 Dec 03 22:33	6° ප 30'01		evening set	7914 Nov 23 15:03	16° ₹ 51'34	
evening set	7913 Dec 10 22:30	3° ⋜ 55'56		min. Earth dist.	7914 Nov 27 07:09	13° ₹ '57'56	0.62125 AU
min. Earth dist.	7913 Dec 14 17:07	0° る 34'42	0.63998 AU	inferior conj	7914 Nov 30 05:49	11° ∡ 14'53	-3°11'54
	7913 Dec 15 06:44	30°R ✓		minimum elong	7914 Nov 30 11:48	11° ₹ 01'04	3°09'42
inferior conj	7913 Dec 17 05:36	27° ₹ 57'48	-2°02'44	morning rise	7914 Dec 07 10:39	6° ∡ 11'19	
minimum elong	7913 Dec 17 09:23	27° ∡ ¹47'55	2°01'04	direct	7914 Dec 09 17:11	5° х 48′33	
asc. node	7913 Dec 23 09:35	22° ∡ ¹49'48		asc. node	7914 Dec 10 06:36	5° √ 49'58	
morning rise	7913 Dec 23 21:57	22° ∡ ³36′05		morning max el	7914 Dec 16 13:27	9° ₰ 17'16	17°50'00
direct	7913 Dec 26 08:59	22° ₹ 05'51			7914 Dec 30 04:30	5°0	
morning max el	7914 Jan 01 20:51	25° ∡ ¹28'57	17°50'37	morning set	7915 Jan 01 09:18	3° ප 56'00	
	7914 Jan 05 15:59	0°ರ					
morning set	7914 Jan 18 15:01	20° る 55'48		superior conj	7915 Jan 12 11:40	23° る 24'55	0°12'14
	7914 Jan 23 23:29	0° ≈		minimum elong	7915 Jan 12 12:49	23° る 29'48	0°12'12
desc. node	7914 Jan 27 06:47	5° ≈ 30'37		behind sun begin	7915 Jan 12 07:05	23° る 05'26	
				behind sun end	7915 Jan 12 18:32	23° る 54'07	
superior conj	7914 Jan 31 13:35	12° ≈ 31'50	-0°30'37	desc. node	7915 Jan 14 03:45	26° る 14'25	
minimum elong	7914 Jan 31 10:08	12° ≈ 17'51	0°30'01		7915 Jan 16 09:48	0° ≈	
max. Earth dist.	7914 Feb 05 23:12	21° ≈ 11'38	1.44745 AU	max. Earth dist.	7915 Jan 19 15:13	5°≈17'25	1.43402 AU
	7914 Feb 11 13:47	0° ∀		evening rise	7915 Jan 26 22:51	16° ≈ 55′20	
evening rise	7914 Feb 16 08:44	7° ∺ 23'58			7915 Feb 04 12:42	0° ∀	
	7914 Mar 03 10:02	0 ° Υ			7915 Feb 26 18:41	0° Υ	
evening max el	7914 Mar 16 06:57	16° Y 45′05	20°24'57	evening max el	7915 Feb 27 04:02	0° Y ′24′00	21°36'03
asc. node	7914 Mar 21 08:38	20° Y 41′07		retrograde	7915 Mar 08 04:23	5° Y 44'16	
retrograde	7914 Mar 24 06:25	21° Y 24'22		asc. node	7915 Mar 08 05:41	5° Y 44'15	
evening set	7914 Mar 28 05:07	19° Y 54'40		evening set	7915 Mar 12 13:11	3° Y 59'18	
inferior conj	7914 Apr 02 12:57	13° Y 48'27	3°07'28		7915 Mar 16 04:22	30°₽)	
minimum elong	7914 Apr 02 11:16	13° Y 54'13	3°07'10	inferior conj	7915 Mar 17 20:41	27°) € 42'08	2°42'55
min. Earth dist.	7914 Apr 03 05:48	12°Υ50'54	0.67750 AU	minimum elong	7915 Mar 17 18:30	27°) (49'45	2°42'23
morning rise	7914 Apr 07 17:13	7° Υ 32'42		min. Earth dist.	7915 Mar 18 00:35	27°) €28'33	0.68269 AU
direct	7914 Apr 13 08:22	5°Υ02'06		morning rise	7915 Mar 22 23:39	21°) (29'43	
morning max el	7914 Apr 24 15:51	11° Y 48'11	24°24'55	direct	7915 Mar 28 00:47	19°) 18′25	22255115
desc. node	7914 Apr 25 06:26	12° Y 25'37		morning max el	7915 Apr 07 01:47	25°) 15′08	22°55'15
	7914 May 09 05:28	0° B		1 1	7915 Apr 11 08:48	0° Υ	
. ,	7914 May 28 10:15	0°Ⅱ 2°Ⅱ21142		desc. node	7915 Apr 12 03:24	0° Y 55'59	
morning set	7914 May 30 11:16 7914 Jun 03 02:40	3° Ⅲ 31'43 9° Ⅲ 59'53	1.37697 AU		7915 May 02 17:13 7915 May 11 12:14	0° と 14° と 05'19	
max. Earth dist.	/914 Juli 03 02.40	9 Д3933	1.3/09/ AU	morning set max. Earth dist.	7915 May 15 23:13		1.39934 AU
superior conj	7914 Jun 10 01:51	23° Ⅱ 00'56	1007127	max. Earth dist.	7915 May 20 18:09	0° Ⅱ	1.39934 AU
minimum elong	7914 Jun 10 01:51	23° I I20'45			7913 May 20 18.09	υщ	
minimum ciong	7914 Jun 10 05:38 7914 Jun 13 15:45	0°9	1 00 33	superior conj	7915 May 23 16:52	5° Ⅱ 19'40	1°36'58
asc. node	7914 Jun 17 07:40	7° © 16'25		minimum elong	7915 May 23 22:27	5° ∏ 45'14	
evening rise	7914 Jun 18 18:36	10°910'01		evening rise	7915 Jun 02 11:04	23° ∏ 41'39	1 3024
evening rise	7914 Jun 29 16:14	0°Ω		asc. node	7915 Jun 04 04:43	26° I I59'43	
evening max el	7914 Jul 05 09:50	7° Ω 15'22	19°11'04	dse. node	7915 Jun 05 19:00	0°95	
retrograde	7914 Jul 14 10:38	11°Ω43'02	1, 1101	evening max el	7915 Jun 18 13:10	19° 5 34'34	18°29'50
evening set	7914 Jul 16 08:23	11° Ω 31'56		retrograde	7915 Jun 26 05:51	23°524'30	10 2) 30
desc. node	7914 Jul 22 05:42	9° Ω 00'57		evening set	7915 Jun 28 09:34	23° © 07'23	
inferior conj	7914 Jul 24 19:32	7° Ω 20'43	-0°47'09	inferior conj	7915 Jul 06 00:52	18°936'54	0°54'08
minimum elong	7914 Jul 24 17:28	7° Ω 24'11		minimum elong	7915 Jul 06 02:45	18° © 33'11	0°53'20
min. Earth dist.	7914 Jul 27 14:46	5° Ω 28'11	0.56107 AU	desc. node	7915 Jul 09 02:45	16°5511'48	
morning rise	7914 Aug 01 23:36	2° £ 35′23		min. Earth dist.	7915 Jul 09 09:24	15°959'16	0.57942 AU
direct	7914 Aug 07 02:23	1° Ω 35'00		morning rise	7915 Jul 13 16:30	13° © 15'05	9
morning max el	7914 Aug 21 06:22	8° Ω 47'46	25°34'48	direct	7915 Jul 19 14:34	11°5545'16	
Ç	7914 Sep 06 02:39	0° m		morning max el	7915 Aug 02 23:57	19° © 24'25	26°55'53
asc. node	7914 Sep 13 07:08	13° mp 16'11		<i>5</i>	7915 Aug 11 23:57	$0^{\circ}\Omega$	-
morning set	7914 Sep 17 12:27	21° m 59'10			7915 Aug 29 16:49	0° mp	
Č	7914 Sep 21 05:10	0∘ ⊽		asc. node	7915 Aug 31 04:07	2° m 59'58	
	-			morning set	7915 Sep 01 22:02	6° Mp38′57	
superior conj	7914 Sep 24 09:31	7° ♀ 00'51	1°31'48				

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max. Earth dist.	7917 Aug 05 15:26	16° Ω 40'21	1.32215 AU		7918 Jul 20 07:48	0°N	
aumanian aani	7017 Aug 07 17:52	21° Ω 13'53	0020114	asc. node	7918 Jul 21 19:05	3° Ω 05'30	
superior conj minimum elong	7917 Aug 07 17:52 7917 Aug 07 16:12	21° Ω 04'52		superior conj	7918 Jul 22 22:56	5° Ω 33'26	0°11'48
minimum ciong	7917 Aug 07 10:12	0° m	0 37 40	minimum elong	7918 Jul 22 22:30	5° Ω 30'19	0°11'33
evening rise	7917 Aug 14 14:14	6° Mp 09'25		behind sun begin	7918 Jul 22 18:33	5°Ω10'02	0 11 55
Č	7917 Aug 27 01:33	0∘ <u>⊽</u>		behind sun end	7918 Jul 23 02:10	5° Ω 50'38	
desc. node	7917 Sep 07 19:50	15° ≏ 28'16		evening rise	7918 Jul 30 01:39	20° Ω 48'48	
evening max el	7917 Sep 08 04:53	15° ≏ 50'18	24°08'11		7918 Aug 03 12:42	0° ™	
retrograde	7917 Sep 21 22:18	22° ≏ 43'08		evening max el	7918 Aug 20 17:17	26° Mp 04'22	22°29'03
evening set	7917 Sep 26 18:25	21° ≏ 51'36		desc. node	7918 Aug 25 16:56	0° ჲ 03'54	
min. Earth dist.	7917 Oct 02 15:38	18° ≏ 56'25	0.56219 AU	_	7918 Aug 25 14:26	0∘ ⊽	
inferior conj	7917 Oct 05 00:36	17° £ 28'40		retrograde	7918 Sep 02 17:51	2° △ 33'50	
minimum elong	7917 Oct 05 00:42		5°33'05	evening set	7918 Sep 06 01:51	2° Ω 09'25	
morning rise direct	7917 Oct 13 09:08 7917 Oct 16 02:08	13° £ 29'36 13° £ 10'28		min. Earth dist.	7918 Sep 11 13:20 7918 Sep 14 00:08	30° ዪ ጥ 28° ሙ 40'02	0.55036 AU
morning max el	7917 Oct 16 02:08 7917 Oct 26 01:21	13 = 10 28 17° ⊆ 51'59	19°48'55	inferior conj	7918 Sep 14 00:08 7918 Sep 15 01:23	28° Mp 04'18	
asc. node	7917 Oct 20 01:21 7917 Oct 30 21:37	23° £ 29'27	17 40 33	minimum elong	7918 Sep 14 18:17	28° My 14'22	
use. Houe	7917 Nov 04 03:31	0°M		morning rise	7918 Sep 23 12:34	24° Mp 16'11	3 00 07
morning set	7917 Nov 12 19:54	16°M26'08		direct	7918 Sep 26 17:55	23° m 52'38	
	7917 Nov 19 12:25	0°⊀		morning max el	7918 Oct 08 06:32	29° m 16'34	21°12'04
				•	7918 Oct 09 00:36	0∘ ⊽	
superior conj	7917 Nov 20 15:21	2° ҂ 14′24	1°30'45	asc. node	7918 Oct 17 18:38	11° ≏ 30′08	
minimum elong	7917 Nov 20 17:43	2° ₹ 26′06	1°30'40		7918 Oct 27 14:50	0° M	
max. Earth dist.	7917 Nov 26 14:25	13° ∡ ⁴44'57	1.37309 AU	morning set	7918 Oct 28 04:27	1°M10'31	
evening rise	7917 Nov 30 08:28	20° ∡ ³36′58					
desc. node	7917 Dec 04 18:46	28° ₹ 20′12		superior conj	7918 Nov 04 11:58	16°M28'35	1°39'40
	7917 Dec 05 18:25	ි. ව°0		minimum elong	7918 Nov 04 12:59	16°M33'51	1°39'44
	7917 Dec 25 21:53	0°≈	25020102	max. Earth dist.	7918 Nov 09 00:36	25°M39'28	1.35371 AU
evening max el	7918 Jan 04 23:35	11°≈37'01	25°29'02		7918 Nov 11 05:53	0°⋪ 3°⋪36′00	
retrograde evening set	7918 Jan 17 04:31 7918 Jan 23 01:51	18°≈38'11 16°≈12'23		evening rise desc. node	7918 Nov 13 03:12 7918 Nov 21 15:49	18° × 46'25	
asc. node	7918 Jan 26 20:53	10 ≈12 23 12°≈09'03		desc. Hode	7918 Nov 21 13.49 7918 Nov 28 16:17	18 x 4023	
min. Earth dist.	7918 Jan 27 11:08	11°≈24'12	0.67405 AU	evening max el	7918 Nov 28 10:17 7918 Dec 18 12:48	0 ට 25° ට 21'18	26°31'04
inferior conj	7918 Jan 28 17:52	9°≈45'28	0°37'10	evening max er	7918 Dec 24 04:18	0°≈	20 31 01
minimum elong	7918 Jan 28 16:57	9° ≈ 48'25	0°36'54	retrograde	7918 Dec 31 11:06	2° ≈ 36'38	
morning rise	7918 Feb 03 08:25	3° ≈ 51'46		evening set	7919 Jan 06 20:47	0° ≈ 02'23	
direct	7918 Feb 06 18:12	2° ≈ 45'00			7919 Jan 06 21:57	30°Rる	
morning max el	7918 Feb 13 17:58	6° ≈ 36′23	19°12'37	min. Earth dist.	7919 Jan 10 23:38	25° る 49'06	0.66358 AU
greatest brilliancy	7918 Feb 27 01:14	24° ≈ 21'46	-0.7m	inferior conj	7919 Jan 12 17:58	23° る 42'08	-0°20'09
desc. node	7918 Mar 02 18:15	29° ≈ 59'41		minimum elong	7919 Jan 12 18:31	23° る 40'29	0°19'48
	7918 Mar 02 18:19	0° ∀		asc. node	7919 Jan 13 17:57	22° る 30'49	
morning set	7918 Mar 09 10:17	10°) 15′51		morning rise	7919 Jan 18 17:04	17°る58'51	
T d T d	7918 Mar 22 02:15	0° Υ 1° Υ 21'01	1 45002 ATT	direct	7919 Jan 21 16:25	17° る 09'19	10027121
max. Earth dist.	7918 Mar 22 22:51	1 7 21 01	1.45023 AU	morning max el	7919 Jan 28 05:47 7919 Feb 04 13:42	20°る41'21 0°≈	18°27'31
superior conj	7918 Mar 26 01:22	6° Ƴ 15'27	-2°04'35	morning set	7919 Feb 04 13.42 7919 Feb 17 09:39	0 ≈ 20°≈00'34	
minimum elong	7918 Mar 25 19:27		2°04'19	desc. node	7919 Feb 17 09:39 7919 Feb 17 15:12	20°≈22'36	
evening rise	7918 Apr 09 13:30	29° Y 44'13	2 0.19	dese. Hode	7919 Feb 23 16:55	0° ∀	
U -	7918 Apr 09 17:20	0°8					
asc. node	7918 Apr 24 19:52	23° 8 58'49		superior conj	7919 Mar 05 06:30	15°) 01'41	-1°37'45
evening max el	7918 Apr 29 01:08	29° 8 03'42	18°23'55	minimum elong	7919 Mar 04 20:53	14°) € 24′02	1°36'47
	7918 Apr 30 01:05	$\Pi^{\circ}0$		max. Earth dist.	7919 Mar 05 17:53	15°) 46′15	1.45496 AU
retrograde	7918 May 05 11:28	2° ∏ 31'41			7919 Mar 14 19:46	$0^{\circ}\Upsilon$	
evening set	7918 May 08 13:14	1° Ⅱ 39'34		evening rise	7919 Mar 21 02:39	9° Y 54'30	
	7918 May 10 19:19	30° ₹ 8		greatest brilliancy	7919 Mar 30 16:33	25° Y ′00′12	-0.8m
inferior conj	7918 May 14 09:08		3°18'09	_	7919 Apr 02 22:39	0° 8	
minimum elong	7918 May 14 10:22	26° 8 07'47	3°17'56	asc. node	7919 Apr 11 16:56	11° 8 48'54	10050104
min. Earth dist.	7918 May 16 16:05	23° 8 31'43	0.64372 AU	evening max el	7919 Apr 12 11:21	12° 8 37'09	18°58'24
morning rise direct	7918 May 20 06:33 7918 May 26 23:35	19° 8 56'49 17° 8 13'10		retrograde evening set	7919 Apr 19 06:32 7919 Apr 22 15:42	16° 8 25'09 15° 8 18'50	
desc. node	7918 May 26 23:33 7918 May 29 17:51	17° 8 37'36		inferior conj	7919 Apr 22 15:42 7919 Apr 28 04:39		3°24'32
morning max el	7918 May 29 17.31 7918 Jun 09 15:29	25° 8 11'44	27°28'16	minimum elong	7919 Apr 28 04:31	9° 8 34'39	3°24'26
morning max or	7918 Jun 14 00:33	0°II	2, 2010	min. Earth dist.	7919 Apr 29 20:10	7° 8 29'24	0.66022 AU
	7918 Jul 04 13:35	0°9		morning rise	7919 May 03 16:52	3° 8 16'41	
morning set	7918 Jul 14 20:27	18° © 53'22		direct	7919 May 10 02:33	0° 8 29'55	
max. Earth dist.	7918 Jul 19 14:35	28° © 30'18	1.33164 AU	desc. node	7919 May 16 14:52	2° 8 45'39	

	7010 M 22 01.50	00 🗸 10100	26922104		7020 M 04 11-40	21° Y 28'11	25014147
morning max el	7919 May 23 01:59	8° 0 1233	26°32'04	morning max el	7920 May 04 11:40		25-14-47
	7919 Jun 09 01:29 7919 Jun 26 23:55	0.ee			7920 May 11 21:19 7920 Jun 01 07:08	0°B 0°B	
mamina aat	7919 Jun 28 01:03	0 55 1°557'44		marning gat	7920 Jun 09 13:52	0 <u>П</u> 14° П 14'56	
morning set max. Earth dist.	7919 Jul 28 01:03 7919 Jul 02 03:22	9°952'17	1.34595 AU	morning set max. Earth dist.	7920 Jun 13 05:26	14 П 14 36 20° П 55'54	1.36468 AU
max. Earth dist.	/919 Jul 02 03:22	9-93217	1.34393 AU	max. Earth dist.	7920 Jun 13 03:26 7920 Jun 17 23:15	20°Щээ э4 0° ©	1.30408 AU
superior conj	7919 Jul 06 21:29	19° 5 29'11	0017!51		/920 Juli 1/ 23.13	0 39	
minimum elong	7919 Jul 06 22:30	19 5 29 11 19° 5 34'22	0°17'47	superior conj	7920 Jun 19 10:44	2° © 54'33	0040110
asc. node	7919 Jul 08 16:05	19 \$34 22 23°\$10'17	0 1/4/	minimum elong	7920 Jun 19 10:44 7920 Jun 19 13:42	2 \$3433 3°\$09'14	
asc. Houc	7919 Jul 11 22:14	23 3 10 17		asc. node	7920 Jun 24 13:07	13°9510'04	0 48 34
evening rise	7919 Jul 14 10:56	5°Ω17'34		evening rise	7920 Jun 27 15:55	19° © 30'01	
evening rise	7919 Jul 28 02:07	0° m)		evening rise	7920 Jul 02 24:00	0°Ω	
evening max el	7919 Aug 02 13:45	6° Mp 35'32	20°57'54	evening max el	7920 Jul 14 23:17	17° Ω 47'48	19°44'11
desc. node	7919 Aug 12 14:01	12° mp 16'02	20 37 31	retrograde	7920 Jul 24 23:07	22°Ω43'16	17 1111
retrograde	7919 Aug 14 06:29	12° m/23'04		evening set	7920 Jul 26 19:38	22°Ω33'49	
evening set	7919 Aug 16 11:46	12° m) 11'22		desc. node	7920 Jul 29 11:05	21° Ω 50'17	
inferior conj	7919 Aug 25 17:55	8° Mp 14'17	-3°47'24	inferior conj	7920 Aug 04 16:49	18° Ω 31'29	-1°54'03
minimum elong	7919 Aug 25 08:36	8° m 27'29		minimum elong	7920 Aug 04 11:35		1°52'10
min. Earth dist.	7919 Aug 26 09:12	7° m 52'37		min. Earth dist.	7920 Aug 06 21:04	17° Ω 10'32	0.55341 AU
morning rise	7919 Sep 03 05:43	4° m) 17'50		morning rise	7920 Aug 13 01:23	14° Ω 06'42	
direct	7919 Sep 07 01:53	3° Mp 46'14		direct	7920 Aug 17 16:14	13° Ω 19'26	
morning max el	7919 Sep 20 00:38	9° m 57'10	22°52'18	morning max el	7920 Aug 31 13:24	20° Ω 13′25	24°37'57
asc. node	7919 Oct 04 15:38	0° £ 11'22		•	7920 Sep 08 21:42	0° m p	
	7919 Oct 04 13:06	0∘ 亚		asc. node	7920 Sep 20 12:36	19° m 22'57	
morning set	7919 Oct 12 15:29	16° ≙ 00'07			7920 Sep 25 17:52	0∘ ⊽	
	7919 Oct 19 04:09	0° M.		morning set	7920 Sep 26 03:12	0° ჲ 49'35	
superior conj	7919 Oct 19 15:54	1° M .02'51	1°41'28	superior conj	7920 Oct 03 00:30	15° ≙ 48'54	1°36'59
minimum elong	7919 Oct 19 15:37	1°M01'21	1°41'32	minimum elong	7920 Oct 02 23:10	15° ⊆ 41'39	1°36'56
max. Earth dist.	7919 Oct 22 18:25	7°M36'34	1.33782 AU	max. Earth dist.	7920 Oct 04 20:13	19° Ω 46'46	1.32626 AU
evening rise	7919 Oct 27 12:00	17° M .12'47	1.55 / 02 110	man. Barur dist.	7920 Oct 09 16:08	0°M	1.52020110
e vennig rise	7919 Nov 03 07:36	0° %		evening rise	7920 Oct 10 07:18	1°M17'46	
desc. node	7919 Nov 08 12:53	8° ∡ 756'04		desc. node	7920 Oct 25 09:57	28°M41'34	
	7919 Nov 23 01:33	ರ°0			7920 Oct 26 05:56	0° ∡ 7	
evening max el	7919 Dec 01 01:40	8° ප 53'32	27°13'20	evening max el	7920 Nov 12 12:49	22° ₹ 02'04	27°29'00
retrograde	7919 Dec 14 11:55	16° る 13'48		retrograde	7920 Nov 26 06:14	29° ∡ ¹20′05	
evening set	7919 Dec 21 07:48	13° る 37'02		evening set	7920 Dec 03 08:06	26° ₹ 49'24	
min. Earth dist.	7919 Dec 25 04:56	9° る 57'46	0.64952 AU	min. Earth dist.	7920 Dec 07 01:05	23° х 40′52	0.63226 AU
inferior conj	7919 Dec 27 11:00	7° る 29'04	-1°23'51	inferior conj	7920 Dec 09 18:16	20° ₹ 59'31	-2°32'03
minimum elong	7919 Dec 27 13:31	7° る 22'08	1°22'40	minimum elong	7920 Dec 09 23:02	20° ∡ ⁴47'42	2°30'06
asc. node	7919 Dec 31 15:01	3° る 22'57		morning rise	7920 Dec 16 15:54	15° ∡ ¹45'17	
morning rise	7920 Jan 02 20:38	1° る 58'52		asc. node	7920 Dec 17 12:03	15° х 29′53	
direct	7920 Jan 05 11:27	1° る 22'49		direct	7920 Dec 19 00:31	15° ∡ 18'49	
morning max el	7920 Jan 11 21:53	4° る 46'30	17°59'08	morning max el	7920 Dec 25 15:13	18° ≯ 43'31	17°48'05
	7920 Jan 28 20:54	0° ≈			7921 Jan 02 21:07	0° ප	
morning set	7920 Jan 29 14:39	1° ≈ 13'38		morning set	7921 Jan 10 21:15	13° る 40'43	
desc. node	7920 Feb 04 12:10	10° ≈ 56'59			7921 Jan 20 09:35	0° ≈	
	5000 5. 1. 1.	2.42	005555	desc. node	7921 Jan 21 09:07	1° ≈ 38′24	
superior conj	7920 Feb 12 16:52	24°≈09'54			#001 X	40	0011110
minimum elong	7920 Feb 12 10:16	23°≈43'38	0°55'41	superior conj	7921 Jan 23 00:07	4°≈20'19	
	7920 Feb 16 09:24	0°) (minimum elong	7921 Jan 22 22:53	4°≈15'13	0°11'29
max. Earth dist.	7920 Feb 16 13:31		1.45220 AU	behind sun begin	7921 Jan 22 16:14	3°≈47'42	
evening rise	7920 Feb 28 20:40	19°) €23'24		behind sun end	7921 Jan 23 05:32	4°≈42'42	1 44040 477
, , 1 - 1111	7920 Mar 06 18:43	0°Υ 10° Υ 40'07	0.6	max. Earth dist.	7921 Jan 29 07:01	14°≈33'35	1.44243 AU
greatest brilliancy	7920 Mar 13 23:19	10° Y 49'07	-0.6m	evening rise	7921 Feb 07 07:38	28°≈42'37	
evening max el	7920 Mar 25 17:01	26° Y 14'15 28° Y 46'02	19°49'14		7921 Feb 08 03:47	0° ∀ 0° Υ	
asc. node	7920 Mar 28 14:02 7920 Mar 30 16:58	0° 8		ovonina ma1	7921 Feb 28 14:23 7921 Mar 08 17:13	9° Υ 52'28	20°54'00
retrograda	7920 Mar 30 16:58 7920 Apr 02 04:33	0°832'52		evening max el asc. node	7921 Mar 08 17:13 7921 Mar 15 11:07	14° Υ 34'56	20 J4 00
retrograde	7920 Apr 02 04:33 7920 Apr 04 13:39	0° O 3232		retrograde	7921 Mar 13 11:07 7921 Mar 17 03:00	14° Y 34 36 14° Y 49'08	
evening set	7920 Apr 04 13.39 7920 Apr 05 21:53	30 κ 1 29° Υ 11'57		evening set	7921 Mar 21 05:44	14 γ 49 08 13° γ 13'09	
inferior conj	7920 Apr 03 21:33 7920 Apr 11 06:52		3°17'02	inferior conj	7921 Mar 26 13:12	7° Υ '02'00	2°58'12
minimum elong	7920 Apr 11 05:39	23° Y 17'01	3°16'51	minimum elong	7921 Mar 26 11:15	7° Υ '02'00	2°57'49
min. Earth dist.	7920 Apr 11 03:39 7920 Apr 12 07:40	21° Υ 49'55	0.67245 AU	min. Earth dist.	7921 Mar 27 00:29	6°Υ23'02	0.68024 AU
morning rise	7920 Apr 12 07:40 7920 Apr 16 13:08	16° Υ 55'41	5.0,215710	morning rise	7921 Mar 31 16:33	0° Υ 47'16	0.00021710
direct	7920 Apr 10 13:00 7920 Apr 22 11:41	14° Υ 16'38			7921 Apr 01 15:35	30° ₹	
desc. node	7920 May 02 11:49	19° Υ 32'42		direct	7921 Apr 06 01:50	28° H 24'06	
	,,				-F- 02 02.00		

	7921 Apr 11 00:15	0°Υ		inferior conj	7922 Mar 10 21:33	20° ¥ 58'34	2°29'39
morning max el	7921 Apr 16 20:37	4°Υ50'23	23°46'40	minimum elong	7922 Mar 10 21:33	21° \ 06'28	2°29'04
desc. node	7921 Apr 10 20:37	7° Υ 31'02	23 40 40	min. Earth dist.	7922 Mar 10 20:21	21°) (00'20'	0.68373 AU
desc. node	7921 May 06 05:10	0°8		morning rise	7922 Mar 16 00:47	14°) (47'56	0.00373710
morning set	7921 May 22 05:28	25° 8 30'05		direct	7922 Mar 20 20:01	12°) (45'37	
morning set	7921 May 24 19:59	0°II		morning max el	7922 Mar 30 07:41	18° ¥ 20′00	22°17'36
max. Earth dist.	7921 May 24 19:39 7921 May 26 01:20		1.38642 AU	desc. node	7922 Apr 06 05:43	26°) 21'08	22 17 30
max. Lartii dist.	7)21 Way 20 01.20	2 1100 33	1.50042710	dese. Hode	7922 Apr 09 00:31	0°Υ	
superior conj	7921 Jun 02 11:05	15° Ⅱ 40'35	-1°20'27		7922 Apr 29 08:19	0°8	
minimum elong	7921 Jun 02 15:57	16° I I03'33		morning set	7922 May 02 18:33	5° 8 29'56	
minimum clong	7921 Jun 09 21:13	0° ©	1 1/31	max. Earth dist.	7922 May 07 23:04	14° 8 04'50	1.40878 AU
asc. node	7921 Jun 11 10:10	3°900'40		max. Earth that.	1922 Way 07 25.04	14 004 30	1.40070710
evening rise	7921 Jun 11 13:50	3°918'37		superior conj	7922 May 15 18:07	27° 8 36'35	-1°47'54
evening max el	7921 Jun 27 21:09	29° © 44'52	18°51'04	minimum elong	7922 May 15 18:07	28° 8 02'12	
evening max er	7921 Jun 28 03:23	29 3 44 32 0°Ω	16 31 04	minimum ciong	7922 May 17 02:04	0°II	1 4/2/
retrograde	7921 Jul	3° Ω 54'16		evening rise	7922 May 17 02:04 7922 May 26 01:19	16° ∏ 34'38	
evening set	7921 Jul 08 06:47	3° Ω 41'06		asc. node	7922 May 20 01:19 7922 May 29 07:12	22° I I37'09	
evening set	7921 Jul 15 12:32	30°RS		asc. node		0°9	
:£:		• •	0901100		7922 Jun 02 10:01		10010120
inferior conj	7921 Jul 16 09:37	29°522'28		evening max el	7922 Jun 11 03:50	12°5518'49	18°18'30
minimum elong	7921 Jul 16 09:33	29°522'34		retrograde	7922 Jun 18 10:01	15°957'02	
transit middle	7921 Jul 16 09:33	29°522'34	0°01'15	evening set	7922 Jun 20 17:04	15°936'04	1000155
transit begin	7921 Jul 16 05:51	29°529'13		inferior conj	7922 Jun 28 00:10	10°956'47	1°28'55
transit end	7921 Jul 16 13:16	29° © 15'54		minimum elong	7922 Jun 28 02:52	10°951'05	1°27'55
desc. node	7921 Jul 16 08:05	29° © 25'12		min. Earth dist.	7922 Jul 01 09:48	8°906'15	0.58854 AU
min. Earth dist.	7921 Jul 19 12:44	27° © 08'24	0.56821 AU	desc. node	7922 Jul 03 05:08	6° © 44'37	
morning rise	7921 Jul 24 08:56	24° © 21'03		morning rise	7922 Jul 05 09:30	5° © 22'17	
direct	7921 Jul 29 20:34	23° © 08'35		direct	7922 Jul 11 14:36	3° © 38'40	
	7921 Aug 12 13:08	$0^{\circ}\Omega$		morning max el	7922 Jul 25 23:43	11°525'06	27°20'59
morning max el	7921 Aug 13 03:36	0° Ω 34'16	26°12'41		7922 Aug 09 11:30	0 ° Ω	
	7921 Sep 02 18:55	0° mp		asc. node	7922 Aug 25 06:33	28° Ω 46′50	
asc. node	7921 Sep 07 09:35	8° m 57'11		morning set	7922 Aug 25 22:17	0°Mp09'12	
morning set	7921 Sep 10 14:03	15° m 34'32			7922 Aug 25 20:32	0°Щ	
superior conj	7921 Sep 17 11:40	0° Ω 40'10	1°26'53	superior conj	7922 Sep 01 23:27	15° m 29'42	1°11'39
minimum elong	7921 Sep 17 09:39	0° £ 29'04	1°26'39	minimum elong	7922 Sep 01 21:11	15° Mp 17'11	1°11'15
	7921 Sep 17 04:24	0∘ ⊽		max. Earth dist.	7922 Sep 01 14:26	14° m 39'45	1.31681 AU
max. Earth dist.	7921 Sep 18 04:03	2° ≙ 10'47	1.31926 AU	evening rise	7922 Sep 08 17:59	0° Ω 19'55	
evening rise	7921 Sep 24 10:09	15° ≏ 42'57			7922 Sep 08 14:15	0∘ ट	
	7921 Oct 01 15:01	0° M ₊			7922 Sep 24 19:42	0°M	
desc. node	7921 Oct 12 07:01	17°ML53'10		desc. node	7922 Sep 29 04:06	6°M16′28	
	7921 Oct 21 10:59	0°⊀		evening max el	7922 Oct 07 20:24	16° M ₁8'37	26°22'24
evening max el	7921 Oct 25 20:02	4° ≯ ³34'38	27°12'41	retrograde	7922 Oct 21 18:27	23°M24'15	
retrograde	7921 Nov 08 16:56	11° ∡ ¹46'24		evening set	7922 Oct 28 09:15	21°M37'18	
evening set	7921 Nov 15 18:08	9° ∡ ³32′20		min. Earth dist.	7922 Nov 01 09:43	19°M02'46	0.59172 AU
min. Earth dist.	7921 Nov 19 10:47	6° ≯ 47'12	0.61256 AU	inferior conj	7922 Nov 04 14:26	16°M36'47	-4°42'49
inferior conj	7921 Nov 22 12:37	4° ₹ 05'42	-3°40'51	minimum elong	7922 Nov 04 21:26	16°M23'24	4°41'09
minimum elong	7921 Nov 22 19:18	3° ₹ 51'02	3°38'35	morning rise	7922 Nov 12 11:54	12°M03'56	
	7921 Nov 27 23:49	30°RM		direct	7922 Nov 14 18:12	11° M 46'07	
morning rise	7921 Nov 29 22:43	29°M10'37		asc. node	7922 Nov 21 06:03	14°M22'19	
direct	7921 Dec 02 04:13	28°M50'04		morning max el	7922 Nov 22 16:25	15°M38'24	18°22'28
asc. node	7921 Dec 04 09:03	29°M10'53			7922 Dec 02 16:18	0° ∡ ″	
	7921 Dec 06 04:58	0°⊀		morning set	7922 Dec 08 13:59	11° ₹ 00'31	
morning max el	7921 Dec 09 06:35	2° ҂ ¹24'16	17°55'22				
morning set	7921 Dec 24 22:57	27° ∡ °02′19		superior conj	7922 Dec 17 17:13	28° ∡ 15'31	0°59'49
	7921 Dec 26 13:51	0°ප		minimum elong	7922 Dec 17 20:41	28° ₰ ³31'26	0°59'28
					7922 Dec 18 16:04	0°る	
superior conj	7922 Jan 04 09:12	15° ⋜ 45'14	0°28'18	max. Earth dist.	7922 Dec 25 06:12	11° る 39'14	1.40688 AU
minimum elong	7922 Jan 04 11:32	15° る 55'24	0°28'05	desc. node	7922 Dec 26 03:09	13° る 08'43	
desc. node	7922 Jan 08 06:07	22° る 23'40		evening rise	7922 Dec 29 17:45	19° る 11'20	
max. Earth dist.	7922 Jan 11 20:56	28° る 25'43	1.42676 AU		7923 Jan 05 11:51	0° ≈	
	7922 Jan 12 19:56	0° ≈			7923 Jan 26 17:08	0° ∀	
evening rise	7922 Jan 18 03:12	8° ≈ 31'00		evening max el	7923 Feb 02 03:34	7° 升 15'55	23°28'38
	7922 Feb 01 08:07	0° ∀		retrograde	7923 Feb 12 18:34	13°) 32′33	
evening max el	7922 Feb 19 12:19	23°) 32′49	22°08'50	asc. node	7923 Feb 17 05:14	11°) 55′42	
retrograde	7922 Mar 01 00:08	29°) 10′23		evening set	7923 Feb 17 19:57	11° ∺ 26′25	
asc. node	7922 Mar 02 08:10	29° ∺ 01'17		min. Earth dist.	7923 Feb 22 17:04	5°) 44'13	0.68303 AU
evening set	7922 Mar 05 13:36	27° ∺ 19'10		inferior conj	7923 Feb 23 06:00	4°) 59′50	1°52'21
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	7022 E 1 22 02 52	50 V 0 5 100	1051140		7024 F 1 07 12 12	100 - 00110	100752
minimum elong	7923 Feb 23 03:52	5° ∺ 07'09	1°51'42	inferior conj	7924 Feb 07 12:43	19°≈02'19	1°06'53
	7923 Feb 27 06:41	30°R≈ 2000 o 5 412 5		minimum elong	7924 Feb 07 11:13 7924 Feb 12 23:24	19°≈07'19	1°06'24
morning rise direct	7923 Feb 28 11:44	28°≈54'35 27°≈14'55		morning rise direct		13°≈03'59 11°≈46'04	
direct	7923 Mar 04 17:05 7923 Mar 10 19:23	2/ ≈ 1433			7924 Feb 16 15:50 7924 Feb 24 01:12	11 ≈40 04 15°≈54'09	19°45'57
morning max el	7923 Mar 10 19.23 7923 Mar 13 00:32	0 X 2° ¥ 01'01	20055127	morning max el	7924 Feb 24 01:12 7924 Mar 06 01:59	13 ≈ 3409	19 43 37
desc. node	7923 Mar 24 02:41	15°\(\frac{1}{48}\)'53	20 33 37	greatest brilliancy	7924 Mar 07 20:41	2°) 35'18	-0.6m
desc. node	7923 Mai 24 02:41 7923 Apr 02 20:48	15 γ (48 55		desc. node	7924 Mar 09 23:39	5°) (43'38	-0.0111
morning set	7923 Apr 12 05:10	14° Υ 18'26		morning set	7924 Mar 21 02:28	22°) 36'27	
max. Earth dist.	7923 Apr 20 03:30	26° Y ′56'41	1.42886 AU	morning sec	7924 Mar 25 21:01	0°Υ	
max. Dartii dist.	7923 Apr 22 00:21	0°8	1.12000710	max. Earth dist.	7924 Apr 01 14:49	10° Υ 35'49	1.44419 AU
	· · · ·	. •			r		
superior conj	7923 Apr 27 03:07	8° 8 32'01	-2°06'47	superior conj	7924 Apr 06 11:14	18° Y 22'01	-2°10'58
minimum elong	7923 Apr 27 07:01	8° 8 48'31	2°06'42	minimum elong	7924 Apr 06 09:25	18° Ƴ 14'41	2°10'58
evening rise	7923 May 08 22:12	29° 8 08'19		_	7924 Apr 13 13:28	0°8	
	7923 May 09 09:47	$\Pi^{\circ}0$		evening rise	7924 Apr 19 23:47	10° 8 49'05	
asc. node	7923 May 16 04:14	11° Ⅱ 54'12			7924 May 01 13:33	$\Pi^{\circ}0$	
evening max el	7923 May 25 15:32	25° Ⅱ 20′00	18°05'43	asc. node	7924 May 02 01:18	0° Ⅱ 44'38	
retrograde	7923 Jun 01 06:00	28° Ⅱ 43′06		evening max el	7924 May 08 04:50	8° Ⅱ 39′12	18°11'57
evening set	7923 Jun 03 20:26	28° Ⅱ 11'30		retrograde	7924 May 14 14:07	12° ∏ 01'44	
inferior conj	7923 Jun 10 10:42	23° Ⅱ 12′00	2°30'31	evening set	7924 May 17 11:40	11° Ⅱ 17'36	
minimum elong	7923 Jun 10 13:43	23° Ⅱ 04'40	2°29'40	inferior conj	7924 May 23 13:09	5° ∏ 59'34	3°06'46
min. Earth dist.	7923 Jun 13 14:41	20° Ⅱ 08'10	0.61094 AU	minimum elong	7924 May 23 15:10	5° ∏ 54'01	3°06'20
morning rise	7923 Jun 17 04:41	17° Ⅱ 14'11		min. Earth dist.	7924 May 26 04:45	3° Ⅱ 05′23	0.63253 AU
desc. node	7923 Jun 20 02:10	15° Ⅱ 42'45			7924 May 29 11:28	30°₽ ୪	
direct	7923 Jun 23 20:19	15° Ⅱ 00'17		morning rise	7924 May 29 17:16	29° 8 48'38	
morning max el	7923 Jul 08 02:44	22° Ⅲ 59'21	27°53'14	direct	7924 Jun 05 11:48	27° 8 12'16	
	7923 Jul 14 08:13	0 \circ \odot		desc. node	7924 Jun 05 23:12	27° 8 12'59	
	7923 Aug 02 16:20	0 \circ Ω			7924 Jun 13 05:58	Π $^{\circ}0$	
morning set	7923 Aug 10 02:08	14° £ 28′31		morning max el	7924 Jun 19 10:45	5° Ⅱ 15'03	27°47'21
asc. node	7923 Aug 12 03:34	18° Ω 46'44			7924 Jul 08 03:08	0 \circ \odot	
max. Earth dist.	7923 Aug 15 23:34	27° Ω 02'28	1.31889 AU	morning set	7924 Jul 23 23:20	28°\$25'40	
					7924 Jul 24 18:03	0 \circ Ω	
superior conj	7923 Aug 17 10:07	0° Mp 12'11	0°51'41	max. Earth dist.	7924 Jul 29 03:19	9° Ω 06′28	1.32558 AU
minimum elong	7923 Aug 17 08:06	0° mp 01'03	0°51'14	asc. node	7924 Jul 29 00:34	8° Ω 51'56	
	7923 Aug 17 07:55	0° m)					
evening rise	7923 Aug 24 04:43	15° m/02'28		superior conj	7924 Jul 31 17:50	14° Ω 41'46	0°27'26
	7923 Aug 31 14:12	0∘ ⊽		minimum elong	7924 Jul 31 16:34		0°27'05
desc. node	7923 Sep 16 01:11	23° ₽ 32'32	25002120	evening rise	7924 Aug 07 16:25	29° Ω 44'23	
evening max el	7923 Sep 19 12:36	27° £ 11'52	25-02-38		7924 Aug 07 19:21	0 ்⊽ 0° ம்	
	7923 Sep 22 18:49	0°ጤ 4°ጤ11'43			7924 Aug 24 13:26		22925154
retrograde evening set	7923 Oct 03 09:28 7923 Oct 09 00:54	2°M59'32		evening max el desc. node	7924 Aug 31 00:05 7924 Sep 01 22:15	7° £ 30'59 9° £ 15'43	23°25'54
min. Earth dist.	7923 Oct 14 00:00		0.57191 AU	retrograde	7924 Sep 01 22:13 7924 Sep 13 12:34	9 = 13 43 14° ⊆ 16'58	
iiiii. Eartii dist.	7923 Oct 14 00:00 7923 Oct 14 10:45	0 IIG1 / 24 30°RΩ	0.37191 AO	evening set	7924 Sep 13 12:34 7924 Sep 17 17:00	13° £ 38'39	
inferior conj	7923 Oct 14 10:43	28° £ 23'45	-5°24'57	min. Earth dist.	7924 Sep 24 09:47	10° ⊆ 30'26	0.55618 AU
minimum elong	7923 Oct 17 00:32	28° ⊆ 17'23		inferior conj	7924 Sep 26 07:01	9° £ 23'41	
morning rise	7923 Oct 25 02:27	24° ⊆ 13'58	3 2432	minimum elong	7924 Sep 26 03:54	9° £ 28'17	
direct	7923 Oct 27 14:10	23° ♀ 56'09		morning rise	7924 Oct 04 17:00	5° Ω 31'14	3 20 13
morning max el	7923 Nov 05 17:12	28° £ 16′23	19°11'00	direct	7924 Oct 07 14:38	5° Ω 10'44	
morning man vi	7923 Nov 07 09:13	0°M	1, 1100	morning max el	7924 Oct 18 05:58	10° ⊆ 09'36	20°21'52
asc. node	7923 Nov 08 03:04	0°M51'29		asc. node	7924 Oct 25 00:06	18° ≏ 23'12	
morning set	7923 Nov 22 14:07	25°M23'06			7924 Oct 31 19:11	0°M	
S	7923 Nov 24 21:43	0° ∡ ¹		morning set	7924 Nov 05 20:19	10°M01'43	
				· ·			
superior conj	7923 Nov 30 19:06	11° ∡ ³36'43	1°21'59	superior conj	7924 Nov 13 10:02	25°M35'22	1°35'27
minimum elong	7923 Nov 30 22:06	11° ∡ 751'12	1°21'48	minimum elong	7924 Nov 13 11:51	25°M44'29	1°35'27
max. Earth dist.	7923 Dec 07 11:54	24° ∡ ¹09'31	1.38523 AU		7924 Nov 15 14:51	0°⊀	
	7923 Dec 10 18:50	0°₹		max. Earth dist.	7924 Nov 18 18:39	6° ₰ 09'46	1.36439 AU
evening rise	7923 Dec 11 06:22	0° ප 50'11		evening rise	7924 Nov 22 15:13	13° ∡ °23′22	
desc. node	7923 Dec 13 00:11	3° ⋜ 49'53		desc. node	7924 Nov 28 21:13	24° ∡ °23′17	
	7923 Dec 29 18:44	0° ≈			7924 Dec 02 06:32	8°0	
evening max el	7924 Jan 15 16:49	21° ≈ 01'42	24°47'12		7924 Dec 23 17:05	0° ≈	
retrograde	7924 Jan 27 09:14	27° ≈ 50'17		evening max el	7924 Dec 28 05:50	4° ≈ 48'39	25°57'27
evening set	7924 Feb 01 23:15	25° ≈ 30'43		retrograde	7925 Jan 09 19:09	11° ≈ 58′06	
asc. node	7924 Feb 04 02:18	23° ≈ 23'13		evening set	7925 Jan 15 21:48	9° ≈ 28′03	
min. Earth dist.	7924 Feb 06 12:24	20° ≈ 22'50	0.67836 AU	min. Earth dist.	7925 Jan 20 04:11	4° ≈ 54'39	0.66995 AU

asc. node	7925 Jan 20 23:22	3° ≈ 54'48		evening max el	7925 Dec 10 19:06	18° る 29'39	26°52'02
inferior conj	7925 Jan 21 15:51	3°≈02'59	0°13'45	retrograde	7925 Dec 23 23:25	16 3 2939 25° 3 48'13	20 32 02
,	7925 Jan 21 15:29		0°13'43	evening set		23° る 12'21	
minimum elong		3°≈04'07		Č	7925 Dec 30 13:37		0.65706.411
transit middle	7925 Jan 21 15:29	3°≈04'07	0°13'43	min. Earth dist.	7926 Jan 03 14:00	19°る13'26	0.65796 AU
transit begin	7925 Jan 21 14:00	3°≈08'48		inferior conj	7926 Jan 05 13:14	16°る56'27	
transit end	7925 Jan 21 16:59	2°≈59'27		minimum elong	7926 Jan 05 14:34	16°る52'35	0°45'45
	7925 Jan 24 05:11	30°Rる		asc. node	7926 Jan 07 20:26	14°る22'35	
morning rise	7925 Jan 27 09:47	27°る13'23		morning rise	7926 Jan 11 16:34	11°る18'06	
direct	7925 Jan 30 14:47	26° る 14'32		direct	7926 Jan 14 12:01	10° ට 34'44	
	7925 Feb 06 10:44	0° ≈		morning max el	7926 Jan 20 23:17	14° る 02'13	18°13'19
morning max el	7925 Feb 06 09:25	29° る 56'42	18°51'26		7926 Feb 01 12:34	0° ≈	
desc. node	7925 Feb 24 20:38	25°≈58'19		morning set	7926 Feb 08 22:51	11° ≈ 57′25	
	7925 Feb 27 10:38	0° ∀		desc. node	7926 Feb 11 17:35	16° ≈ 26′39	
morning set	7925 Feb 28 10:54	1°) 34'45			7926 Feb 20 05:22	0° ∀	
max. Earth dist.	7925 Mar 15 07:19	24°) (47'40	1.45312 AU				
				superior conj	7926 Feb 24 03:22	6° 升 10′28	
superior conj	7925 Mar 16 22:31	27° ∺ 21'32		minimum elong	7926 Feb 23 18:21		1°20'24
minimum elong	7925 Mar 16 14:14	26°) (49′01	1°54'57	max. Earth dist.	7926 Feb 26 02:40	9° ₩ 16'01	1.45472 AU
	7925 Mar 18 14:48	0 ° Υ			7926 Mar 11 09:32	0 ° Υ	
evening rise	7925 Apr 01 02:23	21° Y 31'29		evening rise	7926 Mar 12 06:16	1° Y 20'48	
	7925 Apr 06 08:00	0°B		greatest brilliancy	7926 Mar 23 23:27	19° Ƴ 29'24	-0.7m
asc. node	7925 Apr 18 22:22	19° 8 00'07			7926 Mar 31 05:46	0° ႘	
evening max el	7925 Apr 21 16:55	22° 8 09'40	18°36'26	evening max el	7926 Apr 05 01:27	5° 8 45'43	19°18'12
retrograde	7925 Apr 28 06:07	25° 8 44'45		asc. node	7926 Apr 05 19:26	6° 8 29'41	
evening set	7925 May 01 10:54	24° 8 46'50		retrograde	7926 Apr 12 02:38	9° 8 45'11	
inferior conj	7925 May 07 03:28	19° 8 11'44	3°22'43	evening set	7926 Apr 15 15:13	8° 8 32'41	
minimum elong	7925 May 07 04:07	19° 8 09'47	3°22'34	inferior conj	7926 Apr 21 02:10	2° 8 42'00	3°22'50
min. Earth dist.	7925 May 09 03:58	16° 8 45'16	0.65130 AU	minimum elong	7926 Apr 21 01:32	2° 8 44'01	3°22'44
morning rise	7925 May 12 20:35	12° 8 55'14		min. Earth dist.	7926 Apr 22 11:21	0° 8 54'19	0.66601 AU
direct	7925 May 19 11:10	10° 8 08'25			7926 Apr 23 04:30	30° ₹ Υ	
desc. node	7925 May 23 20:13	11° 8 10'03		morning rise	7926 Apr 26 11:30	26° Y °24′27	
morning max el	7925 Jun 01 20:53	18° 8 02'32	27°07'22	direct	7926 May 02 16:58	23° Y '39'36	
	7925 Jun 11 21:37	0°II		desc. node	7926 May 10 17:12	27° Υ '04'06	
	7925 Jul 01 01:30	0°9			7926 May 14 02:24	0°8	
morning set	7925 Jul 07 11:02	11° © 52'28		morning max el	7926 May 15 06:55	1° 8 10'22	26°01'08
max. Earth dist.	7925 Jul 11 21:59	20°543'00	1.33714 AU	morning max or	7926 Jun 05 22:20	0°II	20 01 00
max. Earth dist.	7,25 341 11 21.57	20 3 15 00	1.55711710	morning set	7926 Jun 20 09:33	24°∏39'03	
superior conj	7925 Jul 15 20:27	28° © 52'20	-0°00'29	morning set	7926 Jun 23 05:53	0° ©	
minimum elong	7925 Jul 15 20:29			max. Earth dist.	7926 Jun 24 05:55		1.35346 AU
behind sun begin	7925 Jul 15 14:53	28° 9 32'30	0 00 30	max. Lartii dist.	7720 Juli 24 03.33	1 333 13	1.55540 AC
behind sun end	7925 Jul 16 02:05	28 3 23 04 29° 5 21'59		superior conj	7926 Jun 29 15:30	12° © 37'16	0°31'03
asc. node	7925 Jul 15 21:35	28° © 58'19		minimum elong	7926 Jun 29 17:19	12°546'26	
asc. node	7925 Jul 15 21.33	28 3 38 19		asc. node	7926 Jul 02 18:35	12 \$340 20 19°\$02'05	0 30 30
evening rise		0 δ ε 14° Ω 19'55				19 30 2 03 28° 9 43'27	
evening rise	7925 Jul 23 03:10 7925 Jul 31 00:55	0° m		evening rise	7926 Jul 07 10:57 7926 Jul 08 01:52		
		-•	21040125			0°Ω	20024107
evening max el	7925 Aug 12 15:04	17° Mp 48'56	21°48′35	evening max el	7926 Jul 25 17:03	28° Ω 37'21	20°24'06
desc. node	7925 Aug 19 19:20	22° m 53'59		. 1	7926 Jul 27 04:54	0° Mp	
retrograde	7925 Aug 25 04:05	24° Mp 02'22		retrograde	7926 Aug 05 16:22	4° Mp 02'23	
evening set	7925 Aug 27 22:23	23° m 45'14	4020125	desc. node	7926 Aug 06 16:24	3° m 59'50	
inferior conj	7925 Sep 06 02:42	19° m 45'22		evening set	7926 Aug 07 16:08	3° m 52'27	2001124
minimum elong	7925 Sep 05 17:44	19° m 57'56		inferior conj	7926 Aug 16 20:13	29° Ω 55'06	
min. Earth dist.	7925 Sep 05 18:33	19° Mp 56'47	0.54775 AU	minimum elong	7926 Aug 16 12:07	0° TD 06'53	2°58'41
morning rise	7925 Sep 14 14:19	15° m 55'57			7926 Aug 16 16:51	30°₽ Ω	
direct	7925 Sep 18 01:34	15° m 29′32		min. Earth dist.	7926 Aug 18 04:32	29° Ω 08'05	0.54866 AU
morning max el	7925 Sep 30 05:56	21°Mp 14'10	21°53'10	morning rise	7926 Aug 25 07:20	25° Ω 48'49	
	7925 Oct 07 14:46	0∘ ⊽		direct	7926 Aug 29 11:18	25° Ω 11'31	
asc. node	7925 Oct 11 21:06	6° ≏ 42'45			7926 Sep 09 22:34	0°Ту	
morning set	7925 Oct 21 06:07	24° Ω 48'54		morning max el	7926 Sep 11 20:45	1° Mp 41'21	23°37'24
	7925 Oct 23 17:03	0°M₊		asc. node	7926 Sep 28 18:06	25° m/38'39	
					7926 Oct 01 00:39	0∘ ⊽	
superior conj	7925 Oct 28 10:06		1°41'14	morning set	7926 Oct 05 17:40	9° ჲ 39'31	
minimum elong	7925 Oct 28 10:32	10°M01'30	1°41'20				
max. Earth dist.	7925 Nov 01 07:39	18°M02'40	1.34641 AU	superior conj	7926 Oct 12 16:18	24° £ 39'35	1°40'17
evening rise	7925 Nov 05 16:25	26°M40'04		minimum elong	7926 Oct 12 15:32	24° ≏ 35'27	1°40'19
	7925 Nov 07 10:32	0°⊀		max. Earth dist.	7926 Oct 15 05:17	0°M06'17	1.33242 AU
desc. node	7925 Nov 15 18:15	14° ∡ °43′20			7926 Oct 15 04:05	0° M	
	7925 Nov 25 15:09	0° ප		evening rise	7926 Oct 20 06:08	10°M30'28	

	7926 Oct 30 18:51	0° ∡ ¹		desc. node	7927 Oct 20 12:22	24°M16'31	
desc. node	7926 Nov 02 15:18	4° ∡ °43'57			7927 Oct 24 08:53	0° ∡ 7	
	7926 Nov 21 09:45	0°⋜		evening max el	7927 Nov 05 17:25	14° ∡ °48′23	27°26'03
evening max el	7926 Nov 23 07:42	1°る54'04	27°23'37	retrograde	7927 Nov 19 12:15	22°×703'37	
retrograde	7926 Dec 06 21:16	9° る 13'04		evening set	7927 Nov 26 15:04	19° ₹ 38'28	0.62417.411
evening set	7926 Dec 13 20:23	6° る 38'00	0.64250.411	min. Earth dist.	7927 Nov 30 07:12	16° ₹ 41'22	0.62417 AU
min. Earth dist.	7926 Dec 17 15:37	3° る 12'18	0.64259 AU	inferior conj	7927 Dec 03 04:37	13° x 58'14	
inferior conj minimum elong	7926 Dec 20 02:28 7926 Dec 20 05:55	0°る37'16 0°る28'08		minimum elong morning rise	7927 Dec 03 10:18 7927 Dec 10 07:35	13° х ⁴44'51 8° х ⁴51'58	2-39-19
minimum clong	7926 Dec 20 05:35 7926 Dec 20 16:38	0 02000 30°R.✓	1 30 31	direct	7927 Dec 10 07:33	8° × 28'21	
asc. node	7926 Dec 20 10:38 7926 Dec 25 17:29	25° ₹ 42'15		asc. node	7927 Dec 12 14:34 7927 Dec 12 14:30	8° × ⁷ 28'21	
morning rise	7926 Dec 26 17:02	25° × 13'14		morning max el	7927 Dec 12 14:30 7927 Dec 19 09:07	11° x 2521	17°48'55
direct	7926 Dec 29 05:00	24° x 1314		morning max er	7927 Dec 31 13:17	0°る	17 40 33
morning max el	7927 Jan 04 16:12	28°×704'23	17°52'14	morning set	7928 Jan 04 06:58	。37'02	
morning man or	7927 Jan 06 10:41	0°る	1, 021.	morning sev	/>20 van 01 00.00	0 057 02	
morning set	7927 Jan 21 15:28	23° る 44'25		superior conj	7928 Jan 15 15:25	26° පි 23'33	0°06'09
<i>5 5 1 1 1 1 1 1 1 1 1 1</i>	7927 Jan 25 08:33	0° ≈		minimum elong	7928 Jan 15 16:01	26° පි 26'04	0°06'11
desc. node	7927 Jan 29 14:31	7° ≈ 04'24		behind sun begin	7928 Jan 15 07:44	25° る 51'04	
				behind sun end	7928 Jan 16 00:18	27° る 00'59	
superior conj	7927 Feb 03 21:08	15° ≈ 40'53	-0°37'27	desc. node	7928 Jan 16 11:31	27° る 48'06	
minimum elong	7927 Feb 03 16:51	15° ≈ 23'37	0°36'44		7928 Jan 17 19:05	0° ≈	
max. Earth dist.	7927 Feb 08 22:12	23° ≈ 44'21	1.44891 AU	max. Earth dist.	7928 Jan 22 14:41	7° ≈ 53'59	1.43636 AU
	7927 Feb 12 21:47	0°) €		evening rise	7928 Jan 30 08:15	20° ≈ 08'21	
evening rise	7927 Feb 19 19:22	10°) 40′51			7928 Feb 05 19:03	0° ∀	
	7927 Mar 04 14:17	0 ° Υ			7928 Feb 27 08:07	0° Y	
evening max el	7927 Mar 19 04:51	19° Y 23'24	20°15'19	evening max el	7928 Mar 01 02:41	3° Y ′02'08	21°24'51
asc. node	7927 Mar 23 16:30	22° Y 59'44		retrograde	7928 Mar 09 23:14	8° Y 16'27	
retrograde	7927 Mar 27 01:01	23° Y 57'08		asc. node	7928 Mar 09 13:34	8° Y 15'37	
evening set	7927 Mar 30 22:19	22° Y 29'37		evening set	7928 Mar 14 06:24	6° Ƴ 33'47	
inferior conj	7927 Apr 05 06:23	16° Y °25′07	3°10'18	inferior conj	7928 Mar 19 13:49	0° Y 17'59	2°47'13
minimum elong	7927 Apr 05 04:48	16° Ƴ 30′29	3°10'03	minimum elong	7928 Mar 19 11:41	0° Υ 25'25	2°46'45
min. Earth dist.	7927 Apr 06 01:12	15° Y ′21′05	0.67630 AU		7928 Mar 19 18:59	30°₽)	
morning rise	7927 Apr 10 11:04	10° Y ′09'00		min. Earth dist.	7928 Mar 19 19:35	29°) € 57'54	0.68218 AU
direct	7927 Apr 16 04:09	7° Υ 36'07	2.402.010.0	morning rise	7928 Mar 24 16:47	24°) (04'51	
morning max el	7927 Apr 27 16:06	14° Y 29'07	24°38'09	direct	7928 Mar 29 20:00	21°) 50'26	22000120
desc. node	7927 Apr 27 14:10	14° ℃ 24'14		morning max el	7928 Apr 09 01:43	27° ¥ 55'07 0° Ƴ	23°08'30
	7927 May 10 07:45	0°B 0°B		desc. node	7928 Apr 11 01:01 7928 Apr 13 11:07	0 1 2°Υ46'52	
morning set	7927 May 29 19:16 7927 Jun 02 14:01	6° Д 31'33		desc. node	7928 May 02 23:50	0° 8	
max. Earth dist.	7927 Jun 06 05:00		1.37371 AU	morning set	7928 May 02 23:50 7928 May 13 18:54	17° 8 16'14	
max. Earth dist.	7727 Juli 00 03.00	13 10030	1.57571 AO	max. Earth dist.	7928 May 18 01:02	24° 8 30'06	1.39599 AU
superior conj	7927 Jun 12 23:45	25° Ⅱ 47'18	-1°02'42	max. Earth dist.	7928 May 21 04:19	0°П	1.57577110
minimum elong	7927 Jun 13 03:34	26° Ⅱ 05'51			7,520 May 21 0 1.15	· <u> </u>	
g	7927 Jun 15 03:24	0.2 20201	1 0211	superior conj	7928 May 25 17:17	8° Ⅱ 13'10	-1°32'47
asc. node	7927 Jun 19 15:36	8° © 58'39		minimum elong	7928 May 25 22:43	8° Ⅱ 38'17	
evening rise	7927 Jun 21 13:18	12° 5 647'11		evening rise	7928 Jun 04 07:16	26° Ⅲ 23'24	
-	7927 Jun 30 18:18	$0^{\circ}\Omega$		asc. node	7928 Jun 05 12:37	28° Ⅱ 43'59	
evening max el	7927 Jul 08 08:05	10° Ω 08'58	19°18'58		7928 Jun 06 04:34	0 \circ \odot	
retrograde	7927 Jul 17 14:41	14° Ω 43'40		evening max el	7928 Jun 20 10:06	22° 5 22'34	18°34'43
evening set	7927 Jul 19 11:49	14° Ω 33'10		retrograde	7928 Jun 28 06:56	26° © 17'09	
desc. node	7927 Jul 24 13:28	12° Ω 35′05		evening set	7928 Jun 30 09:31	26° © 01'14	
inferior conj	7927 Jul 28 01:45	10° Ω 24'22		inferior conj	7928 Jul 08 03:48	21° © 33'54	0°40'26
minimum elong	7927 Jul 27 22:53	10° Ω 29'05		minimum elong	7928 Jul 08 05:16	21° © 31'05	0°39'46
min. Earth dist.	7927 Jul 30 17:31	8° Ω 39'50	0.55886 AU	desc. node	7928 Jul 10 10:30	19° © 48'19	
morning rise	7927 Aug 05 07:12	5° Ω 44'30		min. Earth dist.	7928 Jul 11 11:26	19°501'40	0.57637 AU
direct	7927 Aug 10 06:48	4° Ω 47'55	25020125	morning rise	7928 Jul 15 21:31	16°517'01	
morning max el	7927 Aug 24 09:26	11° Ω 56'02	25~20.35	direct	7928 Jul 21 16:59	14°951'46	26045140
asc. node	7927 Sep 07 07:20	0°Mp 15°Mn00'50		morning max el	7928 Aug 05 02:05	22° © 28′00 0° Ω	26°45'40
morning set	7927 Sep 15 15:04 7927 Sep 20 05:14	15° Mp 00'50 24° Mp 27'52			7928 Aug 11 18:28 7928 Aug 30 04:02	0° m)	
morning set	7927 Sep 20 03:14 7927 Sep 22 18:48	0° ⊽		asc. node	7928 Aug 30 04:02 7928 Sep 01 12:03	0° 100 4° 100 42'16	
	7727 Sep 22 10.40	· –		morning set	7928 Sep 01 12:03 7928 Sep 03 15:12	9° m)09'11	
superior conj	7927 Sep 27 02:14	9° ჲ 28'29	1°33'22	morning set	,720 Sep 03 13.12	∞ γ γγ υσει1	
minimum elong	7927 Sep 27 02:14 7927 Sep 27 00:34	9° £ 19'20	1°33'14	superior conj	7928 Sep 10 13:54	24° m 19'46	1°21'02
max. Earth dist.	7927 Sep 28 10:11	12° Ω 23'46	1.32278 AU	minimum elong	7928 Sep 10 13:34 7928 Sep 10 11:44	24° m) 07'45	1°20'43
evening rise	7927 Oct 04 04:58	24° Ω 44'47	-	max. Earth dist.	7928 Sep 10 19:27	24° m 50'33	1.31766 AU
S	7927 Oct 06 19:06	0° M			7928 Sep 13 03:26	0∘ ⊽	-

Transcary Trient	omena or wereary	110111 7000 1	0 u gii 0102	(01), 1150 00101150	110 10 100 2020 1	1.22, pc	.84 177
evening rise	7928 Sep 17 10:12	9° £ 15'31		minimum elong	7929 Aug 25 23:17	8° m 55'25	1°03'19
C	7928 Sep 28 03:10	0°M		evening rise	7929 Sep 01 19:33	23° m 56'06	
desc. node	7928 Oct 06 09:27	13°ML09'33		C	7929 Sep 04 17:00	0∘ <u>⊽</u>	
evening max el	7928 Oct 17 21:45	27°ML00'21	26°55'13		7929 Sep 22 09:39	0° M	
C	7928 Oct 21 10:13	0° ∡ 7		desc. node	7929 Sep 23 06:32	1° M L07'33	
retrograde	7928 Oct 31 19:31	4° √ 10'15		evening max el	7929 Sep 29 18:44	8°M23'12	25°51'36
evening set	7928 Nov 07 17:42	2° ҂ 06'10		retrograde	7929 Oct 13 17:13	15°M27'00	
-	7928 Nov 10 19:33	30°RML		evening set	7929 Oct 19 23:27	13°M54'29	
min. Earth dist.	7928 Nov 11 12:06	29°M27'39	0.60369 AU	min. Earth dist.	7929 Oct 24 07:24	11° M L18'47	0.58296 AU
inferior conj	7928 Nov 14 16:20	26°M50'20	-4°08'38	inferior conj	7929 Oct 27 10:14	9° M .04'31	-5°04'07
minimum elong	7928 Nov 14 23:27	26°M35'35	4°06'30	minimum elong	7929 Oct 27 16:25	8°M53'23	5°02'59
morning rise	7928 Nov 22 07:35	22°MJ04'49		morning rise	7929 Nov 04 11:42	4° ጤ 41'29	
direct	7928 Nov 24 12:47	21°M45'54		direct	7929 Nov 06 19:30	4°ML24'07	
asc. node	7928 Nov 28 11:32	22°M48'54		morning max el	7929 Nov 15 05:10	8°M27'31	18°40'20
morning max el	7928 Dec 01 22:40	25°M26'41	18°04'26	asc. node	7929 Nov 15 08:33	8°M35'44	
Ü	7928 Dec 05 18:42	0° ∡ ¹			7929 Nov 29 03:16	0° ∡ ¹	
morning set	7928 Dec 17 14:57	20° ₹ 15'42		morning set	7929 Dec 01 10:21	4° ₹ ¹26'01	
	7928 Dec 22 20:49	0°ਰ			1,2,2,2,0		
	7,20 200 22 20.15	Ů U		superior conj	7929 Dec 10 03:11	21° х 12'13	1°10'19
superior conj	7928 Dec 27 10:53	8°₹18'08	0°42'48	minimum elong	7929 Dec 10 06:35	21° х 28'12	
minimum elong	7928 Dec 27 13:57	8° පි 31'49	0°42'29		7929 Dec 14 22:02	0°ප	
desc. node	7929 Jan 02 08:32	18° 云 33'44	0 .22,	max. Earth dist.	7929 Dec 17 09:18		1.39776 AU
max. Earth dist.	7929 Jan 04 02:10	21° る 29'03	1.41860 AU	desc. node	7929 Dec 20 05:35	9° る 17'56	1.57770710
evening rise	7929 Jan 09 11:01	0°≈16'38	1.41000710	evening rise	7929 Dec 21 11:05	11° る 22'51	
evening rise	7929 Jan 09 06:52	0°≈		evening rise	7930 Jan 02 03:31	0°≈	
	7929 Jan 29 07:42	0° ∺			7930 Jan 24 23:04	0° ∺	
evening max el	7929 Feb 11 19:48	0 X 16° ¥ 42'51	22042122	evening max el	7930 Jan 24 23:04 7930 Jan 25 10:04	0° ∺ 27'38	24002120
•	7929 Feb 11 19:48 7929 Feb 21 19:29	22°\(\frac{42}{38}\)'20	22 42 32	•	7930 Feb 05 12:26	6° ¥ 58'57	24 02 36
retrograde		22°\(\frac{1}{22}\)°\(\		retrograde		4° ¥ 47'09	
asc. node	7929 Feb 24 10:39			evening set	7930 Feb 10 19:02		
evening set	7929 Feb 26 13:48	20°\(\frac{1}{40}\)'46	201.4152	asc. node	7930 Feb 11 07:43	4° ¥ 18'53	
inferior conj	7929 Mar 03 22:26	14° ¥ 16'56	2°14'52	: E 4 E 4	7930 Feb 15 00:33	30°R≈	0.60154.411
minimum elong	7929 Mar 03 20:10	14°) 24'48	2°14'14	min. Earth dist.	7930 Feb 15 12:41	29°≈19'16	
min. Earth dist.	7929 Mar 03 16:11	14°) 38′38	0.68386 AU	inferior conj	7930 Feb 16 06:24	28°≈19'15	
morning rise	7929 Mar 09 02:25	8° ₩ 08'10		minimum elong	7930 Feb 16 04:28	28°≈25'48	1°33'26
direct	7929 Mar 13 15:34	6° ₩ 15'31		morning rise	7930 Feb 21 13:56	22°≈16'29	
morning max el	7929 Mar 22 14:52		21°41'27	direct	7930 Feb 25 13:41	20°≈46'06	
desc. node	7929 Mar 31 08:05	21° ¥ 54′20		morning max el	7930 Mar 05 10:47	25°≈14'39	20°24'07
	7929 Apr 06 04:30	0° Υ			7930 Mar 09 16:10	0° ∀	
morning set	7929 Apr 23 20:06	26° Y 43'19		desc. node	7930 Mar 18 05:05	11° X 34'34	
	7929 Apr 25 21:09	0° 8			7930 Mar 30 13:43	0° Υ	
max. Earth dist.	7929 Apr 30 00:38	6° 8 46'45	1.41771 AU	morning set	7930 Apr 02 22:19	5° Y 10′07	
				max. Earth dist.	7930 Apr 12 07:47	19° Ƴ 58'43	1.43612 AU
superior conj	7929 May 07 15:25	19° 8 43'57			7930 Apr 18 11:12	$_{0\circ}$ 8	
minimum elong	7929 May 07 20:49	20° 8 07'30	1°57'00				
	7929 May 13 09:57	Π $\circ 0$		superior conj	7930 Apr 18 13:55	0° 8 11'14	-2°10'43
evening rise	7929 May 18 13:03	9° Ⅲ 22'05		minimum elong	7930 Apr 18 15:49	0° 8 19'08	2°10'45
asc. node	7929 May 23 09:40	18° Ⅱ 12'46		evening rise	7930 May 01 02:12	21° 8 33'31	
	7929 May 30 13:50	0ං ම			7930 May 05 22:28	$\Pi^{\circ}0$	
evening max el	7929 Jun 03 19:23	5° © 09'13	18°10'47	asc. node	7930 May 10 06:43	7° Ⅱ 19'00	
retrograde	7929 Jun 10 17:33	8° © 39'02		evening max el	7930 May 18 08:11	18° Ⅱ 18'59	18°06'11
evening set	7929 Jun 13 03:44	8°913'54		retrograde	7930 May 24 19:05	21° Ⅱ 39'45	
inferior conj	7929 Jun 20 03:16	3°526'16	1°58'24	evening set	7930 May 27 12:40	21° II 02'53	
minimum elong	7929 Jun 20 06:20	3°519'23	1°57'23	inferior conj	7930 Jun 02 21:01	15° Ⅱ 55'25	2°48'42
min. Earth dist.	7929 Jun 23 11:50	0°926'45	0.59797 AU	minimum elong	7930 Jun 02 23:41	15° Ⅱ 48'31	2°48'01
	7929 Jun 24 00:37	30° Ŗ Ⅱ		min. Earth dist.	7930 Jun 05 20:20	12° Ⅱ 53'09	0.62038 AU
morning rise	7929 Jun 27 06:00	27° Ⅱ 40′26		morning rise	7930 Jun 09 08:49	9° Ⅱ 51'16	
desc. node	7929 Jun 27 07:31	27° Ⅱ 38′09		desc. node	7930 Jun 14 04:34	7° Ⅱ 37'54	
direct	7929 Jul 03 16:39	25° Ⅱ 42'59		direct	7930 Jun 16 02:50	7° Ⅱ 26′23	
	7929 Jul 13 23:09	0ංම		morning max el	7930 Jun 30 06:18	15° Ⅱ 27'46	27°55'18
morning max el	7929 Jul 18 01:11	3° © 36'36	27°39'20	-	7930 Jul 12 02:48	0°©	
Č	7929 Aug 06 10:12	$0^{\circ}\Omega$			7930 Jul 30 00:41	0°N	
morning set	7929 Aug 18 21:51	23° £ 38′29		morning set	7930 Aug 02 23:08	7° Ω 48'47	
asc. node	7929 Aug 19 09:03	24° Ω 37'09		asc. node	7930 Aug 06 06:02	14° Ω 39'35	
•	7929 Aug 21 21:37	0° m)		max. Earth dist.	7930 Aug 08 12:52	19° Ω 33'31	1.32112 AU
max. Earth dist.	7929 Aug 25 05:39	-	1.31708 AU		<u></u>		
	<u> </u>			superior conj	7930 Aug 10 11:08	23° Ω 45′21	0°41'54
superior conj	7929 Aug 26 01:30	9° m 07'42	1°03'45	minimum elong	7930 Aug 10 09:22	23° Ω 35'41	0°41'29
1		4 · · · =	-				-

	7930 Aug 13 07:24	0° m)		minimum elong	7931 Jul 25 16:08	8°Ω03'04	0°15'45
evening rise	7930 Aug 17 06:54	8° m 39'07		behind sun begin	7931 Jul 25 15:10	7° Ω 57'57	0 10 10
	7930 Aug 28 05:58	0∘ ⊽		behind sun end	7931 Jul 25 17:05	8° Ω 08'11	
desc. node	7930 Sep 10 03:37	17° ≏ 47'55		evening rise	7931 Aug 01 18:26	23° Ω 18′59	
evening max el	7930 Sep 11 08:26	18° ≏ 59'42	24°22'46	Č	7931 Aug 04 23:25	0° m)	
retrograde	7930 Sep 25 02:56	25° £ 54'28		evening max el	7931 Aug 23 20:10	29° m 12'59	22°43'36
evening set	7930 Sep 30 04:29	24° £ 57'44		C	7931 Aug 24 16:01	0∘ ⊽	
min. Earth dist.	7930 Oct 05 19:22	22° ≏ 06'33	0.56457 AU	desc. node	7931 Aug 28 00:39	2° ≏ 41'46	
inferior conj	7930 Oct 08 07:52	20° ≙ 31'45	-5°32'27	retrograde	7931 Sep 06 00:17	5° £ 47'30	
minimum elong	7930 Oct 08 09:04	20° £ 29'52	5°32'23	evening set	7931 Sep 09 13:27	5° £ 19'53	
morning rise	7930 Oct 16 15:49	16° ≏ 30'06		min. Earth dist.	7931 Sep 17 03:51	1° ≏ 56'28	0.55160 AU
direct	7930 Oct 19 07:23	16° ≙ 11′21		inferior conj	7931 Sep 18 10:45	1° ≏ 12'25	-5°14'49
morning max el	7930 Oct 29 01:02	20° ≏ 46'55	19°38'18	minimum elong	7931 Sep 18 04:34	1° ≏ 21'15	5°13'58
asc. node	7930 Nov 02 05:35	25° ≏ 33'13			7931 Sep 20 14:25	30°R Mp	
	7930 Nov 05 07:10	0°M		morning rise	7931 Sep 26 21:41	27° m 23'53	
morning set	7930 Nov 15 13:25	18°M56'26		direct	7931 Sep 30 00:58	27° Mp 01'14	
	7930 Nov 21 00:46	0°⊀			7931 Oct 08 12:37	0∘ ⊽	
		_		morning max el	7931 Oct 11 08:06	2° Ω 18'19	20°58'30
superior conj	7930 Nov 23 11:07	4° ₹ 50'30	1°28'41	asc. node	7931 Oct 20 02:35	13° Ω 26'23	
minimum elong	7930 Nov 23 13:40	5° ∡ 03'01	1°28'35		7931 Oct 29 02:38	0°M	
max. Earth dist.	7930 Nov 29 15:06	16° ₹ 39'13	1.37623 AU	morning set	7931 Oct 30 21:23	3°M39'17	
evening rise	7930 Dec 03 08:44	23° x 25'48			7021 N 07 07 20	10000 00146	1020147
desc. node	7930 Dec 07 02:37	29° ⋠ 56'13		superior conj	7931 Nov 07 06:20	19°M00'46	1°38'47
	7930 Dec 07 03:30	0°る 0°≈		minimum elong	7931 Nov 07 07:33 7931 Nov 12 00:16	19°M07'04	1°38'50
	7930 Dec 26 21:54		25010121	max. Earth dist.		28°M34'30 0°⊀	1.35635 AU
evening max el	7931 Jan 07 23:17 7931 Jan 20 01:01	14°≈14'57 21°≈12'59	25°18'31	ovenina riae	7931 Nov 12 17:45 7931 Nov 16 00:58	6° х ¹ 6° х ¹18'04	
retrograde evening set	7931 Jan 25 20:30	21 ≈1239 18°≈48'41		evening rise desc. node	7931 Nov 16 00.38 7931 Nov 23 23:38	20°×1804	
asc. node	7931 Jan 29 04:47	15°≈17'08		desc. Hode	7931 Nov 29 22:01	20 メ ・24 17 0° る	
min. Earth dist.	7931 Jan 29 04:47	13°≈55'29	0.67531 AU	evening max el	7931 Nov 29 22:01 7931 Dec 21 12:21	0 3 27° る 59'51	26°22'56
inferior conj	7931 Jan 30 00:43	13 ≈33 29 12°≈21'19	0°45'17	evening max er	7931 Dec 21 12:21 7931 Dec 23 16:44	27 ⊙ 3931 0° ≈	20 22 30
minimum elong	7931 Jan 31 10:45	12°≈24'51	0°44'56	retrograde	7931 Dec 23 10:44 7932 Jan 03 08:28	5°≈14'06	
morning rise	7931 Feb 06 01:19	6°≈26'25	0 44 30	evening set	7932 Jan 09 16:25	2°≈40'38	
direct	7931 Feb 09 12:48	5°≈16'50		evening sec	7932 Jan 12 10:19	30°Rる	
morning max el	7931 Feb 16 14:44	9°≈11'58	19°20'45	min. Earth dist.	7932 Jan 13 20:07	28° පි 22'16	0.66534 AU
greatest brilliancy	7931 Mar 01 15:05	26°≈25'52	-0.7m	inferior conj	7932 Jan 15 12:46	26° ප 18'57	
,	7931 Mar 04 00:03	0° ∀		minimum elong	7932 Jan 15 13:03	26° ප 18'03	0°10'45
desc. node	7931 Mar 05 02:04	1° ¥ 38'38		transit middle	7932 Jan 15 13:03	26° ප 18'03	0°10'45
morning set	7931 Mar 12 21:28	13°) 37′14		transit begin	7932 Jan 15 10:54	26° る 24'35	
	7931 Mar 23 10:11	$0^{\circ}\Upsilon$		transit end	7932 Jan 15 15:12	26° る 11'32	
max. Earth dist.	7931 Mar 25 22:08	3° Y 55'52	1.44890 AU	asc. node	7932 Jan 16 01:52	25° る 39'18	
				morning rise	7932 Jan 21 10:28	20° る 34'04	
superior conj	7931 Mar 29 12:06	9° Ƴ 36'31	-2°06'55	direct	7932 Jan 24 11:12	19° ප් 42'16	
minimum elong	7931 Mar 29 07:13	9° Ƴ 17'06	2°06'46	morning max el	7932 Jan 31 01:42	23° る 16'33	18°33'11
	7931 Apr 11 01:21	$0^{\circ}S$			7932 Feb 05 14:39	0° ≈	
evening rise	7931 Apr 12 18:19	2° 8 49'51		desc. node	7932 Feb 19 23:01	21° ≈ 59′25	
asc. node	7931 Apr 27 03:46	25° 8 55'42		morning set	7932 Feb 20 16:34	23° ≈ 08'50	
	7931 Apr 30 07:04	Π° 0			7932 Feb 25 00:42	0° ∀	
evening max el	7931 May 01 21:19	1° Ⅱ 43'52	18°20'10				
retrograde	7931 May 08 07:04	5° Ⅱ 10'03		superior conj	7932 Mar 07 18:12	18°) € 24′24	
evening set	7931 May 11 07:45	4° Ⅱ 19'59		minimum elong	7932 Mar 07 08:41	17°) (47'09	
	7931 May 16 05:51	30°R 8	2015142	max. Earth dist.	7932 Mar 07 16:36		1.45470 AU
inferior conj	7931 May 17 04:58	28° 8 54'16			7932 Mar 15 03:33	0°Υ 12° W 00107	
minimum elong	7931 May 17 06:24	28° 8 50'07	3°15'26	evening rise	7932 Mar 23 10:52	13° Υ '08'07 27° Υ '03'37	0.0
min. Earth dist.	7931 May 19 14:10	26° 8 10'26 22° 8 40'25	0.64095 AU	greatest brilliancy	7932 Apr 01 05:32	2/° ¥ 03′37 0° と	-0.8m
morning rise direct	7931 May 23 04:01 7931 May 29 21:35	19° 8 58'23		asc. node	7932 Apr 03 02:46 7932 Apr 13 00:50	13° 8 52'54	
desc. node	7931 May 29 21.33 7931 Jun 01 01:35	20° 8 13'25		evening max el	7932 Apr 14 08:02	15° 8 16'37	18°52'07
morning max el	7931 Jun 12 15:32	20 8 13 23 27° 8 58'16	27°34'14	retrograde	7932 Apr 14 08:02 7932 Apr 21 01:29	19° 8 01'02	10 3201
morning max or	7931 Jun 12 13:58	0°II	2, 5717	evening set	7932 Apr 24 09:27	17° 8 56'59	
	7931 Jul 14 13:38 7931 Jul 05 21:11	0°©		inferior conj	7932 Apr 29 23:14	17 8 30 39	3°24'28
morning set	7931 Jul 17 16:38	21°933'41		minimum elong	7932 Apr 29 23:14	12° 8 14'31	3°24'23
	7931 Jul 21 20:35	0°Ω		min. Earth dist.	7932 May 01 17:03	10° 8 04'00	0.65805 AU
max. Earth dist.	7931 Jul 22 13:21	1° Ω 27'20	1.32993 AU	morning rise	7932 May 05 12:37	5° 8 57'12	
asc. node	7931 Jul 24 03:02	4° Ω 45'32		direct	7932 May 11 23:40	3° 8 10'05	
				desc. node	7932 May 17 22:35	5° 8 03'50	
superior conj	7931 Jul 25 16:55	8° Ω 07'15	0°16'01	morning max el	7932 May 25 02:05	10° 8 56'26	26°41'55
				-	•		

	7932 Jun 09 04:50	0° I I		desc. node	7933 May 04 19:35	21° Y 37'37	
	7932 Jun 27 10:21	0°©		morning max el	7933 May 07 11:49	24° Υ 09'57	25°27'08
morning set	7932 Jun 29 23:12	4°5944'16		morning mun er	7933 May 12 17:12	0°8	20 27 00
max. Earth dist.	7932 Jul 04 03:41	12° © 52'47	1.34354 AU		7933 Jun 02 14:48	0°II	
				morning set	7933 Jun 12 14:41	17° Ⅱ 09'24	
superior conj	7932 Jul 08 16:35	22° © 06'56	-0°13'13	max. Earth dist.	7933 Jun 16 07:00	23° I 57'07	1.36166 AU
minimum elong	7932 Jul 08 17:19	22°510'44	0°13'11		7933 Jun 19 10:52	0 \circ \odot	
behind sun begin	7932 Jul 08 14:00	21°553'28					
behind sun end	7932 Jul 08 20:39	22°528'01		superior conj	7933 Jun 22 07:26	5° 5 37'33	-0°44'30
asc. node	7932 Jul 10 00:02	24°950'43		minimum elong	7933 Jun 22 10:06	5° © 50'48	0°44'08
	7932 Jul 12 10:52	$0^{\circ}\Omega$		asc. node	7933 Jun 26 21:02	14° © 51'30	
evening rise	7932 Jul 16 04:09	7° Ω 49'34		evening rise	7933 Jun 30 09:55	22° © 04'55	
	7932 Jul 28 00:50	0° m			7933 Jul 04 09:10	0 $^{\circ}$ Ω	
evening max el	7932 Aug 04 14:56	9° ™ 39'26	21°10'28	evening max el	7933 Jul 17 22:33	20° Ω 45'29	19°53'52
desc. node	7932 Aug 13 21:42	15° m 17'01		retrograde	7933 Jul 28 04:26	25° Ω 48′21	
retrograde	7932 Aug 16 13:26	15° Mp 34′17		evening set	7933 Jul 30 01:19	25° Ω 39'00	
evening set	7932 Aug 18 21:23	15° TD 21'35		desc. node	7933 Jul 31 18:46	25° Ω 14'44	
inferior conj	7932 Aug 28 03:34	11°Mp24'11		inferior conj	7933 Aug 08 00:40	21° Ω 38'31	
minimum elong	7932 Aug 27 18:06	11° Mp 37'32	3°59'45	minimum elong	7933 Aug 07 18:37	21° Ω 47'44	
min. Earth dist.	7932 Aug 28 12:51	11°Mp11'08	0.54689 AU	min. Earth dist.	7933 Aug 10 00:17	20° Ω 26'07	0.55189 AU
morning rise	7932 Sep 05 15:23	7° Mp 30'11		morning rise	7933 Aug 16 10:04	17° Ω 18'52	
direct	7932 Sep 09 09:02	7° Mp 00'10	22027140	direct	7933 Aug 20 22:05	16° Ω 34'23	2.4022122
morning max el	7932 Sep 22 03:34	13° Mp 04'37	22°36'48	morning max el	7933 Sep 03 16:36	23° Ω 22'37	24°22'32
1-	7932 Oct 04 19:37	0∘ ⊽		1-	7933 Sep 09 15:45	0° Mp	
asc. node	7932 Oct 05 23:35	2° £ 02'11		asc. node	7933 Sep 22 20:33	21°№09'47 0° <u>മ</u>	
morning set	7932 Oct 14 08:09	18° £ 28'26		marning sat	7933 Sep 27 06:16		
	7932 Oct 19 17:31	0° M		morning set	7933 Sep 28 19:52	3° ≏ 18′03	
superior conj	7932 Oct 21 09:21	3°M32'47	1°41'37	superior conj	7933 Oct 05 17:23	18° ≏ 17'23	1°38'03
minimum elong	7932 Oct 21 09:21 7932 Oct 21 09:15	3°M32'16	1°41'41	minimum elong	7933 Oct 05 17:23 7933 Oct 05 16:12	18° ⊆ 17'23	1°38'01
max. Earth dist.	7932 Oct 21 09:13	10°M29'38	1.33984 AU	max. Earth dist.	7933 Oct 03 10:12 7933 Oct 07 17:23	22° £ 37'35	1.32767 AU
evening rise	7932 Oct 24 10:41 7932 Oct 29 07:54	19°M50'06	1.55764 AC	max. Larm dist.	7933 Oct 11 04:50	0°M	1.32707 AC
evening rise	7932 Nov 03 17:22	0° ⊼ ¹		evening rise	7933 Oct 11 04:50	3°M51'27	
desc. node	7932 Nov 09 20:38	10° ∡ 36'51		evening rise	7933 Oct 27 11:05	0° √	
dese. node	7932 Nov 22 22:42	0°ਰ		desc. node	7933 Oct 27 17:41	0° ⊀ ¹26'20	
evening max el	7932 Dec 03 01:17	11° る 34'46	27°08'38	evening max el	7933 Nov 15 12:56	24° ₹ '47'54	27°28'40
retrograde	7932 Dec 16 10:17	18° る 55'13		S	7933 Nov 22 06:48	ರ°0	
evening set	7932 Dec 23 04:46	16° る 18'23		retrograde	7933 Nov 29 05:36	2° る 06'21	
min. Earth dist.	7932 Dec 27 02:41	12° る 34'06	0.65180 AU	C	7933 Dec 05 15:53	30°₽ ⋌ ¹	
inferior conj	7932 Dec 29 07:01	10° る 08'02	-1°13'51	evening set	7933 Dec 06 06:51	29° ∡ ³34'21	
minimum elong	7932 Dec 29 09:12	10° る 01'55	1°12'47	min. Earth dist.	7933 Dec 10 00:21	26° ₹ '21'26	0.63499 AU
asc. node	7933 Jan 01 22:55	6° る 23'34		inferior conj	7933 Dec 12 15:55	23° ∡ ¹41'24	-2°21'35
morning rise	7933 Jan 04 14:58	4° る 35'40		minimum elong	7933 Dec 12 20:20	23° х 30′14	2°19'42
direct	7933 Jan 07 06:51	3° る 57'54		morning rise	7933 Dec 19 11:40	18° ≯ 24'25	
morning max el	7933 Jan 13 17:21	7° る 22'21	18°02'16	asc. node	7933 Dec 19 19:58	18° ≯ 17'03	
	7933 Jan 29 04:45	0°≈		direct	7933 Dec 21 21:04	17° ∡ 56'42	
morning set	7933 Jan 31 17:15	4° ≈ 09'18		morning max el	7933 Dec 28 10:39	21° ∡ 20'47	17°48'36
desc. node	7933 Feb 05 19:59	12° ≈ 32′24			7934 Jan 04 01:21	0° ろ	
				morning set	7934 Jan 13 20:29	16° පි 26'47	
superior conj	7933 Feb 15 02:35	27°≈26'15			7934 Jan 21 18:49	0° ≈	
minimum elong	7933 Feb 14 19:13	26°≈57'07	1°02'21	desc. node	7934 Jan 23 16:56	3°≈12'53	
T al T	7933 Feb 16 17:29	0°) {	1 45210 ATT		70241 26 06 00	7005146	0010127
max. Earth dist.	7933 Feb 18 12:00	2°) (41/07	1.45310 AU	superior conj	7934 Jan 26 06:08	7°≈25'46	
evening rise	7933 Mar 03 07:03 7933 Mar 08 01:00	22° 米 41′07 0° ⋎		minimum elong max. Earth dist.	7934 Jan 26 04:08 7934 Feb 01 06:06	7°≈17'37 17°≈08'00	0°18′02 1.44434 AU
grantagt brilliangy	7933 Mar 16 20:45	13° Υ 23'13	-0.7m	max. Earth dist.	7934 Feb 01 06:06 7934 Feb 09 11:05	0°)	1.44434 AU
greatest brilliancy evening max el	7933 Mar 28 14:28	28° Υ 53'16	-0.7m 19°40'42	evening rise	7934 Feb 10 18:06	0 X 1° ¥ 59'25	
Svennig max of	7933 Mar 29 18:08	0° 8	17 70 72	evening rise	7934 Nar 01 15:21	1 χ(3923 0° Υ	
asc. node	7933 Mar 30 21:54	0° 8 58'50		evening max el	7934 Mar 11 15:34	12° Υ 31'39	20°43'39
retrograde	7933 Apr 04 23:09	3° 8 06'42		asc. node	7934 Mar 17 18:59	16° Υ 59'10	_0 100)
evening set	7933 Apr 04 25:05 7933 Apr 08 15:12	1° 8 48'02		retrograde	7934 Mar 19 21:38	17° Υ 22'02	
	7933 Apr 10 15:40	30°RY		evening set	7934 Mar 23 22:56	15° Υ 48'16	
inferior conj	7933 Apr 14 00:37	25° Υ 51'12	3°18'54	inferior conj	7934 Mar 29 06:30	9° Υ 38'51	3°01'42
minimum elong	7933 Apr 13 23:33	25° Y 54'45	3°18'45	minimum elong	7934 Mar 29 04:38	9° Y 45'16	3°01'21
min. Earth dist.	7933 Apr 15 03:36	24° Y 21'32		min. Earth dist.	7934 Mar 29 19:44	8° Y ′53′20	
morning rise	7933 Apr 19 07:35	19° Ƴ 33'42		morning rise	7934 Apr 03 10:07	3° Y ′23'46	
direct	7933 Apr 25 08:00	16° Ƴ 52'46		direct	7934 Apr 08 21:30	0° Ƴ 57'49	

morning max el	7934 Apr 19 20:43	7° Υ 31'09	24°00'05	direct	7935 Mar 23 15:05	15°) 17'37	
desc. node	7934 Apr 19 20.43 7934 Apr 21 16:34	9° Υ 26'39	24 00 03	morning max el	7935 Apr 02 07:19	20°) 59'35	22030138
desc. node	7934 May 07 09:40	0° 8		desc. node	7935 Apr 02 07:19 7935 Apr 08 13:33	28° H 09'54	22 30 30
morning set	7934 May 25 09:50	28° 8 34'56		dese. Hode	7935 Apr 10 00:05	0°Υ	
morning sec	7934 May 26 05:32	0° I			7935 Apr 30 15:48	0°8	
max. Earth dist.	7934 May 29 03:34		1.38309 AU	morning set	7935 May 06 03:07	8° 8 46'20	
man. Darur alov.	7,55 (1.114) 25 (5.5)	2 20,33	1.50507110	max. Earth dist.	7935 May 11 00:51	16° 8 56'28	1.40554 AU
superior conj	7934 Jun 05 10:01	18° Ⅱ 30′32	-1°15'52		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0	
minimum elong	7934 Jun 05 14:38	18° ∏ 52′28		superior conj	7935 May 18 19:56	0° ∏ 34'26	-1°44'10
Č	7934 Jun 11 08:21	0°©		minimum elong	7935 May 19 01:40	1° Ⅱ 00'16	1°43'40
asc. node	7934 Jun 13 18:03	4°9543'54		Ü	7935 May 18 12:16	$\Pi^{\circ}0$	
evening rise	7934 Jun 14 09:08	5°ഇ58'01		evening rise	7935 May 28 22:26	19° ∏ 19'29	
•	7934 Jun 28 10:20	$0^{\circ}\Omega$		asc. node	7935 May 31 15:05	24° Ⅲ 22'42	
evening max el	7934 Jun 30 18:51	2° Ω 36'43	18°57'40		7935 Jun 03 16:46	0 \circ \mathfrak{S}	
retrograde	7934 Jul 09 09:34	6° Ω 52'07		evening max el	7935 Jun 14 00:26	15° © 05'21	18°22'04
evening set	7934 Jul 11 08:41	6° Ω 39'44		retrograde	7935 Jun 21 10:02	18° 5 347'24	
desc. node	7934 Jul 18 15:51	3° Ω 03'09		evening set	7935 Jun 23 15:55	18° © 27'50	
inferior conj	7934 Jul 19 14:28	2° Ω 23'48	-0°17'09	inferior conj	7935 Jul 01 01:50	13° © 51'31	1°17'06
minimum elong	7934 Jul 19 13:45	2° Ω 25′04	0°16'59	minimum elong	7935 Jul 01 04:17	13° © 46'27	1°16'07
min. Earth dist.	7934 Jul 22 15:10	0° Ω 17'03	0.56562 AU	min. Earth dist.	7935 Jul 04 11:18	11° © 05'08	0.58531 AU
	7934 Jul 23 01:23	30° ₹		desc. node	7935 Jul 05 12:55	10° © 16'41	
morning rise	7934 Jul 27 15:34	27° © 28'03		morning rise	7935 Jul 08 13:24	8° © 21'18	
direct	7934 Aug 02 00:14	26° © 19'57		direct	7935 Jul 14 16:09	6° © 42'36	
	7934 Aug 11 20:52	$0^{\circ}\Omega$		morning max el	7935 Jul 29 01:27	14° © 26'26	27°12'56
morning max el	7934 Aug 16 06:14	3° Ω 41'07	25°59'53		7935 Aug 10 13:11	$0^{\circ}\Omega$	
	7934 Sep 04 03:08	O° Mp			7935 Aug 27 09:01	O° Mp	
asc. node	7934 Sep 09 17:32	10° Mp 41'02		asc. node	7935 Aug 27 14:31	0°Mp28'31	
morning set	7934 Sep 13 06:57	18°M 03'56		morning set	7935 Aug 28 15:43	2° ™ 40′23	
	7934 Sep 18 18:18	0∘ ত					
				superior conj	7935 Sep 04 16:08	17° m 58'00	1°14'16
superior conj	7934 Sep 20 04:19	3° ჲ 08'03	1°28'45	minimum elong	7935 Sep 04 13:53	17° m 45'31	1°13'54
minimum elong	7934 Sep 20 02:23	2° £ 57'23	1°28'33	max. Earth dist.	7935 Sep 04 10:57	17° m) 29'12	1.31693 AU
max. Earth dist.	7934 Sep 21 00:39	5° ഫ 00'21	1.32007 AU		7935 Sep 10 03:24	0∘ ⊽	
evening rise	7934 Sep 27 03:46	18° ≏ 14'00		evening rise	7935 Sep 11 11:01	2° ≏ 49'21	
	7934 Oct 03 01:05	0°M₊			7935 Sep 25 22:50	0°M₊	
desc. node	7934 Oct 14 14:45	19°M43'28		desc. node	7935 Oct 01 11:51	8°M14'53	
	7934 Oct 22 02:08	0° ∡ ¹		evening max el	7935 Oct 10 22:23	19° ™ 17'12	26°31'50
evening max el	7934 Oct 28 20:57	7° ∡ ¹26′13	27°17'13	retrograde	7935 Oct 24 20:17	26° ™ 23'51	
retrograde	7934 Nov 11 17:16	14° ₹ 38'32		evening set	7935 Oct 31 13:29	24°M32'05	
evening set	7934 Nov 18 19:13	12° ₹ 21'21		min. Earth dist.	7935 Nov 04 11:55	21°M57'09	0.59481 AU
min. Earth dist.	7934 Nov 22 11:35	9° 🖈 33'25	0.61562 AU	inferior conj	7935 Nov 07 16:52	19°M27'41	
inferior conj	7934 Nov 25 12:22	6° ₹ 51'10		minimum elong	7935 Nov 07 24:00	19°M13'46	4°32'34
minimum elong	7934 Nov 25 18:50	6° ₹ 36'43	3°28'24	morning rise	7935 Nov 15 12:49	14°M51'37	
morning rise direct	7934 Dec 02 20:38	1° х 52′59 1° х 31′42		direct asc. node	7935 Nov 17 18:44	14°M33'35	
	7934 Dec 05 02:26				7935 Nov 23 14:01	16°M41'19	18°17'10
asc. node morning max el	7934 Dec 06 17:00	1° х 43′01 5° х 03′47	17952106	morning max el	7935 Nov 25 13:24 7935 Dec 03 23:17	18°M22'27 0°⊀	18-1/10
morning set	7934 Dec 12 02:28 7934 Dec 27 19:42	3 x · 03 4 / 29° x 140′57	1/ 33 00	morning set	7935 Dec 03 23.17 7935 Dec 11 09:03	0 x . 13° x 34'19	
morning set	7934 Dec 27 19.42 7934 Dec 27 23:54	29 メ ・4037		morning set	7935 Dec 11 09:03 7935 Dec 20 03:02	0°る	
	1757 DW 21 25.54	υ Ο			7755 DCC 20 05.02	υ Ο	
superior conj	7935 Jan 07 11:23	18° る 39'17	0°22'44	superior conj	7935 Dec 20 16:20	1°る00'44	0°55'37
minimum elong	7935 Jan 07 11:23	18° る 47'46	0°22'34	minimum elong	7935 Dec 20 10:20 7935 Dec 20 19:45	1°る0044	
desc. node	7935 Jan 10 13:56	23° る 57'23	0 22 54	desc. node	7935 Dec 28 10:57	14°る42'32	0 33 17
acco. noac	7935 Jan 14 04:58	0°≈		max. Earth dist.	7935 Dec 28 06:46	14° る 24'44	1.40995 AU
max. Earth dist.	7935 Jan 14 20:52	1°≈05'15	1.42940 AU	evening rise	7936 Jan 01 22:52	22°る12'36	1.10775710
evening rise	7935 Jan 21 11:31	11° ≈ 41'06	1.12) 10 110	evening rise	7936 Jan 06 19:28	0°≈	
e vennig 1150	7935 Feb 02 13:08	0° ∀			7936 Jan 27 14:59	0° ∀	
evening max el	7935 Feb 22 11:21	26° ∺ 11'27	21°57'16	evening max el	7936 Feb 05 03:00	9°) 53'44	23°16'41
	7935 Feb 26 22:51	0°Υ	- / - +	retrograde	7936 Feb 15 14:04	16° ∺ 05'13	- *
retrograde	7935 New 26 22:31 7935 Mar 03 19:04	1° Υ 42'52		asc. node	7936 Feb 19 13:09	14°) (47'32	
asc. node	7935 Mar 04 16:04	1° Υ 38'57		evening set	7936 Feb 20 13:37	14°) (47'32	
evening set	7935 Mar 08 06:55	29°) 53'46		inferior conj	7936 Feb 25 23:14	7° ¥ 35'05	1°58'36
<i>3</i>	7935 Mar 08 03:50	30° R €		minimum elong	7936 Feb 25 21:03	7°) 42'36	1°57'56
inferior conj	7935 Mar 13 14:40	23°) 34′21	2°34'35	min. Earth dist.	7936 Feb 25 11:58	8°) €13'51	0.68334 AU
minimum elong	7935 Mar 13 12:26	23°) (42'10	2°34'01	morning rise	7936 Mar 02 04:26	1°) €28'57	
min. Earth dist.	7935 Mar 13 15:14	23°) 32′23	0.68347 AU	-	7936 Mar 04 21:05	30° R ≈	
morning rise	7935 Mar 18 17:46	17°) €23'07		direct	7936 Mar 06 11:46	29° ≈ 46′00	
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	7026 M 00 02 52	001/			7027 F. L. 00, 07, 10	21027/25	1014110
	7936 Mar 08 03:53	0°) {	21005112	inferior conj	7937 Feb 09 06:19	21°≈37'25	
C	7936 Mar 14 23:12	4°) (38′58	21°07′12	minimum elong	7937 Feb 09 04:41	21°≈42'54	1°13'47
	7936 Mar 25 10:32	17°) 32'38		morning rise	7937 Feb 14 16:05	15° ≈ 37'50	
	7936 Apr 03 02:25	0° Υ		direct	7937 Feb 18 10:21	14° ≈ 16'48	
	7936 Apr 14 17:18	17° Y ′44′13		morning max el	7937 Feb 25 22:36	18° ≈ 30′00	19°55'23
max. Earth dist.	7936 Apr 22 04:05	29° Ƴ 39'37	1.42611 AU		7937 Mar 07 04:34	0° ℋ	
	7936 Apr 22 09:04	9° 8		desc. node	7937 Mar 12 07:29	7°) €23'36	
				morning set	7937 Mar 24 15:04	26°) €01'58	
superior conj	7936 Apr 29 08:29	11° 8 39'13	-2°04'43		7937 Mar 27 04:38	0° Y	
minimum elong	7936 Apr 29 12:55	11° 8 58'06	2°04'35	max. Earth dist.	7937 Apr 04 14:07	13° Ƴ 11′09	1.44228 AU
	7936 May 09 19:05	$\Pi^{\circ}0$			_		
evening rise	7936 May 10 21:49	2° Ⅱ 00'04		superior conj	7937 Apr 09 20:17	21° Y 38'34	-2°11'31
Č	7936 May 17 12:09	13° Ⅱ 42'59		minimum elong	7937 Apr 09 19:32	21° Y 35'30	2°11'34
	7936 May 27 11:35	28° Ⅱ 02'42	18°06'22		7937 Apr 14 22:16	0°B	
Č	7936 May 29 20:11	0°9	10 00 22	evening rise	7937 Apr 23 02:31	13° 8 48'52	
	7936 Jun 03 03:46	1°927'11		evening rise	7937 May 02 17:03	0°II	
•	7936 Jun 05 17:03	0°957'23		asc. node	7937 May 04 09:12	2° П 37'51	
Č						11° Ⅱ 19'43	10000153
	7936 Jun 07 14:19	30°RⅡ 260Ⅲ00153	2022155	evening max el	7937 May 11 00:51		18°09'52
	7936 Jun 12 09:37	26° Ⅱ 00'53		retrograde	7937 May 17 10:16	14° ∏ 41'19	
U	7936 Jun 12 12:41	25° Ⅲ 53'33	2°21'59	evening set	7937 May 20 06:46	13° ∏ 59'10	
	7936 Jun 15 15:02	22° Ⅱ 57'19	0.60760 AU	inferior conj	7937 May 26 09:56	8° Ⅱ 43'56	
morning rise	7936 Jun 19 05:48	20° Ⅱ 05'41		minimum elong	7937 May 26 12:08	8° Ⅱ 37'58	3°02'10
desc. node	7936 Jun 21 09:58	18° Ⅱ 54'13		min. Earth dist.	7937 May 29 03:41	5° Ⅱ 46'55	0.62946 AU
direct	7936 Jun 25 20:20	17° Ⅱ 55'49		morning rise	7937 Jun 01 15:57	2° ∏ 34′28	
morning max el	7936 Jul 10 03:35	25° Ⅲ 53'59	27°50'51	direct	7937 Jun 08 10:37	0°耳00′34	
	7936 Jul 13 23:02	0°9		desc. node	7937 Jun 08 07:00	0° Ⅱ 00′39	
	7936 Aug 03 01:27	$0^{\circ}\Omega$		morning max el	7937 Jun 22 10:55	8°Д03′36	27°50'33
	7936 Aug 11 20:22	17° Ω 02'19		C	7937 Jul 09 07:48	0°ಅ	
•	7936 Aug 13 11:30	20° Ω 26'57			7937 Jul 26 06:06	$0^{\circ}\Omega$	
	7936 Aug 17 21:42	0° m)		morning set	7937 Jul 26 18:43	1° Ω 03'21	
	7936 Aug 17 20:27	•	1.31826 AU	asc. node	7937 Jul 31 08:30	10° Ω 31'40	
max. Lattii dist.	7730 Aug 17 20.27	27 6633 12	1.51020 AC	max. Earth dist.	7937 Aug 01 01:09	12°Ω00'18	1.32423 AU
avnariar aani	7026 Aug 10 02:06	20 m 41140	0055100	max. Earth dist.	7937 Aug 01 01.09	12 8600 18	1.32423 AU
	7936 Aug 19 03:06	2° Mp 41'49	0°55'00		7027 4 02 11 22	170 0 12150	0021122
	7936 Aug 19 01:01	2° m/30'17	0°54'33	superior conj	7937 Aug 03 11:23	17° Ω 13'59	0°31'23
•	7936 Aug 25 21:26	17° m) 31'13		minimum elong	7937 Aug 03 09:58	17° Ω 06′18	0°31'00
	7936 Aug 31 23:47	0∘ ত			7937 Aug 09 08:10	0° m	
	7936 Sep 17 08:55	25° ≏ 42'38		evening rise	7937 Aug 10 09:06	2° Mp 13'46	
	7936 Sep 21 08:26	0° M			7937 Aug 25 10:28	0∘ ত	
evening max el	7936 Sep 21 15:41	0° II L17'27	25°15'58	evening max el	7937 Sep 03 03:34	10° ≙ 40'38	23°40'50
retrograde	7936 Oct 05 13:15	7° ጤ 18'45		desc. node	7937 Sep 04 05:59	11° ≏ 42'12	
evening set	7936 Oct 11 08:54	6° M 01'09		retrograde	7937 Sep 16 18:10	17° ≏ 29'26	
min. Earth dist.	7936 Oct 16 03:23	3°M21'18	0.57465 AU			1 60 0 16115	
inferior conj				evening set	7937 Sep 21 04:07	16° ≏ 46'45	
minimum elong	7936 Oct 19 02:11	1°M21'45		min. Earth dist.	7937 Sep 21 04:07 7937 Sep 27 13:47	16° £ 46'45 13° £ 43'23	0.55814 AU
minimum ciong	7936 Oct 19 02:11 7936 Oct 19 06:47	1° ጤ 21'45 1° ጤ 13'57	-5°20'38	C			
•	7936 Oct 19 06:47	1°M13'57	-5°20'38	min. Earth dist. inferior conj	7937 Sep 27 13:47 7937 Sep 29 15:24	13° £ 43'23 12° £ 29'05	-5°31'37
	7936 Oct 19 06:47 7936 Oct 21 03:36	1° ጤ 13'57 30° ጺሷ	-5°20'38	min. Earth dist. inferior conj minimum elong	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 13:27	13° £ 43'23 12° £ 29'05 12° £ 32'02	-5°31'37
morning rise	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59	1° M .13'57 30° R .Ω 27°Ω08'43	-5°20'38	min. Earth dist. inferior conj minimum elong morning rise	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 13:27 7937 Oct 08 00:56	13° Ω 43'23 12° Ω 29'05 12° Ω 32'02 8° Ω 34'31	-5°31'37
morning rise	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27	1°M13'57 30°RΩ 27°Ω08'43 26°Ω51'09	-5°20'38	min. Earth dist. inferior conj minimum elong morning rise direct	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 13:27 7937 Oct 08 00:56 7937 Oct 10 20:49	13° £ 43'23 12° £ 29'05 12° £ 32'02 8° £ 34'31 8° £ 14'35	-5°31'37 5°31'30
morning rise direct	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49	1°M13'57 30°RΩ 27°Ω08'43 26°Ω51'09 0°M	-5°20'38 5°20'03	min. Earth dist. inferior conj minimum elong morning rise direct morning max el	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 13:27 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31	13° ഫ 43'23 12° ഫ 29'05 12° ഫ 32'02 8° ഫ 34'31 8° ഫ 14'35 13° ഫ 07'19	-5°31'37 5°31'30
morning rise direct morning max el	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49	1°M13'57 30°RΩ 27°Ω08'43 26°Ω51'09 0°M 1°M06'44	-5°20'38	min. Earth dist. inferior conj minimum elong morning rise direct	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 13:27 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Oct 27 08:03	13° \$\alpha 43'23 12° \$\alpha 29'05 12° \$\alpha 32'02 8° \$\alpha 34'31 8° \$\alpha 14'35 13° \$\alpha 07'19 20° \$\alpha 23'16	-5°31'37 5°31'30
morning rise direct morning max el asc. node	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49 7936 Nov 09 11:03	1°M13'57 30°R	-5°20'38 5°20'03	min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 13:27 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Oct 27 08:03 7937 Nov 02 03:58	13° \$\Pi 43'23\) 12° \$\Pi 29'05\) 12° \$\Pi 32'02\) 8° \$\Pi 34'31\) 8° \$\Pi 14'35\) 13° \$\Pi 07'19\) 20° \$\Pi 23'16\) 0° \$\mathbb{L}	-5°31'37 5°31'30
morning rise direct morning max el asc. node morning set	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49 7936 Nov 09 11:03 7936 Nov 24 08:03	1°M.13'57 30°R. 27° \overline{0}08'43 26° \overline{0}51'09 0°M. 1°M.06'44 2°M.59'51 27°M.53'44	-5°20'38 5°20'03	min. Earth dist. inferior conj minimum elong morning rise direct morning max el	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 13:27 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Oct 27 08:03	13° \$\alpha 43'23 12° \$\alpha 29'05 12° \$\alpha 32'02 8° \$\alpha 34'31 8° \$\alpha 14'35 13° \$\alpha 07'19 20° \$\alpha 23'16	-5°31'37 5°31'30
morning rise direct morning max el asc. node morning set	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49 7936 Nov 09 11:03	1°M13'57 30°R	-5°20'38 5°20'03	min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 13:27 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Oct 27 08:03 7937 Nov 02 03:58 7937 Nov 08 13:30	13° \$\Pi 43'23\) 12° \$\Pi 29'05\) 12° \$\Pi 32'02\) 8° \$\Pi 34'31\) 8° \$\Pi 14'35\) 13° \$\Pi 07'19\) 20° \$\Pi 23'16\) 0° \$\mathbb{M}\] 12° \$\mathbb{M} 30'31	-5°31'37 5°31'30 20°09'49
morning rise direct morning max el asc. node morning set	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49 7936 Nov 09 11:03 7936 Nov 24 08:03 7936 Nov 25 09:34	1°M13'57 30°R Ω 27°Ω08'43 26°Ω51'09 0°M 1°M06'44 2°M59'51 27°M53'44 0° 🖍	-5°20'38 5°20'03	min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 13:27 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Nov 02 03:58 7937 Nov 08 13:30 7937 Nov 16 05:07	13° \$\Pi 43'23\) 12° \$\Pi 29'05\) 12° \$\Pi 32'02\) 8° \$\Pi 34'31\) 8° \$\Pi 14'35\) 13° \$\Pi 07'19\) 20° \$\Pi 23'16\) 0° \$\mathbb{M}\) 12° \$\mathbb{M} 30'31\)	-5°31'37 5°31'30 20°09'49
morning rise direct morning max el asc. node morning set superior conj	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49 7936 Nov 24 08:03 7936 Nov 25 09:34 7936 Dec 02 15:52	1° M 13'57 30° R Ω 27° Ω 08'43 26° Ω 51'09 0° M 1° M 06'44 2° M 59'51 27° M 53'44 0° 🖈 14° 🖈 15'12	-5°20'38 5°20'03 19°02'22	min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 15:27 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Oct 27 08:03 7937 Nov 02 03:58 7937 Nov 08 13:30 7937 Nov 16 05:07 7937 Nov 16 07:08	13° \$\times 43'23\) 12° \$\times 29'05\) 12° \$\times 32'02\) 8° \$\times 34'31\) 8° \$\times 14'35\) 13° \$\times 07'19\) 20° \$\times 23'16\) 0° \$\times 12° \$\times 30'31\) 28° \$\times 08'58\) 28° \$\times 19'03\)	-5°31'37 5°31'30 20°09'49
morning rise direct morning max el asc. node morning set superior conj minimum elong	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49 7936 Nov 24 08:03 7936 Nov 25 09:34 7936 Dec 02 15:52 7936 Dec 02 19:00	1° M 13'57 30° R Ω 27° Ω 08'43 26° Ω 51'09 0° M 1° M 06'44 2° M 59'51 27° M 53'44 0° 🗷 14° 🗷 15'12 14° 🗷 30'13	-5°20'38 5°20'03 19°02'22 1°19'11 1°18'58	min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 13:27 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Oct 27 08:03 7937 Nov 02 03:58 7937 Nov 08 13:30 7937 Nov 16 05:07 7937 Nov 16 07:08 7937 Nov 17 03:17	13° \$\times 43'23\) 12° \$\times 29'05\) 12° \$\times 32'02\) 8° \$\times 34'31\) 8° \$\times 14'35\) 13° \$\times 07'19\) 20° \$\times 23'16\) 0° \$\times 12° \$\times 30'31\) 28° \$\times 08'58\) 28° \$\times 19'03\) 0° \$\times 1	-5°31'37 5°31'30 20°09'49 1°33'55 1°33'53
morning rise direct morning max el asc. node morning set superior conj minimum elong	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49 7936 Nov 24 08:03 7936 Nov 25 09:34 7936 Dec 02 15:52	1° M 13'57 30° R Ω 27° Ω 08'43 26° Ω 51'09 0° M 1° M 06'44 2° M 59'51 27° M 53'44 0° 🖈 14° 🖈 15'12 14° 🖈 30'13 27° 🗷 00'07	-5°20'38 5°20'03 19°02'22	min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 15:27 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Oct 27 08:03 7937 Nov 02 03:58 7937 Nov 08 13:30 7937 Nov 16 05:07 7937 Nov 16 07:08	13° \$\times 43'23\) 12° \$\times 29'05\) 12° \$\times 32'02\) 8° \$\times 34'31\) 8° \$\times 14'35\) 13° \$\times 07'19\) 20° \$\times 23'16\) 0° \$\times 12° \$\times 30'31\) 28° \$\times 08'58\) 28° \$\times 19'03\)	-5°31'37 5°31'30 20°09'49
morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49 7936 Nov 24 08:03 7936 Nov 25 09:34 7936 Dec 02 15:52 7936 Dec 02 19:00	1° M 13'57 30° R Ω 27° Ω 08'43 26° Ω 51'09 0° M 1° M 06'44 2° M 59'51 27° M 53'44 0° 🗷 14° 🗷 15'12 14° 🗷 30'13	-5°20'38 5°20'03 19°02'22 1°19'11 1°18'58	min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 13:27 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Oct 27 08:03 7937 Nov 02 03:58 7937 Nov 08 13:30 7937 Nov 16 05:07 7937 Nov 16 07:08 7937 Nov 17 03:17	13° \$\times 43'23\) 12° \$\times 29'05\) 12° \$\times 32'02\) 8° \$\times 34'31\) 8° \$\times 14'35\) 13° \$\times 07'19\) 20° \$\times 23'16\) 0° \$\times 12° \$\times 30'31\) 28° \$\times 08'58\) 28° \$\times 19'03\) 0° \$\times 1	-5°31'37 5°31'30 20°09'49 1°33'55 1°33'53
morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49 7936 Nov 24 08:03 7936 Nov 25 09:34 7936 Dec 02 15:52 7936 Dec 02 19:00 7936 Dec 09 12:34	1° M 13'57 30° R Ω 27° Ω 08'43 26° Ω 51'09 0° M 1° M 06'44 2° M 59'51 27° M 53'44 0° 🖈 14° 🖈 15'12 14° 🖈 30'13 27° 🗷 00'07	-5°20'38 5°20'03 19°02'22 1°19'11 1°18'58	min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 13:27 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Oct 27 08:03 7937 Nov 02 03:58 7937 Nov 08 13:30 7937 Nov 16 05:07 7937 Nov 16 07:08 7937 Nov 17 03:17 7937 Nov 21 18:48	13° \$\times 43'23\) 12° \$\times 29'05\) 12° \$\times 32'02\) 8° \$\times 34'31\) 8° \$\times 14'35\) 13° \$\times 07'19\) 20° \$\times 23'16\) 0° \$\times 12° \$\times 30'31\) 28° \$\times 08'58\) 28° \$\times 19'03\) 0° \$\times 19'03'27	-5°31'37 5°31'30 20°09'49 1°33'55 1°33'53
morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49 7936 Nov 24 08:03 7936 Nov 25 09:34 7936 Dec 02 15:52 7936 Dec 02 19:00 7936 Dec 09 12:34 7936 Dec 11 05:03	1° 13'57 30° R	-5°20'38 5°20'03 19°02'22 1°19'11 1°18'58	min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 15:24 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Oct 27 08:03 7937 Nov 02 03:58 7937 Nov 08 13:30 7937 Nov 16 05:07 7937 Nov 16 07:08 7937 Nov 17 03:17 7937 Nov 21 18:48 7937 Nov 25 14:20	13° \$\times 43'23\) 12° \$\times 29'05\) 12° \$\times 32'02\) 8° \$\times 34'31\) 8° \$\times 14'35\) 13° \$\times 07'19\) 20° \$\times 23'16\) 0° \$\times 12° \$\times 30'31\) 28° \$\times 08'58\) 28° \$\times 19'03\) 0° \$\times 19'03'27\) 16° \$\times 708'39	-5°31'37 5°31'30 20°09'49 1°33'55 1°33'53
morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49 7936 Nov 24 08:03 7936 Nov 25 09:34 7936 Dec 02 15:52 7936 Dec 02 19:00 7936 Dec 09 12:34 7936 Dec 11 05:03 7936 Dec 13 08:14	1°M.13'57 30°R.Ω. 27°Ω.08'43 26°Ω.51'09 0°M. 1°M.06'44 2°M.59'51 27°M.53'44 0° 🖈 14° 🖈 15'12 14° 🖈 30'13 27° 🗷 00'07 0° ♂ 3°♂42'50	-5°20'38 5°20'03 19°02'22 1°19'11 1°18'58	min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 13:27 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Oct 27 08:03 7937 Nov 02 03:58 7937 Nov 08 13:30 7937 Nov 16 05:07 7937 Nov 16 07:08 7937 Nov 17 03:17 7937 Nov 21 18:48 7937 Nov 25 14:20 7937 Dec 01 04:57	13° \$\times 43'23\) 12° \$\times 29'05\) 12° \$\times 32'02\) 8° \$\times 34'31\) 8° \$\times 14'35\) 13° \$\times 07'19\) 20° \$\times 23'16\) 0° \$\times 12° \$\times 30'31\) 28° \$\times 08'58\) 28° \$\times 19'03\) 0° \$\times 19'03'27\) 16° \$\times 08'39\) 25° \$\times 59'04	-5°31'37 5°31'30 20°09'49 1°33'55 1°33'53
morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49 7936 Nov 24 08:03 7936 Nov 25 09:34 7936 Dec 02 15:52 7936 Dec 02 19:00 7936 Dec 09 12:34 7936 Dec 11 05:03 7936 Dec 13 08:14 7936 Dec 14 07:56	1°M.13'57 30°R. 27° \(\Omega\) 08'43 26° \(\Omega\) 51'09 0°M. 1°M.06'44 2°M.59'51 27°M.53'44 0° \(\structure{\structu	-5°20'38 5°20'03 19°02'22 1°19'11 1°18'58 1.38843 AU	min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 13:27 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Oct 27 08:03 7937 Nov 02 03:58 7937 Nov 08 13:30 7937 Nov 16 05:07 7937 Nov 16 07:08 7937 Nov 17 03:17 7937 Nov 21 18:48 7937 Nov 25 14:20 7937 Dec 01 04:57 7937 Dec 03 14:41	13° \$\times 43'23 12° \$\times 29'05 12° \$\times 32'02 8° \$\times 34'31 8° \$\times 14'35 13° \$\times 07'19 20° \$\times 23'16 0° \$\times 12° \$\times 30'31 28° \$\times 08'58 28° \$\times 19'03 0° \$\times 19'03 25° \$\times 19'03 0° \$\times 19'03	-5°31'37 5°31'30 20°09'49 1°33'55 1°33'53 1.36742 AU
morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49 7936 Nov 24 08:03 7936 Nov 25 09:34 7936 Dec 02 15:52 7936 Dec 02 19:00 7936 Dec 01 05:03 7936 Dec 11 05:03 7936 Dec 13 08:14 7936 Dec 14 07:56 7936 Dec 29 22:59 7937 Jan 17 16:23	1°M.13'57 30°R.Ω 27°Ω08'43 26°Ω51'09 0°M. 1°M.06'44 2°M.59'51 27°M.53'44 0° 🖈 14° 🛪 15'12 14° 🛪 30'13 27° 🛪 00'07 0°♂ 3°♂42'50 5°♂24'19 0°≈ 23°≈38'49	-5°20'38 5°20'03 19°02'22 1°19'11 1°18'58 1.38843 AU	min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 13:27 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Oct 27 08:03 7937 Nov 02 03:58 7937 Nov 08 13:30 7937 Nov 16 05:07 7937 Nov 16 07:08 7937 Nov 17 03:17 7937 Nov 21 18:48 7937 Nov 25 14:20 7937 Dec 01 04:57 7937 Dec 03 14:41 7937 Dec 24 11:24 7937 Dec 31 05:25	13° \$\times 43'23 12° \$\times 29'05 12° \$\times 32'02 8° \$\times 34'31 8° \$\times 14'35 13° \$\times 07'19 20° \$\times 23'16 0° \$\times 12° \$\times 30'31 28° \$\times 08'58 28° \$\times 19'03 0° \$\times 9° \$\times 08'39 25° \$\times 59'04 0° \$\times 0° \$\t	-5°31'37 5°31'30 20°09'49 1°33'55 1°33'53 1.36742 AU
morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49 7936 Nov 24 08:03 7936 Nov 25 09:34 7936 Dec 02 15:52 7936 Dec 02 19:00 7936 Dec 03 12:34 7936 Dec 11 05:03 7936 Dec 13 08:14 7936 Dec 14 07:56 7936 Dec 29 22:59 7937 Jan 17 16:23 7937 Jan 26 18:21	1°M.13'57 30°R.Ω 27°Ω08'43 26°Ω51'09 0°M. 1°M.06'44 2°M.59'51 27°M.53'44 0° 🖈 14° 🖈 15'12 14° 🛪 30'13 27° 🛪 00'07 0° ♂ 3° ♂ 42'50 5° ♂ 24'19 0° ≈ 23°≈38'49 0° 升	-5°20'38 5°20'03 19°02'22 1°19'11 1°18'58 1.38843 AU	min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 13:27 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Oct 27 08:03 7937 Nov 02 03:58 7937 Nov 08 13:30 7937 Nov 16 05:07 7937 Nov 16 07:08 7937 Nov 17 03:17 7937 Nov 21 18:48 7937 Nov 25 14:20 7937 Dec 01 04:57 7937 Dec 03 14:41 7937 Dec 24 11:24 7937 Dec 31 05:25 7938 Jan 12 16:00	13° \$\times 43'23\) 12° \$\times 29'05\) 12° \$\times 32'02\) 8° \$\times 34'31\) 8° \$\times 14'35\) 13° \$\times 07'19\) 20° \$\times 23'16\) 0° \$\times 19'03\) 0° \$\times 19'03\) 0° \$\times 19'04\) 0° \$\times 25'49\) 14° \$\times 25'49\]	-5°31'37 5°31'30 20°09'49 1°33'55 1°33'53 1.36742 AU
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	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49 7936 Nov 24 08:03 7936 Nov 25 09:34 7936 Dec 02 15:52 7936 Dec 02 19:00 7936 Dec 09 12:34 7936 Dec 11 05:03 7936 Dec 13 08:14 7936 Dec 14 07:56 7936 Dec 29 22:59 7937 Jan 17 16:23 7937 Jan 26 18:21 7937 Jan 29 05:23	1° M.13'57 30° R.Ω. 27° Ω 08'43 26° Ω 51'09 0° M. 1° M.06'44 2° M.59'51 27° M.53'44 0° 🖈 14° 🖈 15'12 14° 🖈 30'13 27° 🔻 00'07 0° ♂ 3° ♂ 42'50 5° ♂ 24'19 0° № 23° ≈ 38'49 0° ℋ 0° ℋ 23'35	-5°20'38 5°20'03 19°02'22 1°19'11 1°18'58 1.38843 AU	min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 15:24 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Oct 27 08:03 7937 Nov 02 03:58 7937 Nov 08 13:30 7937 Nov 16 05:07 7937 Nov 16 07:08 7937 Nov 17 03:17 7937 Nov 21 18:48 7937 Nov 25 14:20 7937 Dec 01 04:57 7937 Dec 03 14:41 7937 Dec 24 11:24 7937 Dec 31 05:25 7938 Jan 12 16:00 7938 Jan 18 16:45	13° \$\times 43'23\) 12° \$\times 29'05\) 12° \$\times 32'02\) 8° \$\times 34'31\) 8° \$\times 14'35\) 13° \$\times 07'19\) 20° \$\times 23'16\) 0° \$\times 19'03\) 0° \$\times 19'03\) 25° \$\times 19'04\) 0° \$\times 19'04\) 0° \$\times 25'49\) 14° \$\times 32'40\) 12° \$\times 04'05\)	-5°31'37 5°31'30 20°09'49 1°33'55 1°33'53 1.36742 AU 25°47'49
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	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49 7936 Nov 24 08:03 7936 Nov 25 09:34 7936 Dec 02 15:52 7936 Dec 02 19:00 7936 Dec 09 12:34 7936 Dec 11 05:03 7936 Dec 13 08:14 7936 Dec 14 07:56 7936 Dec 29 22:59 7937 Jan 17 16:23 7937 Jan 26 18:21 7937 Jan 29 05:23 7937 Jan 31 13:14	1°M.13'57 30°R.Ω. 27°Ω.08'43 26°Ω.51'09 0°M. 1°M.06'44 2°M.59'51 27°M.53'44 0° 🖈 14° 🖈 15'12 14° 🖈 30'13 27° 🔻 00'07 0° ♂ 3° ♂ 42'50 5° ♂ 24'19 0° № 23° ≈ 38'49 0° 升 0° 升 23'35 30°R≈	-5°20'38 5°20'03 19°02'22 1°19'11 1°18'58 1.38843 AU	min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 15:24 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Oct 27 08:03 7937 Nov 02 03:58 7937 Nov 08 13:30 7937 Nov 16 05:07 7937 Nov 16 07:08 7937 Nov 17 03:17 7937 Nov 21 18:48 7937 Nov 25 14:20 7937 Dec 01 04:57 7937 Dec 03 14:41 7937 Dec 31 05:25 7938 Jan 12 16:00 7938 Jan 18 16:45 7938 Jan 23 00:10	13° \$\times 43'23\) 12° \$\times 29'05\) 12° \$\times 32'02\) 8° \$\times 34'31\) 8° \$\times 14'35\) 13° \$\times 07'19\) 20° \$\times 23'16\) 0° \$\times 19'03\) 0° \$\times 19'03\) 0° \$\times 19'04\) 0° \$\times 25'49\) 14° \$\times 32'40\) 12° \$\times 04'05\) 7° \$\times 25'25\)	-5°31'37 5°31'30 20°09'49 1°33'55 1°33'53 1.36742 AU
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	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49 7936 Nov 24 08:03 7936 Nov 25 09:34 7936 Dec 02 15:52 7936 Dec 02 19:00 7936 Dec 09 12:34 7936 Dec 11 05:03 7936 Dec 13 08:14 7936 Dec 14 07:56 7936 Dec 29 22:59 7937 Jan 17 16:23 7937 Jan 26 18:21 7937 Jan 29 05:23 7937 Jan 31 13:14 7937 Feb 03 17:26	1°M.13'57 30°R.2 27° 208'43 26° 251'09 0°M. 1°M.06'44 2°M.59'51 27°M.53'44 0° ₹ 14° ₹ 15'12 14° ₹ 30'13 27° ₹ 00'07 0° ₹ 3° ₹ 42'50 5° ₹ 24'19 0° € 23° ≈ 38'49 0° ₹ 0° ₹ 23'35 30° ₹ ≈ 28° ≈ 05'57	-5°20'38 5°20'03 19°02'22 1°19'11 1°18'58 1.38843 AU	min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. asc. node	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 15:24 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Oct 27 08:03 7937 Nov 02 03:58 7937 Nov 08 13:30 7937 Nov 16 05:07 7937 Nov 16 07:08 7937 Nov 17 03:17 7937 Nov 21 18:48 7937 Nov 25 14:20 7937 Dec 01 04:57 7937 Dec 03 14:41 7937 Dec 24 11:24 7937 Dec 31 05:25 7938 Jan 12 16:00 7938 Jan 18 16:45 7938 Jan 23 00:10 7938 Jan 23 07:18	13° \$\times 43'23\) 12° \$\times 29'05\) 12° \$\times 32'02\) 8° \$\times 34'31\) 8° \$\times 14'35\) 13° \$\times 07'19\) 20° \$\times 23'16\) 0° \$\times 12° \$\times 30'31\) 28° \$\times 08'58\) 28° \$\times 19'03\) 0° \$\times 19'03\) 25° \$\times 19'04\) 0° \$\times 19'04\) 0° \$\times 19'04\) 0° \$\times 19'04\) 12° \$\times 25'49\) 14° \$\times 32'40\) 12° \$\times 04'05\) 7° \$\times 25'25\) 7° \$\times 03'01\]	-5°31'37 5°31'30 20°09'49 1°33'55 1°33'53 1.36742 AU 25°47'49
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 asc. node	7936 Oct 19 06:47 7936 Oct 21 03:36 7936 Oct 27 06:59 7936 Oct 29 17:27 7936 Nov 06 09:49 7936 Nov 07 15:49 7936 Nov 24 08:03 7936 Nov 25 09:34 7936 Dec 02 15:52 7936 Dec 02 19:00 7936 Dec 09 12:34 7936 Dec 11 05:03 7936 Dec 13 08:14 7936 Dec 14 07:56 7936 Dec 29 22:59 7937 Jan 17 16:23 7937 Jan 26 18:21 7937 Jan 29 05:23 7937 Jan 31 13:14	1°M.13'57 30°R.Ω. 27°Ω.08'43 26°Ω.51'09 0°M. 1°M.06'44 2°M.59'51 27°M.53'44 0° 🖈 14° 🖈 15'12 14° 🖈 30'13 27° 🔻 00'07 0° ♂ 3° ♂ 42'50 5° ♂ 24'19 0° № 23° ≈ 38'49 0° 升 0° 升 23'35 30°R≈	-5°20'38 5°20'03 19°02'22 1°19'11 1°18'58 1.38843 AU	min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	7937 Sep 27 13:47 7937 Sep 29 15:24 7937 Sep 29 15:24 7937 Oct 08 00:56 7937 Oct 10 20:49 7937 Oct 21 06:31 7937 Oct 27 08:03 7937 Nov 02 03:58 7937 Nov 08 13:30 7937 Nov 16 05:07 7937 Nov 16 07:08 7937 Nov 17 03:17 7937 Nov 21 18:48 7937 Nov 25 14:20 7937 Dec 01 04:57 7937 Dec 03 14:41 7937 Dec 31 05:25 7938 Jan 12 16:00 7938 Jan 18 16:45 7938 Jan 23 00:10	13° \$\times 43'23\) 12° \$\times 29'05\) 12° \$\times 32'02\) 8° \$\times 34'31\) 8° \$\times 14'35\) 13° \$\times 07'19\) 20° \$\times 23'16\) 0° \$\times 19'03\) 0° \$\times 19'03\) 0° \$\times 19'04\) 0° \$\times 25'49\) 14° \$\times 32'40\) 12° \$\times 04'05\) 7° \$\times 25'25\)	-5°31'37 5°31'30 20°09'49 1°33'55 1°33'53 1.36742 AU 25°47'49

	7938 Jan 29 18:51	30°R₹		asc. node	7939 Jan 10 04:22	17° る 27'28	
morning rise	7938 Jan 30 02:47	29° る 47'03		morning rise	7939 Jan 14 10:17	13° る 52'46	
direct	7938 Feb 02 09:25	28° る 45'29		direct	7939 Jan 17 07:04	13° る 07'17	
ancet	7938 Feb 06 04:06	0° ≈		morning max el	7939 Jan 23 18:52	16° පි 36'04	18°17'53
morning max el	7938 Feb 09 05:40	2° ≈ 30'40	18°58'26	morning man er	7939 Feb 02 18:07	0°≈	10 17 00
desc. node	7938 Feb 27 04:25	27°≈35'13	10 3020	morning set	7939 Feb 12 03:48	14°≈58'49	
dese. Hode	7938 Feb 28 17:47	0° ∀		desc. node	7939 Feb 14 01:22	18° ≈ 01'44	
morning set	7938 Mar 03 20:16	4° ¥ 49′23		dese. Hode	7939 Feb 21 13:42	0°)	
max. Earth dist.	7938 Mar 18 05:55	27°) 18'34	1.45225 AU		7737100 21 13.12	٠,٨	
max. Darur dist.	7938 Mar 19 22:59	0°Υ	1.13223 110	superior conj	7939 Feb 27 14:25	9°) 29'46	-1°27'31
	7756 Will 17 22.57	0 1		minimum elong	7939 Feb 27 05:03		1°26'27
superior conj	7938 Mar 20 09:53	0° Ƴ 42'56	-1°59'10	max. Earth dist.	7939 Mar 01 01:24	11°) 46'49	1.45495 AU
minimum elong	7938 Mar 20 02:20		1°58'42	max. Earth dist.	7939 Mar 12 17:06	0°Υ	1.43473710
evening rise	7938 Apr 04 08:32	24° Υ '39'11	1 30 42	evening rise	7939 Mar 15 15:32	4° Υ 35'31	
evening rise	7938 Apr 07 05:15	0°8		greatest brilliancy	7939 Mar 26 15:30	21° Y 43'24	-0.8m
asc. node	7938 Apr 21 06:15	20° 8 59'02		greatest offinaley	7939 Apr 01 05:18	0°8	-0.0111
evening max el	7938 Apr 24 13:16	24° 8 48'43	18°31'43	evening max el	7939 Apr 07 22:27	8° 8 24'10	19°10'57
•	7938 May 01 01:16	28° 8 20'59	16 31 43	asc. node	7939 Apr 07 22.27 7939 Apr 08 03:19	8° 8 36'22	19 10 37
retrograde	•				1		
evening set	7938 May 04 05:00	27° 8 25'06	2021121	retrograde	7939 Apr 14 21:20	12° 8 19'18	
inferior conj	7938 May 09 22:40	21° 8 52'27	3°21'21 3°21'12	evening set	7939 Apr 18 08:44	11° 8 08'56	2022120
minimum elong	7938 May 09 23:31	•		inferior conj	7939 Apr 23 20:19	_	3°23'39
min. Earth dist.	7938 May 12 01:27	19° 8 21'04	0.64873 AU	minimum elong	7939 Apr 23 19:52	_	3°23'34
morning rise	7938 May 15 17:14	15° 8 36'35		min. Earth dist.	7939 Apr 25 07:40	3° 8 26'35	0.66407 AU
direct	7938 May 22 08:49	12° 8 50'33			7939 Apr 28 06:38	30° ₹ Υ	
desc. node	7938 May 26 04:00	13° 8 36'59		morning rise	7939 Apr 29 06:36	29° Y ′02'45	
morning max el	7938 Jun 04 20:45	20° 8 46'26	27°15'16	direct	7939 May 05 13:37	26° Y 17′07	
	7938 Jun 12 19:38	Π °0		desc. node	7939 May 13 00:59	29° Y 15′26	
	7938 Jul 02 10:41	0∘ಣ			7939 May 14 00:36	0°8	
morning set	7938 Jul 10 08:00	14° © 34'57		morning max el	7939 May 18 06:59	3° 8 52'10	26°12'23
max. Earth dist.	7938 Jul 14 21:22	23° 5 41'13	1.33510 AU		7939 Jun 07 04:05	Π $\circ 0$	
	7938 Jul 17 22:17	0 \circ Ω		morning set	7939 Jun 23 08:44	27° Ⅱ 27'59	
asc. node	7938 Jul 18 05:28	0° Ω 37'52			7939 Jun 24 17:09	0	
				max. Earth dist.	7939 Jun 27 07:04	4° © 56'58	1.35077 AU
superior conj	7938 Jul 18 14:54	1° Ω 27'41	0°04'00				
minimum elong	7938 Jul 18 14:42	1° Ω 26'36	0°03'50	superior conj	7939 Jul 02 11:14	15° © 16'37	-0°26'17
behind sun begin	7938 Jul 18 09:17	0° Ω 58′00		minimum elong	7939 Jul 02 12:45	15° © 24'20	0°26'07
behind sun end	7938 Jul 18 20:06	1° Ω 55'15		asc. node	7939 Jul 05 02:28	20° © 42'08	
evening rise	7938 Jul 25 20:06	16° Ω 50'36			7939 Jul 09 13:44	$0 {\circ} \Omega$	
	7938 Aug 01 08:51	0° m ∕		evening rise	7939 Jul 10 04:28	1° Ω 16′13	
evening max el	7938 Aug 15 17:29	20° m 56'22	22°02'33		7939 Jul 27 04:09	0° m)	
desc. node	//2011ug 10 1/.2/				7,5, tul 2, 01.0,	עוו ט	
desc. Hode	7938 Aug 22 03:04	25° Mp 41'30		evening max el	7939 Jul 28 17:27	1°mp38'10	20°35'30
retrograde	•	25° mp 41'30 27° mp 15'39		evening max el retrograde			20°35'30
	7938 Aug 22 03:04	-		•	7939 Jul 28 17:27	1° m 38'10	20°35'30
retrograde	7938 Aug 22 03:04 7938 Aug 28 10:50	27° m 15'39 26° m 56'17	0.54847 AU	retrograde	7939 Jul 28 17:27 7939 Aug 08 22:54	1° m/38'10 7° m/11'08	20°35'30
retrograde evening set	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40	27° m 15'39 26° m 56'17		retrograde desc. node	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08	1° m/38'10 7° m/11'08 7° m/11'07	
retrograde evening set min. Earth dist.	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21	27° m/15'39 26° m/56'17 23° m/14'55		retrograde desc. node evening set	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17	1° m 38'10 7° m 11'08 7° m 11'07 7° m 00'44	-3°18'19
retrograde evening set min. Earth dist. inferior conj	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57	-4°50'28	retrograde desc. node evening set inferior conj	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23	1° m 38'10 7° m 11'08 7° m 11'07 7° m 00'44 3° m 03'40 3° m 16'07	-3°18'19
retrograde evening set min. Earth dist. inferior conj minimum elong	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48	-4°50'28	retrograde desc. node evening set inferior conj minimum elong	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44	1° m 38'10 7° m 11'08 7° m 11'07 7° m 00'44 3° m 03'40 3° m 16'07	-3°18'19 3°15'31
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08 7938 Sep 18 00:04	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48 19° m 06'24	-4°50'28 4°48'46	retrograde desc. node evening set inferior conj minimum elong	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44 7939 Aug 21 07:51	1° m 38'10 7° m 11'08 7° m 11'07 7° m 00'44 3° m 03'40 3° m 16'07 2° m 25'36	-3°18'19 3°15'31
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08 7938 Sep 18 00:04 7938 Sep 21 09:17	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48 19° m 06'24 18° m 41'01	-4°50'28 4°48'46	retrograde desc. node evening set inferior conj minimum elong min. Earth dist.	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44 7939 Aug 21 07:51 7939 Aug 25 23:58	1° m 38'10 7° m 11'08 7° m 11'07 7° m 00'44 3° m 03'40 3° m 16'07 2° m 25'36 30° R \(\Omega\)	-3°18'19 3°15'31
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08 7938 Sep 18 00:04 7938 Sep 21 09:17 7938 Oct 03 08:11	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48 19° m 06'24 18° m 41'01 24° m 18'24	-4°50'28 4°48'46	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44 7939 Aug 21 07:51 7939 Aug 25 23:58 7939 Aug 28 16:50	1° m 38'10 7° m 11'08 7° m 11'07 7° m 00'44 3° m 03'40 3° m 16'07 2° m 25'36 30° R \(\Omega \) 29° \(\Omega \) 01'19	-3°18'19 3°15'31
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08 7938 Sep 18 00:04 7938 Sep 21 09:17 7938 Oct 03 08:11 7938 Oct 08 10:32	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48 19° m 06'24 18° m 41'01 24° m 18'24 0° Ω	-4°50'28 4°48'46	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44 7939 Aug 21 07:51 7939 Aug 25 23:58 7939 Aug 28 16:50 7939 Sep 01 18:03 7939 Sep 08 05:37	1° m 38'10 7° m 11'08 7° m 11'07 7° m 00'44 3° m 03'40 3° m 16'07 2° m 25'36 30° R \(\Omega \) 29° \(\Omega \) 01'19 28° \(\Omega \) 26'09	-3°18'19 3°15'31 0.54792 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08 7938 Sep 18 00:04 7938 Sep 21 09:17 7938 Oct 03 08:11 7938 Oct 08 10:32 7938 Oct 14 05:02	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48 19° m 06'24 18° m 41'01 24° m 18'24 0° Ω 8° Ω 36'09	-4°50'28 4°48'46	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44 7939 Aug 21 07:51 7939 Aug 25 23:58 7939 Aug 28 16:50 7939 Sep 01 18:03	1° m 38'10 7° m 11'08 7° m 11'07 7° m 00'44 3° m 03'40 3° m 16'07 2° m 25'36 30° R A 29° A 01'19 28° A 26'09 0° m	-3°18'19 3°15'31 0.54792 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08 7938 Sep 18 00:04 7938 Sep 21 09:17 7938 Oct 03 08:11 7938 Oct 08 10:32 7938 Oct 14 05:02 7938 Oct 23 22:55	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48 19° m 06'24 18° m 41'01 24° m 18'24 0° Ω 8° Ω 36'09 27° Ω 16'49	-4°50'28 4°48'46	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44 7939 Aug 21 07:51 7939 Aug 25 23:58 7939 Aug 28 16:50 7939 Sep 01 18:03 7939 Sep 08 05:37 7939 Sep 14 23:57	1° m 38'10 7° m 11'08 7° m 11'07 7° m 00'44 3° m 03'40 3° m 16'07 2° m 25'36 30° R A 29° A 01'19 28° A 26'09 0° m 4° m 49'18	-3°18'19 3°15'31 0.54792 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08 7938 Sep 18 00:04 7938 Sep 21 09:17 7938 Oct 03 08:11 7938 Oct 08 10:32 7938 Oct 14 05:02 7938 Oct 23 22:55	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48 19° m 06'24 18° m 41'01 24° m 18'24 0° Ω 8° Ω 36'09 27° Ω 16'49	-4°50'28 4°48'46	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44 7939 Aug 21 07:51 7939 Aug 25 23:58 7939 Aug 28 16:50 7939 Sep 01 18:03 7939 Sep 08 05:37 7939 Sep 14 23:57 7939 Oct 01 02:01	1° m 38'10 7° m 11'08 7° m 11'07 7° m 00'44 3° m 03'40 3° m 16'07 2° m 25'36 30° R A 29° A 01'19 28° A 26'09 0° m 4° m 49'18 27° m 26'44	-3°18'19 3°15'31 0.54792 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08 7938 Sep 18 00:04 7938 Sep 18 00:04 7938 Oct 03 08:11 7938 Oct 03 08:11 7938 Oct 04 05:02 7938 Oct 23 22:55 7938 Oct 25 06:02	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48 19° m 06'24 18° m 41'01 24° m 18'24 0° Ω 8° Ω 36'09 27° Ω 16'49 0° m. 12° m 29'31	-4°50'28 4°48'46 21°38'26	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44 7939 Aug 21 07:51 7939 Aug 25 23:58 7939 Aug 28 16:50 7939 Sep 01 18:03 7939 Sep 08 05:37 7939 Sep 14 23:57 7939 Oct 01 02:01 7939 Oct 02 10:42	1° m 38'10 7° m 11'08 7° m 11'07 7° m 00'44 3° m 03'40 3° m 16'07 2° m 25'36 30° R A 29° A 01'19 28° A 26'09 0° m 4° m 49'18 27° m 26'44 0° •	-3°18'19 3°15'31 0.54792 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08 7938 Sep 18 00:04 7938 Sep 21 09:17 7938 Oct 03 08:11 7938 Oct 08 10:32 7938 Oct 14 05:02 7938 Oct 23 22:55 7938 Oct 25 06:02	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48 19° m 06'24 18° m 41'01 24° m 18'24 0° Ω 8° Ω 36'09 27° Ω 16'49 0° M. 12° M 29'31	-4°50'28 4°48'46 21°38'26 1°40'49	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44 7939 Aug 21 07:51 7939 Aug 25 23:58 7939 Aug 28 16:50 7939 Sep 01 18:03 7939 Sep 08 05:37 7939 Sep 14 23:57 7939 Oct 01 02:01 7939 Oct 02 10:42	1° m 38'10 7° m 11'08 7° m 11'07 7° m 00'44 3° m 03'40 3° m 16'07 2° m 25'36 30° R A 29° A 01'19 28° A 26'09 0° m 4° m 49'18 27° m 26'44 0° •	-3°18'19 3°15'31 0.54792 AU
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retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08 7938 Sep 18 00:04 7938 Sep 21 09:17 7938 Oct 03 08:11 7938 Oct 08 10:32 7938 Oct 14 05:02 7938 Oct 23 22:55 7938 Oct 25 06:02 7938 Oct 31 04:02 7938 Oct 31 04:41 7938 Nov 04 06:50 7938 Nov 08 13:21	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48 19° m 06'24 18° m 41'01 24° m 18'24 0° Ω 8° Ω 36'09 27° Ω 16'49 0° M. 12° M 29'31 12° M 29'31 12° M 32'54 20° M 56'52 29° M 19'26	-4°50'28 4°48'46 21°38'26 1°40'49 1°40'53	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44 7939 Aug 21 07:51 7939 Aug 25 23:58 7939 Aug 28 16:50 7939 Sep 01 18:03 7939 Sep 08 05:37 7939 Sep 14 23:57 7939 Oct 01 02:01 7939 Oct 02 10:42 7939 Oct 08 10:20 7939 Oct 15 09:30	1° \mathrm{3}8'10 7° \mathrm{1}'08 7° \mathrm{1}'07 7° \mathrm{0}00'44 3° \mathrm{0}03'40 3° \mathrm{1}6'07 2° \mathrm{0}25'36 30° \mathrm{0}25'36 30° \mathrm{0}26'09 0° \mathrm{0}40'18 27° \mathrm{0}26'44 0° \mathrm{0}26'44 0° \mathrm{0}26'44 27° \mathrm{0}207'05	-3°18'19 3°15'31 0.54792 AU 23°21'38
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08 7938 Sep 18 00:04 7938 Sep 18 00:04 7938 Sep 21 09:17 7938 Oct 03 08:11 7938 Oct 08 10:32 7938 Oct 14 05:02 7938 Oct 23 22:55 7938 Oct 25 06:02 7938 Oct 31 04:02 7938 Oct 31 04:41 7938 Nov 04 06:50 7938 Nov 08 13:21 7938 Nov 08 21:52	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48 19° m 06'24 18° m 41'01 24° m 18'24 0° Ω 8° Ω 36'09 27° Ω 16'49 0° m 12° m 29'31 12° m 32'54 20° m 56'52 29° m 19'26 0° 7	-4°50'28 4°48'46 21°38'26 1°40'49 1°40'53	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	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44 7939 Aug 21 07:51 7939 Aug 25 23:58 7939 Aug 28 16:50 7939 Sep 01 18:03 7939 Sep 08 05:37 7939 Sep 14 23:57 7939 Oct 01 02:01 7939 Oct 02 10:42 7939 Oct 08 10:20 7939 Oct 15 09:30 7939 Oct 15 09:30 7939 Oct 15 08:54 7939 Oct 16 17:38	1° m 38'10 7° m 11'08 7° m 11'07 7° m 00'44 3° m 03'40 3° m 16'07 2° m 25'36 30° R A 29° A 01'19 28° A 26'09 0° m 4° m 49'18 27° m 26'44 0° Ω 12° Ω 07'05 27° Ω 07'45 27° Ω 04'33 0° M	-3°18'19 3°15'31 0.54792 AU 23°21'38 1°40'50 1°40'52
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.	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08 7938 Sep 18 00:04 7938 Sep 18 00:04 7938 Sep 21 09:17 7938 Oct 03 08:11 7938 Oct 08 10:32 7938 Oct 14 05:02 7938 Oct 23 22:55 7938 Oct 25 06:02 7938 Oct 31 04:41 7938 Nov 04 06:50 7938 Nov 08 13:21 7938 Nov 08 21:52 7938 Nov 18 01:59	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48 19° m 06'24 18° m 41'01 24° m 18'24 0° Ω 8° Ω 36'09 27° Ω 16'49 0° m 12° m 29'31 12° m 32'54 20° m 56'52 29° m 19'26 0° 16° 21'22	-4°50'28 4°48'46 21°38'26 1°40'49 1°40'53	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.	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44 7939 Aug 21 07:51 7939 Aug 25 23:58 7939 Aug 28 16:50 7939 Sep 01 18:03 7939 Sep 08 05:37 7939 Sep 14 23:57 7939 Oct 01 02:01 7939 Oct 02 10:42 7939 Oct 08 10:20 7939 Oct 15 09:30 7939 Oct 15 08:54 7939 Oct 16 17:38 7939 Oct 18 03:12	1° m 38'10 7° m 11'08 7° m 11'07 7° m 00'44 3° m 03'40 3° m 16'07 2° m 25'36 30° k A 29° A 01'19 28° A 26'09 0° m 4° m 49'18 27° m 26'44 0° Ω 12° Ω 07'05 27° Ω 04'33 0° M 2° M 58'07	-3°18'19 3°15'31 0.54792 AU 23°21'38
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08 7938 Sep 18 00:04 7938 Sep 18 00:04 7938 Sep 21 09:17 7938 Oct 03 08:11 7938 Oct 08 10:32 7938 Oct 14 05:02 7938 Oct 23 22:55 7938 Oct 25 06:02 7938 Oct 31 04:02 7938 Oct 31 04:02 7938 Oct 31 04:41 7938 Nov 04 06:50 7938 Nov 08 13:21 7938 Nov 08 21:52 7938 Nov 18 01:59 7938 Nov 26 18:41	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48 19° m 06'24 18° m 41'01 24° m 18'24 0° Ω 8° Ω 36'09 27° Ω 16'49 0° m 12° m 29'31 12° m 32'54 20° m 56'52 29° m 19'26 0° 16° 16° 21'22 0° 3	-4°50'28 4°48'46 21°38'26 1°40'49 1°40'53 1.34892 AU	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	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44 7939 Aug 21 07:51 7939 Aug 25 23:58 7939 Aug 28 16:50 7939 Sep 01 18:03 7939 Sep 08 05:37 7939 Sep 14 23:57 7939 Oct 01 02:01 7939 Oct 02 10:42 7939 Oct 05 08:54 7939 Oct 15 08:54 7939 Oct 18 03:12 7939 Oct 23 01:25	1° m 38'10 7° m 11'08 7° m 11'07 7° m 00'44 3° m 03'40 3° m 16'07 2° m 25'36 30° R A 29° A 01'19 28° A 26'09 0° m 4° m 49'18 27° m 26'44 0° m 12° m 26'44 12° m 26'44 12° m 26'44 12° m 26'44	-3°18'19 3°15'31 0.54792 AU 23°21'38 1°40'50 1°40'52
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08 7938 Sep 18 00:04 7938 Sep 18 00:04 7938 Sep 21 09:17 7938 Oct 03 08:11 7938 Oct 08 10:32 7938 Oct 14 05:02 7938 Oct 23 22:55 7938 Oct 25 06:02 7938 Oct 31 04:02 7938 Oct 31 04:41 7938 Nov 04 06:50 7938 Nov 08 13:21 7938 Nov 08 21:52 7938 Nov 18 01:59 7938 Nov 26 18:41 7938 Dec 13 18:46	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48 19° m 06'24 18° m 41'01 24° m 18'24 0° Ω 8° Ω 36'09 27° Ω 16'49 0° m 12° m 29'31 12° m 32'54 20° m 56'52 29° m 19'26 0° ズ 16° ズ 21'22 0° ጜ 21° ጜ08'25	-4°50'28 4°48'46 21°38'26 1°40'49 1°40'53 1.34892 AU	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	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44 7939 Aug 21 07:51 7939 Aug 25 23:58 7939 Aug 28 16:50 7939 Sep 01 18:03 7939 Sep 04 23:57 7939 Sep 14 23:57 7939 Oct 01 02:01 7939 Oct 02 10:42 7939 Oct 08 10:20 7939 Oct 15 09:30 7939 Oct 15 08:54 7939 Oct 18 03:12 7939 Oct 23 01:25 7939 Nov 01 03:21	1° m 38'10 7° m 11'08 7° m 11'07 7° m 00'44 3° m 03'40 3° m 16'07 2° m 25'36 30° R Q 29° Q 01'19 28° Q 26'09 0° m 4° m 49'18 27° m 26'44 0° \(\Omega \) 12° \(\Omega \) 0° M 20'45 27° \(\Omega \) 0° M 2° M 58'07 13° M 05'04 0° \(\nabla \)	-3°18'19 3°15'31 0.54792 AU 23°21'38 1°40'50 1°40'52
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08 7938 Sep 18 00:04 7938 Sep 18 00:04 7938 Sep 21 09:17 7938 Oct 03 08:11 7938 Oct 08 10:32 7938 Oct 14 05:02 7938 Oct 23 22:55 7938 Oct 25 06:02 7938 Oct 31 04:02 7938 Oct 31 04:41 7938 Nov 04 06:50 7938 Nov 08 13:21 7938 Nov 08 21:52 7938 Nov 18 01:59 7938 Nov 26 18:41 7938 Dec 13 18:46 7938 Dec 26 21:03	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48 19° m 06'24 18° m 41'01 24° m 18'24 0° Ω 8° Ω 36'09 27° Ω 16'49 0° m 12° m 29'31 12° m 32'54 20° m 56'52 29° m 19'26 0° 🕏 16° 🕏 21'22 0° ত 21° ত 08'25 28° ত 25'49	-4°50'28 4°48'46 21°38'26 1°40'49 1°40'53 1.34892 AU	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.	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44 7939 Aug 21 07:51 7939 Aug 25 23:58 7939 Aug 28 16:50 7939 Sep 01 18:03 7939 Sep 04 23:57 7939 Oct 01 02:01 7939 Oct 02 10:42 7939 Oct 08 10:20 7939 Oct 15 09:30 7939 Oct 15 09:30 7939 Oct 16 17:38 7939 Oct 18 03:12 7939 Oct 23 01:25 7939 Nov 01 03:21 7939 Nov 04 23:02	1° m 38'10 7° m 11'08 7° m 11'07 7° m 00'44 3° m 03'40 3° m 16'07 2° m 25'36 30° R Q 29° Q 01'19 28° Q 26'09 0° m 4° m 49'18 27° m 26'44 0° \(\Omega \) 12° \(\Omega \) 0° M 20' \(\Omega \) 12° \(\Omega \) 0° M 20' \(\Omega \) 13° \(\Omega \) 0° M 2° \(\Omega \) 13° \(\Omega \) 13° \(\Omega \) 13° \(\Om	-3°18'19 3°15'31 0.54792 AU 23°21'38 1°40'50 1°40'52
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08 7938 Sep 18 00:04 7938 Sep 18 00:04 7938 Sep 21 09:17 7938 Oct 03 08:11 7938 Oct 08 10:32 7938 Oct 14 05:02 7938 Oct 23 22:55 7938 Oct 25 06:02 7938 Oct 31 04:02 7938 Oct 31 04:41 7938 Nov 04 06:50 7938 Nov 08 13:21 7938 Nov 08 21:52 7938 Nov 18 01:59 7938 Nov 26 18:41 7938 Dec 13 18:46 7938 Dec 26 21:03 7939 Jan 02 09:42	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48 19° m 06'24 18° m 41'01 24° m 18'24 0° Ω 8° Ω 36'09 27° Ω 16'49 0° m. 12° m 29'31 12° m 32'54 20° m 56'52 29° m 19'26 0° ズ 16° ズ 21'22 0° ズ 21° ♂ 08'25 28° ♂ 25'49 25° ♂ 50'28	-4°50'28 4°48'46 21°38'26 1°40'49 1°40'53 1.34892 AU 26°45'08	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	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44 7939 Aug 21 07:51 7939 Aug 25 23:58 7939 Aug 28 16:50 7939 Sep 01 18:03 7939 Sep 08 05:37 7939 Sep 14 23:57 7939 Oct 01 02:01 7939 Oct 02 10:42 7939 Oct 08 10:20 7939 Oct 15 09:30 7939 Oct 15 08:54 7939 Oct 16 17:38 7939 Oct 18 03:12 7939 Oct 23 01:25 7939 Nov 01 03:21 7939 Nov 04 23:02 7939 Nov 21 21:52	1° \$\mathrm{m}\ 38'10 7° \$\mathrm{m}\ 11'08 7° \$\mathrm{m}\ 11'07 7° \$\mathrm{m}\ 00'44 3° \$\mathrm{m}\ 03'40 3° \$\mathrm{m}\ 16'07 2° \$\mathrm{m}\ 25'36 30° \$\mathrm{A}\ 29° \$\mathrm{A}\ 01'19 28° \$\mathrm{A}\ 26'09 0° \$\mathrm{m}\ 49'18 27° \$\mathrm{m}\ 26'44 0° \$\mathrm{a}\ 207'05 27° \$\mathrm{a}\ 07'45 27° \$\mathrm	-3°18'19 3°15'31 0.54792 AU 23°21'38 1°40'50 1°40'52 1.33421 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08 7938 Sep 18 00:04 7938 Sep 18 00:04 7938 Sep 21 09:17 7938 Oct 03 08:11 7938 Oct 08 10:32 7938 Oct 14 05:02 7938 Oct 23 22:55 7938 Oct 25 06:02 7938 Oct 31 04:02 7938 Oct 31 04:41 7938 Nov 04 06:50 7938 Nov 08 13:21 7938 Nov 08 21:52 7938 Nov 18 01:59 7938 Dec 13 18:46 7938 Dec 26 21:03 7939 Jan 02 09:42 7939 Jan 06 10:59	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48 19° m 06'24 18° m 41'01 24° m 18'24 0° \(\Omega\) 8° \(\Omega\) 36'09 27° \(\Omega\) 16'49 0° \(\Omega\) 12° m 29'31 12° m 29'31 12° m 32'54 20° m 56'52 29° m 19'26 0° \(\omega\) 16° \(\omega\) 21'22 0° \(\omega\) 21° \(\omega\) 308'25 28° \(\omega\) 25'49 25° \(\omega\) 50'28 21° \(\omega\) 46'30	-4°50'28 4°48'46 21°38'26 1°40'49 1°40'53 1.34892 AU 26°45'08 0.66002 AU	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	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44 7939 Aug 21 07:51 7939 Aug 25 23:58 7939 Aug 28 16:50 7939 Sep 01 18:03 7939 Sep 08 05:37 7939 Sep 14 23:57 7939 Oct 01 02:01 7939 Oct 02 10:42 7939 Oct 08 10:20 7939 Oct 15 09:30 7939 Oct 15 08:54 7939 Oct 15 08:54 7939 Oct 18 03:12 7939 Oct 23 01:25 7939 Nov 01 03:21 7939 Nov 04 23:02 7939 Nov 26 07:29	1° \$\mathrm{m}\ 38'10 7° \$\mathrm{m}\ 11'08 7° \$\mathrm{m}\ 11'07 7° \$\mathrm{m}\ 00'44 3° \$\mathrm{m}\ 03'40 3° \$\mathrm{m}\ 16'07 2° \$\mathrm{m}\ 25'36 30° \$\mathrm{A}\ 29° \$\mathrm{A}\ 01'19 28° \$\mathrm{A}\ 26'09 0° \$\mathrm{m}\ 49'18 27° \$\mathrm{m}\ 26'44 0° \$\mathrm{n}\ 20'705 27° \$\mathrm{m}\ 07'45 27° \$\mathrm	-3°18'19 3°15'31 0.54792 AU 23°21'38 1°40'50 1°40'52 1.33421 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	7938 Aug 22 03:04 7938 Aug 28 10:50 7938 Aug 31 09:40 7938 Sep 08 22:21 7938 Sep 09 12:36 7938 Sep 09 04:08 7938 Sep 18 00:04 7938 Sep 18 00:04 7938 Sep 21 09:17 7938 Oct 03 08:11 7938 Oct 08 10:32 7938 Oct 14 05:02 7938 Oct 23 22:55 7938 Oct 25 06:02 7938 Oct 31 04:02 7938 Oct 31 04:41 7938 Nov 04 06:50 7938 Nov 08 13:21 7938 Nov 08 21:52 7938 Nov 18 01:59 7938 Nov 26 18:41 7938 Dec 13 18:46 7938 Dec 26 21:03 7939 Jan 02 09:42	27° m 15'39 26° m 56'17 23° m 14'55 22° m 54'57 23° m 06'48 19° m 06'24 18° m 41'01 24° m 18'24 0° Ω 8° Ω 36'09 27° Ω 16'49 0° m. 12° m 29'31 12° m 32'54 20° m 56'52 29° m 19'26 0° ズ 16° ズ 21'22 0° ズ 21° ♂ 08'25 28° ♂ 25'49 25° ♂ 50'28	-4°50'28 4°48'46 21°38'26 1°40'49 1°40'53 1.34892 AU 26°45'08 0.66002 AU -0°36'56	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	7939 Jul 28 17:27 7939 Aug 08 22:54 7939 Aug 09 00:08 7939 Aug 11 00:17 7939 Aug 20 05:23 7939 Aug 19 20:44 7939 Aug 21 07:51 7939 Aug 25 23:58 7939 Aug 28 16:50 7939 Sep 01 18:03 7939 Sep 08 05:37 7939 Sep 14 23:57 7939 Oct 01 02:01 7939 Oct 02 10:42 7939 Oct 08 10:20 7939 Oct 15 09:30 7939 Oct 15 08:54 7939 Oct 16 17:38 7939 Oct 18 03:12 7939 Oct 23 01:25 7939 Nov 01 03:21 7939 Nov 04 23:02 7939 Nov 21 21:52	1° \$\mathrm{m}\ 38'10 7° \$\mathrm{m}\ 11'08 7° \$\mathrm{m}\ 11'07 7° \$\mathrm{m}\ 00'44 3° \$\mathrm{m}\ 03'40 3° \$\mathrm{m}\ 16'07 2° \$\mathrm{m}\ 25'36 30° \$\mathrm{A}\ 29° \$\mathrm{A}\ 01'19 28° \$\mathrm{A}\ 26'09 0° \$\mathrm{m}\ 49'18 27° \$\mathrm{m}\ 26'44 0° \$\mathrm{a}\ 207'05 27° \$\mathrm{a}\ 07'45 27° \$\mathrm	-3°18'19 3°15'31 0.54792 AU 23°21'38 1°40'50 1°40'52 1.33421 AU

min. Earth dist.	7939 Dec 20 13:53	5° る 49'05	0.64509 AU	min. Earth dist.	7940 Dec 02 07:06	19° ∡ 23'50	0.62704 AU
inferior conj	7939 Dec 22 23:05	3° ප 16'05	-1°42'08	inferior conj	7940 Dec 05 03:09	16° ∡ ¹40'56	
minimum elong	7939 Dec 23 02:12	3° る 07'43	1°40'42	minimum elong	7940 Dec 05 08:31	16° ∡ °28′04	2°48'53
	7939 Dec 26 05:47	30°R. ✓		morning rise	7940 Dec 12 04:16	11° ∡ ³31'55	
asc. node	7939 Dec 28 01:25	28° ≯ 36'31		asc. node	7940 Dec 13 22:28	11° ₰ 08'49	
morning rise	7939 Dec 29 11:55	27° ∡ ¹49'52		direct	7940 Dec 14 11:44	11° ₹ 07'23	
direct	7940 Jan 01 00:51	27° х 16′43		morning max el	7940 Dec 21 04:48	14° ∡ °33'36	17°48'16
	7940 Jan 06 18:52	5°0			7940 Dec 31 21:22	0°ප	
morning max el	7940 Jan 07 11:35	0° る 39'32	17°54'18	morning set	7941 Jan 06 05:06	9° ⋜ 19'01	
morning set	7940 Jan 24 16:30	26° る 34'26					
	7940 Jan 26 17:30	0° ≈		superior conj	7941 Jan 17 19:50	29° る 23'39	-0°00'10
desc. node	7940 Jan 31 22:20	8° ≈ 38'19		minimum elong	7941 Jan 17 19:50	29° る 23'39	0°00'02
				behind sun begin	7941 Jan 17 11:13	28° る 47'28	
superior conj	7940 Feb 07 05:20	18° ≈ 51'41	-0°44'17	behind sun end	7941 Jan 18 04:28	29° る 59'45	
minimum elong	7940 Feb 07 00:13	18° ≈ 31′08	0°43'29	desc. node	7941 Jan 17 19:19	29° る 21'27	
max. Earth dist.	7940 Feb 11 21:06	26°≈16′18	1.45021 AU		7941 Jan 18 04:31	0° ≈	
	7940 Feb 14 05:59	0° ∀		max. Earth dist.	7941 Jan 24 14:01	10° ≈ 29'17	1.43862 AU
evening rise	7940 Feb 23 06:05	13° ¥ 57′50		evening rise	7941 Feb 01 18:04	23° ≈ 22'09	
	7940 Mar 04 19:23	0° Υ			7941 Feb 06 01:55	0° ∀	
greatest brilliancy	7940 Mar 09 01:45	6° Y 18'57	-0.6m		7941 Feb 27 02:49	0° Υ	
evening max el	7940 Mar 21 02:38	22° Y 01′19	20°05'55	evening max el	7941 Mar 04 01:18	5° Ƴ 39'54	21°13'50
asc. node	7940 Mar 25 00:25	25° Y 16′14		asc. node	7941 Mar 11 21:30	10° Ƴ 44'17	
retrograde	7940 Mar 28 19:40	26° Y 29'42		retrograde	7941 Mar 12 18:03	10° Y 48′04	
evening set	7940 Apr 01 15:34	25° Y ′04′26		evening set	7941 Mar 16 23:37	9° Ƴ 07'46	
inferior conj	7940 Apr 06 23:53	19° Ƴ 01'46	3°12'55	inferior conj	7941 Mar 22 07:01	2° Υ 53'28	2°51'22
minimum elong	7940 Apr 06 22:26	19° Y 06'40	3°12'41	minimum elong	7941 Mar 22 04:57	3° Y 00'41	2°50'54
min. Earth dist.	7940 Apr 07 20:46	17° Y 51′06	0.67504 AU	min. Earth dist.	7941 Mar 22 14:42	2° Y 26'47	0.68162 AU
morning rise	7940 Apr 12 05:04	12° Y 45'11			7941 Mar 24 10:05	30° ₹	
direct	7940 Apr 18 00:04	10° Y 10′04		morning rise	7941 Mar 27 10:04	26°) 39'40	
desc. node	7940 Apr 28 21:59	16° Y 24′08		direct	7941 Apr 01 15:24	24°) 22′08	
morning max el	7940 Apr 29 16:23	17° Y ′09'53	24°51'09		7941 Apr 11 11:50	0° Υ	
	7940 May 10 08:58	0°8		morning max el	7941 Apr 12 01:45	0° Y 34'35	23°21'46
	7940 May 30 04:06	0° П		desc. node	7941 Apr 15 18:58	4° Υ 38'31	
morning set	7940 Jun 04 16:14	9° Ⅱ 29'17			7941 May 04 06:14	0° 8	
max. Earth dist.	7940 Jun 08 07:08	16° Ⅱ 01′23	1.37049 AU	morning set	7941 May 17 00:58	20° 8 24'38	
				max. Earth dist.	7941 May 21 02:52	27° 8 23'37	1.39263 AU
superior conj	7940 Jun 14 21:18	28° Ⅱ 31'57			7941 May 22 14:33	Π °0	
minimum elong	7940 Jun 15 00:49	28° ∏ 49'10	0°57'27				
	7940 Jun 15 15:16	0.20		superior conj	7941 May 28 17:17	11° ∏ 04'45	
asc. node	7940 Jun 20 23:29	10°539'51		minimum elong	7941 May 28 22:33	11° Ⅱ 29'15	1°2/'54
evening rise	7940 Jun 23 07:48	15° © 23'03		evening rise	7941 Jun 07 03:13	29° Ⅱ 03'29	
. ,	7940 Jun 30 23:21	0°N	10027121	asc. node	7941 Jun 07 20:31	0° © 26'55	
evening max el	7940 Jul 10 06:35		19°27'21		7941 Jun 07 14:56	0°95	10040104
retrograde	7940 Jul 19 19:08	17° Ω 44'49		evening max el	7941 Jun 23 07:14	25°©10'46	18°40'04
evening set	7940 Jul 21 15:50	17° Ω 34'48		retrograde	7941 Jul 01 08:23	29°5510'15	
desc. node	7940 Jul 25 21:12	16° Ω 06'34	1921157	evening set	7941 Jul 03 09:57	28°955'24	0026100
inferior conj	7940 Jul 30 08:26	13° \O 28'24 13° \O 34'21		inferior conj	7941 Jul 11 07:14	24°931'17	
minimum elong min. Earth dist.	7940 Jul 30 04:44 7940 Aug 01 20:28		0.55677 AU	minimum elong desc. node	7941 Jul 11 08:13 7941 Jul 12 18:18	24°S29'26 23°S25'02	0°25'38
	•	8° Ω 53'52	0.55077 AU	min. Earth dist.	7941 Jul 12 18:18 7941 Jul 14 13:39	23 3 23 02 22° 9 04'57	0.57229 ATT
morning rise direct	7940 Aug 07 15:04 7940 Aug 12 11:32	8°Ω00'47		min. Earth dist.	7941 Jul 14 13:39 7941 Jul 19 02:58	19° © 19'38	0.57338 AU
morning max el	7940 Aug 12 11:32 7940 Aug 26 12:36	15° Ω 04'14	25006102	direct	7941 Jul 19 02:38 7941 Jul 24 19:48	17°958'54	
morning max er	7940 Aug 20 12:30 7940 Sep 07 10:11	0°M)	23 00 03	morning max el	7941 Jul 24 19.48 7941 Aug 08 04:21	25°931'55	26°34'46
asc. node	7940 Sep 07 10.11 7940 Sep 16 23:00	16° Mp 45'24		morning max er	7941 Aug 12 08:35	23 3 31 33	20 34 40
morning set	7940 Sep 10 23:00 7940 Sep 21 22:02	26° Mp 56'12			7941 Aug 31 14:43	0°Mp	
morning set	7940 Sep 21 22:02 7940 Sep 23 08:17	20 II/30 12 0° ჲ		asc. node	7941 Sep 03 19:59	6° Mp 24'19	
	77-10 Dep 23 00.17	· –		morning set	7941 Sep 05 19.39 7941 Sep 06 08:19	11° m) 38'50	
superior conj	7940 Sep 28 19:03	11° ≏ 56'05	1°34'46	morning set	, , 11 Sep 00 00.19	11 JU JU JU	
minimum elong	7940 Sep 28 17:30			superior conj	7941 Sep 13 06:35	26° Mp 47'31	1°23'14
max. Earth dist.	7940 Sep 28 17.30 7940 Sep 30 07:05	11 = 47 33 15° £ 13'13	1.32386 AU	minimum elong	7941 Sep 13 00:33	26° Mp 35'46	1°22'58
evening rise	7940 Sep 30 07.03 7940 Oct 05 23:06	13 ≗ 13 13 27° ≗ 16'29	1.52500 AU	max. Earth dist.	7941 Sep 13 04.27 7941 Sep 13 15:53	20 m/3546 27°m/39'05	1.31809 AU
2 , ching 1150	7940 Oct 03 23:00 7940 Oct 07 07:11	27 = 1029 0° M		max. Darth dist.	7941 Sep 13 13:33	ე∘ ი	1.51007 AU
desc. node	7940 Oct 21 20:06	26°M02'47		evening rise	7941 Sep 20 03:33	0 = 11° £ 45'22	
acce. noue	7940 Oct 24 10:31	0°×7		0.0mmg 1100	7941 Sep 29 11:16	0°M	
evening max el			27927146	desc. node	7941 Sep 29 11:10 7941 Oct 08 17:11	15°M02'46	
•	/940 NOV 0/ 1/45	יורור: 🗙 / ן	2/2/40	desc. node	/94 (JCI UA I/ II	1.) 1115(17/41)	
retrograde	7940 Nov 07 17:45 7940 Nov 21 12:10	17° ₹ 35'36 24° ₹ 52'04	27 27 40				27°02'05
retrograde evening set	7940 Nov 21 12:10 7940 Nov 28 14:49	24° ₹ 52'04 22° ₹ 24'41	27 27 40	evening max el	7941 Oct 08 17.11 7941 Oct 20 23:09 7941 Oct 21 01:19	29°M.54'55 0° ₹	27°02'05

retrograde	7941 Nov 03 20:46	7° ∡ '05'38		evening max el	7942 Oct 02 21:21	11°M25'12	26°02'59
evening set	7941 Nov 10 20:10	4° ₹ 57'50		retrograde	7942 Oct 16 19:44	18°M29'28	20 020)
min. Earth dist.	7941 Nov 14 13:46	2° √ 17'14	0.60679 AU	evening set	7942 Oct 23 05:15	16°M51'50	
	7941 Nov 17 06:59	30°RM		min. Earth dist.	7942 Oct 27 10:18	14°M16'53	0.58602 AU
inferior conj	7941 Nov 17 17:17	29°M38'06	-3°58'55	inferior conj	7942 Oct 30 13:59	11° M 58'14	-4°57'05
minimum elong	7941 Nov 18 00:17	29°M23'16	3°56'44	minimum elong	7942 Oct 30 20:32	11° M 46'09	4°55'45
morning rise	7941 Nov 25 06:46	24°M49'09		morning rise	7942 Nov 07 14:07	7° M 31'39	
direct	7941 Nov 27 11:55	24° M 29'47		direct	7942 Nov 09 21:18	7° M 14'11	
asc. node	7941 Nov 30 19:30	25° ™ 15'12		asc. node	7942 Nov 17 16:30	10°M49'25	
morning max el	7941 Dec 04 19:04	28° ™ 08'11	18°00'50	morning max el	7942 Nov 18 02:45	11°M13'32	18°33'34
	7941 Dec 06 12:32	0° ∡ 7			7942 Nov 30 13:21	0° ∡ ¹	
morning set	7941 Dec 20 10:58	22° ₹ 51'54		morning set	7942 Dec 04 04:53	6° ₹ 57'53	
	7941 Dec 24 07:39	0°ප					
				superior conj	7942 Dec 13 01:11	23° ₹ 53'35	1°06'44
superior conj	7941 Dec 30 11:44	11° る 08'03	0°37'47	minimum elong	7942 Dec 13 04:38	24° ₹ 09'40	1°06'25
minimum elong	7941 Dec 30 14:36	11° る 20'40	0°37'30		7942 Dec 16 08:59	0°ಕ	
desc. node	7942 Jan 04 16:19	20° る 06'55		max. Earth dist.	7942 Dec 20 10:01	7° る 10'25	1.40100 AU
max. Earth dist.	7942 Jan 07 02:15	24° る 10'06	1.42154 AU	desc. node	7942 Dec 22 13:18	10° る 51'10	
	7942 Jan 10 15:34	0° ≈		evening rise	7942 Dec 24 14:48	14° る 19'54	
evening rise	7942 Jan 12 18:08	3° ≈ 23'08			7943 Jan 03 10:12	0° ≈	
	7942 Jan 30 10:57	0° ∀			7943 Jan 25 11:55	0° ∀	
evening max el	7942 Feb 14 19:06	19° ∺ 20'41	22°30'39	evening max el	7943 Jan 28 09:42	3° ₩ 04'51	23°50'49
retrograde	7942 Feb 24 14:40	25°) €09'59		retrograde	7943 Feb 08 08:06	9° ∺ 31′03	
asc. node	7942 Feb 26 18:36	24°) (46'13		evening set	7943 Feb 13 12:52	7° ∺ 21'15	
evening set	7942 Mar 01 07:14	23°) 14'40		asc. node	7943 Feb 13 15:41	7° ∺ 15'13	
inferior conj	7942 Mar 06 15:36	16°) € 51'54	2°20'23	inferior conj	7943 Feb 18 23:45		1°40'47
minimum elong	7942 Mar 06 13:20	16°) € 59'49	2°19'44	minimum elong	7943 Feb 18 21:44	1° ∺ 00'38	1°40'09
min. Earth dist.	7942 Mar 06 11:08	17°)(07'27	0.68393 AU	min. Earth dist.	7943 Feb 18 07:43	1°) 48′22	0.68216 AU
morning rise	7942 Mar 11 19:16	10°) (42′24			7943 Feb 19 15:37	30°R≈	
direct	7942 Mar 16 10:33	8°) (46'16	21052152	morning rise	7943 Feb 24 06:36	24°≈50'08	
morning max el	7942 Mar 25 14:05	14°) (07'03	21°53'52	direct	7943 Feb 28 08:19	23°≈16'29	20024151
desc. node	7942 Apr 02 15:57	23°) 40′11 0° °		morning max el	7943 Mar 08 08:50	27°≈50'47 0°) €	20°34′51
marning gat	7942 Apr 07 07:44	0° 8 03'18		desc. node	7943 Mar 10 09:29 7943 Mar 20 12:54	13°) 16'03	
morning set	7942 Apr 27 06:20 7942 Apr 27 05:31	0°8		desc. node	7943 Mar 31 20:33	0°Υ	
max. Earth dist.	7942 Apr 27 03:31 7942 May 03 01:39	9° 8 32'39	1.41465 AU	morning set	7943 Mai 31 20:33 7943 Apr 06 11:08	8° Υ 36'38	
max. Latur dist.	7742 Way 05 01.57) 03237	1.41403 AC	max. Earth dist.	7943 Apr 15 07:58	22° Υ 38'19	1.43372 AU
superior conj	7942 May 10 18:41	22° 8 44'53	-1°54'11	max. Earth dist.	7943 Apr 19 20:12	0°8	1.43372710
minimum elong	7942 May 10 10:41	23° 8 09'28			7943 Apr 19 20.12	۰ ن	
minimum crong	7942 May 14 20:13	0°Ⅱ	1 33 17	superior conj	7943 Apr 21 20:54	3° 8 22'12	-2°09'39
evening rise	7942 May 21 11:07	12° ∏ 08'39		minimum elong	7943 Apr 21 23:36	3° 8 33'30	
asc. node	7942 May 25 17:34	19° Ⅱ 58'42		evening rise	7943 May 04 03:04	24° 8 28'06	
	7942 May 31 14:17	0°ತಾ		3	7943 May 07 06:33	0°Щ	
evening max el	7942 Jun 06 15:43	7° © 53'25	18°13'06	asc. node	7943 May 12 14:38	9° ∏ 09'00	
retrograde	7942 Jun 13 16:25	11° © 25'45		evening max el	7943 May 21 04:11	21° I I00'13	18°05'34
evening set	7942 Jun 16 01:31	11° © 02'08		retrograde	7943 May 27 16:03	24° Ⅱ 21′26	
inferior conj	7942 Jun 23 03:38	6°\$\$17'27	1°48'27	evening set	7943 May 30 08:34	23° Ⅱ 46′25	
minimum elong	7942 Jun 23 06:36	6°≌10'54	1°47'24	inferior conj	7943 Jun 05 18:53	18° Ⅱ 41'39	2°42'40
min. Earth dist.	7942 Jun 26 12:50	3°520'36	0.59464 AU	minimum elong	7943 Jun 05 21:42	18° Ⅱ 34'32	2°41'55
desc. node	7942 Jun 29 15:21	1° © 01'56		min. Earth dist.	7943 Jun 08 19:56	15° Ⅱ 38′25	0.61714 AU
morning rise	7942 Jun 30 08:41	0° © 35'27		morning rise	7943 Jun 12 08:49	12° Ⅱ 39'33	
	7942 Jul 01 11:11	30°Ŗ Ⅱ		desc. node	7943 Jun 16 12:24	10° ∏ 38'44	
direct	7942 Jul 06 17:36	28° Ⅱ 42'43		direct	7943 Jun 19 02:10	10° Ⅱ 18′23	
	7942 Jul 12 05:05	0		morning max el	7943 Jul 03 06:43	18° Ⅱ 18'55	27°55'24
morning max el	7942 Jul 21 02:21	6°≌33'57	27°33'43		7943 Jul 13 01:59	0ಂತಾ	
	7942 Aug 07 16:03	0 $^{\circ}\Omega$			7943 Jul 31 11:26	$0^{\circ}\Omega$	
morning set	7942 Aug 21 15:33	26° Ω 10'04		morning set	7943 Aug 05 17:45	10° Ω 23′20	
asc. node	7942 Aug 21 16:57	26° Ω 17'23		asc. node	7943 Aug 08 13:56	16° Ω 18'44	
P 4 "	7942 Aug 23 10:59	0° m/y	1.21/02 : **	max. Earth dist.	7943 Aug 11 10:09	22° Ω 25'14	1.32024 AU
max. Earth dist.	7942 Aug 28 02:11	10° Mp 07'07	1.31689 AU		7042 4 12 04 15	260 01 500 5	0045120
	7040 4 20 10 1	110 - 2	100644	superior conj	7943 Aug 13 04:16	26° Ω 15'16	0°45'30
superior conj	7942 Aug 28 18:16	11°Mp36'08	1°06'41	minimum elong	7943 Aug 13 02:24	26° Ω 05'00	0°45'03
minimum elong	7942 Aug 28 16:01	11° Mp 23'42	1°06'16	ovonii-	7943 Aug 14 21:10	0°Mp 11°m>07/24	
evening rise	7942 Sep 04 12:24	26° Mp 24'51		evening rise	7943 Aug 19 23:33	11° Mp 07'34	
	7942 Sep 06 05:09	0∘ m		dogo	7943 Aug 29 12:24	ეი. ი ია:აი	
desc. node	7942 Sep 23 06:09 7942 Sep 25 14:16	0°M 3°M10'10		desc. node evening max el	7943 Sep 12 11:20 7943 Sep 14 11:49	20° £ 03'39 22° £ 06'55	24°37'00
acse. Houc	1772 BCP 23 14.10	טו טו אוו כ		Cvening max er	1773 BCP 14 11.49	22 == 00 33	47 J/00

retrograde	7943 Sep 28 07:15	29° ഫ 03'32		desc. node	7944 Aug 29 08:26	5° ≏ 15'40	
evening set	7943 Oct 03 13:55	28° ≏ 01'28		retrograde	7944 Sep 08 06:35	9° 亞 00'09	
min. Earth dist.	7943 Oct 08 22:51	25° ≏ 13'53	0.56703 AU	evening set	7944 Sep 12 01:00	8° ≏ 29'04	
inferior conj	7943 Oct 11 14:35	23° ₽ 32'15	-5°30'46	min. Earth dist.	7944 Sep 19 07:39	5° Ω 11'15	0.55300 AU
minimum elong	7943 Oct 11 16:47	23° £ 28'42	5°30'36	inferior conj	7944 Sep 20 19:51	4° ≙ 19'06	-5°21'03
morning rise	7943 Oct 19 21:51	19° ≏ 27'56		minimum elong	7944 Sep 20 14:42	4° £ 26'33	5°20'28
direct	7943 Oct 22 12:01	19° ഫ 09'32		morning rise	7944 Sep 29 06:30	0° ჲ 29'38	
morning max el	7943 Nov 01 00:21	23° △ 39'29	19°28'18	direct	7944 Oct 02 07:41	0° ჲ 07'50	
asc. node	7943 Nov 04 13:30	27° ≏ 37'02		morning max el	7944 Oct 13 09:24	5° ≏ 18'24	20°45'21
	7943 Nov 06 07:43	0°M₊		asc. node	7944 Oct 21 10:29	15° ≏ 22'40	
morning set	7943 Nov 18 06:59	21°M25'57			7944 Oct 29 13:58	0° ™	
	7943 Nov 22 13:10	0° ∡		morning set	7944 Nov 01 14:21	6°M07'26	
superior conj	7943 Nov 26 07:05	7° ∡ ¹26'21	1°26'27	superior conj	7944 Nov 09 00:51	21°M32'49	1°37'45
minimum elong	7943 Nov 26 09:47	7° √ 39'38	1°26'19	minimum elong	7944 Nov 09 02:17	21°M40'08	1°37'46
max. Earth dist.	7943 Dec 02 15:51	19° ∡ ³32'11	1.37935 AU		7944 Nov 13 05:54	0° ∡ 7	
evening rise	7943 Dec 06 09:19	26° ⊀ 14'42		max. Earth dist.	7944 Nov 14 00:01	1° ₹ '28'36	1.35906 AU
C	7943 Dec 08 13:07	0° ට		evening rise	7944 Nov 17 23:01	9° ₹ 00′26	
desc. node	7943 Dec 09 10:18	1° る 30'38		desc. node	7944 Nov 25 07:19	22° х 00′43	
	7943 Dec 27 23:31	0° ≈			7944 Nov 30 04:39	ರ°0	
evening max el	7944 Jan 10 22:53	16° ≈ 51'54	25°07'46		7944 Dec 22 20:35	0° ≈	
retrograde	7944 Jan 22 21:22	23° ≈ 46'45		evening max el	7944 Dec 23 11:49	0° ≈ 37'28	26°14'22
evening set	7944 Jan 28 14:59	21° ≈ 23'58		retrograde	7945 Jan 05 05:44	7° ≈ 50′28	
asc. node	7944 Jan 31 12:44	18° ≈ 23'13		evening set	7945 Jan 11 11:52	5° ≈ 18′01	
min. Earth dist.	7944 Feb 02 02:13	16° ≈ 25'44	0.67647 AU	min. Earth dist.	7945 Jan 15 16:27	0° ≈ 54'27	0.66704 AU
inferior conj	7944 Feb 03 05:40	14° ≈ 56′11	0°53'10		7945 Jan 16 10:17	30°Rる	
minimum elong	7944 Feb 03 04:24	15° ≈ 00'17	0°52'46	inferior conj	7945 Jan 17 07:23	28° る 54'58	
morning rise	7944 Feb 08 18:07	9° ≈ 00'07		minimum elong	7945 Jan 17 07:26	28° る 54'49	0°01'52
direct	7944 Feb 12 07:18	7° ≈ 47'40		transit middle	7945 Jan 17 07:26	28° る 54'49	0°01'52
morning max el	7944 Feb 19 11:40	11°≈46'59	19°29'15	transit begin	7945 Jan 17 04:35	29° る 03'35	
greatest brilliancy	7944 Mar 03 07:30	28°≈38'49	-0.7m	transit end	7945 Jan 17 10:17	28° る 46'04	
desc. node	7944 Mar 04 05:20	0° 		asc. node	7945 Jan 17 09:48 7945 Jan 23 03:44	28°る47'32 23°る08'28	
morning set	7944 Mar 06 09:49 7944 Mar 15 09:06	16°) 59'18		morning rise direct	7945 Jan 26 05:55	23 308 28 22° る 14'20	
morning set	7944 Mar 23 18:12	10 γ (3918		morning max el	7945 Feb 01 21:43	25° ප් 51'07	18°39'12
max. Earth dist.	7944 Mar 27 21:28	6° Υ 30'18	1.44741 AU	morning max ci	7945 Feb 05 12:38	25° ⊘ 5107	10 37 12
max. Dartii dist.	// 11 Mai 2/ 21.20	0 1 30 10	1.117111110	desc. node	7945 Feb 21 06:45	23°≈35'26	
superior conj	7944 Mar 31 22:25	12° Y 55'50	-2°08'48	morning set	7945 Feb 23 00:09	26°≈18'22	
minimum elong	7944 Mar 31 18:37	12° Ƴ 40'37	2°08'43	C	7945 Feb 25 08:29	0°) €	
_	7944 Apr 11 09:46	9° 8		max. Earth dist.	7945 Mar 10 15:07	20°) 48′37	1.45431 AU
evening rise	7944 Apr 14 22:34	5° 8 53'20					
asc. node	7944 Apr 28 11:42	27° 8 51'03		superior conj	7945 Mar 11 05:54	21°) 46′33	-1°47'49
	7944 Apr 30 00:37	$\Pi^{\circ}0$		minimum elong	7945 Mar 10 20:41	21° ¥ 10′25	1°47'01
evening max el	7944 May 03 17:24	4° Ⅱ 23'21	18°16'52		7945 Mar 16 11:36	0° Y	
retrograde	7944 May 10 02:48	7° ∏ 48'02		evening rise	7945 Mar 26 18:31	16° Ƴ 19'37	
evening set	7944 May 13 02:23	7° Ⅱ 00'04		greatest brilliancy	7945 Apr 03 16:29	28° Y 58′08	-0.9m
inferior conj	7944 May 19 01:00	1° Ⅱ 36'55		,	7945 Apr 04 08:07	0°8	
minimum elong	7944 May 19 02:39	1° ∏ 32'13	3°12'31	asc. node	7945 Apr 15 08:47	15° 8 55'06	10047110
min. Earth dist.	7944 May 20 11:03 7944 May 21 12:27	30°R と 28° と 49'10	0.63809 AU	evening max el	7945 Apr 17 04:37	17° 8 55'20 21° 8 36'21	18°46'18
morning rise	7944 May 21 12.27 7944 May 25 01:46	25° 8 23'52	0.03809 AU	retrograde evening set	7945 Apr 23 20:29 7945 Apr 27 03:18	20° 8 34'30	
direct	7944 May 31 19:45	23° 8 43'38		inferior conj	7945 May 02 17:59	14° 8 54'44	3°24'05
desc. node	7944 Jun 02 09:24	22° 8 51'30		minimum elong	7945 May 02 17:35	14° 8 53'53	3°24'00
dese. node	7944 Jun 13 21:32	0°II		min. Earth dist.	7945 May 04 14:08	12° 8 38'13	0.65576 AU
morning max el	7944 Jun 14 15:38	0° Ⅱ 44'47	27°39'29	morning rise	7945 May 08 08:36	8° 8 37'23	
S	7944 Jul 06 04:15	0°9		direct	7945 May 14 20:57	5° 8 50'06	
morning set	7944 Jul 19 12:35	24°512'34		desc. node	7945 May 20 06:23	7° 8 23'36	
	7944 Jul 22 09:20	$0^{\circ}\Omega$		morning max el	7945 May 28 02:08	13° 8 39'44	26°51'19
max. Earth dist.	7944 Jul 24 11:51	4° Ω 22'43	1.32832 AU		7945 Jun 10 07:12	Π °0	
asc. node	7944 Jul 25 10:55	6° Ω 24'24			7945 Jun 28 20:34	0 \circ \odot	
				morning set	7945 Jul 02 21:03	7° 5 29'31	
superior conj	7944 Jul 27 10:45	10° Ω 39'48	0°20'11	max. Earth dist.	7945 Jul 07 03:45	15° © 52'24	1.34118 AU
minimum elong	7944 Jul 27 09:47	10° Ω 34'37	0°19'52				
evening rise	7944 Aug 03 11:09	25° Ω 48′08		superior conj	7945 Jul 11 11:32	24°5643'51	
	7944 Aug 05 11:02	0° m/		minimum elong	7945 Jul 11 12:00	24°5546'19	0°08'38
avanie 1	7944 Aug 23 17:16	0∘ 亞	22050117	behind sun begin	7945 Jul 11 07:09	24°921'00	
evening max el	7944 Aug 25 23:10	2° £ 21'03	22-38.10	behind sun end	7945 Jul 11 16:52	25°©11'40	

asc. node	7945 Jul 12 07:56	26° © 30'30		minimum elong	7946 Jun 25 06:17	8° © 31'31	0°39'22
	7945 Jul 13 23:44	$0^{\circ}\Omega$		asc. node	7946 Jun 29 04:58	16° © 32'37	
evening rise	7945 Jul 18 21:18	10° Ω 21′01		evening rise	7946 Jul 03 03:50	24° © 39'20	
	7945 Jul 29 03:14	0° m			7946 Jul 05 19:21	$0^{\circ}\Omega$	
evening max el	7945 Aug 07 16:32	12° m 44'33	21°23'31	evening max el	7946 Jul 20 22:13	23° Ω 44′29	20°04'04
desc. node	7945 Aug 16 05:30	18° m 14'31		retrograde	7946 Jul 31 10:10	28° Ω 54'57	
retrograde	7945 Aug 19 20:28	18° m 46'19		evening set	7946 Aug 02 07:47	28° Ω 45'32	
evening set	7945 Aug 22 07:37	18° Mp 32′21		desc. node	7946 Aug 03 02:36	28° Ω 36′23	
inferior conj	7945 Aug 31 13:29	14° Mp 34'24	-4°16'33	inferior conj	7946 Aug 11 09:03	24° Ω 46'30	
minimum elong	7945 Aug 31 04:01	14° Mp 47'40	4°14'05	minimum elong	7946 Aug 11 02:12	24° Ω 56'45	2°27'23
min. Earth dist.	7945 Aug 31 16:40	14° m 29'55	0.54697 AU	min. Earth dist.	7946 Aug 13 03:35	23° Ω 42'55	0.55057 AU
morning rise	7945 Sep 09 01:14	10° Mp 42′22		morning rise	7946 Aug 19 19:08	20° Ω 31′50	
direct	7945 Sep 12 16:33	10° Mp 13′45		direct	7946 Aug 24 04:23	19° Ω 49'58	
morning max el	7945 Sep 25 06:25	16° Mp 11'28	22°21'19	morning max el	7946 Sep 06 19:54	26° Ω 31'59	24°06'51
_	7945 Oct 06 00:15	0∘ ⊽			7946 Sep 10 04:02	0°Щ	
asc. node	7945 Oct 08 07:28	3° £ 53'06		asc. node	7946 Sep 25 04:27	22° m 56'39	
morning set	7945 Oct 17 00:51	20° £ 56'19			7946 Sep 28 18:12	0∘ ⊽	
	7945 Oct 21 06:57	0° M		morning set	7946 Oct 01 12:34	5° ≏ 46′23	
superior conj	7945 Oct 24 02:56	6°ML02'33	1°41'36	superior conj	7946 Oct 08 10:25	20° ≏ 45'49	1°38'57
minimum elong	7945 Oct 24 03:02	6°M03'03	1°41'41	minimum elong	7946 Oct 08 09:22	20° ≏ 40'09	1°38'58
max. Earth dist.	7945 Oct 27 15:09	13°M22'32	1.34205 AU	max. Earth dist.	7946 Oct 10 14:50	25° ≏ 28'59	1.32925 AU
evening rise	7945 Nov 01 04:05	22°M27'43			7946 Oct 12 17:53	0° M	
	7945 Nov 05 03:43	0° ∡ ¹		evening rise	7946 Oct 15 20:39	6°M25'32	
desc. node	7945 Nov 12 04:24	12° ∡ 16′24			7946 Oct 28 17:25	0°⊀	
	7945 Nov 23 22:15	5°0		desc. node	7946 Oct 30 01:29	2° х 10′06	
evening max el	7945 Dec 06 00:56	14° る 14'55	27°03'18	evening max el	7946 Nov 18 13:02	27° ∡ ³32'32	27°27'32
retrograde	7945 Dec 19 08:29	21° る 35'02			7946 Nov 21 07:58	0°ಕ	
evening set	7945 Dec 26 01:29	18° る 58'25		retrograde	7946 Dec 02 04:43	4° る 51'09	
min. Earth dist.	7945 Dec 30 00:14	15° る 09'01	0.65404 AU	evening set	7946 Dec 09 05:17	2° る 18'01	
inferior conj	7946 Jan 01 02:48	12° る 45'54			7946 Dec 11 22:55	30°₹ ⋌ 7	
minimum elong	7946 Jan 01 04:40	12° る 40'36	1°03'00	min. Earth dist.	7946 Dec 12 23:24	29° ₰ 00'37	0.63770 AU
asc. node	7946 Jan 04 06:50	9° る 25'03		inferior conj	7946 Dec 15 13:18	26° ≯ 22'12	
morning rise	7946 Jan 07 09:06	7° る 11'21		minimum elong	7946 Dec 15 17:22	26° √ 11'44	2°09'20
direct	7946 Jan 10 02:10	6° る 31'44		morning rise	7946 Dec 22 07:13	21°×702'36	
morning max el	7946 Jan 16 12:49	9° る 57'08	18°05'44	asc. node	7946 Dec 22 03:53	21° ₹ 05'58	
	7946 Jan 30 12:16	0° ≈		direct	7946 Dec 24 17:27	20° ₹ 33'35	
morning set	7946 Feb 03 20:26	7°≈05'50		morning max el	7946 Dec 31 06:03	23° ₹ 57'05	17°49'31
desc. node	7946 Feb 08 03:43	14°≈06'55			7947 Jan 05 03:14	0°る	
	7946 Feb 18 01:47	0° ∀		morning set	7947 Jan 16 20:10	19°₹13'34	
	7046 F. J. 10 10 41	001/ 12/00	1000157		7947 Jan 23 04:05	0°≈	
superior conj	7946 Feb 18 12:41	0°\(\frac{1}{43}\)'00		desc. node	7947 Jan 26 00:43	4° ≈ 46'47	
minimum elong	7946 Feb 18 04:38	0°) 11'16 5°) 17'29	1°08'54		7047 I 20 12-42	10022122	0925110
max. Earth dist. evening rise	7946 Feb 21 10:27 7946 Mar 06 17:11	25° H 57'38	1.45384 AU	superior conj minimum elong	7947 Jan 29 12:43 7947 Jan 29 09:56	10°≈32'22 10°≈21'02	0°24'39
evening rise	7946 Mar 09 07:50	25 χ 57 58		max. Earth dist.	7947 Jan 29 09:30 7947 Feb 04 05:12	10 ≈21 02 19°≈41'48	1.44608 AU
greatest brilliancy	7946 Mar 19 16:23	15° Υ 50'19	-0.7m	max. Earm dist.	7947 Feb 04 03:12 7947 Feb 10 18:43	0°) (1.44008 AU
greatest orimancy	7946 Mar 30 01:40	0° 8	-0.7111	evening rise	7947 Feb 14 04:44	5°) 16'25	
evening max el	7946 Mar 31 11:49	1° 8 31'52	19°32'34	evening rise	7947 Mar 02 17:52	0°Υ	
asc. node	7946 Apr 02 05:52	3° 8 09'47	1, 323.	evening max el	7947 Mar 14 13:48	15° Υ 10'38	20°33'29
retrograde	7946 Apr 07 17:46	5° 8 40'12		asc. node	7947 Mar 20 02:56	19° Υ 21'29	20 33 27
evening set	7946 Apr 11 08:35	4° 8 23'43		retrograde	7947 Mar 22 16:16	19° Y 54'56	
	7946 Apr 15 14:35	30°RY		evening set	7947 Mar 26 16:09	18° Y 23'20	
inferior conj	7946 Apr 16 18:29	28° Y 29'04	3°20'32	inferior conj	7947 Mar 31 23:51	12° Y 15'39	3°05'00
minimum elong	7946 Apr 16 17:34	28° Y 32'06	3°20'23	minimum elong	7947 Mar 31 22:05	12° Υ 21'43	3°04'40
min. Earth dist.	7946 Apr 17 23:39	26° Y 52'57	0.66931 AU	min. Earth dist.	7947 Apr 01 15:01	11° Y 23'38	0.67843 AU
morning rise	7946 Apr 22 02:13	22°Υ11'30		morning rise	7947 Apr 06 03:47	6°Υ00'13	
direct	7946 Apr 28 04:28	19° Y 28′56		direct	7947 Apr 11 17:14	3° Y 31'42	
desc. node	7946 May 07 03:23	23° Y 43'43		morning max el	7947 Apr 22 20:54	10° Y 11′56	24°13'28
morning max el	7946 May 10 11:57	26° Ƴ 51'16	25°39'17	desc. node	7947 Apr 24 00:22	11° Y 23'16	
-	7946 May 13 10:10	0°8			7947 May 08 13:28	0°8	
	7946 Jun 03 22:05	$\Pi^{\circ}0$			7947 May 27 14:58	0°Ⅲ	
morning set	7946 Jun 15 15:06	20° Ⅲ 02′26		morning set	7947 May 28 13:38	1° Ⅱ 37'48	
max. Earth dist.	7946 Jun 19 08:33	26° Ⅱ 58'42	1.35869 AU	max. Earth dist.	7947 Jun 01 05:52	8° Ⅱ 06'56	1.37980 AU
	7946 Jun 20 22:26	0°€					
				superior conj	7947 Jun 08 08:36	21° Ⅱ 19′05	
superior conj	7946 Jun 25 03:56	8° 5 19'44	-0°39'41	minimum elong	7947 Jun 08 12:57	21° Ⅱ 39'53	1°10'39

	7947 Jun 12 19:46	0°9		superior conj	7948 May 20 21:15	3° П 30'52	1940'15
asc. node	7947 Jun 12 19:40 7947 Jun 16 02:00	6° 9 26'50		minimum elong	7948 May 21 02:56	3° I I56'40	
evening rise	7947 Jun 17 04:14	8°936'29		evening rise	7948 May 30 19:14	22° I I03'20	1 3943
evening rise	7947 Jun 29 04:17	0°Ω		asc. node	7948 Jun 01 23:02	26° I 108'07	
avanina may al		5° Ω 28'55	19°04'40	asc. Houe	7948 Jun 04 00:49	20 п 0007	
evening max el	7947 Jul 03 16:44	9°Ω50'46	19-04-40			17° 9 52'15	18°26'02
retrograde	7947 Jul 12 12:46			evening max el	7948 Jun 15 21:06		18-26-02
evening set	7947 Jul 14 11:06	9° Ω 39'07		retrograde	7948 Jun 23 10:25	21°538'28	
desc. node	7947 Jul 20 23:40	6° Ω 39'43	0022125	evening set	7948 Jun 25 15:06	21°920'16	1004126
inferior conj	7947 Jul 22 19:48	5° Ω 25'42		inferior conj	7948 Jul 03 03:54	16°547'02	1°04'36
minimum elong	7947 Jul 22 18:22	5° Ω 28'10		minimum elong	7948 Jul 03 06:04	16°542'41	1°03'43
min. Earth dist.	7947 Jul 25 17:41	3° Ω 26'32	0.56313 AU	min. Earth dist.	7948 Jul 06 12:59	14°505'09	0.58210 AU
morning rise	7947 Jul 30 22:32	0° £ 35'37		desc. node	7948 Jul 06 20:44	13°950'30	
	7947 Aug 01 17:02	30° ₹ 5		morning rise	7948 Jul 10 17:39	11° © 21'14	
direct	7947 Aug 05 04:06	29° © 31'42		direct	7948 Jul 16 17:55	9° © 47'21	
	7947 Aug 08 15:24	0 \circ Ω		morning max el	7948 Jul 31 03:22	17° © 28'44	27°04'11
morning max el	7947 Aug 19 09:02	6° Ω 48'16	25°46'37		7948 Aug 10 12:41	0 $^{\circ}$ Ω	
	7947 Sep 05 10:13	0° m			7948 Aug 27 21:00	0°Щ	
asc. node	7947 Sep 12 01:27	12° m 24'54		asc. node	7948 Aug 28 22:27	2°Mp10'36	
morning set	7947 Sep 15 23:51	20° m 33'07		morning set	7948 Aug 30 09:04	5°Mp11'37	
	7947 Sep 20 08:11	0∘ ⊽					
				superior conj	7948 Sep 06 08:48	20° Mp 26'30	1°16'47
superior conj	7947 Sep 22 21:01	5° £ 35'50	1°30'30	minimum elong	7948 Sep 06 06:35	20°M/14'08	1°16'27
minimum elong	7947 Sep 22 19:10	5° £ 25'40	1°30'20	max. Earth dist.	7948 Sep 06 07:25	20° Mp 18'49	1.31704 AU
max. Earth dist.	7947 Sep 23 21:22	7° £ 50'03	1.32093 AU		7948 Sep 10 16:47	0∘ ত	
evening rise	7947 Sep 29 21:32	20° ≏ 45'13		evening rise	7948 Sep 13 04:06	5° ≏ 19'11	
	7947 Oct 04 11:47	0°M			7948 Sep 26 03:31	0°M	
desc. node	7947 Oct 16 22:33	21°M32'55		desc. node	7948 Oct 02 19:37	10° ™ 12'44	
	7947 Oct 22 21:18	0° ∡ ¹		evening max el	7948 Oct 13 00:13	22°M15'31	26°40'45
evening max el	7947 Oct 31 21:44	10° ∡ 16'44	27°21'02	retrograde	7948 Oct 26 22:03	29°M23'22	
retrograde	7947 Nov 14 17:30	17° ∡ ¹29'54		evening set	7948 Nov 02 17:18	27°M26'59	
evening set	7947 Nov 21 19:57	15° ₹ 09'45		min. Earth dist.	7948 Nov 06 14:00	24°M51'15	0.59790 AU
min. Earth dist.	7947 Nov 25 12:08	12° ∡ 18'51	0.61864 AU	inferior conj	7948 Nov 09 18:57	22°M18'36	-4°25'34
inferior conj	7947 Nov 28 11:49	9° ∡ ³36′04		minimum elong	7948 Nov 10 02:09	22°M04'16	
minimum elong	7947 Nov 28 18:02	9° ×7 21'56	3°18'06	morning rise	7948 Nov 17 13:19	17°M39'16	
morning rise	7947 Dec 05 18:14	4° × ⁷ 34'58	3 10 00	direct	7948 Nov 19 18:53	17°M21'00	
direct	7947 Dec 08 00:25	4°×712'54		asc. node	7948 Nov 24 21:57	19°ML03'00	
asc. node	7947 Dec 08 00:25 7947 Dec 09 00:55	4°×17'33		morning max el	7948 Nov 27 10:16	21°M06'46	18°12'17
morning max el	7947 Dec 09 00:33 7947 Dec 14 22:19	7°×743'05	17°51'16	morning max ci	7948 Dec 04 04:09	21 11 0 00 40	16 12 17
morning max ci	7947 Dec 14 22:19 7947 Dec 29 09:34	0°る	17 31 10	morning set	7948 Dec 04 04:09 7948 Dec 13 04:21	16° ₹ 109'22	
morning set	7947 Dec 29 09:34 7947 Dec 30 16:48	0 3 2° る 20'37		morning set	7948 Dec 13 04.21 7948 Dec 20 13:51	10 メ ・09 22	
morning set	7947 Dec 30 10.46	2 02037			7946 Dec 20 13.31	0.0	
	7049 I 10 14-00	210=225110	001750		7049 Dec 22 15.52	20=17152	0°51'13
superior conj	7948 Jan 10 14:09 7948 Jan 10 15:41	21° る 35'10		superior conj	7948 Dec 22 15:53 7948 Dec 22 19:13	3°る47'52 4°る02'55	
minimum elong		21°₹41'43	0°16'52	minimum elong			0°50'53
desc. node	7948 Jan 12 21:42	25° る 31'03		desc. node	7948 Dec 29 18:41	16°る16'36 17°る09'47	1 41202 ATT
To all the	7948 Jan 15 14:07	0°≈	1 42102 411	max. Earth dist.	7948 Dec 30 07:13		1.41303 AU
max. Earth dist.	7948 Jan 17 20:44	3°≈44'15	1.43193 AU	evening rise	7949 Jan 04 04:31	25° ප 15'54	
evening rise	7948 Jan 24 20:17	14°≈52'34			7949 Jan 07 03:17	0° ≈	
	7948 Feb 03 18:40	0°) (50100	21045144		7949 Jan 27 14:38	0° ∀	2200 4120
evening max el	7948 Feb 25 10:17	28° ¥ 50′08	21°45'44	evening max el	7949 Feb 07 02:22	12°) € 31'53	23°04'39
	7948 Feb 26 14:55	0° Υ		retrograde	7949 Feb 17 09:30	18°) (38′01	
retrograde	7948 Mar 05 13:59	4°Υ15'31		asc. node	7949 Feb 20 21:04	17°) € 37′29	
asc. node	7948 Mar 06 00:00	4° Υ 14'37		evening set	7949 Feb 22 07:11	16° ∺ 36'10	
evening set	7948 Mar 10 00:12	2° Y 28'35		inferior conj	7949 Feb 27 16:25	10°) 10'42	
	7948 Mar 12 10:32	30° ₹		minimum elong	7949 Feb 27 14:11	10° ★ 18'23	2°03'56
inferior conj	7948 Mar 15 07:48	26° ₩ 10'22	2°39'18	min. Earth dist.	7949 Feb 27 06:52	10°) (43′39	0.68363 AU
minimum elong	7948 Mar 15 05:35	26° ∺ 18′05	2°38'46	morning rise	7949 Mar 04 21:08	4°) €03'38	
min. Earth dist.	7948 Mar 15 10:09	26° ₩ 02'12	0.68313 AU	direct	7949 Mar 09 06:28	2° ₩ 17'19	
morning rise	7948 Mar 20 10:49	19°) 58′30		morning max el	7949 Mar 17 21:59	7° ₩ 17'25	21°18'55
direct	7948 Mar 25 10:10	17°) 49′53		desc. node	7949 Mar 27 18:17	19° ∺ 17'07	
morning max el	7948 Apr 04 07:06	23°) 39′40	22°43'47		7949 Apr 04 07:26	0 ° \mathbf{Y}	
desc. node	7948 Apr 09 21:20	29° ∺ 59'33		morning set	7949 Apr 18 04:56	21° Y 08'53	
	7948 Apr 09 21:29	$0^{\circ}\mathbf{\Upsilon}$			7949 Apr 23 17:35	9° 8	
	7948 Apr 30 22:56	9° 8		max. Earth dist.	7949 Apr 25 04:36	2° 8 23'07	1.42328 AU
morning set	7948 May 08 11:03	12° 8 01'05					
max. Earth dist.	7948 May 13 02:43	19° 8 49'13	1.40226 AU	superior conj	7949 May 02 13:13	14° 8 44'56	-2°02'20
	7948 May 18 22:28	$\Pi^{\circ}0$		minimum elong	7949 May 02 18:05	15° 8 05'48	2°02'09
					7949 May 11 04:39	$\Pi^{\circ}0$	

evening rise	7949 May 13 20:57	4° Ⅱ 50'37		superior conj	7950 Apr 13 04:47	24° Ƴ 54'18	-2°11'38
asc. node	7949 May 19 20:04	15° Ⅱ 31'37		minimum elong	7950 Apr 13 05:03	24° Y 55'21	2°11'41
	7949 May 29 13:46	0 \circ \odot			7950 Apr 16 06:59	$0^{\circ}S$	
evening max el	7949 May 30 07:38	0° 9 46'01	18°07'28	evening rise	7950 Apr 26 04:43	16° 8 47'48	
retrograde	7949 Jun 06 01:44	4° © 12'05			7950 May 03 22:11	$\Pi^{\circ}0$	
evening set	7949 Jun 08 13:53	3°5544'01		asc. node	7950 May 06 17:07	4° Ⅱ 31'04	
	7949 Jun 14 02:38	30°RⅡ		evening max el	7950 May 13 20:51	14° Ⅱ 01'12	18°08'10
inferior conj	7949 Jun 15 08:49	28° ∏ 50′38	2°14'40	retrograde	7950 May 20 06:34	17° Ⅱ 22'10	
minimum elong	7949 Jun 15 11:55	28° ∏ 43′22	2°13'42	evening set	7950 May 23 02:02	16° Ⅱ 41'54	
min. Earth dist.	7949 Jun 18 15:32	25° Ⅱ 47'53	0.60423 AU	inferior conj	7950 May 29 06:56	11° Ⅱ 29'27	2°58'03
morning rise	7949 Jun 22 07:16	22° II 58'23		minimum elong	7950 May 29 09:20	11° II 23'05	2°57'29
desc. node	7949 Jun 23 17:46	22° I 109'25		min. Earth dist.	7950 Jun 01 02:46	8° Ⅱ 30'07	0.62635 AU
direct	7949 Jun 28 20:36	20° Ⅲ 52'41	250 45120	morning rise	7950 Jun 04 14:57	5° Ⅱ 21'41	
morning max el	7949 Jul 13 04:28	28° Ⅱ 49'41	2/°4/'39	desc. node	7950 Jun 10 14:46	2°II52'34	
	7949 Jul 14 08:07	0。 Ư 0。ௐ		direct	7950 Jun 11 09:34 7950 Jun 25 11:02	2° Ⅱ 50'38 10° Ⅱ 53'19	27052156
morning set	7949 Aug 04 09:41 7949 Aug 14 14:25	0° δ ℓ 19° Ω 36'07		morning max el	7950 Jun 25 11:02 7950 Jul 10 11:02	0°©	27-32/36
asc. node	7949 Aug 14 14:25 7949 Aug 15 19:25	19 ∂ €3007 22° Ω 07'48			7950 Jul 27 17:40	0° U	
asc. node	7949 Aug 13 19.23 7949 Aug 19 11:17	0° Mp		morning set	7950 Jul 27 17:40 7950 Jul 29 13:51	3° Ω 40'45	
max. Earth dist.	7949 Aug 19 11:17 7949 Aug 20 17:09	2° Mp 43'48	1.31771 AU	asc. node	7950 Aug 02 16:23	12° Ω 11'57	
max. Lattii dist.	7747 Aug 20 17.07	ک ا دارایا ک	1.51771 AC	max. Earth dist.	7950 Aug 02 10:25 7950 Aug 03 22:46	14°Ω54'04	1.32306 AU
superior conj	7949 Aug 21 20:00	5° Mp 11'46	0°58'14	max. Lattii dist.	7750 Aug 05 22.40	17 063707	1.52500 AC
minimum elong	7949 Aug 21 17:51	4° m 59'54	0°57'47	superior conj	7950 Aug 06 04:48	19° Ω 46'15	0°35'16
evening rise	7949 Aug 28 14:08	20° m 00'31	0 37 17	minimum elong	7950 Aug 06 03:15	19° Ω 37'48	
e vennig rise	7949 Sep 02 10:05	0∘ ʊ		g	7950 Aug 10 21:12	0° m)	0 3.00
desc. node	7949 Sep 19 16:42	27° £ 51'47		evening rise	7950 Aug 13 01:45	4° Mp 43'33	
	7949 Sep 21 12:30	0°M			7950 Aug 26 10:58	0∘ ಹ	
evening max el	7949 Sep 24 18:42	3°M23'12	25°28'59	evening max el	7950 Sep 06 07:04	13° ≏ 50'25	23°55'37
retrograde	7949 Oct 08 16:47	10°M25'42		desc. node	7950 Sep 06 13:47	14° ≙ 06'27	
evening set	7949 Oct 14 16:23	9°M02'46		retrograde	7950 Sep 19 23:19	20° ≏ 41'29	
min. Earth dist.	7949 Oct 19 06:45	6°M24'46	0.57747 AU	evening set	7950 Sep 24 14:49	19° ≙ 54'08	
inferior conj	7949 Oct 22 07:16	4° M 19'41	-5°15'31	min. Earth dist.	7950 Sep 30 17:38	16° ≙ 55'19	0.56026 AU
minimum elong	7949 Oct 22 12:32	4°M10'34	5°14'44	inferior conj	7950 Oct 02 23:19	15° ≙ 33'43	-5°33'01
morning rise	7949 Oct 30 11:00	0°M03'14		minimum elong	7950 Oct 02 22:31	15° ≏ 34'56	5°32'59
	7949 Oct 30 16:43	30° ₹ Ω		morning rise	7950 Oct 11 08:22	11° ≏ 36'48	
direct	7949 Nov 01 20:21	29° ≙ 45'51		direct	7950 Oct 14 02:40	11° ≏ 17'19	
	7949 Nov 03 22:46	0°M₊		morning max el	7950 Oct 24 06:41	16° ≙ 04'01	19°58'20
morning max el	7949 Nov 10 14:11	3°M57'02	18°54'10	asc. node	7950 Oct 29 15:57	22° ≙ 24'37	
asc. node	7949 Nov 11 18:57	5°M10'24			7950 Nov 03 11:09	0° M ₊	
	7949 Nov 26 20:55	0° ∡		morning set	7950 Nov 11 06:48	15°ML00'05	
morning set	7949 Nov 27 02:08	0° ≯ 25'35			7950 Nov 18 15:42	0° ∡ ¹	
superior conj	7949 Dec 05 12:57	16° ₹ 55′20	1°16'11	superior conj	7950 Nov 19 00:25		1°32'11
minimum elong	7949 Dec 05 16:12	17° 🗷 10'48	1°15'56	minimum elong	7950 Nov 19 02:37	0° 🖈 54'37	1°32'09
max. Earth dist.	7949 Dec 12 13:12	29° ₹ 50'39	1.39169 AU	max. Earth dist.	7950 Nov 24 19:08	11° 🗷 57'39	1.37047 AU
	7949 Dec 12 15:19	0°궁 6°궁37'38		evening rise	7950 Nov 28 13:49	18° ₹ 55'27 27° ₹ 35'10	
evening rise desc. node	7949 Dec 16 10:37 7949 Dec 16 15:41	6° る 59'14		desc. node	7950 Dec 03 12:42 7950 Dec 04 23:08	2/°×'3310	
desc. Hode	7949 Dec 31 03:51	0°≈			7950 Dec 04 23:08 7950 Dec 25 08:15	0°≈	
evening max el	7950 Jan 20 15:58	0 ~ 26° ≈ 16'38	24°24'22	evening max el	7951 Jan 03 05:05	0 ~ 10° ≈ 03'49	25°37'53
evening max er	7950 Jan 24 21:59	0° \	24 24 22	retrograde	7951 Jan 15 12:42	10 ≈03 4) 17°≈07'41	25 57 55
retrograde	7950 Feb 01 01:25	2° ¥ 57'05		evening set	7951 Jan 21 11:36	14°≈40'36	
evening set	7950 Feb 06 11:31	0°) 41′29		asc. node	7951 Jan 25 15:13	10°≈11'51	
	7950 Feb 07 05:47	30°R≈		min. Earth dist.	7951 Jan 25 20:00	9° ≈ 56'49	0.67288 AU
asc. node	7950 Feb 07 18:09	29° ≈ 29'01		inferior conj	7951 Jan 27 04:13	8°≈14'06	0°30'39
min. Earth dist.	7950 Feb 11 02:56	25° ≈ 23'07	0.68014 AU	minimum elong	7951 Jan 27 03:27	8° ≈ 16'33	0°30'27
inferior conj	7950 Feb 11 23:50	24°≈13′02	1°21'33	morning rise	7951 Feb 01 19:44	2° ≈ 21'32	
minimum elong	7950 Feb 11 22:05	24°≈18'55	1°20'59	direct	7951 Feb 05 04:03	1°≈17'11	
morning rise	7950 Feb 17 08:45	18° ≈ 12'12		morning max el	7951 Feb 12 02:06	5° ≈ 05'34	19°05'54
direct	7950 Feb 21 04:53	16° ≈ 47'57		greatest brilliancy	7951 Feb 25 16:39	23° ≈ 23'31	-0.7m
morning max el	7950 Feb 28 20:07	21° ≈ 06′23	20°05'07	desc. node	7951 Mar 01 12:09	29° ≈ 13′03	
	7950 Mar 08 05:24	0°) €			7951 Mar 02 00:21	0°) €	
desc. node	7950 Mar 14 15:13	9° ∺ 04'17		morning set	7951 Mar 07 06:21	8°) €07'08	
morning set	7950 Mar 28 03:47	29° ∺ 28′30		max. Earth dist.	7951 Mar 21 04:52	29°) 51′44	1.45121 AU
	7950 Mar 28 11:57	0 ° $\mathbf{\Upsilon}$			7951 Mar 21 06:59	0 ° $\mathbf{\gamma}$	
max. Earth dist.	7950 Apr 07 13:28	15° Ƴ 47'32	1.44023 AU				
				superior conj	7951 Mar 23 21:08	4° Y 05′02	-2°02'22

minimum elong	7951 Mar 23 14:26	3° Y 38'36	2°02'01	desc. node	7952 Feb 16 09:07	19° ≈ 37'43	
evening rise	7951 Apr 07 14:15	27° Y 46'52			7952 Feb 22 21:44	0° ℋ	
asc. node	7951 Apr 08 22:43 7951 Apr 23 14:11	0° と 22° と 57'59		superior conj	7952 Mar 02 01:49	12°) 51′07	-1°33'18
evening max el	7951 Apr 27 09:36	27° 8 28'57	18°27'21	minimum elong	7952 Mar 01 16:14	12° X 13'36	
o voiming main or	7951 Apr 30 13:09	0°II	10 2, 21	max. Earth dist.	7952 Mar 03 00:14		1.45503 AU
retrograde	7951 May 03 20:35	0°耳58'43			7952 Mar 13 00:40	$0^{\circ}\mathbf{\Upsilon}$	
evening set	7951 May 06 23:16	0°耳04′51		evening rise	7952 Mar 18 00:30	7° Y 50'35	
	7951 May 07 02:36	30° ₹ 8		greatest brilliancy	7952 Mar 28 06:24	23° Y 53'58	-0.8m
inferior conj	7951 May 12 18:06	24° 8 34'37	3°19'39		7952 Apr 01 06:59	0° 8	
minimum elong min. Earth dist.	7951 May 12 19:10	24° 8 31'28 21° 8 58'39	3°19'27 0.64608 AU	asc. node	7952 Apr 09 11:17	10° と 42'36 11° と 03'24	19°04'03
min. Earth dist.	7951 May 14 23:08 7951 May 18 14:11	18° 8 19'24	0.04008 AU	evening max el retrograde	7952 Apr 09 19:22 7952 Apr 16 16:11	14° 8 54'34	19-04-03
direct	7951 May 25 06:36	15° 8 34'35		evening set	7952 Apr 20 02:23	13° 8 46'21	
desc. node	7951 May 28 11:47	16° 8 07'47		inferior conj	7952 Apr 25 14:39	7° 8 59'54	3°24'12
morning max el	7951 Jun 07 20:42	23° 8 31'57	27°22'31	minimum elong	7952 Apr 25 14:23	8° 8 00'44	3°24'07
	7951 Jun 13 14:56	$\Pi^{\circ}0$		min. Earth dist.	7952 Apr 27 04:14	6° 8 00'09	0.66205 AU
	7951 Jul 03 19:10	0 \circ \odot		morning rise	7952 May 01 01:58	1° 8 42'16	
morning set	7951 Jul 13 04:41	17°5917'11			7952 May 03 10:50	30°RƳ	
max. Earth dist.	7951 Jul 17 20:36	26°939'47	1.33323 AU	direct	7952 May 07 10:26	28° Y 55'59	
asc. node	7951 Jul 19 11:07 7951 Jul 20 13:23	0°Ω 2°Ω18'13		desc. node	7952 May 11 18:28 7952 May 14 08:46	0° と 1° と 29'36	
asc. Houe	7931 Jul 20 13.23	2 061013		morning max el	7952 May 20 07:07	6° 8 35'11	26°23'08
superior conj	7951 Jul 21 09:10	4° Ω 03'01	0°08'23	morning max or	7952 Jun 07 08:56	0° I	20 23 00
minimum elong	7951 Jul 21 08:45	4° Ω 00'48	0°08'10	morning set	7952 Jun 25 07:33	0°916'25	
behind sun begin	7951 Jul 21 03:59	3° Ω 35'31			7952 Jun 25 04:03	0 \circ \odot	
behind sun end	7951 Jul 21 13:31	4° Ω 26′07		max. Earth dist.	7952 Jun 29 07:59	7° 9 58'54	1.34817 AU
evening rise	7951 Jul 28 12:59	19° Ω 21'40					
	7951 Aug 02 17:57	0° m/y	2221 (12.0	superior conj	7952 Jul 04 06:45	17°955'44	
evening max el desc. node	7951 Aug 18 20:04 7951 Aug 24 10:53	24° Mp 04'33 28° Mp 25'52	22°16'38	minimum elong asc. node	7952 Jul 04 07:59 7952 Jul 06 10:25	18° © 02'02	0°21′27
desc. node	7951 Aug 24 10.35 7951 Aug 28 04:05	0° ت 0° ت		asc. node	7952 Jul 10 01:54	22 3 22 32	
retrograde	7951 Aug 20 04:05	0° ჲ 29'21		evening rise	7952 Jul 11 21:54	3° Ω 49'08	
evening set	7951 Sep 03 21:04	0° ჲ 07'24		<i>y</i>	7952 Jul 26 16:40	0° m/	
C	7951 Sep 04 09:12	30° ₽, M)		evening max el	7952 Jul 30 18:07	4° m/40′29	20°47'19
min. Earth dist.	7951 Sep 12 02:04	26° Mp 32'36	0.54942 AU	desc. node	7952 Aug 10 07:58	10° m 19'18	
inferior conj	7951 Sep 12 22:17	26°Mp04'11		retrograde	7952 Aug 11 05:41	10° m ,21′21	
minimum elong	7951 Sep 12 14:30	26° m 15'08	4°58'55	evening set	7952 Aug 13 09:01	10° Mp 10'19	2024120
morning rise direct	7951 Sep 21 09:36 7951 Sep 24 16:46	22° Mp 16'04 21° Mp 51'40		inferior conj	7952 Aug 22 14:49 7952 Aug 22 05:44	6° Mp 13'20 6° Mp 26'17	
morning max el	7951 Sep 24 10:40 7951 Oct 06 10:10	27° m) 21'48	21°24'09	minimum elong min. Earth dist.	7952 Aug 23 11:20	5° Mp 44'06	0.54738 AU
morning max or	7951 Oct 08 23:40	0° ರ	21 210)	morning rise	7952 Aug 31 02:27	2° mp 14'22	0.5 1750 710
asc. node	7951 Oct 16 12:56	10° ≏ 30'34		direct	7952 Sep 04 00:57	1° m)41'11	
morning set	7951 Oct 26 15:47	29° ≏ 45′23		morning max el	7952 Sep 17 03:08	7° m 57'44	23°05'52
	7951 Oct 26 18:35	0°M₊		asc. node	7952 Oct 02 09:56	29° m 16'01	
				_	7952 Oct 02 19:32	0∘ ত	
superior conj	7951 Nov 02 22:07	15°M00'47 15°M05'14	1°40'13 1°40'17	morning set	7952 Oct 10 03:00	14° £ 35'21	
minimum elong max. Earth dist.	7951 Nov 02 22:59 7951 Nov 07 06:14	23°M51'49	1.35144 AU	superior conj	7952 Oct 17 02:48	29° £ 36'58	1°41'14
mun. Durun uist.	7951 Nov 10 09:24	0° %	1.50111110	minimum elong	7952 Oct 17 02:10	29° £ 34'42	
evening rise	7951 Nov 11 10:34	2° х 00′03			7952 Oct 17 07:06	0°M	
desc. node	7951 Nov 20 09:46	17° ₹ 59'50		max. Earth dist.	7952 Oct 20 01:13	5°M50'43	1.33609 AU
	7951 Nov 27 23:03	0°ರ		evening rise	7952 Oct 24 20:55	15°M40'58	
evening max el	7951 Dec 16 18:24	23° る 47'45	26°37'50		7952 Nov 01 12:21	0°⊀	
. 1	7951 Dec 25 05:32	0° ≈ 1° ≈ 04'05		desc. node	7952 Nov 06 06:51	8° メ 07'02 0° る	
retrograde	7951 Dec 29 18:34 7952 Jan 02 23:14	1°≈0403 30°Rる		evening max el	7952 Nov 21 14:17 7952 Nov 28 07:12	0°る 7° る 17'45	27°16'58
evening set	7952 Jan 05 05:40	28° る 29'17		retrograde	7952 Dec 11 18:29	14° る 37'46	27 1030
min. Earth dist.	7952 Jan 09 07:47	24°る20'20	0.66195 AU	evening set	7952 Dec 18 15:27	12°る01'20	
inferior conj	7952 Jan 11 03:35	22° ප 10'15		min. Earth dist.	7952 Dec 22 11:58		0.64750 AU
minimum elong	7952 Jan 11 04:20	22° る 07'59	0°27'02	inferior conj	7952 Dec 24 19:32	5° පි 55'26	
asc. node	7952 Jan 12 12:17	20° පි 34'39		minimum elong	7952 Dec 24 22:18	5° ප් 47'52	1°30'37
morning rise	7952 Jan 17 03:54	16° る 28'23		asc. node	7952 Dec 29 09:20	1°る33'46	
direct	7952 Jan 20 02:04	15° る 40'44	10022155	morning rise	7952 Dec 31 06:38	0°る27'07	
morning max el	7952 Jan 26 14:37 7952 Feb 03 22:12	19°る11'06 0°≈	18°22'55	direct	7953 Jan 01 15:46 7953 Jan 02 20:33	30°Ŗ ৵ 29° ৵ 52'26	
	1934 FCU U3 44.14			uncci	1733 Jan 04 40.33		
morning set	7952 Feb 15 09:30	18° ≈ 03′26			7953 Jan 04 01:23	0° ろ	

morning max el	7953 Jan 09 07:03	3° ჳ 15'34	17°56'44	morning set	7954 Jan 09 03:32	12° る 02'15	
morning set	7953 Jan 26 18:06	29° る 26'59	1, 30 11	morning sec	7954 Jan 19 13:53	0°≈	
morning sec	7953 Jan 27 02:01	0°≈		desc. node	7954 Jan 20 03:07	0°≈55'21	
desc. node	7953 Feb 02 06:06	10° ≈ 13'03					
				superior conj	7954 Jan 21 00:45	2° ≈ 25'35	-0°06'35
superior conj	7953 Feb 09 14:09	22° ≈ 05'09	-0°51'09	minimum elong	7954 Jan 21 00:05	2° ≈ 22'49	0°06'22
minimum elong	7953 Feb 09 08:12	21° ≈ 41'24	0°50'15	behind sun begin	7954 Jan 20 15:31	1° ≈ 47'07	
max. Earth dist.	7953 Feb 13 19:54	28° ≈ 48'33	1.45137 AU	behind sun end	7954 Jan 21 08:40	2°≈58'26	
	7953 Feb 14 14:04	0° ∀		max. Earth dist.	7954 Jan 27 13:07	13° ≈ 03'51	1.44076 AU
evening rise	7953 Feb 25 16:46	17° ¥ 15'47		evening rise	7954 Feb 05 04:06	26° ≈ 37'02	
	7953 Mar 06 00:53	0 ° Υ			7954 Feb 07 08:58	0°) €	
greatest brilliancy	7953 Mar 12 04:54	9° Y 12'51	-0.6m		7954 Feb 28 00:32	0° Y	
evening max el	7953 Mar 24 00:19	24° Y '40'03	19°56'48	evening max el	7954 Mar 06 23:48	8° Y 18'21	21°03'03
asc. node	7953 Mar 27 08:22	27° Y 31′50		asc. node	7954 Mar 14 05:26	13° Y 11'31	
retrograde	7953 Mar 31 14:21	29° Y °03'08		retrograde	7954 Mar 15 12:47	13° Y ′20′18	
evening set	7953 Apr 04 08:52	27° Y ′40′11		evening set	7954 Mar 19 16:49	11° Y '42'20	
inferior conj	7953 Apr 09 17:31	21° Y ′39′25	3°15'16	inferior conj	7954 Mar 25 00:14	5° Y ′29'42	2°55'14
minimum elong	7953 Apr 09 16:12	21° Y '43'53	3°15'04	minimum elong	7954 Mar 24 22:13	5°Υ36'38	2°54'49
min. Earth dist.	7953 Apr 10 16:30	20° Y 22'04	0.67369 AU	min. Earth dist.	7954 Mar 25 09:51	4°Υ′56'22	0.68094 AU
morning rise	7953 Apr 14 23:15	15° Υ 22'25 12° Υ 45'09			7954 Mar 29 08:47	30°₹ X 29° ¥ 15'19	
direct desc. node	7953 Apr 20 20:09	12 γ 43 09 18° γ 26'01		morning rise direct	7954 Mar 30 03:25	29 X 13 19 26° X 54'41	
morning max el	7953 May 01 05:44 7953 May 02 16:40	18° Y 2601 19° Y 51'28	25°03'56	direct	7954 Apr 04 10:52 7954 Apr 11 11:47	20° π 34'41 0° Υ	
morning max er	7953 May 11 08:26	0° 8	23 03 30	morning max el	7954 Apr 15 01:48	3° Υ 14'44	23°35'07
	7953 May 31 12:26	0°II		desc. node	7954 Apr 18 02:43	6° Υ 31'33	23 33 07
morning set	7953 Jun 07 17:59	12° ∏ 26'19		dese. Hode	7954 May 05 11:55	0° ∀ 3133	
max. Earth dist.	7953 Jun 11 09:06	19° ∏ 02'32	1.36729 AU	morning set	7954 May 20 06:26	23° 8 32'12	
man zam ust.	7953 Jun 17 02:59	0.2 2	1.50,2,110	max. Earth dist.	7954 May 24 04:46	0° П 18'57	1.38926 AU
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	¥ -			7954 May 24 00:27	0°II	-1007-0110
superior conj	7953 Jun 17 18:34	1° © 16'28	-0°53'09		,		
minimum elong	7953 Jun 17 21:47	1° 5 32'18	0°52'42	superior conj	7954 May 31 16:56	13° Ⅱ 56'10	-1°24'05
asc. node	7953 Jun 23 07:28	12° © 21'51		minimum elong	7954 May 31 21:59	14° Ⅱ 19'54	1°23'29
evening rise	7953 Jun 26 02:09	17° 5 59'04			7954 Jun 09 01:37	0 \circ \mathfrak{s}	
	7953 Jul 02 06:16	$0^{\circ}\Omega$		evening rise	7954 Jun 09 22:56	1° 5 43'40	
evening max el	7953 Jul 13 05:23	15° Ω 58'53	19°36'17	asc. node	7954 Jun 10 04:29	2° 5 10'37	
retrograde	7953 Jul 23 00:01	20° Ω 48'11		evening max el	7954 Jun 26 04:33	28° © 00'40	18°45'51
evening set	7953 Jul 24 20:30	20° Ω 38'32			7954 Jun 28 12:44	0 \circ Ω	
desc. node	7953 Jul 28 05:00	19° Ω 36'40		retrograde	7954 Jul 04 10:14	2° Ω 05′22	
inferior conj	7953 Aug 02 15:38	16° Ω 34'27		evening set	7954 Jul 06 10:51	1° Ω 51′28	
minimum elong	7953 Aug 02 11:06	16°Ω41'37			7954 Jul 10 19:19	30°Rூ	
min. Earth dist.	7953 Aug 04 23:36	15° Ω 06'19	0.55484 AU	inferior conj	7954 Jul 14 11:08	27°930'24	0°11'12
morning rise	7953 Aug 10 23:20	12° Ω 05'15		minimum elong	7954 Jul 14 11:34	27°529'36	0°10'54
direct	7953 Aug 15 16:45	11° Ω 15'24 18° Ω 13'55	24951102	transit middle	7954 Jul 14 11:34	27°529'36	0°10'54
morning max el	7953 Aug 29 15:53 7953 Sep 08 10:13	0° m/	24 31 03	transit begin transit end	7954 Jul 14 08:52 7954 Jul 14 14:17	27° © 34'35 27° © 24'38	
asc. node	7953 Sep 08 10:15 7953 Sep 19 06:55	18°Mp31'16		desc. node	7954 Jul 15 02:04	27°502'55	
morning set	7953 Sep 19 00:35 7953 Sep 24 14:46	29° m 25'12		min. Earth dist.	7954 Jul 17 15:56	25°9510'31	0.57051 AU
morning sec	7953 Sep 24 21:17	0° ⊽		morning rise	7954 Jul 22 08:49	22° © 24'15	0.57051710
	7,505 Sep 2. 21.17	~		direct	7954 Jul 27 22:56	21° © 07'58	
superior conj	7953 Oct 01 11:54	14° Ω 24'39	1°36'04	morning max el	7954 Aug 11 06:43	28° © 37'13	26°23'12
minimum elong	7953 Oct 01 10:28	14° ≏ 16'50	1°35'59	Č	7954 Aug 12 15:48	$0^{\circ}\Omega$	
max. Earth dist.	7953 Oct 03 04:04	18° ჲ 03'50	1.32511 AU		7954 Sep 02 00:28	0° ™	
evening rise	7953 Oct 08 17:24	29° ≏ 49'28		asc. node	7954 Sep 06 03:55	8° Mp 07'26	
	7953 Oct 08 19:27	0° M		morning set	7954 Sep 09 01:21	14°M)08'49	
desc. node	7953 Oct 24 03:56	27°M49'15					
	7953 Oct 25 13:37	0° ∡ ¹		superior conj	7954 Sep 15 23:13	29° m 15'45	1°25'20
evening max el	7953 Nov 10 17:58	20° ₹ 22'27	27°28'41	minimum elong	7954 Sep 15 21:10	29° m 04'21	1°25'04
retrograde	7953 Nov 24 11:54	27° ∡ ³39'48			7954 Sep 16 07:13	0∘ ত	
evening set	7953 Dec 01 14:10	25° х 10′33		max. Earth dist.	7954 Sep 16 12:20	0° ჲ 28'20	1.31867 AU
min. Earth dist.	7953 Dec 05 06:48		0.62990 AU	evening rise	7954 Sep 22 20:58	14° Ω 16'06	
inferior conj	7953 Dec 08 01:20	19° ₹ 23'24			7954 Sep 30 20:07	0°M	
minimum elong	7953 Dec 08 06:22	19° ₹ 11'05	2°38'27	desc. node	7954 Oct 11 00:59	16°M55'28	
morning rise	7953 Dec 15 00:35	14° 🖈 11'32			7954 Oct 21 05:33	0° 🔏 49120	27000105
asc. node	7953 Dec 16 06:21	13° x 51'42		evening max el	7954 Oct 24 00:20		27°08'05
direct	7953 Dec 17 08:37	13°×746'02	17047150	retrograde	7954 Nov 06 21:36	9° × 759'55	
morning max el	7953 Dec 24 00:22 7954 Jan 02 04:15	17°⊀11'21 0°る	1/4/39	evening set min. Earth dist.	7954 Nov 13 22:03 7954 Nov 17 15:06	7° х 48'41 5° х 05'40	0.60993 AU
	7757 3411 UZ U4.13	v		mm. Latui uist.	1/2T INUV 1/ 12.00	J X UJ 4U	0.00773 AU

inferior conj	7954 Nov 20 17:45	2° × 25'09		minimum elong	7955 Nov 03 00:05	14°M38'17	4°47'58
minimum elong	7954 Nov 21 00:36	2° √ 10′22	3°46'47	morning rise	7955 Nov 10 15:59	10°M21'08	
	7954 Nov 23 16:45	30°RM		direct	7955 Nov 12 22:37	10°M03'31	
morning rise	7954 Nov 28 05:26	27°M32'50		asc. node	7955 Nov 20 00:24	13°M05'02	
direct	7954 Nov 30 10:43	27°M12'53		morning max el	7955 Nov 21 00:05	13°M59'00	18°27'20
asc. node	7954 Dec 03 03:22	27°M43'30			7955 Dec 01 22:24	0°⊀	
	7954 Dec 06 18:04	0°⊀		morning set	7955 Dec 06 23:34	9° ≯ 30'40	
morning max el	7954 Dec 07 15:13	0° ≯ 48'57	17°57'39				
morning set	7954 Dec 23 07:10	25° х 28′49		superior conj	7955 Dec 15 23:30	26° ₹ 36'28	1°02'57
	7954 Dec 25 18:13	0°る		minimum elong	7955 Dec 16 02:59	26° ₹ 52'30	1°02'37
					7955 Dec 17 19:53	0°ප	
superior conj	7955 Jan 02 12:57	13° る 59'09	0°32'36	max. Earth dist.	7955 Dec 23 10:47	9° る 57'58	1.40419 AU
minimum elong	7955 Jan 02 15:33	14° る 10'29	0°32'20	desc. node	7955 Dec 24 21:05	12° る 25'00	
desc. node	7955 Jan 07 00:06	21° る 40'30		evening rise	7955 Dec 27 18:57	17° る 18'35	
max. Earth dist.	7955 Jan 10 02:08	26° ප 50'11	1.42439 AU		7956 Jan 04 17:11	0° ≈	
	7955 Jan 12 00:23	0° ≈			7956 Jan 26 05:15	0° ∀	
evening rise	7955 Jan 16 01:37	6° ≈ 30'47		evening max el	7956 Jan 31 09:13	5°) 42′25	23°38'55
	7955 Jan 31 14:57	0° ∀		retrograde	7956 Feb 11 03:38	12°) 03′27	
evening max el	7955 Feb 17 18:17	21° ¥ 58'59	22°18'53	asc. node	7956 Feb 15 23:33	10°) (10′07	
retrograde	7955 Feb 27 09:41	27°){ 42'00		evening set	7956 Feb 16 06:36	9°) 55'36	
asc. node	7955 Mar 01 02:29	27°) €27'18		min. Earth dist.	7956 Feb 21 02:38	4°){ 17'44	0.68268 AU
evening set	7955 Mar 04 00:35	25°) (48'54		inferior conj	7956 Feb 21 17:01	3° ¥ 28'35	1°47'19
inferior conj	7955 Mar 09 08:42	19°) 27'18	2°25'38	minimum elong	7956 Feb 21 14:56	3°) (35'43	1°46'40
minimum elong	7955 Mar 09 06:26	19°) (2713	2°25'02	minimum ciong	7956 Feb 24 08:57	30°R≈	1 10 10
min. Earth dist.	7955 Mar 09 06:00	19°) (35'13	0.68386 AU	morning rise	7956 Feb 26 23:14	27°≈24'06	
	7955 Mar 14 12:06	13° X 17'10	0.00300 AC	direct	7956 Mar 02 02:55	25°≈47'12	
morning rise direct	7955 Mar 19 05:32	13 X 17 10		direct	7956 Mar 09 19:45	23 ≈ 47 12 0°) €	
			22°06'34	mamina may al		0°) 27'40	20045152
morning max el	7955 Mar 28 13:23		22 06 34	morning max el	7956 Mar 10 07:04		20-45-55
desc. node	7955 Apr 04 23:41	25° ∺ 27'02 0° Υ		desc. node	7956 Mar 21 20:38	14° 米 58'09 0° Υ	
	7955 Apr 08 09:43				7956 Apr 01 02:55		
	7955 Apr 28 13:30	0°8		morning set	7956 Apr 08 23:43	12° Υ 03'08	1 42110 477
morning set	7955 Apr 30 15:59	3° 8 22'22		max. Earth dist.	7956 Apr 17 08:22	25° Y 19'33	1.43118 AU
max. Earth dist.	7955 May 06 02:57	12° 8 20'57	1.41154 AU		7956 Apr 20 05:04	9° 8	
superior conj	7955 May 13 21:25	25° 8 45'01	-1°50'48	superior conj	7956 Apr 24 03:16	6° 8 31'52	-2°08'14
superior conj minimum elong	7955 May 13 21:25 7955 May 14 03:06	_		superior conj minimum elong	7956 Apr 24 03:16 7956 Apr 24 06:41	_	-2°08'14 2°08'11
	7955 May 14 03:06	25° 8 45'01 26° 8 10'19 0° I I		minimum elong	7956 Apr 24 06:41	6° 8 46'11	
minimum elong	7955 May 14 03:06 7955 May 16 06:25	26° 8 10′19 0° Ⅱ			7956 Apr 24 06:41 7956 May 06 03:27	6° 8 46'11 27° 8 21'44	
minimum elong	7955 May 14 03:06 7955 May 16 06:25 7955 May 24 08:49	26°8√10'19 0°Ⅲ 14°Ⅲ54'45		minimum elong evening rise	7956 Apr 24 06:41 7956 May 06 03:27 7956 May 07 15:09	6° 8 46'11 27° 8 21'44 0° I I	
minimum elong	7955 May 14 03:06 7955 May 16 06:25 7955 May 24 08:49 7955 May 28 01:31	26° 8 10'19 0° I 14° I 54'45 21° I 144'55		minimum elong evening rise asc. node	7956 Apr 24 06:41 7956 May 06 03:27 7956 May 07 15:09 7956 May 13 22:33	6° 8 46'11 27° 8 21'44 0° П 10° П 58'49	2°08'11
minimum elong evening rise asc. node	7955 May 14 03:06 7955 May 16 06:25 7955 May 24 08:49 7955 May 28 01:31 7955 Jun 01 17:54	26°႘10'19 0°Ⅲ 14°Ⅲ54'45 21°Ⅲ44'55 0°፡୭	1°50′23	minimum elong evening rise asc. node evening max el	7956 Apr 24 06:41 7956 May 06 03:27 7956 May 07 15:09 7956 May 13 22:33 7956 May 23 00:09	6°846'11 27°821'44 0°П 10°П58'49 23°П42'02	2°08'11
minimum elong evening rise asc. node evening max el	7955 May 14 03:06 7955 May 16 06:25 7955 May 24 08:49 7955 May 28 01:31 7955 Jun 01 17:54 7955 Jun 09 12:05	26°႘10'19 0°Ⅱ 14°Ⅱ54'45 21°Ⅱ44'55 0°᠑ 10°38'25		minimum elong evening rise asc. node evening max el retrograde	7956 Apr 24 06:41 7956 May 06 03:27 7956 May 07 15:09 7956 May 13 22:33 7956 May 23 00:09 7956 May 29 13:18	6°846'11 27°821'44 0°II 10°II 58'49 23°II 42'02 27°II 04'05	2°08'11
minimum elong evening rise asc. node evening max el retrograde	7955 May 14 03:06 7955 May 16 06:25 7955 May 24 08:49 7955 May 28 01:31 7955 Jun 01 17:54 7955 Jun 09 12:05 7955 Jun 16 15:35	26° 8 10'19 0° П 14° П 54'45 21° П 44'55 0° © 10° © 38'25 14° © 13'43	1°50′23	minimum elong evening rise asc. node evening max el retrograde evening set	7956 Apr 24 06:41 7956 May 06 03:27 7956 May 07 15:09 7956 May 13 22:33 7956 May 23 00:09 7956 May 29 13:18 7956 Jun 01 04:42	6°846'11 27°821'44 0°П 10°П58'49 23°П42'02 27°П04'05 26°П30'55	2°08'11 18°05'26
minimum elong evening rise asc. node evening max el retrograde evening set	7955 May 14 03:06 7955 May 16 06:25 7955 May 24 08:49 7955 May 28 01:31 7955 Jun 01 17:54 7955 Jun 09 12:05 7955 Jun 16 15:35 7955 Jun 18 23:35	26°810'19 0° II 14° II 54'45 21° II 44'55 0° © 10° © 38'25 14° © 13'43 13° © 51'33	1°50'23 18°15'48	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj	7956 Apr 24 06:41 7956 May 06 03:27 7956 May 07 15:09 7956 May 13 22:33 7956 May 23 00:09 7956 May 29 13:18 7956 Jun 01 04:42 7956 Jun 07 17:07	6°846'11 27°821'44 0°П 10°П58'49 23°П42'02 27°П04'05 26°П30'55 21°П28'54	2°08'11 18°05'26 2°36'04
evening rise asc. node evening max el retrograde evening set inferior conj	7955 May 14 03:06 7955 May 16 06:25 7955 May 24 08:49 7955 May 28 01:31 7955 Jun 01 17:54 7955 Jun 09 12:05 7955 Jun 16 15:35 7955 Jun 18 23:35 7955 Jun 26 04:22	26°810'19 0°II 14°II54'45 21°II44'55 0°S 10°S38'25 14°S13'43 13°S51'33 9°S09'44	1°50'23 18°15'48 1°37'49	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	7956 Apr 24 06:41 7956 May 06 03:27 7956 May 07 15:09 7956 May 13 22:33 7956 May 23 00:09 7956 May 29 13:18 7956 Jun 01 04:42 7956 Jun 07 17:07 7956 Jun 07 20:02	6°846'11 27°821'44 0°П 10°П58'49 23°П42'02 27°П04'05 26°П30'55 21°П28'54 21°П21'38	2°08'11 18°05'26 2°36'04 2°35'15
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	7955 May 14 03:06 7955 May 16 06:25 7955 May 24 08:49 7955 May 28 01:31 7955 Jun 01 17:54 7955 Jun 09 12:05 7955 Jun 16 15:35 7955 Jun 18 23:35 7955 Jun 26 04:22 7955 Jun 26 07:13	26°810'19 0° II 14° II 54'45 21° II 44'55 0° 99 10° 938'25 14° 913'43 13° 951'33 9° 900'44 9° 903'38	1°50'23 18°15'48 1°37'49 1°36'47	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	7956 Apr 24 06:41 7956 May 06 03:27 7956 May 07 15:09 7956 May 13 22:33 7956 May 23 00:09 7956 May 29 13:18 7956 Jun 01 04:42 7956 Jun 07 17:07 7956 Jun 07 20:02 7956 Jun 10 19:47	6°846'11 27°821'44 0°П 10°П58'49 23°П42'02 27°П04'05 26°П30'55 21°П28'54 21°П21'38 18°П25'09	2°08'11 18°05'26 2°36'04
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	7955 May 14 03:06 7955 May 16 06:25 7955 May 24 08:49 7955 May 28 01:31 7955 Jun 01 17:54 7955 Jun 09 12:05 7955 Jun 16 15:35 7955 Jun 18 23:35 7955 Jun 26 04:22 7955 Jun 26 07:13 7955 Jun 29 13:55	26°810'19 0° II 14° II 54'45 21° II 44'55 0° II 10° II 3'43 13° II 3'3 9° II 3'3	1°50'23 18°15'48 1°37'49	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	7956 Apr 24 06:41 7956 May 06 03:27 7956 May 07 15:09 7956 May 13 22:33 7956 May 23 00:09 7956 May 29 13:18 7956 Jun 01 04:42 7956 Jun 07 17:07 7956 Jun 07 20:02 7956 Jun 10 19:47 7956 Jun 14 09:12	6°846'11 27°821'44 0° II 10° II 58'49 23° II 42'02 27° II 04'05 26° II 30'55 21° II 28'54 21° II 21'38 18° II 25'09 15° II 28'58	2°08'11 18°05'26 2°36'04 2°35'15
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	7955 May 14 03:06 7955 May 16 06:25 7955 May 24 08:49 7955 May 28 01:31 7955 Jun 01 17:54 7955 Jun 09 12:05 7955 Jun 16 15:35 7955 Jun 18 23:35 7955 Jun 26 04:22 7955 Jun 26 07:13 7955 Jun 29 13:55 7955 Jul 01 23:05	26°810'19 0° II 14° II 54'45 21° II 44'55 0° © 10° © 38'25 14° © 13'43 13° © 51'33 9° © 09'44 9° © 03'38 6° © 16'05 4° © 28'45	1°50'23 18°15'48 1°37'49 1°36'47	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	7956 Apr 24 06:41 7956 May 06 03:27 7956 May 07 15:09 7956 May 13 22:33 7956 May 23 00:09 7956 May 29 13:18 7956 Jun 01 04:42 7956 Jun 07 17:07 7956 Jun 07 20:02 7956 Jun 10 19:47 7956 Jun 14 09:12 7956 Jun 17 20:07	6°846'11 27°821'44 0°	2°08'11 18°05'26 2°36'04 2°35'15
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	7955 May 14 03:06 7955 May 16 06:25 7955 May 24 08:49 7955 May 28 01:31 7955 Jun 01 17:54 7955 Jun 09 12:05 7955 Jun 16 15:35 7955 Jun 18 23:35 7955 Jun 26 04:22 7955 Jun 26 07:13 7955 Jun 29 13:55 7955 Jul 01 23:05 7955 Jul 03 11:44	26°810'19 0° II 14° II 54'45 21° II 44'55 0° © 10° © 38'25 14° © 13'43 13° © 51'33 9° © 09'44 9° © 03'38 6° © 16'05 4° © 28'45 3° © 31'44	1°50'23 18°15'48 1°37'49 1°36'47	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	7956 Apr 24 06:41 7956 May 06 03:27 7956 May 07 15:09 7956 May 13 22:33 7956 May 23 00:09 7956 May 29 13:18 7956 Jun 01 04:42 7956 Jun 07 17:07 7956 Jun 10 19:47 7956 Jun 14 09:12 7956 Jun 17 20:07 7956 Jun 17 20:07 7956 Jun 21 01:42	6°846'11 27°821'44 0°Ш 10°Ш58'49 23°Ш42'02 27°Ш04'05 26°Ш30'55 21°Ш28'54 21°Ш21'38 18°Ш25'09 15°Ш28'58 13°Ш43'26 13°Ш11'41	2°08'11 18°05'26 2°36'04 2°35'15 0.61384 AU
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	7955 May 14 03:06 7955 May 16 06:25 7955 May 24 08:49 7955 May 28 01:31 7955 Jun 01 17:54 7955 Jun 09 12:05 7955 Jun 16 15:35 7955 Jun 18 23:35 7955 Jun 26 04:22 7955 Jun 26 07:13 7955 Jun 29 13:55 7955 Jul 01 23:05 7955 Jul 03 11:44 7955 Jul 09 18:41	26°810'19 0° II 14° II 54'45 21° II 44'55 0° 9 10° 938'25 14° 913'43 13° 951'33 9° 909'44 9° 903'38 6° 916'05 4° 928'45 3° 931'44 1° 943'51	1°50'23 18°15'48 1°37'49 1°36'47 0.59135 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	7956 Apr 24 06:41 7956 May 06 03:27 7956 May 07 15:09 7956 May 13 22:33 7956 May 23 00:09 7956 May 29 13:18 7956 Jun 01 04:42 7956 Jun 07 17:07 7956 Jun 10 19:47 7956 Jun 10 19:47 7956 Jun 17 20:07 7956 Jun 17 20:07 7956 Jun 17 20:07 7956 Jun 21 01:42 7956 Jul 05 07:18	6°846'11 27°821'44 0° II 10° II 58'49 23° II 42'02 27° II 04'05 26° II 30'55 21° II 28'54 21° II 21'38 18° II 25'09 15° II 28'58 13° II 11'41 21° II 11'26	2°08'11 18°05'26 2°36'04 2°35'15 0.61384 AU
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minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise	7955 May 14 03:06 7955 May 16 06:25 7955 May 24 08:49 7955 May 28 01:31 7955 Jun 01 17:54 7955 Jun 09 12:05 7955 Jun 16 15:35 7955 Jun 18 23:35 7955 Jun 26 04:22 7955 Jun 26 07:13 7955 Jun 29 13:55 7955 Jul 01 23:05 7955 Jul 03 11:44 7955 Jul 09 18:41 7955 Jul 09 18:41 7955 Jul 24 03:38 7955 Aug 08 20:31 7955 Aug 24 09:08 7955 Aug 24 00:54 7955 Aug 31 10:58 7955 Aug 31 08:42 7955 Aug 30 22:40 7955 Sep 07 05:15 7955 Sep 07 17:43 7955 Sep 24 05:42	26°810'19 0°I 14°IS4'45 21°I44'55 0°S 10°S38'25 14°S13'43 13°S51'33 9°S09'44 9°S03'38 6°S16'05 4°S28'45 3°S31'44 1°S43'51 9°S32'26 0°A 28°A41'23 27°A58'19 0°M 14°M04'22 13°M51'52 12°M56'15 28°M53'45 0°A 0°IL	1°50'23 18°15'48 1°37'49 1°36'47 0.59135 AU 27°27'16 1°09'30 1°09'06	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	7956 Apr 24 06:41 7956 May 06 03:27 7956 May 07 15:09 7956 May 13 22:33 7956 May 23 00:09 7956 May 29 13:18 7956 Jun 01 04:42 7956 Jun 07 17:07 7956 Jun 07 20:02 7956 Jun 10 19:47 7956 Jun 17 20:07 7956 Jun 17 20:07 7956 Jun 17 20:07 7956 Jun 17 20:07 7956 Jun 18 7956 Jul 19 22:42 7956 Jul 19 22:42 7956 Jul 19 21:35 7956 Aug 07 12:13 7956 Aug 09 21:54 7956 Aug 14 21:21 7956 Aug 14 19:23 7956 Aug 14 19:23 7956 Aug 15 10:58 7956 Aug 29 20:11 7956 Sep 13 19:07	6°846'11 27°821'44 0°	2°08'11 18°05'26 2°36'04 2°35'15 0.61384 AU 27°54'37 1.31943 AU 0°49'00 0°48'33
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise desc. node	7955 May 14 03:06 7955 May 16 06:25 7955 May 24 08:49 7955 May 28 01:31 7955 Jun 01 17:54 7955 Jun 09 12:05 7955 Jun 16 15:35 7955 Jun 18 23:35 7955 Jun 26 04:22 7955 Jun 26 07:13 7955 Jun 29 13:55 7955 Jul 01 23:05 7955 Jul 01 23:05 7955 Jul 01 23:05 7955 Jul 01 23:05 7955 Jul 02 11:44 7955 Jul 09 18:41 7955 Jul 24 03:38 7955 Aug 08 20:31 7955 Aug 24 09:08 7955 Aug 24 00:54 7955 Aug 25 00:03 7955 Aug 31 10:58 7955 Aug 30 22:40 7955 Sep 07 05:15 7955 Sep 07 17:43 7955 Sep 27 22:02	26°810'19 0°II 14°II54'45 21°II44'55 0°G 10°G38'25 14°G13'43 13°G51'33 9°G09'44 9°G03'38 6°G16'05 4°G28'45 3°G31'44 1°G43'51 9°G32'26 0°A 28°A41'23 27°A58'19 0°ID 14°ID04'22 13°ID51'52 12°ID56'15 28°ID53'45 0°IL 5°IL11'27	1°50'23 18°15'48 1°37'49 1°36'47 0.59135 AU 27°27'16 1°09'30 1°09'06 1.31678 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong	7956 Apr 24 06:41 7956 May 06 03:27 7956 May 07 15:09 7956 May 13 22:33 7956 May 23 00:09 7956 May 29 13:18 7956 Jun 01 04:42 7956 Jun 07 17:07 7956 Jun 07 20:02 7956 Jun 10 19:47 7956 Jun 17 20:07 7956 Jun 17 20:07 7956 Jun 17 20:07 7956 Jun 18 7956 Jul 19 22:42 7956 Jul 19 22:42 7956 Jul 19 22:42 7956 Jul 19 21:35 7956 Aug 07 12:13 7956 Aug 09 21:54 7956 Aug 14 21:21 7956 Aug 14 19:23 7956 Aug 15 10:58 7956 Aug 21 16:12 7956 Aug 29 20:11 7956 Sep 13 19:07 7956 Sep 16 15:09	6°846'11 27°821'44 0°	2°08'11 18°05'26 2°36'04 2°35'15 0.61384 AU 27°54'37 1.31943 AU 0°49'00
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise	7955 May 14 03:06 7955 May 16 06:25 7955 May 24 08:49 7955 May 28 01:31 7955 Jun 01 17:54 7955 Jun 09 12:05 7955 Jun 16 15:35 7955 Jun 18 23:35 7955 Jun 26 04:22 7955 Jun 26 07:13 7955 Jun 29 13:55 7955 Jul 01 23:05 7955 Jul 01 23:05 7955 Jul 01 23:05 7955 Jul 01 23:05 7955 Jul 02 13:44 7955 Jul 03 11:44 7955 Jul 09 18:41 7955 Jul 24 03:38 7955 Aug 08 20:31 7955 Aug 24 09:08 7955 Aug 24 00:54 7955 Aug 25 00:03 7955 Aug 31 10:58 7955 Aug 31 08:42 7955 Aug 30 22:40 7955 Sep 07 05:15 7955 Sep 07 17:43 7955 Sep 27 22:02 7955 Oct 05 23:45	26°810'19 0°II 14°II54'45 21°II44'55 0°G 10°G38'25 14°G13'43 13°G51'33 9°G09'44 9°G03'38 6°G16'05 4°G28'45 3°G31'44 1°G43'51 9°G32'26 0°A 28°A41'23 27°A58'19 0°ID 14°ID04'22 13°ID51'52 12°ID56'15 28°ID53'45 0°IL 5°IL1'27 14°IL26'12	1°50'23 18°15'48 1°37'49 1°36'47 0.59135 AU 27°27'16 1°09'30 1°09'06	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	7956 Apr 24 06:41 7956 May 06 03:27 7956 May 07 15:09 7956 May 13 22:33 7956 May 23 00:09 7956 May 29 13:18 7956 Jun 01 04:42 7956 Jun 07 17:07 7956 Jun 07 20:02 7956 Jun 10 19:47 7956 Jun 14 09:12 7956 Jun 17 20:07 7956 Jun 17 20:07 7956 Jul 12 22:42 7956 Jul 12 22:42 7956 Jul 12 22:42 7956 Jul 31 21:35 7956 Aug 07 12:13 7956 Aug 09 21:54 7956 Aug 14 21:21 7956 Aug 14 19:23 7956 Aug 15 10:58 7956 Aug 21 16:12 7956 Aug 29 20:11 7956 Sep 13 19:07 7956 Sep 16 15:09 7956 Sep 22 20:12	6°846'11 27°821'44 0° II 10° II 58'49 23° II 42'02 27° II 04'05 26° II 30'55 21° II 28'54 21° II 21'38 18° II 25'09 15° II 28'58 13° II 1'41 21° II 11'26 0° II 28'57'38 17° II 58'38 25° II 6'41 28° II 4'10 28° II 3° II 1'41 28° II 3°	2°08'11 18°05'26 2°36'04 2°35'15 0.61384 AU 27°54'37 1.31943 AU 0°49'00 0°48'33
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise	7955 May 14 03:06 7955 May 16 06:25 7955 May 24 08:49 7955 May 28 01:31 7955 Jun 01 17:54 7955 Jun 09 12:05 7955 Jun 16 15:35 7955 Jun 18 23:35 7955 Jun 26 04:22 7955 Jun 26 07:13 7955 Jun 29 13:55 7955 Jul 01 23:05 7955 Jul 03 11:44 7955 Jul 09 18:41 7955 Jul 24 03:38 7955 Aug 08 20:31 7955 Aug 24 09:08 7955 Aug 24 09:08 7955 Aug 25 00:03 7955 Aug 31 10:58 7955 Aug 31 08:42 7955 Aug 30 22:40 7955 Sep 07 05:15 7955 Sep 07 17:43 7955 Sep 27 22:02 7955 Oct 05 23:45 7955 Oct 19 21:58	26°810'19 0°II 14°II54'45 21°II44'55 0°I 10°I3'43 13°I51'33 9°I09'44 9°I03'38 6°I6'05 4°I6'05 14°I6'05 14°I6'05 14°I6'05 14°I6'15 28°I6'15 28°I6'16'16'16'16'16'16'16'16'16'16'16'16'16	1°50'23 18°15'48 1°37'49 1°36'47 0.59135 AU 27°27'16 1°09'30 1°09'06 1.31678 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	7956 Apr 24 06:41 7956 May 06 03:27 7956 May 07 15:09 7956 May 13 22:33 7956 May 23 00:09 7956 May 29 13:18 7956 Jun 01 04:42 7956 Jun 07 17:07 7956 Jun 07 20:02 7956 Jun 10 19:47 7956 Jun 17 20:07 7956 Jun 17 20:07 7956 Jun 17 20:07 7956 Jun 17 20:07 7956 Jul 12 22:42 7956 Jul 12 22:42 7956 Jul 12 22:42 7956 Aug 07 12:13 7956 Aug 09 21:54 7956 Aug 14 21:21 7956 Aug 14 19:23 7956 Aug 15 10:58 7956 Aug 21 16:12 7956 Aug 29 20:11 7956 Sep 13 19:07 7956 Sep 16 15:09 7956 Sep 22 20:12 7956 Sep 30 11:24	6°846'11 27°821'44 0° II 10° II 58'49 23° II 42'02 27° II 04'05 26° II 30'55 21° II 28'54 21° II 21'38 18° II 25'09 15° II 28'58 13° II 11'41 21° II 11'26 0° © 0° N 12° N 57'38 17° N 58'38 25° N 16'41 28° N 45'04 28° N 34'18 0° II 13° II 36' II 10° LI 20° LI 13' II 10° LI 13' II 13' II 10° LI 13' II 13' II 10° LI 13' II 13	2°08'11 18°05'26 2°36'04 2°35'15 0.61384 AU 27°54'37 1.31943 AU 0°49'00 0°48'33
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	7955 May 14 03:06 7955 May 16 06:25 7955 May 24 08:49 7955 May 28 01:31 7955 Jun 01 17:54 7955 Jun 09 12:05 7955 Jun 16 15:35 7955 Jun 18 23:35 7955 Jun 26 04:22 7955 Jun 26 07:13 7955 Jun 29 13:55 7955 Jul 01 23:05 7955 Jul 01 23:05 7955 Jul 03 11:44 7955 Jul 09 18:41 7955 Jul 24 03:38 7955 Aug 08 20:31 7955 Aug 24 09:08 7955 Aug 24 00:54 7955 Aug 31 10:58 7955 Aug 31 10:58 7955 Aug 31 08:42 7955 Aug 30 22:40 7955 Sep 07 05:15 7955 Sep 07 05:15 7955 Sep 24 05:42 7955 Sep 27 22:02 7955 Oct 05 23:45 7955 Oct 19 21:58 7955 Oct 26 10:28	26°810'19 0°II 14°II54'45 21°II44'55 0°I 10°I3'43 13°I51'33 9°I09'44 9°I03'38 6°I6'05 4°I6'05 14°I6'05 14°I6'05 15°I6'15 28°I6'15 28°I6'11'27 14°I6'12 21°I6'11'27 14°I6'12 21°I6'11'27	1°50'23 18°15'48 1°37'49 1°36'47 0.59135 AU 27°27'16 1°09'30 1°09'06 1.31678 AU 26°13'46	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	7956 Apr 24 06:41 7956 May 06 03:27 7956 May 07 15:09 7956 May 13 22:33 7956 May 23 00:09 7956 May 29 13:18 7956 Jun 01 04:42 7956 Jun 07 17:07 7956 Jun 07 20:02 7956 Jun 10 19:47 7956 Jun 17 20:07 7956 Jun 17 20:07 7956 Jun 17 20:07 7956 Jun 17 20:07 7956 Jun 18 7956 Jul 19 22:42 7956 Jul 19 22:42 7956 Jul 19 22:42 7956 Aug 07 12:13 7956 Aug 09 21:54 7956 Aug 14 21:21 7956 Aug 14 19:23 7956 Aug 15 10:58 7956 Aug 21 16:12 7956 Aug 29 20:11 7956 Sep 13 19:07 7956 Sep 16 15:09 7956 Sep 30 11:24 7956 Oct 05 22:57	6°846'11 27°821'44 0° II 10° II 58'49 23° II 42'02 27° II 04'05 26° II 30'55 21° II 28'54 21° II 21'38 18° II 25'09 15° II 28'58 13° II 11'41 21° II 11'26 0° II 12'28 1° II 0' II 0' II 0° II 12'28 1° II 04'55	2°08'11 18°05'26 2°36'04 2°35'15 0.61384 AU 27°54'37 1.31943 AU 0°49'00 0°48'33
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise	7955 May 14 03:06 7955 May 16 06:25 7955 May 24 08:49 7955 May 28 01:31 7955 Jun 01 17:54 7955 Jun 09 12:05 7955 Jun 16 15:35 7955 Jun 18 23:35 7955 Jun 26 04:22 7955 Jun 26 07:13 7955 Jun 29 13:55 7955 Jul 01 23:05 7955 Jul 03 11:44 7955 Jul 09 18:41 7955 Jul 24 03:38 7955 Aug 08 20:31 7955 Aug 24 09:08 7955 Aug 24 09:08 7955 Aug 25 00:03 7955 Aug 31 10:58 7955 Aug 31 08:42 7955 Aug 30 22:40 7955 Sep 07 05:15 7955 Sep 07 17:43 7955 Sep 27 22:02 7955 Oct 05 23:45 7955 Oct 19 21:58	26°810'19 0°II 14°II54'45 21°II44'55 0°I 10°I3'43 13°I51'33 9°I09'44 9°I03'38 6°I6'05 4°I6'05 14°I6'05 14°I6'05 15°I6'15 28°I6'15 28°I6'11'27 14°I6'12 21°I6'11'27 14°I6'12 21°I6'11'27	1°50'23 18°15'48 1°37'49 1°36'47 0.59135 AU 27°27'16 1°09'30 1°09'06 1.31678 AU 26°13'46 0.58906 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	7956 Apr 24 06:41 7956 May 06 03:27 7956 May 07 15:09 7956 May 13 22:33 7956 May 23 00:09 7956 May 29 13:18 7956 Jun 01 04:42 7956 Jun 07 17:07 7956 Jun 07 20:02 7956 Jun 10 19:47 7956 Jun 17 20:07 7956 Jun 17 20:07 7956 Jun 17 20:07 7956 Jun 17 20:07 7956 Jul 12 22:42 7956 Jul 12 22:42 7956 Jul 12 22:42 7956 Aug 07 12:13 7956 Aug 09 21:54 7956 Aug 14 21:21 7956 Aug 14 19:23 7956 Aug 15 10:58 7956 Aug 21 16:12 7956 Aug 29 20:11 7956 Sep 13 19:07 7956 Sep 16 15:09 7956 Sep 22 20:12 7956 Sep 30 11:24	6°846'11 27°821'44 0° II 10° II 58'49 23° II 42'02 27° II 04'05 26° II 30'55 21° II 28'54 21° II 21'38 18° II 25'09 15° II 28'58 13° II 1'41 21° II 1'26 0° II 0°	2°08'11 18°05'26 2°36'04 2°35'15 0.61384 AU 27°54'37 1.31943 AU 0°49'00 0°48'33

inferior conj	7956 Oct 13 20:55	26° ≏ 32'19	5020104	min. Earth dist.	7957 Sep 22 11:38	00. 0. 25142	0.55459 AU
minimum elong	7956 Oct 14 00:04		5°27'47	inferior conj	7957 Sep 24 04:48	7° £ 25'39	
morning rise	7956 Oct 22 03:25	20° ⊆ 27′10 22° ⊆ 25′09	3 2/4/	minimum elong	7957 Sep 24 00:45	7° £ 31'35	
direct	7956 Oct 24 16:12	22° ⊆ 23°09 22° ⊆ 07'06		morning rise	7957 Oct 02 15:06	7 = 31 33 3° Ω 34'46	3 23 42
morning max el	7956 Nov 02 23:28	26° £ 31'44	19°18'47	direct	7957 Oct 02 13:00 7957 Oct 05 14:20	3° ⊆ 13'43	
asc. node	7956 Nov 05 21:25	29° £ 42'42	17 10 47	morning max el	7957 Oct 05 14:20 7957 Oct 16 10:31	8° £ 18'00	20°32'35
asc. node	7956 Nov 06 03:00	0°M		asc. node	7957 Oct 10 10:31 7957 Oct 23 18:26	17° £ 20′22	20 32 33
morning set	7956 Nov 20 00:42	23°M56'21		use. Houe	7957 Oct 23 10:20 7957 Oct 31 00:32	0°M	
morning set	7956 Nov 23 01:21	0°×7		morning set	7957 Nov 04 07:29	8°M36'04	
	79301107 23 01.21	~		morning sec	7737 1107 01 07.27	0 1103001	
superior conj	7956 Nov 28 03:21	10° х 03′38	1°24'00	superior conj	7957 Nov 11 19:39	24°M05'44	1°36'30
minimum elong	7956 Nov 28 06:14	10° х 17'37	1°23'51	minimum elong	7957 Nov 11 21:18	24°M14'04	1°36'32
max. Earth dist.	7956 Dec 04 16:40	22° х 25'07	1.38251 AU		7957 Nov 14 18:13	0° ⊼	
evening rise	7956 Dec 08 10:25	29° х 05′24		max. Earth dist.	7957 Nov 16 23:56	4° ₹ 22'40	1.36189 AU
<i>8</i> 11	7956 Dec 08 22:57	0°る		evening rise	7957 Nov 20 21:32	11° √ 44'09	
desc. node	7956 Dec 10 18:06	3°₹05'35		desc. node	7957 Nov 27 15:09	23° ∡ ³37'18	
	7956 Dec 28 02:13	0° ≈			7957 Dec 01 11:58	0° ට	
evening max el	7957 Jan 12 22:26	19° ≈ 28'59	24°56'42		7957 Dec 23 08:00	0° ≈	
retrograde	7957 Jan 24 17:40	26° ≈ 20'32		evening max el	7957 Dec 26 11:24	3°≈15′04	26°05'22
evening set	7957 Jan 30 09:22	23° ≈ 59'25		retrograde	7958 Jan 08 02:55	10° ≈ 26′21	
asc. node	7957 Feb 01 20:37	21° ≈ 28'53		evening set	7958 Jan 14 07:11	7° ≈ 55'09	
min. Earth dist.	7957 Feb 03 21:37	18° ≈ 56′00	0.67759 AU	min. Earth dist.	7958 Jan 18 12:43	3° ≈ 26'18	0.66868 AU
inferior conj	7957 Feb 04 23:24	17° ≈ 31'14	1°00'55	asc. node	7958 Jan 19 17:41	1°≈56'29	
minimum elong	7957 Feb 04 22:00	17° ≈ 35'51	1°00'28	inferior conj	7958 Jan 20 01:55	1°≈30'53	0°06'53
morning rise	7957 Feb 10 10:53	11° ≈ 33'56		minimum elong	7958 Jan 20 01:44	1°≈31'27	0°06'55
direct	7957 Feb 14 01:48	10° ≈ 18'34		transit middle	7958 Jan 20 01:44	1° ≈ 31'27	0°06'55
morning max el	7957 Feb 21 08:46	14° ≈ 22'25	19°38'01	transit begin	7958 Jan 19 23:09	1° ≈ 39'28	
C	7957 Mar 05 09:49	0° ∀		transit end	7958 Jan 20 04:19	1°≈23'27	
greatest brilliancy	7957 Mar 06 02:58	1° ∺ 02'58	-0.7m		7958 Jan 21 07:37	30°₽₹	
desc. node	7957 Mar 08 17:35	4° ∺ 55'36		morning rise	7958 Jan 25 20:56	25° る 42'42	
morning set	7957 Mar 18 21:04	20° ∺ 22'25		direct	7958 Jan 29 00:37	24° る 46'05	
-	7957 Mar 25 02:07	0 ° $\mathbf{\Upsilon}$		morning max el	7958 Feb 04 17:53	28° පි 25'37	18°45'34
max. Earth dist.	7957 Mar 30 20:39	9° Ƴ 04'24	1.44578 AU		7958 Feb 06 05:34	0° ≈	
				desc. node	7958 Feb 23 14:34	25°≈11'52	
superior conj	7957 Apr 04 08:15	16° Ƴ 13'50	-2°10'12	morning set	7958 Feb 26 08:26	29° ≈ 29'48	
minimum elong	7957 Apr 04 05:33	16° Ƴ 02'57	2°10'10		7958 Feb 26 16:08	0° ∀	
	7957 Apr 12 18:25	$_{0\circ}$ 8		max. Earth dist.	7958 Mar 13 13:37	23° 升 18′55	1.45375 AU
evening rise	7957 Apr 18 02:14	8° 8 55'10					
asc. node	7957 Apr 30 19:37	29° 8 45'25		superior conj	7958 Mar 14 17:38	25°) €08'46	-1°52'14
	7957 Apr 30 23:34	Π $^{\circ}0$		minimum elong	7958 Mar 14 08:52	24°) 34′21	1°51'34
evening max el	7957 May 06 13:27	7° Ⅱ 02'54	18°14'02		7958 Mar 17 19:45	0° Y	
retrograde	7957 May 12 22:43	10° Ⅱ 26′20		evening rise	7958 Mar 30 01:44	19° Y 29'52	
evening set	7957 May 15 21:11	9° Ⅱ 40′27			7958 Apr 05 14:22	9° 8	
inferior conj	7957 May 21 21:19	4° Ⅱ 19'59	3°09'34	greatest brilliancy	7958 Apr 05 23:29	0° ႘ 36′28	-0.9m
minimum elong	7957 May 21 23:10	4° Ⅱ 14'49	3°09'11	asc. node	7958 Apr 17 16:41	17° 8 55'55	
min. Earth dist.	7957 May 24 10:59	1° Ⅱ 28'37	0.63514 AU	evening max el	7958 Apr 20 01:09	20° 8 34'09	18°40'52
	7957 May 25 21:20	30° ₹ 8		retrograde	7958 Apr 26 15:32	24° 8 11'53	
morning rise	7957 May 27 23:51	28° 8 07'58		evening set	7958 Apr 29 21:14	23° 8 12'11	
direct	7957 Jun 03 18:10	25° 8 29'43		inferior conj	7958 May 05 12:54	17° 8 34'58	
desc. node	7957 Jun 04 17:08	25° 8 32'38		minimum elong	7958 May 05 13:23	17° 8 33'30	
	7957 Jun 13 18:50	$\Pi^{\circ}0$		min. Earth dist.	7958 May 07 11:25	15° 8 12'55	0.65337 AU
morning max el	7957 Jun 17 15:47	3° Ⅱ 31'55	27°44'03	morning rise	7958 May 11 04:50	11° 8 17'59	
	7957 Jul 07 10:32	0ංම		direct	7958 May 17 18:25	8° 8 30'51	
morning set	7957 Jul 22 08:21	26°951'06		desc. node	7958 May 22 14:09	9° 8 45'42	
	7957 Jul 23 21:50	$0^{\circ}\Omega$		morning max el	7958 May 31 02:08	16° 8 23'11	27°00'13
max. Earth dist.	7957 Jul 27 10:08	7° Ω 17'37	1.32677 AU		7958 Jun 11 08:11	Π °0	
asc. node	7957 Jul 27 18:54	8° Ω 03'57			7958 Jun 30 06:27	0	
			00-40-	morning set	7958 Jul 05 18:37	10°5513'44	
superior conj	7957 Jul 30 04:31	13° Ω 12'16		max. Earth dist.	7958 Jul 10 03:36	18° © 51'24	1.33895 AU
minimum elong	7957 Jul 30 03:22	13° Ω 06'07	0°23'56				
evening rise	7957 Aug 06 03:53	28° Ω 17'26		superior conj	7958 Jul 14 06:20	27°\$20'10	
	7957 Aug 06 23:13	0° m)		minimum elong	7958 Jul 14 06:34	27° © 21'19	0°04'07
	7957 Aug 24 05:04	0∘ ⊽	22012:22	behind sun begin	7958 Jul 14 01:04	26°952'33	
evening max el	7957 Aug 29 02:25	5° £ 30'00	23°13'09	behind sun end	7958 Jul 14 12:03	27°950'08	
desc. node	7957 Aug 31 16:12	7° £ 46'57		asc. node	7958 Jul 14 15:54	28° © 10'21	
retrograde	7957 Sep 11 12:44	12° £ 13'07			7958 Jul 15 12:43	0°N	
evening set	7957 Sep 15 12:33	11° ≏ 38'14		evening rise	7958 Jul 21 14:25	12° Ω 52'00	

	7958 Jul 30 08:19	0° m p			7959 Jul 07 06:24	$0^{\circ}\Omega$	
evening max el	7958 Aug 10 18:28	15° m 50'21	21°36'52	evening max el	7959 Jul 23 22:08	26° Ω 43'36	20°14'39
desc. node	7958 Aug 18 13:17	21° m 08'01	21 3032	evening max or	7959 Jul 28 00:00	0°m	20 1137
retrograde	7958 Aug 23 03:26	21° m/58'30		retrograde	7959 Aug 03 16:10	2° m)01'48	
evening set	7958 Aug 25 18:17	21° mp 42'57		desc. node	7959 Aug 05 10:22	1° mp 53'54	
inferior conj	7958 Sep 03 23:26	17° m 44'07	-4°29'41	evening set	7959 Aug 05 14:49	1° mp 52'10	
minimum elong	7958 Sep 03 14:10	17° Mp 57'06	4°27'27	evening set	7959 Aug 10 23:24	30°RΩ	
min. Earth dist.	7958 Sep 03 20:31	17° mp 48'12	0.54731 AU	inferior conj	7959 Aug 14 17:43	27° Ω 54'10	-2°47'22
morning rise	7958 Sep 12 11:06	13° m 53'38	0.54751710	minimum elong	7959 Aug 14 17:43	28° Ω 05'19	
direct	7958 Sep 16 00:14	13° m 26'13		min. Earth dist.	7959 Aug 16 06:52	26° £ 0319	0.54948 AU
morning max el	7958 Sep 28 09:05	19° m) 17'00	22°06'04	morning rise	7959 Aug 10 00:32 7959 Aug 23 04:22	23° Ω 44'11	0.34948 AU
morning max ci	7958 Oct 07 02:27	0° ⊽	22 00 04	direct	7959 Aug 27 10:51	23°Ω04'47	
asc. node	7958 Oct 10 15:27	0 == 5° £ 44'41		morning max el	7959 Sep 09 23:09	29° Ω 40'15	22051104
	7958 Oct 10 13:27 7958 Oct 19 17:37	23° £ 23'44		morning max ci	7959 Sep 10 07:28	0° M)	23 31 04
morning set	7958 Oct 19 17:37 7958 Oct 22 20:22	23 == 23 44 0° M		asc. node	7959 Sep 27 12:26	24° Mp 43'45	
	1938 OCI 22 20.22	O IIG		asc. node	7959 Sep 27 12.20 7959 Sep 30 05:37	0° ⊡	
aumorior comi	7059 Oat 26 20:40	8°M32'02	1°41'26	marning got	7959 Oct 04 05:14	0 == 8° £ 13'46	
superior conj	7958 Oct 26 20:40			morning set	/939 Oct 04 03.14	8 == 13 40	
minimum elong	7958 Oct 26 20:58	8°M33'34	1°41'32		7050 0 4 11 02 27	220 0 12125	1020145
max. Earth dist.	7958 Oct 30 13:52	16°M15'20	1.34436 AU	superior conj	7959 Oct 11 03:27	23° Ω 13'25	1°39'45
evening rise	7958 Nov 04 00:33	25°M05'31		minimum elong	7959 Oct 11 02:34	23° Ω 08'36	1°39'46
	7958 Nov 06 14:36	0° ∡		max. Earth dist.	7959 Oct 13 12:25	28° Ω 19'49	1.33089 AU
desc. node	7958 Nov 14 12:12	13° ∡ 55′08			7959 Oct 14 07:16	0°M	
	7958 Nov 24 23:43	0°₹		evening rise	7959 Oct 18 15:34	8°M59'05	
evening max el	7958 Dec 09 00:38	16° පි 54'21	26°57'29		7959 Oct 30 00:47	0° ∡	
retrograde	7958 Dec 22 06:32	24° る 13'46		desc. node	7959 Nov 01 09:16	3° ∡ ′52'36	
evening set	7958 Dec 28 22:01	21° る 37'30			7959 Nov 21 06:26	0°ಕ	
min. Earth dist.	7959 Jan 01 21:39	17° る 42'58	0.65617 AU	evening max el	7959 Nov 21 13:02	0° る 15'48	27°25'48
inferior conj	7959 Jan 03 22:25	15° る 23'04		retrograde	7959 Dec 05 03:38	7° る 34'41	
minimum elong	7959 Jan 03 23:59	15° る 18'34	0°53'20	evening set	7959 Dec 12 03:27	5° る 00'30	
asc. node	7959 Jan 06 14:46	12° る 27'47		min. Earth dist.	7959 Dec 15 22:10	1° る 38'40	0.64031 AU
morning rise	7959 Jan 10 03:06	9° る 46'24			7959 Dec 17 12:18	30°Ŗ ⋌ 7	
direct	7959 Jan 12 21:25	9° る 04'49		inferior conj	7959 Dec 18 10:26	29° ∡ 01'59	-2°00'41
morning max el	7959 Jan 19 08:20	12° る 31'17	18°09'38	minimum elong	7959 Dec 18 14:10	28° ∡ 52′15	1°59'02
	7959 Jan 31 19:15	0° ≈		asc. node	7959 Dec 24 11:48	23° ₹ 56'38	
morning set	7959 Feb 07 00:17	10° ≈ 04'02		morning rise	7959 Dec 25 02:31	23° ∡ ³39'58	
desc. node	7959 Feb 10 11:32	15° ≈ 41'33		direct	7959 Dec 27 13:40	23° ₹ 09'32	
	7959 Feb 19 10:12	0° ℋ		morning max el	7960 Jan 03 01:26	26° ∡ ³32'34	17°50'51
					7960 Jan 06 01:27	ರ°0	
superior conj	7959 Feb 21 23:14	4° ₩ 00'49	-1°16'25	morning set	7960 Jan 19 20:18	22° る 01'12	
minimum elong	7959 Feb 21 14:37	3° ∺ 26'51	1°15'19		7960 Jan 24 13:19	0° ≈	
max. Earth dist.	7959 Feb 24 09:04	7° ∺ 47'55	1.45439 AU	desc. node	7960 Jan 28 08:31	6° ≈ 20′29	
evening rise	7959 Mar 10 03:08	29° ∺ 13'43					
	7959 Mar 10 15:03	0 ° Υ		superior conj	7960 Feb 01 19:53	13° ≈ 40′12	-0°31'58
greatest brilliancy	7959 Mar 22 10:34	18° Ƴ 11'58	-0.7m	minimum elong	7960 Feb 01 16:17	13° ≈ 25'36	0°31'21
	7959 Mar 30 18:23	9° 8		max. Earth dist.	7960 Feb 07 04:20	22° ≈ 15′03	1.44767 AU
evening max el	7959 Apr 03 09:06	4° 8 10'25	19°24'41		7960 Feb 12 02:40	0° ∀	
asc. node	7959 Apr 04 13:45	5° 8 18'59		evening rise	7960 Feb 17 15:28	8° ℋ 33'24	
retrograde	7959 Apr 10 12:25	8° 8 13'50			7960 Mar 02 21:37	0 ° Υ	
evening set	7959 Apr 14 02:01	6° 8 59'31		evening max el	7960 Mar 16 11:53	17° Ƴ 48'59	20°23'32
inferior conj	7959 Apr 19 12:28	1° 8 07'00	3°21'52	asc. node	7960 Mar 21 10:49	21° Y '41'24	
minimum elong	7959 Apr 19 11:42	1° 8 09'28	3°21'45	retrograde	7960 Mar 24 10:52	22° Y 27'26	
	7959 Apr 20 08:54	30° ₹Ƴ		evening set	7960 Mar 28 09:22	20° Ƴ 58′00	
min. Earth dist.	7959 Apr 20 19:47	29° Ƴ 24'35	0.66760 AU	inferior conj	7960 Apr 02 17:14	14° Ƴ 52'01	3°07'59
morning rise	7959 Apr 24 21:02	24° Ƴ 49'25		minimum elong	7960 Apr 02 15:35	14° Y 57'42	3°07'43
direct	7959 May 01 01:04	22° Y 05'31		min. Earth dist.	7960 Apr 03 10:22	13° Y 53'32	0.67738 AU
desc. node	7959 May 09 11:09	25° Y 51′26		morning rise	7960 Apr 07 21:34	8° Y 36'12	
morning max el	7959 May 13 12:03	29° Y 32'32	25°51'09	direct	7960 Apr 13 12:59	6° Ƴ 05'17	
-	7959 May 13 22:47	0°8		morning max el	7960 Apr 24 21:06	12° Y 52'19	24°26'43
	7959 Jun 05 04:55	$\Pi^{\circ}0$		desc. node	7960 Apr 25 08:07	13° Y 20'31	
morning set	7959 Jun 18 15:04	22° II 53'37			7960 May 08 16:31	0°8	
-	7959 Jun 22 09:58	0°©			7960 May 28 00:17	0°Щ	
max. Earth dist.		200T 50150	1.35586 AU	morning set	7960 May 30 16:49	4° Ⅱ 38'11	
	7959 Jun 22 09:58	29° Ⅲ 59'58					
	7959 Jun 22 09:58	29°Щ39'38		max. Earth dist.	7960 Jun 03 08:09	11° Ⅱ 06′28	1.37655 AU
superior conj	7959 Jun 22 09:58 7959 Jun 28 00:09	29°H39'38		•		11° Ⅱ 06′28	1.37655 AU
			-0°34'52	•		11° П 06'28 24° П 05'34	
superior conj minimum elong asc. node	7959 Jun 28 00:09 7959 Jun 28 02:12	11°500'33	-0°34'52	max. Earth dist.	7960 Jun 03 08:09	24° Ⅲ 05'34	-1°06'30
minimum elong	7959 Jun 28 00:09	11°©00'33 11°©10'53	-0°34'52	max. Earth dist.	7960 Jun 03 08:09 7960 Jun 10 06:45		-1°06'30

asc. node evening rise	7960 Jun 17 09:54 7960 Jun 18 23:03	8°\$08'30 11°\$13'20		minimum elong evening rise	7961 May 24 03:40 7961 Jun 02 15:43	6°Ⅲ50'40 24°Ⅲ45'31	1°35'37
	7960 Jun 29 04:11	0 $^{\circ}\Omega$		asc. node	7961 Jun 04 06:56	27° Ⅱ 52'12	
evening max el	7960 Jul 05 14:45	8° Ω 20′50	19°12'08		7961 Jun 05 09:58	0ა ௐ	
retrograde	7960 Jul 14 16:22	12° Ω 49'32		evening max el	7961 Jun 18 17:53	20°539'09	18°30'29
evening set	7960 Jul 16 14:00	12° Ω 38'32		retrograde	7961 Jun 26 11:09	24°529'48	
desc. node	7960 Jul 22 07:24 7960 Jul 25 01:33	10° Ω 14'07 8° Ω 27'37	0.50120	evening set	7961 Jun 28 14:40 7961 Jul 06 06:25	24° © 12'53 19° © 42'51	0°51'25
inferior conj minimum elong	7960 Jul 24 23:21	8° Ω 31'19	0°49'43	inferior conj minimum elong	7961 Jul 06 08:12	19° 5 39'19	0°50'39
min. Earth dist.	7960 Jul 27 20:18	6° Ω 36'14	0.56077 AU	desc. node	7961 Jul 09 04:25	17° © 25'34	0 3037
morning rise	7960 Aug 02 05:46	3° Ω 43'05	0.00077110	min. Earth dist.	7961 Jul 09 14:50	17° © 05'57	0.57895 AU
direct	7960 Aug 07 08:10	2° Ω 43'12		morning rise	7961 Jul 13 22:18	14° © 21'45	
morning max el	7960 Aug 21 11:56	9° Ω 55'13	25°32'53	direct	7961 Jul 19 20:00	12° © 52'35	
	7960 Sep 05 16:02	0° m		morning max el	7961 Aug 03 05:24	20° © 31'25	26°54'38
asc. node	7960 Sep 13 09:24	14° Mp 08'43			7961 Aug 11 09:31	0 $^{\circ}$ Ω	
morning set	7960 Sep 17 16:39	23°Mp01'23			7961 Aug 29 08:35	0° ™	
	7960 Sep 20 22:01	0∘ ⊽		asc. node	7961 Aug 31 06:22	3° TQ 52'26	
	7 0.60 G 24.12.41	00.0.00150	1022100	morning set	7961 Sep 02 02:18	7° m)41'55	
superior conj	7960 Sep 24 13:41	8° Ω 02'52	1°32'09 1°32'00		70(1 0 00 01-27	220 m = 4120	1010112
minimum elong max. Earth dist.	7960 Sep 24 11:57 7960 Sep 25 18:07	7° £ 53'15 10° £ 39'13	1.32185 AU	superior conj minimum elong	7961 Sep 09 01:27 7961 Sep 08 23:15	22° m/54'20 22° m/42'09	1°19'13 1°18'53
evening rise	7960 Sep 23 18.07 7960 Oct 01 15:21	10 2 39 13 23° 2 15'54	1.32183 AU	max. Earth dist.	7961 Sep 08 23:13 7961 Sep 09 03:50	22 11/42 09 23° 11/07'36	1.31730 AU
evening rise	7960 Oct 01 13:21 7960 Oct 04 23:10	0°M		max. Earm dist.	7961 Sep 12 06:27	25 ا پر 07 عن 0° Ω	1.51750 AC
desc. node	7960 Oct 18 06:20	23°M20'53		evening rise	7961 Sep 15 21:14	ი — 7° Ω 48'35	
dese. node	7960 Oct 22 19:32	0° √		evening rise	7961 Sep 27 09:46	0° M	
evening max el	7960 Nov 02 22:19	13° ₹ 05'32	27°24'07	desc. node	7961 Oct 05 03:23	12°M08'26	
retrograde	7960 Nov 16 17:35	20° ∡ 19'48		evening max el	7961 Oct 16 01:47	25°M11'40	26°48'53
evening set	7960 Nov 23 20:18	17° ∡ 56′50		-	7961 Oct 22 07:10	0° ∡ ¹	
min. Earth dist.	7960 Nov 27 12:24	15° ₹ 02'44	0.62160 AU	retrograde	7961 Oct 29 23:35	2° ≯ 20'42	
inferior conj	7960 Nov 30 10:55	12° ≯ 19'38	-3°09'59	evening set	7961 Nov 05 20:33	0° ≯ 20'00	
minimum elong	7960 Nov 30 16:51	12° ₹ 05'53	3°07'45		7961 Nov 06 10:06	30°RM	
morning rise	7960 Dec 07 15:29	7° ∡ 15'44		min. Earth dist.	7961 Nov 09 15:54	27°M42'56	0.60103 AU
direct	7960 Dec 09 22:04	6° ₹ 52'52		inferior conj	7961 Nov 12 20:33	25°M07'35	
asc. node	7960 Dec 10 08:51	6° ₹ 53'47	17040151	minimum elong	7961 Nov 13 03:44	24°M52'58	4°14'17
morning max el	7960 Dec 16 18:05	10° メ 21'24 0°る	17°49'51	morning rise	7961 Nov 20 13:17	20°M24'56	
morning set	7960 Dec 29 18:50 7961 Jan 01 14:12	0°る 5°る00'29		direct asc. node	7961 Nov 22 18:35 7961 Nov 27 05:52	20°M06'22 21°M25'37	
morning set	/901 Jan 01 14.12	3 000 29		morning max el	7961 Nov 27 05:52 7961 Nov 30 06:56	23°M49'19	18°07'50
superior conj	7961 Jan 12 17:27	24° ♂ 32'01	0°11'01	morning max ci	7961 Dec 05 06:23	23 11 0 49 19	10 07 30
minimum elong	7961 Jan 12 18:29	24° る 36'25		morning set	7961 Dec 15 23:50	18° × 743'49	
behind sun begin	7961 Jan 12 12:02	24° る 09'02		5 8 2 3 3	7961 Dec 22 00:52	8°0	
behind sun end	7961 Jan 13 00:55	25° る 03'45					
desc. node	7961 Jan 14 05:29	27° る 04'20		superior conj	7961 Dec 25 15:49	6° පි 35'00	0°46'36
	7961 Jan 15 23:30	0° ≈		minimum elong	7961 Dec 25 19:01	6° る 49'22	0°46'16
max. Earth dist.	7961 Jan 19 20:27	6° ≈ 21'38	1.43436 AU	desc. node	7962 Jan 01 02:29	17° る 49'56	
evening rise	7961 Jan 27 05:25	18° ≈ 04'25		max. Earth dist.	7962 Jan 02 07:21	19° る 51'53	1.41607 AU
	7961 Feb 04 00:52	0°) €		evening rise	7962 Jan 07 10:37	28°る19'19	
	7961 Feb 25 23:44	0°γ	2102422		7962 Jan 08 11:41	0° ≈	
evening max el	7961 Feb 27 09:04	1°Υ28'00	21°34'22		7962 Jan 28 16:04	0°) {	22052144
retrograde	7961 Mar 08 08:52 7961 Mar 08 07:54	6° Ƴ 47'22 6° Ƴ 47'21		evening max el	7962 Feb 10 01:38 7962 Feb 20 04:48	15° 米 08'55 21° 米 09'30	22°52'44
asc. node evening set	7961 Mar 12 17:27	5° Υ 02'41		retrograde asc. node	7962 Feb 20 04.48 7962 Feb 23 04:58	20° H 24'04	
evening set	7961 Mar 17 03:27	30° ₹		evening set	7962 Feb 25 00:40	19° H 09'54	
inferior conj	7961 Mar 18 00:55	28°) 45'43	2°43'47	inferior conj	7962 Mar 02 09:33	12°) 45'15	2°10'25
minimum elong	7961 Mar 17 22:45	28°) 53'16	2°43'17	minimum elong	7962 Mar 02 07:18	12°) 53'03	2°09'46
min. Earth dist.	7961 Mar 18 05:06	28°) €31'11	0.68270 AU	min. Earth dist.	7962 Mar 02 01:47	13°) €12'11	0.68380 AU
morning rise	7961 Mar 23 03:54	22°) 33'09		morning rise	7962 Mar 07 13:51	6°) €37'14	
direct	7961 Mar 28 05:20	20°) €21'25		direct	7962 Mar 12 01:13	4°){ 47'30	
morning max el	7961 Apr 07 06:59	26° ₩ 19'11	22°57'00	morning max el	7962 Mar 20 20:54	9° ¥ 54'51	21°30'56
	7961 Apr 10 16:12	$0^{\circ}\Upsilon$		desc. node	7962 Mar 30 02:03	21°) €01'23	
desc. node	7961 Apr 12 05:05	1° Y 49'20			7962 Apr 05 12:03	0° Υ	
	7961 May 02 05:54	0° 8		morning set	7962 Apr 21 16:08	24° Y 31'34	
morning set	7961 May 11 18:19	15° 8 13'14	1.00000		7962 Apr 25 02:09	0°8	1 10001 :=
max. Earth dist.	7961 May 16 04:35	22° 8 41'50	1.39892 AU	max. Earth dist.	7962 Apr 28 05:11	5° 8 06'30	1.42031 AU
	7961 May 20 08:46	Π °0			70(2)4 05 17 27	170 40122	1050140
superior conj	7961 May 23 22:05	6° Ⅲ 25′08	-1°36'11	superior conj minimum elong	7962 May 05 17:27 7962 May 05 22:38	17° 8 48'32 18° 8 11'03	

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	7962 May 12 14:37	Π° 0		minimum elong	7963 Apr 16 13:59	28° Y 12'56	2°11'22
evening rise	7962 May 16 19:42	7° Ⅱ 39'21		8	7963 Apr 17 15:54	0°8	
asc. node	7962 May 22 03:58	17° Ⅱ 18'53		evening rise	7963 Apr 29 06:26	19° 8 44'42	
	7962 May 30 03:23	0ಂಣ		C	7963 May 05 04:48	$\Pi^{\circ}0$	
evening max el	7962 Jun 02 03:48	3°529'26	18°09'03	asc. node	7963 May 09 01:02	6° Ⅱ 22'37	
retrograde	7962 Jun 08 24:00	6°957'21		evening max el	7963 May 16 16:53	16° ∏ 42′20	18°06'55
evening set	7962 Jun 11 11:03	6°ഇ30'56		retrograde	7963 May 23 03:07	20° Ⅲ 03′01	
inferior conj	7962 Jun 18 08:26	1°5940'40	2°05'51	evening set	7963 May 25 21:35	19° Ⅲ 24'36	
minimum elong	7962 Jun 18 11:32	1° 5 33'34	2°04'49	inferior conj	7963 Jun 01 04:18	14° Ⅱ 14'50	2°52'57
	7962 Jun 20 04:11	30° Ŗ Ⅱ		minimum elong	7963 Jun 01 06:52	14° Ⅱ 08'09	2°52'19
min. Earth dist.	7962 Jun 21 16:15	28° Ⅱ 39′23	0.60086 AU	min. Earth dist.	7963 Jun 04 02:04	11° Ⅱ 13'44	0.62317 AU
morning rise	7962 Jun 25 09:11	25° Ⅱ 51'45		morning rise	7963 Jun 07 14:21	8° Ⅱ 08'57	
desc. node	7962 Jun 26 01:29	25° Ⅱ 27'53		desc. node	7963 Jun 12 22:31	5° Ⅱ 47'27	
direct	7962 Jul 01 21:10	23° II 50'23		direct	7963 Jun 14 08:43	5° Ⅱ 41′06	
	7962 Jul 14 08:36	0°ಅ		morning max el	7963 Jun 28 11:16	13° Ⅱ 43′05	27°54'30
morning max el	7962 Jul 16 05:26	1°5945'44	27°43'34		7963 Jul 11 13:04	0 \circ \odot	
	7962 Aug 05 17:12	$0^{\circ}\Omega$			7963 Jul 29 05:05	$0^{\circ}\Omega$	
morning set	7962 Aug 17 08:22	22° Ω 08'52		morning set	7963 Aug 01 08:49	6° Ω 16'43	
asc. node	7962 Aug 18 03:21	23° Ω 48'15		asc. node	7963 Aug 05 00:21	13° Ω 51'37	
	7962 Aug 21 00:52	0° m p		max. Earth dist.	7963 Aug 06 20:18	17° Ω 46'44	1.32200 AU
max. Earth dist.	7962 Aug 23 13:46	5° Mg 33′29	1.31731 AU				
				superior conj	7963 Aug 08 22:09	22° Ω 17'18	0°39'00
superior conj	7962 Aug 24 12:51	7° ™ 40'56	1°01'22	minimum elong	7963 Aug 08 20:28	22° N 08'09	0°38'36
minimum elong	7962 Aug 24 10:40	7° m 28′50	1°00'55		7963 Aug 12 10:38	0° m	
evening rise	7962 Aug 31 06:54	22° m 29'19		evening rise	7963 Aug 15 18:25	7° Mp 12'31	
	7962 Sep 03 21:17	0∘ ত			7963 Aug 27 14:19	0∘ ⊽	
desc. node	7962 Sep 22 00:27	29° ≙ 58'01		desc. node	7963 Sep 08 21:31	16° ≏ 27'03	
	7962 Sep 22 01:05	0°M		evening max el	7963 Sep 09 10:37	16° ≙ 59'07	24°10'16
evening max el	7962 Sep 27 21:33	6°M27′09	25°41'24	retrograde	7963 Sep 23 04:11	23° ♀ 52'09	
retrograde	7962 Oct 11 19:57	13°M30'26		evening set	7963 Sep 28 01:08	22° ≏ 59'51	
evening set	7962 Oct 17 23:14	12°M02'20		min. Earth dist.	7963 Oct 03 21:24		0.56252 AU
min. Earth dist.	7962 Oct 22 09:59	9°M25'44	0.58040 AU	inferior conj	7963 Oct 06 06:52	18° ≏ 36'34	
inferior conj	7962 Oct 25 11:51	7°M15'33		minimum elong	7963 Oct 06 07:11	18° ≏ 36'04	5°33'15
minimum elong	7962 Oct 25 17:40	7° M 05'15	5°08'37	morning rise	7963 Oct 14 15:21	14° ≏ 37'09	
morning rise	7962 Nov 02 14:26	2°M55'34		direct	7963 Oct 17 08:08	14° ≏ 18'05	
direct	7962 Nov 04 22:52	2°M38'14		morning max el	7963 Oct 27 06:34	18° ≏ 58'49	19°47'22
morning max el	7962 Nov 13 12:16	6°M45'14	18°46'29	asc. node	7963 Oct 31 23:54	24° ≏ 26'34	
asc. node	7962 Nov 14 02:54	7°M21'33			7963 Nov 04 16:30	0°M₊	
	7962 Nov 28 08:01	0° ∡		morning set	7963 Nov 14 00:12	17°M29'21	
morning set	7962 Nov 29 20:22	2° ∡ 56'49			7963 Nov 20 04:14	0° ∡	
		=					
superior conj	7962 Dec 08 10:20	19° ∡ ³35′12		superior conj	7963 Nov 21 19:58	3° ≯ 18′23	1°30'17
minimum elong	7962 Dec 08 13:41	19° ∡ ′51′00	1°12'42	minimum elong	7963 Nov 21 22:21	3° ∡ ³30′15	1°30'13
P 4 P	7962 Dec 14 02:00	0°る	1 20 10 7 1 7 7	max. Earth dist.	7963 Nov 27 19:44	14° 🗷 51'38	1.37354 AU
max. Earth dist.	7962 Dec 15 13:49	2° る 39'10	1.39497 AU	evening rise	7963 Dec 01 13:43	21° х 42'46	
desc. node	7962 Dec 18 23:30	8°る33'20		desc. node	7963 Dec 05 20:31	29° х 10'43	
evening rise	7962 Dec 19 13:27	9° ප 32'35			7963 Dec 06 08:09	0° る	
avanie 1	7963 Jan 01 09:39	0°≈ 28°2252148	24912147	avani 1	7963 Dec 26 07:23	0°≈ 12°2241122	25027127
evening max el	7963 Jan 23 15:36	28°≈53'48	24°12'47	evening max el	7964 Jan 06 04:47	12°≈41'22	25°27'37
. 1	7963 Jan 24 19:04	0°) (20)20		retrograde	7964 Jan 18 09:17	19°≈42'08	
retrograde	7963 Feb 03 21:19	5° ∺ 29'30 3° ∺ 15'58		evening set	7964 Jan 24 06:21	17°≈16'33	
evening set	7963 Feb 09 05:31	2° H 28'55		asc. node	7964 Jan 27 23:09	13°≈19'58	0.67422.411
asc. node	7963 Feb 10 02:03			min. Earth dist.	7964 Jan 28 15:46	12°≈27'42	0.67423 AU
min Earth diat	7963 Feb 12 07:01 7963 Feb 13 22:07	30°R≈ 27°2252129	0.68090 AU	inferior conj	7964 Jan 29 22:17 7964 Jan 29 21:20	10°≈49'33 10°≈52'37	0°38'54 0°38'37
min. Earth dist.		27°≈52'28 26°≈47'45	1°28'39	minimum elong		10 ≈32 37 4°≈55'42	0 3837
inferior conj	7963 Feb 14 17:18		1°28'02	morning rise direct	7964 Feb 04 12:40		
minimum elong	7963 Feb 20 01:26	26°≈54'02 20°≈45'51	1 40 04		7964 Feb 07 22:42 7964 Feb 14 22:45	3°≈48'31 7°≈40'23	19°13'43
morning rise direct	7963 Feb 20 01:26	20°≈45'51 19°≈18'17		morning max el		/°≈40°23 25°≈19'20	-0.7m
	7963 Feb 23 23:31	19°≈18'17 23°≈42'06	20°15'13	greatest brilliancy	7964 Feb 28 04:30	25°≈19′20 0°) €	-U. / III
morning max el	7963 Mar 03 17:50	23°≈42'06 0°) €	20 15 15	desa nada	7964 Mar 02 06:36	0° X 0° X 51'08	
daga rada	7963 Mar 09 04:21	0° X 10° X 44'57		desc. node	7964 Mar 02 20:00	11° X 26'18	
desc. node	7963 Mar 16 23:02	10°π44'5/ 0° Υ		morning set	7964 Mar 09 17:04	11° χ 26'18 0° Υ	
morning set	7963 Mar 29 19:15	0°'γ' 2°Υ'54'46		may Earth 3:-4	7964 Mar 21 15:06		1.45004 AU
morning set max. Earth dist.	7963 Mar 31 16:37	18° Υ 24'44	1.43805 AU	max. Earth dist.	7964 Mar 23 04:03	2 1 23 10	1.43004 AU
max. Earth dist.	7963 Apr 10 13:10	10 1 24 44	1.43803 AU	gunorier eg-:	7064 Mar 26 00:06	7° Ƴ 25'57	2005105
superior coni	7063 Apr 16 12:47	28° Ƴ 07'58	2011/10	superior conj	7964 Mar 26 08:06 7964 Mar 26 02:23	7° Υ 03'14	
superior conj	7963 Apr 16 12:47	20 10/38	-2 11 19	minimum elong	7904 Mar 20 02:23	/ 1 05 14	2 0431

	7964 Apr 09 06:41	0° ႘			7965 Feb 23 05:44	0° ∀	
evening rise	7964 Apr 09 19:29	0° 8 52'45					
asc. node	7964 Apr 24 22:07	24° 8 55'02		superior conj	7965 Mar 05 13:24	16°) 12'4 5	-1°38'47
evening max el	7964 Apr 29 05:52	0°Ⅱ08'30	18°23'20	minimum elong	7965 Mar 05 03:47	15°) 35′07	1°37'50
	7964 Apr 29 02:29	$\Pi^{\circ}0$		max. Earth dist.	7965 Mar 05 22:58		1.45498 AU
retrograde	7964 May 05 16:05	3° Ⅱ 36'11			7965 Mar 14 08:32	0 ° \mathbf{Y}	
evening set	7964 May 08 17:42	2° ∏ 44'21		evening rise	7965 Mar 21 09:05	11° Y 04'17	
	7964 May 12 02:51	30° ₹ 8		greatest brilliancy	7965 Mar 30 20:22	26° Y 00′26	-0.8m
inferior conj	7964 May 14 13:46	27° 8 16'31	3°17'31		7965 Apr 02 10:30	0°8	
minimum elong	7964 May 14 15:03	27° 8 12'48	3°17'17	asc. node	7965 Apr 11 19:10	12° 8 46'39	
min. Earth dist.	7964 May 16 21:02	24° 8 36'14	0.64336 AU	evening max el	7965 Apr 12 16:08	13° 8 41'53	18°57'27
morning rise	7964 May 20 11:27	21° 8 01'59		retrograde	7965 Apr 19 11:03	17° 8 29'20	
direct	7964 May 27 04:32	18° 8 18'37		evening set	7965 Apr 22 20:04	16° 8 23'20	202424
desc. node	7964 May 29 19:32	18° 8 40'43 26° 8 17'22	27020107	inferior conj	7965 Apr 28 09:06	10° と 39'06 10° と 39'20	3°24'24 3°24'19
morning max el	7964 Jun 09 20:43 7964 Jun 13 07:13	0°II	27-29'06	minimum elong min. Earth dist.	7965 Apr 28 09:02	8° 8 33'20	0.65995 AU
	7964 Jul 04 03:16	0°9		morning rise	7965 Apr 30 00:57 7965 May 03 21:31	4° 8 21'26	0.03993 AU
morning set	7964 Jul 15 01:08	19° 9 57'52		direct	7965 May 10 07:22	1° 8 34'39	
max. Earth dist.	7964 Jul 19 19:36	29° © 36'58	1.33142 AU	desc. node	7965 May 16 16:34	3° 8 45'16	
max. Latin dist.	7964 Jul 20 00:01	0°Ω	1.55142 AU	morning max el	7965 May 23 07:14	9° 8 17'52	26°33'27
asc. node	7964 Jul 21 21:21	3° Ω 57'52		morning max cr	7965 Jun 08 13:05	0°Ⅱ	20 33 27
use. Houe	7501341 21 21.21	3 0037 32			7965 Jun 26 14:46	0. 0.	
superior conj	7964 Jul 23 03:20	6°Ω37'07	0°12'41	morning set	7965 Jun 28 06:02	3° © 03'24	
minimum elong	7964 Jul 23 02:42	6° Ω 33'46	0°12'26	max. Earth dist.	7965 Jul 02 08:37	10°959'43	1.34560 AU
behind sun begin	7964 Jul 22 23:15	6° Ω 15'19					
behind sun end	7964 Jul 23 06:09	6° Ω 52'13		superior conj	7965 Jul 07 02:03	20°533'41	-0°16'53
evening rise	7964 Jul 30 05:51	21° Ω 51'52		minimum elong	7965 Jul 07 03:00	20° © 38'35	0°16'50
C	7964 Aug 03 04:14	0° m y		asc. node	7965 Jul 08 18:21	24° © 02'55	
evening max el	7964 Aug 20 22:53	27° m 12'49	22°31'03		7965 Jul 11 14:27	$0^{\circ}\Omega$	
	7964 Aug 24 04:15	0∘ 亚		evening rise	7965 Jul 14 15:13	6° Ω 21'13	
desc. node	7964 Aug 25 18:36	1° ≏ 06'16			7965 Jul 27 12:27	0° m	
retrograde	7964 Sep 02 23:58	3° ₽ 43'00		evening max el	7965 Aug 02 19:07	7° m 43'39	20°59'39
evening set	7964 Sep 06 08:43	3° ≏ 18′07		desc. node	7965 Aug 12 15:40	13°M 23'36	
	7964 Sep 13 22:27	30°R Mp		retrograde	7965 Aug 14 12:40	13°My32'17	
min. Earth dist.	7964 Sep 14 05:51		0.55050 AU	evening set	7965 Aug 16 18:20	13°My20'26	
inferior conj	7964 Sep 15 07:53	29° m 12'45		inferior conj	7965 Aug 26 00:28	9° m 23'21	
minimum elong	7964 Sep 15 00:55	29° m 22'37	5°07'51	minimum elong	7965 Aug 25 15:06	9° ™ 36'36	3°47'37
morning rise	7964 Sep 23 19:00	25° m 24'38		min. Earth dist.	7965 Aug 26 14:56	9° ™ 02'52	0.54700 AU
direct	7964 Sep 27 00:04	25° m 01'13		morning rise	7965 Sep 03 12:12	5° m 27'17	
	7964 Oct 08 01:23	0° ⊽	21010114	direct	7965 Sep 07 08:04	4° m 55'53	22050111
morning max el	7964 Oct 08 11:58		21°10'14	morning max el	7965 Sep 20 06:16	11° ™ 05'57 0° ≏	22°50'11
asc. node	7964 Oct 17 20:55	12° £ 25'55		4-	7965 Oct 04 03:02		
morning set	7964 Oct 27 06:46 7964 Oct 28 08:43	0°ጤ 2°ጤ13'59		asc. node morning set	7965 Oct 04 17:54 7965 Oct 12 19:41	1° ≙ 06'16 17° ≙ 03'40	
morning set	7904 OCI 28 08.43	2 11613 39		morning set	7965 Oct 18 20:33	0°M	
superior conj	7964 Nov 04 16:24	17° M .32'29	1°39'28		7703 000 10 20.33	O IIO	
minimum elong	7964 Nov 04 17:28	17°MJ37'58	1°39'31	superior conj	7965 Oct 19 20:12	2°M06'34	1°41'30
max. Earth dist.	7964 Nov 09 05:50	26°M46'56	1.35403 AU	minimum elong	7965 Oct 19 19:57	2°M05'17	1°41'33
	7964 Nov 10 21:14	0° ∡ 7	-	max. Earth dist.	7965 Oct 22 23:25	8°M43'41	1.33807 AU
evening rise	7964 Nov 13 08:08	4° ҂ 141′25		evening rise	7965 Oct 27 16:39	18°M17'36	
desc. node	7964 Nov 21 17:33	19° ∡ ³37'40		ū	7965 Nov 02 21:54	0°⊀	
	7964 Nov 28 04:23	0°ರ		desc. node	7965 Nov 08 14:35	9° ∡ 147'51	
evening max el	7964 Dec 18 18:00	26° る 26'26	26°29'58		7965 Nov 22 09:59	8°0	
	7964 Dec 22 20:37	0° ≈		evening max el	7965 Dec 01 06:51	9° る 58'59	27°12'42
retrograde	7964 Dec 31 16:00	3° ≈ 41'43		retrograde	7965 Dec 14 16:57	17° る 19'22	
evening set	7965 Jan 07 01:27	1° ≈ 07'35		evening set	7965 Dec 21 12:36	14° る 42'38	
	7965 Jan 08 07:51	30°₹ ⋜		min. Earth dist.	7965 Dec 25 09:51	11° る 02'41	0.64986 AU
min. Earth dist.	7965 Jan 11 04:24		0.66385 AU	inferior conj	7965 Dec 27 15:42	8° ප 34'15	
inferior conj	7965 Jan 12 22:31	24°る47'05		minimum elong	7965 Dec 27 18:09	8° る 27'29	1°20'39
minimum elong	7965 Jan 12 23:01	24°₹45'35	0°17'52	asc. node	7965 Dec 31 17:15	4°る32'33	
asc. node	7965 Jan 13 20:12	23° 3 42'26		morning rise	7966 Jan 03 01:06	3°₹03'46	
morning rise	7965 Jan 18 21:25	19° る 03'35		direct	7966 Jan 05 16:03	2°る27'28	17050130
direct	7965 Jan 21 20:58	18°る13'44	1002011	morning max el	7966 Jan 12 02:29	5° る 51'13	17°59'32
morning max el	7965 Jan 28 10:28 7965 Feb 04 00:39	21°る46'00 0°≈	18°28'16	morning sof	7966 Jan 28 10:14 7966 Jan 29 20:12	0°≈ 2°≈20'50	
morning set	7965 Feb	0°≈ 21°≈09'37		morning set desc. node	7966 Jan 29 20:12 7966 Feb 04 13:56	2°≈20′50 11°≈48′07	
morning set desc. node	7965 Feb 17 15:52 7965 Feb 17 16:59	21°≈09'37 21°≈14'04		uesc. noue	/300 FCU U4 13:30	11 2480/	
acse. Houc	1705100 11 10.39	∠ı ∞ 1404					

superior conj	7966 Feb 12 23:27	25° ≈ 20′00	-0°57'56		7967 Jan 20 23:13	0° ≈	
minimum elong	7966 Feb 12 16:42	24°≈53'11	0°56'58	desc. node	7967 Jan 22 10:52	2° ≈ 29'16	
max. Earth dist.	7966 Feb 15 22:13 7966 Feb 16 18:31	0° ∺ 1° ∺ 19'52	1.45239 AU	superior conj	7967 Jan 24 06:09	5° ≈ 28'53	0°13'06
evening rise	7966 Mar 01 03:19	20°\(\frac{1}{3}3'29\)	1.43239 AU	minimum elong	7967 Jan 24 04:47	5°≈23'11	0°12'47
e vennig 1190	7966 Mar 07 06:57	0°Υ		behind sun begin	7967 Jan 23 23:00	4°≈59'17	0 12 17
greatest brilliancy	7966 Mar 15 04:15	11° Y 53'23	-0.6m	behind sun end	7967 Jan 24 10:34	5° ≈ 47'04	
evening max el	7966 Mar 26 21:52	27° Ƴ 18'46	19°48'00	max. Earth dist.	7967 Jan 30 12:05	15° ≈ 37'44	1.44273 AU
asc. node	7966 Mar 29 16:14	29° Y 45'35		evening rise	7967 Feb 08 14:17	29° ≈ 52'39	
	7966 Mar 30 00:18	0° 8			7967 Feb 08 16:12	0°) €	
retrograde	7966 Apr 03 08:59	1° 엉 36'35 0° 엉 15'58		avanina may al	7967 Mar 01 00:26 7967 Mar 09 22:11	0°Υ 10°Υ57'13	20°52'31
evening set	7966 Apr 07 02:09 7966 Apr 07 10:36	0 O13 38 30°RΥ		evening max el asc. node	7967 Mar 16 13:18	10 γ 37 13 15° Υ 37'07	20 32 31
inferior conj	7966 Apr 12 11:11	24° Υ 17'18	3°17'21	retrograde	7967 Mar 18 07:26	15° Y '52'57	
minimum elong	7966 Apr 12 10:00	24° Y 21'15	3°17'11	evening set	7967 Mar 22 09:59	14° Ƴ 17'15	
min. Earth dist.	7966 Apr 13 12:19	22° Y 53'15	0.67225 AU	inferior conj	7967 Mar 27 17:27	8° Y 06'21	2°58'55
morning rise	7966 Apr 17 17:34	17° Ƴ 59'57		minimum elong	7967 Mar 27 15:32	8° Y 13'01	2°58'32
direct	7966 Apr 23 16:21	15° Y 20'40		min. Earth dist.	7967 Mar 28 05:01	7° Y ′26′26	0.68016 AU
desc. node	7966 May 03 13:34	20° Y 29'39		morning rise	7967 Apr 01 20:51	1° Υ 51'34	
morning max el	7966 May 05 16:55	22° Ƴ 33'07	25°16'32	J:4	7967 Apr 04 16:09	30° ₹ ₩	
	7966 May 12 05:53 7966 Jun 01 20:23	0° Ⅱ		direct	7967 Apr 07 06:25 7967 Apr 10 00:50	29° ¥ 27'59 0° Ƴ	
morning set	7966 Jun 10 19:14	15° Ⅱ 21'56		morning max el	7967 Apr 18 01:50	5° Υ 55'17	23°48'32
max. Earth dist.	7966 Jun 14 10:52	22° I 03'41	1.36420 AU	desc. node	7967 Apr 20 10:33	8° Υ 26'19	23 1032
	7966 Jun 18 14:40	0°ම			7967 May 06 16:51	0°8	
				morning set	7967 May 23 11:17	26° 8 38'18	
superior conj	7966 Jun 20 15:32	4°900'03	-0°48'20		7967 May 25 10:05	Π °0	
minimum elong	7966 Jun 20 18:26	4° © 14'28	0°47'56	max. Earth dist.	7967 May 27 06:48	3° Ⅱ 16′03	1.38596 AU
asc. node	7966 Jun 25 15:20	14°503'04			7067 1 02 16 00	1.60 T 4.6147	1010124
evening rise	7966 Jun 28 20:18 7966 Jul 03 14:43	20° © 34'21 0° Ω		superior conj minimum elong	7967 Jun 03 16:09 7967 Jun 03 20:59	16° Ⅱ 46'47 17° Ⅱ 09'35	
evening max el	7966 Jul 16 04:25	18° Ω 55'37	19°45'36	minimum eiong	7967 Jun 10 12:36	17 п 0933	1 10 39
retrograde	7966 Jul 26 05:08	23°Ω52'14	17 43 30	evening rise	7967 Jun 12 18:24	4° 5 23'21	
evening set	7966 Jul 28 01:41	23° Ω 42'49		asc. node	7967 Jun 12 12:21	3°953'45	
desc. node	7966 Jul 30 12:45	23° Ω 03′28			7967 Jun 28 06:05	0 $^{\circ}$ Ω	
inferior conj	7966 Aug 05 23:12	19° Ω 40'48	-1°57'36	evening max el	7967 Jun 29 02:01	0° Ω 51'19	18°51'59
minimum elong	7966 Aug 05 17:48	19° Ω 49'09	1°55'39	retrograde	7967 Jul 07 12:27	5° Ω 01'35	
min. Earth dist.	7966 Aug 08 02:46	18° Ω 21'08	0.55315 AU	evening set	7967 Jul 09 12:13	4° Ω 48'33	
morning rise direct	7966 Aug 14 07:49 7966 Aug 18 22:20	15° Ω 16'51 14° Ω 29'56		desc. node inferior conj	7967 Jul 17 09:50 7967 Jul 17 15:29	0° Ω 40'25 0° Ω 30'18	000416
morning max el	7966 Sep 01 19:07	21° Ω 23'06	24°35'47	minimum elong	7967 Jul 17 15:18	0° Ω 30'37	
morning max er	7966 Sep 09 06:59	0° mp	21 33 17	transit middle	7967 Jul 17 15:18	0° Ω 30'37	
asc. node	7966 Sep 21 14:52	20° m) 17'29		transit begin	7967 Jul 17 11:43	0° Ω 37'02	
	7966 Sep 26 09:59	0∘ ত		transit end	7967 Jul 17 18:53	0° Ω 24'11	
morning set	7966 Sep 27 07:26	1° £ 53'33			7967 Jul 18 08:20	30° ₹ 5	
				min. Earth dist.	7967 Jul 20 18:15	28° © 17'18	0.56783 AU
superior conj	7966 Oct 04 04:44	16° £ 52'46	1°37'13 1°37'10	morning rise	7967 Jul 25 15:02	25°\$29'45 24°\$17'52	
minimum elong max. Earth dist.	7966 Oct 04 03:26 7966 Oct 06 01:06	16° ♀ 45'42 20° ♀ 54'03	1.32646 AU	direct	7967 Jul 31 02:17 7967 Aug 12 12:07	24 3 17 32 0° Ω	
max. Lattii dist.	7966 Oct 10 08:04	0°M	1.52040 AC	morning max el	7967 Aug 14 09:09	1° Ω 42'50	26°10'57
evening rise	7966 Oct 11 11:47	2°M22'24			7967 Sep 03 09:22	0° my	
desc. node	7966 Oct 26 11:37	29°M34'09		asc. node	7967 Sep 08 11:50	9° m 50'38	
	7966 Oct 26 18:10	0° ∡ ¹		morning set	7967 Sep 11 18:17	16° m 38'04	
evening max el	7966 Nov 13 18:05	23° ∡ 08'13	27°28'57		7967 Sep 17 21:09	0∘ ত	
	7966 Nov 24 09:23	0°る			5 0.5 5 0 10 15 50	100 400	1005115
retrograde	7966 Nov 27 11:23 7966 Nov 30 10:44	0°る26'15 30°R♂		superior conj minimum elong	7967 Sep 18 15:50 7967 Sep 18 13:51	1° £ 43'26 1° £ 32'25	1°27'17 1°27'04
evening set	7966 Dec 04 13:08	27° ₹ 755′26		max. Earth dist.	7967 Sep 19 08:47	3° £ 17'08	1.31935 AU
min. Earth dist.	7966 Dec 08 06:14		0.63268 AU	evening rise	7967 Sep 25 14:27	16° £ 46'39	1.51755 AU
inferior conj	7966 Dec 10 23:11	22° ₹ 05'02		U .	7967 Oct 02 05:47	0°M	
minimum elong	7966 Dec 11 03:53	21° ₹ 53'21	2°28'03	desc. node	7967 Oct 13 08:42	18°M46'32	
morning rise	7966 Dec 17 20:33	16° ₹ 50′23			7967 Oct 21 17:23	0° ∡ 7	
asc. node	7966 Dec 18 14:18	16° ₹ 36'26		evening max el	7967 Oct 27 01:24	5° ×7 41'19	27°13'24
direct	7966 Dec 20 05:15	16° × 23'46	170/0106	retrograde	7967 Nov 09 22:13	12° × 753'08	
morning max el	7966 Dec 26 19:48 7967 Jan 03 09:41	19° メ 48'21 0°る	17°48'06	evening set min. Earth dist.	7967 Nov 16 23:31 7967 Nov 20 16:08	10° ₹ 38'41 7° ₹ 53'07	0.61298 AU
morning set	7967 Jan 12 02:18	0 3 14° 3 46'28		inferior conj	7967 Nov 20 16:08 7967 Nov 23 17:50	7 x ·3307 5° x ⁷ 11'31	
		• 1020			.,		

minimum elong	7967 Nov 24 00:29	4° ₹ 56'53	3°36'42	inferior conj	7968 Nov 04 20:03	17° M L43'28	-4°41'24
morning rise	7967 Dec 01 03:41	0° ≯ 16′00	3 30 .2	minimum elong	7968 Nov 05 03:06	17°M29'58	4°39'43
	7967 Dec 02 08:02	30°RM		morning rise	7968 Nov 12 17:21	13°M10'10	
direct	7967 Dec 03 09:12	29°M55'22		direct	7968 Nov 14 23:32	12°M52'22	
	7967 Dec 04 10:10	0° √		asc. node	7968 Nov 21 08:22	15°M23'04	
asc. node	7967 Dec 05 11:20	0° ≯ 14'09		morning max el	7968 Nov 22 21:15	16°M44'12	18°21'41
morning max el	7967 Dec 10 11:13	3° ₹ 29'15	17°55'00	Č	7968 Dec 02 06:11	0° ∡ ¹	
morning set	7967 Dec 26 03:40	28° ₰ 06'59		morning set	7968 Dec 08 18:30	12° ҂ 04'43	
-	7967 Dec 27 04:25	0°రె					
				superior conj	7968 Dec 17 22:19	29° ҂ 21′20	0°58'55
superior conj	7968 Jan 05 14:41	16° ප 52'07	0°27'11	minimum elong	7968 Dec 18 01:46	29° ∡ ³37′09	0°58'36
minimum elong	7968 Jan 05 16:57	17° ට 01'56	0°26'59		7968 Dec 18 06:45	0°ರ	
desc. node	7968 Jan 09 07:51	23° ප 14'14		max. Earth dist.	7968 Dec 25 11:35	12° る 45'25	1.40732 AU
max. Earth dist.	7968 Jan 13 02:07	29° る 30'34	1.42713 AU	desc. node	7968 Dec 26 04:50	13° る 59'07	
	7968 Jan 13 09:16	0° ≈		evening rise	7968 Dec 29 23:41	20° る 19'22	
evening rise	7968 Jan 19 09:33	9° ≈ 40'07			7969 Jan 05 00:28	0° ≈	
	7968 Feb 01 19:32	0° ∀			7969 Jan 26 01:32	0°) €	
evening max el	7968 Feb 20 17:24	24°) (37′47	22°07'11	evening max el	7969 Feb 02 08:43	8° ¥ 20′37	23°26'56
	7968 Feb 28 10:44	0 $^{\circ}$ Υ		retrograde	7969 Feb 12 23:09	14°) 36′31	
retrograde	7968 Mar 01 04:38	0° Ƴ 14'29		asc. node	7969 Feb 17 07:30	13°) €03'43	
asc. node	7968 Mar 02 10:24	0° Y 06'38		evening set	7969 Feb 18 00:18	12° ∺ 30′39	
	7968 Mar 02 20:53	30° ₹ ₩		inferior conj	7969 Feb 23 10:17	6°) 04'06	1°53'41
evening set	7968 Mar 05 17:53	28° ∺ 23'32		minimum elong	7969 Feb 23 08:08	6° ℋ 11'28	1°53'02
inferior conj	7968 Mar 11 01:47	22° ℋ 03'07	2°30'42	min. Earth dist.	7969 Feb 22 21:33	6°) 47'45	0.68312 AU
minimum elong	7968 Mar 10 23:32	22° 升 10′59	2°30'07	morning rise	7969 Feb 28 15:56	29° ≈ 58'45	
min. Earth dist.	7968 Mar 11 00:51	22°) €06'24	0.68372 AU		7969 Feb 28 15:18	30° R ≈	
morning rise	7968 Mar 16 05:00	15°) 52′23		direct	7969 Mar 04 21:34	28° ≈ 18'36	
direct	7968 Mar 21 00:32	13° ¥ 49'37			7969 Mar 09 13:50	0° ∀	
morning max el	7968 Mar 30 12:50		22°19'25	morning max el	7969 Mar 13 05:33	3° ∺ 05'37	20°57'10
desc. node	7968 Apr 06 07:29	27° ∺ 15'15		desc. node	7969 Mar 24 04:27	16°) 41′37	
	7968 Apr 08 10:12	$0^{\circ}\mathbf{\Upsilon}$			7969 Apr 02 08:45	0° Υ	
	7968 Apr 28 21:06	0°8		morning set	7969 Apr 12 12:05	15° Y 29'37	
morning set	7968 May 03 01:00	6° 8 40'09		max. Earth dist.	7969 Apr 20 08:48	28° Y 01'52	1.42852 AU
max. Earth dist.	7968 May 08 04:34	15° 8 11'34	1.40838 AU		7969 Apr 21 13:44	0° 8	
superior conj	7968 May 15 23:37	28° 8 44'06	-1°47'13	superior conj	7969 Apr 27 09:05	9° 8 40'30	-2°06'27
minimum elong	7968 May 16 05:21	29° 8 09'49		minimum elong	7969 Apr 27 13:06	9° 8 57'30	2°06'21
minimum clong	7968 May 16 16:32	0° Ⅱ	1 4043	evening rise	7969 May 09 03:24	0° Ⅱ 14'44	2 0021
evening rise	7968 May 26 06:10	17° Ⅱ 40′20		evening rise	7969 May 09 00:06	0°II	
asc. node	7968 May 29 09:23	23° II 30'50		asc. node	7969 May 16 06:27	12° I I48'30	
use. Houe	7968 Jun 01 23:38	0°9		evening max el	7969 May 25 20:10	26° I I24'51	18°05'46
evening max el	7968 Jun 11 08:33	13° 5 24'21	18°18'55	retrograde	7969 Jun 01 10:52	29° I I48'08	10 02 10
retrograde	7968 Jun 18 15:11	17°503'06	10 10 33	evening set	7969 Jun 04 01:07	29° I 16'48	
evening set	7968 Jun 20 22:03	16°542'21		inferior conj	7969 Jun 10 15:43	24° I 17'43	2°28'55
inferior conj	7968 Jun 28 05:34	12°903'27	1°26'34	minimum elong	7969 Jun 10 18:44	24° I I10'23	2°28'02
minimum elong	7968 Jun 28 08:13	11° © 57'52	1°25'33	min. Earth dist.	7969 Jun 13 19:54	21° I I13'53	0.61046 AU
min. Earth dist.	7968 Jul 01 15:11	9°513'29	0.58811 AU	morning rise	7969 Jun 17 10:00	18° Ⅲ 20′13	
desc. node	7968 Jul 03 06:53	7° © 58'30		desc. node	7969 Jun 20 03:55	16° Ⅱ 52'35	
morning rise	7968 Jul 05 15:12	6°€29'32		direct	7969 Jun 24 01:29	16° Ⅱ 06'54	
direct	7968 Jul 11 19:59	4°গু46'35		morning max el	7969 Jul 08 08:04	24° Ⅱ 05'56	27°53'02
morning max el	7968 Jul 26 05:08	12° © 32'36	27°19'57		7969 Jul 13 15:54	0ಂತಾ	
	7968 Aug 08 23:20	$0^{\circ}\Omega$			7969 Aug 02 06:55	$0^{\circ}\Omega$	
asc. node	7968 Aug 25 08:49	29° Ω 39'37		morning set	7969 Aug 10 06:36	15° Ω 32'38	
	7968 Aug 25 12:44	O° m p		asc. node	7969 Aug 12 05:49	19° Ω 39'16	
morning set	7968 Aug 26 02:37	1° m)12'47		max. Earth dist.	7969 Aug 16 04:22	28° Ω 08'48	1.31873 AU
					7969 Aug 17 00:38	0° m	
superior conj	7968 Sep 02 03:39	16° Mp 32′50	1°12'12				
minimum elong	7968 Sep 02 01:24	16° Mp 20′20	1°11'50	superior conj	7969 Aug 17 14:24	1°Mp15'44	0°52'24
max. Earth dist.	7968 Sep 01 19:10	15° m 45'47	1.31678 AU	minimum elong	7969 Aug 17 12:22	1°Mp04'31	0°51'57
	7968 Sep 08 06:39	0∘ ত		evening rise	7969 Aug 24 08:56	16°№05'50	
evening rise	7968 Sep 08 22:13	1° ≏ 23'12			7969 Aug 31 05:00	0∘ ত	
	7968 Sep 24 07:33	0°M		desc. node	7969 Sep 16 02:52	24° ≙ 30'05	
desc. node	7968 Sep 29 05:47	7° M 11′22		evening max el	7969 Sep 19 18:21	28° ≏ 21′00	25°04'40
evening max el	7968 Oct 08 01:57	17°M26'23	26°23'51		7969 Sep 21 14:14	0° M ₊	
retrograde	7968 Oct 21 23:59	24°M32'08		retrograde	7969 Oct 03 15:20	5°M21'06	
evening set	7968 Oct 28 15:09	22°M44'28		evening set	7969 Oct 09 07:26	4°M08'05	
: TO (1 1) (
min. Earth dist.	7968 Nov 01 15:17	20°11L09'57	0.59211 AU	min. Earth dist.	7969 Oct 14 05:48	1°M26'22	0.57225 AU

	7969 Oct 16 10:01	30° R₽		evening set	7970 Sep 18 23:55	14° ≏ 47'34	
inferior conj	7969 Oct 17 02:49	29° £ 31'54 -5°2	224'26	min. Earth dist.	7970 Sep 25 15:37	11° ≏ 40'05	0.55643 AU
minimum elong	7969 Oct 17 06:48	29° £ 25'14 5°2		inferior conj	7970 Sep 27 13:28	10° ⊆ 32'17	
morning rise	7969 Oct 25 08:28	25° £ 21'40	23 37	minimum elong	7970 Sep 27 10:34	10° ⊆ 36'36	
direct	7969 Oct 27 19:56	25° £ 03'55		morning rise	7970 Oct 05 23:23	6° ₽ 39'33	0 2, 02
morning max el	7969 Nov 05 22:20		0°09'44	direct	7970 Oct 08 20:46	6° ₽ 19'08	
morning max cr	7969 Nov 06 13:09	0° M	0) 11	morning max el	7970 Oct 19 11:21	11° ⊆ 17'14	20°20'08
asc. node	7969 Nov 08 05:23	1°M50'23		asc. node	7970 Oct 19 11:21 7970 Oct 26 02:22	11 — 17 14 19° ≏ 19'51	20 20 00
morning set	7969 Nov 22 18:33	26°M27'21		use. Hode	7970 Nov 01 09:58	0°M	
morning sec	7969 Nov 24 13:17	0° ∡ 7		morning set	7970 Nov 07 00:37	11°ML05'10	
	7,00,1101 21 13.17	· /		morning sec	77701107 07 00.57	11 11005 10	
superior conj	7969 Nov 30 23:55	12° ∡ ¹42'03 1°°	21'22	superior conj	7970 Nov 14 14:36	26°M39'26	1°35'07
minimum elong	7969 Dec 01 02:57		21'10	minimum elong	7970 Nov 14 16:26	26°M48'46	1°35'06
max. Earth dist.	7969 Dec 07 17:21		38571 AU		7970 Nov 16 06:33	0° ₹	1 22 00
max. Earth dist.	7969 Dec 10 08:58	0°る	30371710	max. Earth dist.	7970 Nov 19 23:55	7° ∡ 16'42	1.36483 AU
evening rise	7969 Dec 11 11:56	1° る 57'32		evening rise	7970 Nov 23 20:21	14°×729'07	1.50 105 110
desc. node	7969 Dec 13 01:52	4°る40'33		desc. node	7970 Nov 29 22:55	25° × 13'49	
dese. Hode	7969 Dec 29 05:50	0°≈		desc. node	7970 Dec 02 19:44	0° る	
evening max el	7970 Jan 15 21:59		l°45'31		7970 Dec 02 19:44 7970 Dec 23 24:00	0°≈	
	7970 Jan 13 21:39 7970 Jan 27 13:55	22 ≈00 21 24 28°≈54'24	4331	avanina may al		0 ≈ 5°≈53'03	25056105
retrograde				evening max el	7970 Dec 29 11:00 7971 Jan 10 23:58		23 36 03
evening set	7970 Feb 02 03:40	26°≈35'06		retrograde		13°≈02'09	
asc. node	7970 Feb 04 04:35	24°≈33'35	68058 ATT	evening set	7971 Jan 17 02:20	10°≈32'19	0.67021.444
min. Earth dist.	7970 Feb 06 16:59		67857 AU	min. Earth dist.	7971 Jan 21 08:51	5°≈58'12	0.67021 AU
inferior conj	7970 Feb 07 17:05		08'28	asc. node	7971 Jan 22 01:39	5°≈05'46	
minimum elong	7970 Feb 07 15:32		07'58	inferior conj	7971 Jan 22 20:18	4° ≈ 07'05	0°15'33
morning rise	7970 Feb 13 03:37	14° ≈ 08'05		minimum elong	7971 Jan 22 19:54	4° ≈ 08'21	0°15'30
direct	7970 Feb 16 20:19	12° ≈ 49'43		transit middle	7971 Jan 22 19:54	4° ≈ 08'21	0°15'30
morning max el	7970 Feb 24 06:03		9°47'08	transit begin	7971 Jan 22 19:07	4° ≈ 10'47	
	7970 Mar 06 13:07	0° ∀		transit end	7971 Jan 22 20:40	4° ≈ 05'56	
greatest brilliancy	7970 Mar 09 02:25	3°) 42′01 -0.	.6m		7971 Jan 26 10:23	30°₽₹	
desc. node	7970 Mar 11 01:24	6°) ₹35′25		morning rise	7971 Jan 28 14:02	28° る 17'16	
morning set	7970 Mar 22 09:23	23°) (47'14		direct	7971 Jan 31 19:17	27° る 18'01	
	7970 Mar 26 09:44	0 ° Υ			7971 Feb 06 12:08	0° ≈	
max. Earth dist.	7970 Apr 02 19:50	11° Y '39'20 1.4	44397 AU	morning max el	7971 Feb 07 14:06	1° ≈ 00'32	18°52'19
				desc. node	7971 Feb 25 22:22	26° ≈ 49'19	
superior conj	7970 Apr 07 17:40	19° Ƴ 31′27 -2°	11'07		7971 Feb 27 23:20	0°) €	
minimum elong	7970 Apr 07 16:02	19° Y ′24'53 2°	11'09	morning set	7971 Mar 01 17:22	2°) 43′57	
	7970 Apr 14 03:03	0° ႘		max. Earth dist.	7971 Mar 16 12:17	25°) € 50'45	1.45301 AU
evening rise	7970 Apr 21 05:23	11° 8 56'20					
	7970 May 02 01:33	$\Pi^{\circ}0$		superior conj	7971 Mar 18 05:16	28°) 31'41	-1°56'16
asc. node	7970 May 03 03:32	1° Ⅲ 39'47		minimum elong	7971 Mar 17 21:06	27° ¥ 59'36	1°55'42
evening max el	7970 May 09 09:28	9° Ⅱ 43'36 18	3°11'39		7971 Mar 19 03:43	$0^{\circ}\mathbf{Y}$	
retrograde	7970 May 15 18:46	13° Ⅱ 05'59		evening rise	7971 Apr 02 08:27	22° Y ′39'48	
evening set	7970 May 18 16:09	12° Ⅲ 22'09		C	7971 Apr 06 21:04	0°8	
inferior conj	7970 May 24 17:52		05'48	asc. node	7971 Apr 20 00:36	19° 8 56'36	
minimum elong	7970 May 24 19:55		05'23	evening max el	7971 Apr 22 21:37	23° 8 14'00	18°35'46
min. Earth dist.	7970 May 27 09:47		63208 AU	retrograde	7971 Apr 29 10:38	26° 8 48'38	
morning rise	7970 May 30 22:15	0°П53'44		evening set	7971 May 02 15:16	25° 8 50'59	
8	7970 Jun 01 04:58	30°R ႘		inferior conj	7971 May 08 07:59	20° 8 16'16	3°22'18
direct	7970 Jun 06 16:47	28° 8 17'43		minimum elong	7971 May 08 08:40	20° 8 14'11	3°22'11
desc. node	7970 Jun 07 00:57	28° 8 18'05		min. Earth dist.	7971 May 10 08:49	17° 8 49'03	0.65092 AU
desc. node	7970 Jun 12 15:48	0°П		morning rise	7971 May 14 01:19	13° 8 59'48	0.03072710
morning max el	7970 Jun 20 15:57	6° П 20'37 27	1°17'55	direct	7971 May 20 16:01	11° 8 13'09	
morning max cr	7970 Jul 08 15:40	0°5	4733	desc. node	7971 May 24 21:58	12° 8 11'14	
morning set	7970 Jul 25 03:55	29° © 30'04		morning max el	7971 Jun 03 02:04	19° 8 07'35	27000122
morning set	7970 Jul 25 09:53	29 \$30 04 0°Ω		morning max ci	7971 Jun 03 02:04 7971 Jun 12 07:15	0°Ⅱ	41 00 33
asc. node	7970 Jul 30 02:47	9° Ω 44'09			7971 Juli 12 07:13	0°©	
max. Earth dist.	7970 Jul 30 02:47		32535 AU	morning set	7971 Jul 01 15:46 7971 Jul 08 15:49	12° © 57'29	
max. Earni aist.	1910 Jul 30 08:14	10 061303 1.3	32333 AU	morning set			1 22404 411
avmani ·	7070 4 01 22 10	150 0 45107 000	20110	max. Earth dist.	7971 Jul 13 03:08	21°550'16	1.33684 AU
superior conj	7970 Aug 01 22:10		28'18	asc. node	7971 Jul 16 23:47	29° © 50'29	
minimum elong	7970 Aug 01 20:52		27'55		7071 I I I 17 00 70	200	0000120
	7970 Aug 08 11:42	0° Mp		superior conj	7971 Jul 17 00:55	29°956'27	0°00'29
evening rise	7970 Aug 08 20:36	0° m 47'37		minimum elong	7971 Jul 17 00:53	29°\$56'19	0°00'21
	7970 Aug 24 23:02	0∘ ⊽		behind sun begin	7971 Jul 16 19:18	29°\$26'55	
evening max el	7970 Sep 01 05:50	8° △ 40'09 23	3°28'03	behind sun end	7971 Jul 17 06:28	0° Ω 25'46	
desc. node	7970 Sep 02 23:58	10° Ω 16'17			7971 Jul 17 01:35	$0^{\circ}\Omega$	
retrograde	7970 Sep 14 18:37	15° ≏ 26'31		evening rise	7971 Jul 24 07:23	15° Ω 23'16	

	7971 Jul 31 15:12	0° m			7972 Jul 07 17:52	0°N	
evening max el	7971 Aug 13 20:38	18° m 57'32	21°50'33	evening max el	7972 Jul 25 22:15	29° Ω 44'08	20°25'41
desc. node	7971 Aug 20 21:02	23° m 58'37		v , v 8 v .	7972 Jul 26 04:45	0° m/	
retrograde	7971 Aug 26 10:15	25° m 11'44		retrograde	7972 Aug 05 22:26	5° mp 10'18	
evening set	7971 Aug 29 05:15	24° m 54'15		desc. node	7972 Aug 06 18:06	5° m 08'36	
inferior conj	7971 Sep 07 09:19	20° m 54'12	-4°41'40	evening set	7972 Aug 07 22:25	5°m 00'19	
minimum elong	7971 Sep 07 00:25	21° m 06'40	4°39'43	inferior conj	7972 Aug 17 02:38	1° m 03'00	-3°04'41
min. Earth dist.	7971 Sep 07 00:19	21°M)06'49	0.54787 AU	minimum elong	7972 Aug 16 18:25	1° Mp 14'56	3°01'56
morning rise	7971 Sep 15 20:52	17° m 04'55		min. Earth dist.	7972 Aug 18 10:09	0° mp 17'15	0.54852 AU
direct	7971 Sep 19 07:54	16°M 38'36			7972 Aug 18 22:09	30° R Ω	
morning max el	7971 Oct 01 11:29	22°M 22'12	21°51'05	morning rise	7972 Aug 25 13:43	26° Ω 57'21	
	7971 Oct 08 00:57	0∘ ⊽		direct	7972 Aug 29 17:23	26° Ω 20'18	
asc. node	7971 Oct 12 23:21	7° ≏ 37'40			7972 Sep 08 16:49	O° Mp	
morning set	7971 Oct 22 10:21	25° ≏ 51'52		morning max el	7972 Sep 12 02:21	2° m 49'10	23°35'19
	7971 Oct 24 09:26	0° M		asc. node	7972 Sep 28 20:19	26° Mp 32'11	
					7972 Sep 30 16:01	0° ت	
superior conj	7971 Oct 29 14:28	11°M02'25	1°41'08	morning set	7972 Oct 05 21:52	10° ≙ 42'13	
minimum elong	7971 Oct 29 14:58	11°M05'00	1°41'13				
max. Earth dist.	7971 Nov 02 12:47	19°M09'23	1.34677 AU	superior conj	7972 Oct 12 20:33	25° ≙ 42'18	1°40'23
evening rise	7971 Nov 06 21:13	27°M44'41		minimum elong	7972 Oct 12 19:50	25° £ 38′23	1°40'26
	7971 Nov 08 01:39	0° ⊼			7972 Oct 14 20:35	0°M₊	
desc. node	7971 Nov 16 19:57	15° ₹ 34'03		max. Earth dist.	7972 Oct 15 10:13	1°M12'29	1.33261 AU
	7971 Nov 26 02:23	0°ප		evening rise	7972 Oct 20 10:41	11° M .34'11	
evening max el	7971 Dec 12 00:18	19° る 34'10	26°51'06		7972 Oct 30 08:39	0°⊀	
retrograde	7971 Dec 25 04:20	26° る 52'36		desc. node	7972 Nov 02 16:58	5° ≯ 35'13	
evening set	7971 Dec 31 18:18	24° る 16'51			7972 Nov 20 14:18	0°ಕ	
min. Earth dist.	7972 Jan 04 18:50	20° る 17'13	0.65825 AU	evening max el	7972 Nov 23 12:56	2° る 59'12	27°23'18
inferior conj	7972 Jan 06 17:50	18° る 00'40		retrograde	7972 Dec 07 02:23	10° る 18'23	
minimum elong	7972 Jan 06 19:06	17° る 56'59	0°43'48	evening set	7972 Dec 14 01:19	7° る 43'15	
asc. node	7972 Jan 08 22:42	15° る 32'36		min. Earth dist.	7972 Dec 17 20:38		0.64291 AU
morning rise	7972 Jan 12 20:56	12° る 22'04		inferior conj	7972 Dec 20 07:17	1° る 42'05	
direct	7972 Jan 15 16:34	11° る 38'24		minimum elong	7972 Dec 20 10:40	1°る33'07	1°48'47
morning max el	7972 Jan 22 03:53	15° る 06'01	18°13'55		7972 Dec 21 22:46	30°R. ✓	
	7972 Feb 02 01:13	0° ≈		asc. node	7972 Dec 25 19:44	26° ₹ 50'13	
morning set	7972 Feb 10 04:44	13°≈04'53		morning rise	7972 Dec 26 21:35	26° √ 17'47	
desc. node	7972 Feb 12 19:19	17°≈17'12		direct	7972 Dec 29 09:42	25° ₹ 45'54	
	7972 Feb 20 18:24	0°)		morning max el	7973 Jan 04 20:49	29° ₹ 08'41	17°52'32
	5050 F. J. 05 10 00	50 \(0.010.5	1000100		7973 Jan 05 16:37	0°る	
superior conj	7972 Feb 25 10:08	7° ¥ 20′27		morning set	7973 Jan 21 20:53	24° る 50'47	
minimum elong	7972 Feb 25 01:02	6°) 44'44	1°21'34		7973 Jan 24 22:15	0°≈ 7°≈ ≈ 5 415 1	
max. Earth dist.	7972 Feb 27 07:45	10°) 19′23 0° Υ	1.45479 AU	desc. node	7973 Jan 29 16:17	7° ≈ 54'51	
	7972 Mar 10 22:17	2° Υ 30'07			7072 E-L 04 02:27	16950119	0020140
evening rise	7972 Mar 12 12:47 7972 Mar 24 03:34	2° Y 30 0 7 20° Y 30'10	-0.7m	superior conj	7973 Feb 04 03:37	16°≈50'18 16°≈32'23	0°38'05
greatest brilliancy	7972 Mar 30 15:42	0° 8	-U. /III	minimum elong max. Earth dist.	7973 Feb 03 23:10 7973 Feb 09 03:23	10 ≈32 23 24°≈48'18	1.44914 AU
evening max el	7972 Mai 30 13:42 7972 Apr 05 06:14	6° 8 49'43	19°17'06	max. Earth dist.	7973 Feb 12 10:38	0°) €	1.44914 AU
asc. node	7972 Apr 05 00:14 7972 Apr 05 21:40	7° 8 27'38	19 17 00	evening rise	7973 Feb 12 10:38 7973 Feb 20 02:12	11°) 51'01	
retrograde	7972 Apr 03 21:40 7972 Apr 12 07:04	10° 8 48'29		evening rise	7973 Mar 04 02:05	0° Υ	
evening set	7972 Apr 15 19:30	9° 8 36'16		greatest brilliancy	7973 Mar 04 02:03	3° Υ 51'11	-0.6m
inferior conj	7972 Apr 21 06:31	3° 8 45'51	3°22'55	evening max el	7973 Mar 19 09:48	20° Y 27'34	20°13'51
minimum elong	7972 Apr 21 05:56	3° 8 47'45		asc. node	7973 Mar 23 18:44	23° Y 59'54	20 13 51
min. Earth dist.	7972 Apr 22 16:01	_	0.66579 AU	retrograde	7973 Mar 27 05:28	25°Υ00'26	
	7972 Apr 24 05:57	30°RY		evening set	7973 Mar 31 02:35	23° Y 33'12	
morning rise	7972 Apr 26 16:00	27° Y 28'15		inferior conj	7973 Apr 05 10:40	17° Y 28'57	3°10'49
direct	7972 May 02 21:40	24° Y 43'19		minimum elong	7973 Apr 05 09:08	17° Y 34'13	3°10'33
desc. node	7972 May 10 18:57	28° Y 01′52		min. Earth dist.	7973 Apr 06 05:49	16° Ƴ 23'55	0.67621 AU
	7972 May 13 03:53	0°8		morning rise	7973 Apr 10 15:27	11° Υ 12'42	
morning max el	7972 May 15 12:06	2° 8 14'40	26°02'40	direct	7973 Apr 16 08:47	8° Y 39'30	
Ç	7972 Jun 05 10:57	0°II		desc. node	7973 Apr 27 15:57	15° Ƴ 19'48	
morning set	7972 Jun 20 14:35	25° Ⅱ 44'04		morning max el	7973 Apr 27 21:21	15° Ƴ 33'24	24°39'53
-	7972 Jun 22 21:12	0ಂತಾ		-	7973 May 09 18:21	0°8	
max. Earth dist.	7972 Jun 24 11:11	3° © 01'50	1.35309 AU		7973 May 29 09:10	$\Pi^{\circ}0$	
				morning set	7973 Jun 02 19:30	7° Ⅱ 37'42	
superior conj	7972 Jun 29 20:05	13°5541'04	-0°30'05	max. Earth dist.	7973 Jun 06 10:25	14° Ⅱ 07'14	1.37328 AU
minimum elong	7972 Jun 29 21:50	13° © 49'57					
asc. node	7972 Jul 02 20:47	19° © 53'52		superior conj	7973 Jun 13 04:35	26° Ⅲ 51'40	-1°01'46
evening rise	7972 Jul 07 15:12	29° 5 46'17		minimum elong	7973 Jun 13 08:22	27° Ⅱ 09'59	1°01'15

	7973 Jun 14 19:08	0°9		superior conj	7974 May 26 22:32	9° Ⅱ 18'51	-1°31'58
asc. node	7973 Jun 19 17:48	9° 9 50'31		minimum elong	7974 May 20 22:32 7974 May 27 03:57	9° Ⅱ 43'55	1°31'24
evening rise	7973 Jun 21 17:43	13°950'18		evening rise	7974 Jun 05 11:57	27° I I27'29	1 3121
e vennig rise	7973 Jun 30 07:29	0°Ω		asc. node	7974 Jun 06 14:50	29° II 36'24	
evening max el	7973 Jul 08 13:01	11°Ω14'30	19°20'07		7974 Jun 06 19:46	0°ಅ	
retrograde	7973 Jul 17 20:27	15° Ω 50'18		evening max el	7974 Jun 21 14:54	23°9527'38	18°35'26
evening set	7973 Jul 19 17:30	15° Ω 39'53		retrograde	7974 Jun 29 12:21	27°522'56	
desc. node	7973 Jul 24 15:11	13° Ω 47'47		evening set	7974 Jul 01 14:44	27° 5 07'12	
inferior conj	7973 Jul 28 07:49	11° Ω 31′27	-1°07'45	inferior conj	7974 Jul 09 09:29	22°5540'20	0°37'37
minimum elong	7973 Jul 28 04:48	11° Ω 36′24	1°06'41	minimum elong	7974 Jul 09 10:51	22° 5 37'43	0°36'59
min. Earth dist.	7973 Jul 30 23:05	9° Ω 48'02	0.55851 AU	desc. node	7974 Jul 11 12:15	21° 5 02'33	
morning rise	7973 Aug 05 13:22	6° £ 52′23		min. Earth dist.	7974 Jul 12 16:57	20°908'57	0.57591 AU
direct	7973 Aug 10 12:35	5° Ω 56'16		morning rise	7974 Jul 17 03:27	17° © 24'14	
morning max el	7973 Aug 24 15:01	13° Ω 03'47	25°18'43	direct	7974 Jul 22 22:35	15° © 59'36	
	7973 Sep 06 19:56	0° m		morning max el	7974 Aug 06 07:36	23° © 35'26	26°44'16
asc. node	7973 Sep 15 17:17	15° Mp 53′36			7974 Aug 12 02:31	$0 ^{\circ} \Omega$	
morning set	7973 Sep 20 09:27	25°M 30'35			7974 Aug 30 19:33	0° m)	
	7973 Sep 22 11:30	0∘ ⊽		asc. node	7974 Sep 02 14:17	5° m 34'35	
				morning set	7974 Sep 04 19:29	10° Mp 12'11	
superior conj	7973 Sep 27 06:26	10° £ 31′02	1°33'39				
minimum elong	7973 Sep 27 04:47	10° ≏ 22'02	1°33'33	superior conj	7974 Sep 11 18:06	25° Mg 22'26	1°21'30
max. Earth dist.	7973 Sep 28 14:59	13° ≏ 29'38	1.32286 AU	minimum elong	7974 Sep 11 15:57	25° m 10'29	1°21'13
evening rise	7973 Oct 04 09:20	25° ≏ 47'57		max. Earth dist.	7974 Sep 12 00:13	25° Mp 56'17	1.31767 AU
	7973 Oct 06 10:51	0°M			7974 Sep 13 20:15	0∘ ⊽	
desc. node	7973 Oct 20 14:02	25°M08'35		evening rise	7974 Sep 18 14:29	10° ≏ 18'27	
	7973 Oct 23 19:48	0°⊀			7974 Sep 28 17:11	0° M ₊	
evening max el	7973 Nov 05 22:43	15° ₹ 54'05	27°26'25	desc. node	7974 Oct 07 11:08	14°M02'55	
retrograde	7973 Nov 19 17:32	23° ₹ 09'32		evening max el	7974 Oct 19 03:13	28°M06'58	26°56'17
evening set	7973 Nov 26 20:18	20° 🖈 44'04	0.60455.444		7974 Oct 21 06:05	0° ⊼ ¹	
min. Earth dist.	7973 Nov 30 12:27	17° 🖈 46'26	0.62457 AU	retrograde	7974 Nov 02 00:57	5° ₹ 16'58	
inferior conj	7973 Dec 03 09:42	15° ₹ 03'18		evening set	7974 Nov 08 23:20	3° ∡ 12'21	0.60414.433
minimum elong	7973 Dec 03 15:19	14° 🗷 50'01	2°57'18	min. Earth dist.	7974 Nov 12 17:39	0° ₹ 33'30	0.60414 AU
morning rise direct	7973 Dec 10 12:25	9° х 56′38 9° х 32′55		: <i>c</i> :	7974 Nov 13 10:13	30°RM	4907152
asc. node	7973 Dec 12 19:27 7973 Dec 12 16:47	9° x '32'59		inferior conj minimum elong	7974 Nov 15 21:46 7974 Nov 16 04:53	27°M55'55 27°M41'08	4°04'44
morning max el	7973 Dec 12 10.47 7973 Dec 19 13:47	13° × 00'03	17°48'48	morning rise	7974 Nov 10 04:33	23°ML09'53	4 04 44
morning max cr	7973 Dec 19 13:47 7973 Dec 31 03:20	0°중	17 40 40	direct	7974 Nov 25 12:47 7974 Nov 25 17:56	22°M50'57	
morning set	7974 Jan 04 11:56	ਾਠ 7° ਠ 41'46		asc. node	7974 Nov 29 17:30	23°M50'20	
morning set	7774 Jan 04 11.30	7 04140		morning max el	7974 Nov 25 13:45 7974 Dec 03 03:25	26°M31'21	18°03'50
superior conj	7974 Jan 15 21:18	27° る 30'53	0°04'53	morning max cr	7974 Dec 05 03:23	0° ⊼	10 03 30
minimum elong	7974 Jan 15 21:47	27° る 32'57		morning set	7974 Dec 18 19:35	21° х 19'13	
behind sun begin	7974 Jan 15 13:14	26° ප 56'51			7974 Dec 23 11:46	0°ප	
behind sun end	7974 Jan 16 06:20	28° る 08'58			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	• •	
desc. node	7974 Jan 16 13:14	28° る 37'54		superior conj	7974 Dec 28 16:12	9° ට 23'37	0°41'46
	7974 Jan 17 08:51	0° ≈		minimum elong	7974 Dec 28 19:14	9° ට 37'04	0°41'28
max. Earth dist.	7974 Jan 22 19:52	8° ≈ 57'56	1.43672 AU	desc. node	7975 Jan 03 10:13	19° る 23'04	
evening rise	7974 Jan 30 14:53	21° ≈ 17'31		max. Earth dist.	7975 Jan 05 07:21	22° ⋜ 33'08	1.41905 AU
-	7974 Feb 05 07:24	0°) €			7975 Jan 09 20:14	0° ≈	
	7974 Feb 26 15:34	0 ° Υ		evening rise	7975 Jan 10 17:13	1° ≈ 24'21	
evening max el	7974 Mar 02 07:44	4° Y 06'06	21°23'14		7975 Jan 29 18:38	0° ∀	
asc. node	7974 Mar 10 15:50	9° Y 18'15		evening max el	7975 Feb 13 00:56	17° ¥ 46′37	22°40'52
retrograde	7974 Mar 11 03:45	9° Ƴ 19'31		retrograde	7975 Feb 23 00:04	23°) 41′16	
evening set	7974 Mar 15 10:42	7° Ƴ 37'10		asc. node	7975 Feb 25 12:57	23°) €08'46	
inferior conj	7974 Mar 20 18:06	1° Y 21'34	2°48'06	evening set	7975 Feb 27 18:09	21° ¥ 43′59	
minimum elong	7974 Mar 20 15:58	1° Y 28'56	2°47'37	inferior conj	7975 Mar 05 02:44	15° ∺ 20'19	
min. Earth dist.	7974 Mar 21 00:09		0.68215 AU	minimum elong	7975 Mar 05 00:28	15° ∺ 28'11	2°15'25
	7974 Mar 21 17:39	30° ₹		min. Earth dist.	7975 Mar 04 20:44	15°) 41′08	0.68389 AU
morning rise	7974 Mar 25 21:05	25°) €08'19		morning rise	7975 Mar 10 06:39	9° ₩ 11'26	
direct	7974 Mar 31 00:36	22°\(\)53'26		direct	7975 Mar 14 20:06	7° ¥ 18′16	
morning max el	7974 Apr 10 06:59	28°) 59'16	23°10'19	morning max el	7975 Mar 23 19:59	12°) 32'49	21°43'10
	7974 Apr 11 06:30	0°γ		desc. node	7975 Apr 01 09:51	22°) 46'46	
desc. node	7974 Apr 14 12:55	3° Υ 40'42			7975 Apr 06 15:48	0°Υ 27° Υ 52110	
	7974 May 03 12:22	0°8		morning set	7975 Apr 25 02:50	27° Y 53′10	
morning set	7974 May 15 01:00	18° 8 24'19	1 20554 433	may Etl- 1' t	7975 Apr 26 10:30	0° 8	1 41720 411
max. Earth dist.	7974 May 19 06:29	25° ႘ 35'51 0° Ⅱ	1.39554 AU	max. Earth dist.	7975 May 01 06:01	/° O 31'36	1.41729 AU
	7974 May 21 18:52	υщ		superior conj	7975 May 08 21:10	20° 8 51'05	-1°56'45
				superior conj	1713 Way 00 21.10	20 03103	1 3043

minimum elong	7975 May 09 02:37	21° 8 14'55	1°56'26	superior conj	7976 Apr 18 20:13	1° 8 20'00	
	7975 May 14 00:42	$\Pi^{\circ 0}$		minimum elong	7976 Apr 18 22:17	1° 8 28'35	2°10'37
evening rise	7975 May 19 18:06	10° Ⅲ 27'17		evening rise	7976 May 01 07:40	22° 8 40'05	
asc. node	7975 May 24 11:55	19° Ⅱ 05'52			7976 May 05 12:27	Π $^{\circ}0$	
	7975 May 31 00:49	0.2		asc. node	7976 May 10 08:59	8° Ⅱ 13'13	
evening max el	7975 Jun 05 00:06		18°11'01	evening max el	7976 May 18 12:54	19° Ⅱ 23'19	18°06'01
retrograde	7975 Jun 11 22:36	9° © 43'51		retrograde	7976 May 24 23:53	22° Ⅱ 44'05	
evening set	7975 Jun 14 08:36	9° © 18'58	105/101	evening set	7976 May 27 17:19	22° I 107'30	20.4712.0
inferior conj	7975 Jun 21 08:31	4°931'43	1°56'21	inferior conj	7976 Jun 03 01:56	17° Ⅱ 00′24	2°47'20
minimum elong	7975 Jun 21 11:33	4°924'53	1°55'18	minimum elong	7976 Jun 03 04:39	16°Ⅲ53'27 13°Ⅲ58'00	2°46'38
min. Earth dist.	7975 Jun 24 17:11	1°532'34	0.59753 AU	min. Earth dist.	7976 Jun 06 01:30	13°Щ58'00 10°Щ56'29	0.61996 AU
marning rise	7975 Jun 26 15:39 7975 Jun 28 11:34	30°ŖⅡ 28°Ⅱ46'24		morning rise desc. node	7976 Jun 09 14:04 7976 Jun 14 06:21	10°Щ3629 8°Щ45'25	
morning rise desc. node	7975 Jun 28 09:19	28° II 49'47		direct	7976 Jun 14 06.21 7976 Jun 16 07:59	8° Д 32'10	
direct	7975 Jul 28 09:19 7975 Jul 04 21:59	26° I I49'47		morning max el	7976 Jun 30 11:36	8 П 32 10 16° П 33'22	27055!10
direct	7975 Jul 13 16:02	0°9		morning max ci	7976 Jul 11 13:30	0°9	27 33 19
morning max el	7975 Jul 19 06:32		27°38'35		7976 Jul 29 16:06	0°N	
morning max cr	7975 Aug 06 23:43	0°Ω	27 30 33	morning set	7976 Aug 03 03:37	8° Ω 51'50	
morning set	7975 Aug 20 02:12	24°Ω41'06		asc. node	7976 Aug 06 08:16	15° Ω 30'50	
asc. node	7975 Aug 20 11:16	25° Ω 28'34		max. Earth dist.	7976 Aug 08 17:42	20° Ω 38'47	1.32102 AU
use. Houe	7975 Aug 22 14:19	0°m)		max. Bartii dibt.	7770 Hug 00 17:12	20 0030 17	1.32102110
max. Earth dist.	7975 Aug 26 10:22	8° m 22'51	1.31704 AU	superior conj	7976 Aug 10 15:25	24°Ω47'45	0°42'42
man. Barur diot.	7,7011ag 20 10.22	0 142201	1.51,01110	minimum elong	7976 Aug 10 13:37	24°Ω37'57	
superior conj	7975 Aug 27 05:42	10° m 09'50	1°04'23		7976 Aug 13 00:18	0° m)	
minimum elong	7975 Aug 27 03:29	9° m 57'32	1°03'57	evening rise	7976 Aug 17 11:06	9° m)41'13	
evening rise	7975 Sep 02 23:45	24° m 58'12		C	7976 Aug 27 19:43	0∘ ⊽	
C	7975 Sep 05 09:08	0° ٽ		desc. node	7976 Sep 10 05:20	18° ≏ 45'09	
	7975 Sep 22 19:04	0°M,		evening max el	7976 Sep 11 14:08	20° ♀ 07'14	24°24'45
desc. node	7975 Sep 24 08:14	2°M02'17		retrograde	7976 Sep 25 08:44	27° ჲ 02'10	
evening max el	7975 Oct 01 00:21	9° M 30'11	25°53'16	evening set	7976 Sep 30 11:03	26° ჲ 04'39	
retrograde	7975 Oct 14 22:49	16° ™ 33'59		min. Earth dist.	7976 Oct 06 01:05	23° ≏ 14'00	0.56488 AU
evening set	7975 Oct 21 05:32	15°M00'46		inferior conj	7976 Oct 08 14:00	21° ≏ 38′20	-5°32'27
min. Earth dist.	7975 Oct 25 13:03	12°M25'12	0.58336 AU	minimum elong	7976 Oct 08 15:24	21° ≏ 36′08	5°32'22
inferior conj	7975 Oct 28 16:00	10°M10'21	-5°03'04	morning rise	7976 Oct 16 21:53	17° ≏ 36′20	
minimum elong	7975 Oct 28 22:16	9°M59'01	5°01'53	direct	7976 Oct 19 13:13	17° ≏ 17'38	
morning rise	7975 Nov 05 17:19	5°M46'48		morning max el	7976 Oct 29 06:10	21° ≏ 52'30	19°36'56
direct	7975 Nov 08 00:59	5° ™ 29'27		asc. node	7976 Nov 02 07:49	26° £ 29'30	
asc. node	7975 Nov 16 10:49	9°M34'10			7976 Nov 04 19:10	0° M	
morning max el	7975 Nov 16 10:05	9°M32'23	18°39'22	morning set	7976 Nov 15 17:44	19° M 58'57	
	7975 Nov 29 18:30	0° ∡			7976 Nov 20 16:43	0°⊀	
morning set	7975 Dec 02 14:48	5° ≯ 28'47				_	
				superior conj	7976 Nov 23 15:45	5° ₹ 53'53	1°28'12
superior conj	7975 Dec 11 08:06	22° √ 16'18	1°09'33	minimum elong	7976 Nov 23 18:20	6° ₹ 06'34	1°28'05
minimum elong	7975 Dec 11 11:30	22° ₹ 32'18	1°09'16	max. Earth dist.	7976 Nov 29 20:29	17° 🖈 45'24	1.37664 AU
E d Ed	7975 Dec 15 12:49	0°る	1 20020 ATT	evening rise	7976 Dec 03 14:01	24° ₹ 31'06	
max. Earth dist. desc. node	7975 Dec 18 14:37 7975 Dec 21 07:14	5°る28'02 10°る07'05	1.39820 AU	desc. node	7976 Dec 06 17:33 7976 Dec 07 04:15	0°궁 0°궁45'35	
	7975 Dec 21 07:14 7975 Dec 22 16:48	10 ⁻ る 0/03		desc. node	7976 Dec 07 04:15 7976 Dec 26 08:10	0° ⊘ 43′33	
evening rise	7976 Jan 02 15:56	12 3 29 10 0° ≈		evening max el	7977 Jan 08 04:26	0 ≈ 15°≈18'37	25°17'01
	7976 Jan 25 03:42	0° ∺		retrograde	7977 Jan 20 05:43	22°≈16'14	23 17 01
evening max el	7976 Jan 26 15:16	1°) 31′24	24°01'01	evening set	7977 Jan 26 00:57	19°≈52'08	
retrograde	7976 Feb 06 17:05	8° \ 02'02	24 01 01	asc. node	7977 Jan 29 07:04	16°≈27'03	
evening set	7976 Feb 11 23:25	5°) 50'30		min. Earth dist.	7977 Jan 30 11:20	14°≈58'15	0.67551 AU
asc. node	7976 Feb 12 10:01	5° ¥ 27'05		inferior conj	7977 Jan 31 16:12	13° ≈ 24'41	0°46'56
min. Earth dist.	7976 Feb 16 17:14	0° \ 21'56	0.68163 AU	minimum elong	7977 Jan 31 15:05	13°≈28'20	0°46'36
min. Darm dige.	7976 Feb 16 23:43	30°R≈	0.00103110	morning rise	7977 Feb 06 05:32	7°≈29'37	0 1050
inferior conj	7976 Feb 17 10:43	29°≈22'39	1°35'30	direct	7977 Feb 09 17:16	6°≈19'36	
minimum elong	7976 Feb 17 08:46	29° ≈ 29'16	1°34'53	morning max el	7977 Feb 16 19:31	10°≈15'15	19°21'53
morning rise	7976 Feb 22 18:08	23°≈19'47		greatest brilliancy	7977 Mar 01 19:16	27°≈26'06	-0.7m
direct	7976 Feb 26 18:11	21° ≈ 48'54		<u> </u>	7977 Mar 03 12:20	0°) €	
morning max el	7976 Mar 05 15:45		20°25'38	desc. node	7977 Mar 05 03:45	2°) €29'01	
-	7976 Mar 09 00:13	0°) €		morning set	7977 Mar 13 04:17	14°) 46′53	
desc. node	7976 Mar 18 06:48	12°) 25′59		-	7977 Mar 22 23:14	$0^{\circ}\Upsilon$	
	7976 Mar 30 02:17	0 ° $\mathbf{\gamma}$		max. Earth dist.	7977 Mar 26 03:15	4° Ƴ 58'49	1.44874 AU
morning set	7976 Apr 03 05:27	6° Y 21′07					
max. Earth dist.	7976 Apr 12 13:08	21° Y 03'09	1.43579 AU	superior conj	7977 Mar 29 18:43	10° Ƴ 45'39	
	7976 Apr 18 00:53	9° 8		minimum elong	7977 Mar 29 14:02	10° Y 26′58	2°07'11

	7977 Apr 10 15:01	0° ႘		morning set	7978 Feb 20 22:48	24°≈16'51	
evening rise	7977 Apr 13 00:08	3° 8 56'52			7978 Feb 24 13:44	0° ∀	
asc. node	7977 Apr 27 06:02	26° 8 50'42					
	7977 Apr 29 14:42	0°Ⅱ		superior conj	7978 Mar 09 01:01	19°) 34'04	
evening max el	7977 May 02 01:59	2° ∏ 47'25	18°19'42	minimum elong	7978 Mar 08 15:33	18° ¥ 56'59	
retrograde	7977 May 08 11:41	6° Ⅱ 13'23		max. Earth dist.	7978 Mar 08 21:33		1.45471 AU
evening set	7977 May 11 12:12	5° Ⅱ 23'37	2015100		7978 Mar 15 16:37	0°Υ 140 Υ 16112	
inferior conj minimum elong	7977 May 17 09:36	29° 8 58'16 29° 8 54'00	3°15'00 3°14'44	evening rise	7978 Mar 24 17:07	14° Y 16'13 28° Y 01'29	-0.8m
minimum elong	7977 May 17 11:05 7977 May 17 09:00	30°R B	3 14 44	greatest brilliancy	7978 Apr 02 09:02	0° 8	-0.8111
min. Earth dist.	7977 May 17 09:00 7977 May 19 19:07	27° 8 13'50	0.64053 AU	asc. node	7978 Apr 03 15:19 7978 Apr 14 03:05	14° 8 49'14	
morning rise	7977 May 19 19:07	23° 8 44'28	0.04033 AU	evening max el	7978 Apr 14 03:03	16° 8 19'56	18°51'17
direct	7977 May 30 02:30	21° 8 02'45		retrograde	7978 Apr 22 05:57	20° 8 03'50	10 31 17
desc. node	7977 Jun 01 03:21	21° 8 16'01		evening set	7978 Apr 25 13:46	19° 8 00'04	
morning max el	7977 Jun 12 20:46	29° 8 02'54	27°35'04	inferior conj	7978 May 01 03:40	13° 8 18'13	3°24'19
	7977 Jun 13 18:59	0°Щ		minimum elong	7978 May 01 03:47	13° 8 17'50	
	7977 Jul 05 10:47	0ಂಣ		min. Earth dist.	7978 May 02 21:50	11° 8 06'32	0.65773 AU
morning set	7977 Jul 17 21:19	22° © 37'35		morning rise	7978 May 06 17:14	7° 8 00'37	
C	7977 Jul 21 12:51	$0^{\circ}\Omega$		direct	7978 May 13 04:27	4° 8 13'30	
max. Earth dist.	7977 Jul 22 18:23	2° Ω 33′29	1.32965 AU	desc. node	7978 May 19 00:21	6° 8 02'40	
asc. node	7977 Jul 24 05:16	5° Ω 37'00		morning max el	7978 May 26 07:18	12° 8 00'27	26°43'18
					7978 Jun 09 16:18	$\Pi^{\circ}0$	
superior conj	7977 Jul 25 21:18	9° Ω 10′20	0°16'55		7978 Jun 28 01:15	0ංම	
minimum elong	7977 Jul 25 20:29	9° Ω 05'56	0°16'38	morning set	7978 Jul 01 04:08	5°548'56	
evening rise	7977 Aug 01 22:38	24° Ω 21'32		max. Earth dist.	7978 Jul 05 08:55	13° © 59'28	1.34314 AU
	7977 Aug 04 15:22	O° m y					
	7977 Aug 23 17:13	0∘ ত		superior conj	7978 Jul 09 21:07	23° © 10'32	
evening max el	7977 Aug 24 01:51		22°45'43	minimum elong	7978 Jul 09 21:48	23° © 14'04	0°12'14
desc. node	7977 Aug 28 02:24	3° ≏ 43'21		behind sun begin	7978 Jul 09 18:02	22° © 54'30	
retrograde	7977 Sep 06 06:27	6° £ 56'33		behind sun end	7978 Jul 10 01:34	23°533'40	
evening set	7977 Sep 09 20:27	6° £ 28'24	0.55155.437	asc. node	7978 Jul 11 02:15	25°5642'23	
min. Earth dist.	7977 Sep 17 09:41	3° £ 05'49	0.55177 AU		7978 Jul 13 03:16	0° N	
inferior conj	7977 Sep 18 17:20	2° £ 20'38		evening rise	7978 Jul 17 08:24	8° £ 52′23	
minimum elong	7977 Sep 18 11:19 7977 Sep 23 02:29	2° £ 29'13 30° Rm)	3 13 28	evening max el	7978 Jul 28 12:53 7978 Aug 05 20:25	0° Mp 10° Mp 47′24	21012123
morning rise	7977 Sep 23 02:29 7977 Sep 27 04:12	28° Mp 32'00		desc. node	7978 Aug 03 20:23 7978 Aug 14 23:29	16° Mp 23'34	21 12 23
direct	7977 Sep 27 04:12 7977 Sep 30 07:11	28° Mp 09'29		retrograde	7978 Aug 14 23:29 7978 Aug 17 19:44	16° Mp 43'20	
direct	7977 Oct 06 23:21	0° ರ		evening set	7978 Aug 20 04:10	16° Mp 30'27	
morning max el	7977 Oct 11 13:35	ა — 3° ჲ 25'41	20°56'36	inferior conj	7978 Aug 29 10:17	12° m/33'01	-4°05'17
asc. node	7977 Oct 20 04:47	14° £ 21'30		minimum elong	7978 Aug 29 00:47	12° m/46'23	4°02'39
	7977 Oct 28 18:28	0°M		min. Earth dist.	7978 Aug 29 18:38	12° m)21'15	0.54688 AU
morning set	7977 Oct 31 01:39	4°M42'07		morning rise	7978 Sep 06 22:01	8° m 39'21	
C				direct	7978 Sep 10 15:24	8° m 09'31	
superior conj	7977 Nov 07 10:48	20°M04'06	1°38'33	morning max el	7978 Sep 23 09:15	14° m 13'01	22°34'32
minimum elong	7977 Nov 07 12:04	20° ML $10'37$	1°38'35		7978 Oct 05 08:59	0∘ ত	
max. Earth dist.	7977 Nov 12 05:31	29°M41'09	1.35673 AU	asc. node	7978 Oct 07 01:47	2° ≏ 56'11	
	7977 Nov 12 09:21	0°⊀		morning set	7978 Oct 15 12:22	19° ≏ 31'07	
evening rise	7977 Nov 16 05:57	7° ≯ 22'56			7978 Oct 20 10:05	0°M₊	
desc. node	7977 Nov 24 01:18	21° ∡ 14′22					
	7977 Nov 29 10:41	0°る	0.0001111	superior conj	7978 Oct 22 13:40	4°M35'39	
evening max el	7977 Dec 21 17:30	29° る 03'53	26°21'41	minimum elong	7978 Oct 22 13:37	4°M35'22	
1	7977 Dec 22 17:14	0°≈		max. Earth dist.	7978 Oct 25 21:44	11°M35'58	1.34019 AU
retrograde	7978 Jan 03 13:20	6°≈17'59		evening rise	7978 Oct 30 12:36	20° M .54'07 0° ∡ 7	
evening set	7978 Jan 09 21:00 7978 Jan 13 13:13	3°≈44'42 30°Rる		dasa nada	7978 Nov 04 08:06	0° × ¹ 11° × ¹27'26	
min. Earth dist.	7978 Jan 13 13.13	30 KO 29° る 25'37	0.66564 AU	desc. node	7978 Nov 10 22:21 7978 Nov 23 08:26	11 x ・2/20	
inferior conj	7978 Jan 14 00:49	29 3 2337 27° 3 22'43		evening max el	7978 Nov 23 08:28	12° る 38'50	27°07'52
minimum elong	7978 Jan 15 17:19	27°る22'00	0°08'52	retrograde	7978 Dec 17 15:16	12 3 59'15	_, 5/52
transit middle	7978 Jan 15 17:29	27° る 22'00	0°08'52	evening set	7978 Dec 17 13:10 7978 Dec 24 09:31	17° る 22'30	
transit begin	7978 Jan 15 15:05	27° පි 29'20	-	min. Earth dist.	7978 Dec 28 07:33		0.65214 AU
transit end	7978 Jan 15 19:54	27° る 14'40		inferior conj	7978 Dec 30 11:39	13 3 3728	
asc. node	7978 Jan 16 04:06	26° る 49'49		minimum elong	7978 Dec 30 13:47	11° る 05'49	
morning rise	7978 Jan 21 14:45	21° る 37'39		asc. node	7979 Jan 03 01:08	7° ප 32'07	
direct	7978 Jan 24 15:43	20° ප 45'31		morning rise	7979 Jan 05 19:22	5°₹39'06	
morning max el	7978 Jan 31 06:22	24° පි 20'03	18°33'57	direct	7979 Jan 08 11:24	5° ප 01'05	
	7978 Feb 05 00:47	0° ≈		morning max el	7979 Jan 14 21:54	8° そ 25'38	18°02'41
desc. node	7978 Feb 20 00:42	22° ≈ 49′29			7979 Jan 29 18:12	0° ≈	

marning sat	7979 Feb 01 22:51	5°≈15'25		morning may al	7979 Dec 29 15:14	22° ₹ 24'29	17040'20
morning set desc. node	7979 Feb 01 22:31 7979 Feb 06 21:40	3 ≈13 23 13°≈22'07		morning max el	7980 Jan 04 13:19	22 メ ・24 29	1/4039
desc. flode	7979160 00 21.40	13 ≈22 07		morning sat	7980 Jan 04 13:19 7980 Jan 15 01:36	0 3 17° る 31'39	
gunariar aani	7979 Feb 16 09:11	28° ≈ 35'21	1004/20	morning set	7980 Jan 13 01:36 7980 Jan 22 08:42	0°≈	
superior conj minimum elong	7979 Feb 16 09:11 7979 Feb 16 01:42			desc. node	7980 Jan 22 08.42 7980 Jan 24 18:38	0 ≈ 4°≈02'30	
minimum elong	7979 Feb 16 01.42 7979 Feb 17 06:36	28°≈05'41 0° ₩	1°03'37	desc. node	/900 Jan 24 10.36	4 ≈02 30	
may Earth dist		3° ¥ 49'52	1 45222 ATT	aumorior comi	7000 Ion 27 12:14	990022120	0910145
max. Earth dist.	7979 Feb 19 16:59 7979 Mar 04 13:40	3 X 4932 23° X 50′09	1.45322 AU	superior conj	7980 Jan 27 12:14 7980 Jan 27 10:06	8°≈33'30 8°≈24'44	0°19'19
evening rise		23° π 30'09'		minimum elong			
	7979 Mar 08 13:36	• •	o =	max. Earth dist.	7980 Feb 02 11:09	18°≈11'05	1.44460 AU
greatest brilliancy	7979 Mar 18 01:29	14° Y 25'52	-0.7m		7980 Feb 09 23:51	0°) (0012.5	
	7979 Mar 29 20:29	0°8	10000101	evening rise	7980 Feb 12 00:46	3°) €08'35	
evening max el	7979 Mar 29 19:18	29° Y 57′01	19°39'31		7980 Mar 01 02:16	0°Υ	
asc. node	7979 Apr 01 00:09	1° 8 57'23		evening max el	7980 Mar 11 20:32	13° Y 35'37	20°42'10
retrograde	7979 Apr 06 03:35	4° 8 09'40		asc. node	7980 Mar 17 21:15	18° Y 00′15	
evening set	7979 Apr 09 19:28	2° 8 51'18		retrograde	7980 Mar 20 02:04	18° Y 25′05	
	7979 Apr 12 18:41	30° ₹ Υ		evening set	7980 Mar 24 03:12	16° Y 51'36	
inferior conj	7979 Apr 15 04:56	26° Ƴ 54'47	3°19'12	inferior conj	7980 Mar 29 10:46	10° Ƴ 42'28	3°02'22
minimum elong	7979 Apr 15 03:54	26° Ƴ 58'14	3°19'02	minimum elong	7980 Mar 29 08:55	10° Ƴ 48'48	3°02'00
min. Earth dist.	7979 Apr 16 08:14	25° Y 24′09	0.67073 AU	min. Earth dist.	7980 Mar 30 00:16	9° Ƴ 55'59	0.67929 AU
morning rise	7979 Apr 20 12:01	20° Ƴ 37'15		morning rise	7980 Apr 03 14:25	4° Ƴ 27'18	
direct	7979 Apr 26 12:42	17° Ƴ 56′04		direct	7980 Apr 09 02:06	2° Y 00′59	
desc. node	7979 May 05 21:19	22° Y 34'05		morning max el	7980 Apr 20 01:56	8° Ƴ 35'15	24°01'56
morning max el	7979 May 08 17:03	25° Ƴ 14′05	25°28'53	desc. node	7980 Apr 21 18:17	10° Y 21'14	
	7979 May 13 00:55	$_{0\circ}$ 8			7980 May 06 21:16	8°	
	7979 Jun 03 04:03	$\Pi^{\circ}0$		morning set	7980 May 25 15:33	29° 8 41'56	
morning set	7979 Jun 13 19:58	18° Ⅱ 15′18			7980 May 25 19:45	$\Pi^{\circ}0$	
max. Earth dist.	7979 Jun 17 12:25	25° Ⅱ 04'02	1.36123 AU	max. Earth dist.	7980 May 29 09:02	6° Ⅱ 13'52	1.38267 AU
	7979 Jun 20 02:24	0ം ഉ			,		
				superior conj	7980 Jun 05 15:01	19° Ⅱ 35'33	-1°14'58
superior conj	7979 Jun 23 12:11	6°542'00	-0°43'32	minimum elong	7980 Jun 05 19:36	19° ∏ 57'18	1°14'23
minimum elong	7979 Jun 23 14:47	6°954'58	0°43'10	8	7980 Jun 10 23:59	0°9	
asc. node	7979 Jun 27 23:16	15°543'38	0 .5 10	asc. node	7980 Jun 13 20:19	5° © 36'18	
evening rise	7979 Jul 01 14:17	23°908'14		evening rise	7980 Jun 14 13:39	7° © 01'35	
evening rise	7979 Jul 05 00:30	0°Ω		evening rise	7980 Jun 27 18:37	0°Ω	
evening max el	7979 Jul 19 03:44	21° Ω 52'25	19°55'19	evening max el	7980 Jun 30 23:42	3° Ω 41'59	18°58'34
retrograde	7979 Jul 29 10:30	26°Ω56'25	17 33 17	retrograde	7980 Jul 09 15:09	7° Ω 58'19	10 30 34
evening set	7979 Jul 31 07:28	26° Ω 47'04		evening set	7980 Jul 11 14:07	7° Ω 46'03	
desc. node	7979 Aug 01 20:33	26° Ω 26'04		desc. node	7980 Jul 11 14:07 7980 Jul 18 17:37	4°Ω16'41	
	7979 Aug 01 20:33 7979 Aug 09 07:06	20° Ω 46'48	2015125		7980 Jul 18 17:37 7980 Jul 19 20:20	3°Ω30'27	0920117
inferior conj minimum elong	-	22° Ω 56'14		inferior conj	7980 Jul 19 20:20 7980 Jul 19 19:29	3° Ω 30'27	
	7979 Aug 09 00:53			minimum elong			
min. Earth dist.	7979 Aug 11 05:58		0.55168 AU	min. Earth dist.	7980 Jul 22 20:40	1° £ 24'44	0.56524 AU
morning rise	7979 Aug 17 16:31	18° Ω 27'57			7980 Jul 25 02:21	30°R©	
direct	7979 Aug 22 04:13	17° Ω 43'46	2.402.012.0	morning rise	7980 Jul 27 21:37	28°935'34	
morning max el	7979 Sep 04 22:18	24° Ω 31'06	24°20′20	direct	7980 Aug 02 05:54	27° © 28'00	
	7979 Sep 09 23:29	0° m)			7980 Aug 10 09:14	0° N	25050112
asc. node	7979 Sep 23 22:47	22° m 03'01		morning max el	7980 Aug 16 11:47	4° Ω 48'33	25°58'13
	7979 Sep 27 22:24	0° ⊽			7980 Sep 03 17:21	0° m	
morning set	7979 Sep 30 00:06	4° £ 20'53		asc. node	7980 Sep 09 19:47	11° Tp 33'36	
				morning set	7980 Sep 13 11:14	19° m 06'50	
superior conj	7979 Oct 06 21:39	19° ≙ 20'09			7980 Sep 18 11:11	0∘ ⊽	
minimum elong	7979 Oct 06 20:30	19° ≙ 13'51	1°38'13			_	
max. Earth dist.	7979 Oct 08 22:18		1.32790 AU	superior conj	7980 Sep 20 08:32	4° £ 10'43	1°29'08
	7979 Oct 11 21:07	0°M₊		minimum elong	7980 Sep 20 06:37	4° ჲ 00'09	1°28'57
evening rise	7979 Oct 14 06:22	4°M55'04		max. Earth dist.	7980 Sep 21 05:26	6° 亞 06'09	1.32010 AU
	7979 Oct 28 00:03	0°⊀		evening rise	7980 Sep 27 08:07	19° ≏ 17'10	
desc. node	7979 Oct 28 19:25	1° ∡ 17'52			7980 Oct 02 16:15	0°M₊	
evening max el	7979 Nov 16 18:12		27°28'32	desc. node	7980 Oct 14 16:30	20°M36'26	
	7979 Nov 21 18:37	0°ರ			7980 Oct 21 10:20	0°⊀	
retrograde	7979 Nov 30 10:44	3° る 11'17		evening max el	7980 Oct 29 02:23	8° ∡ ³32'44	27°17'56
evening set	7979 Dec 07 11:51	0° る 39'12		retrograde	7980 Nov 11 22:39	15° ∡ ¹45'13	
	7979 Dec 08 08:37	30°₹ ҂ 7		evening set	7980 Nov 19 00:39	13° ∡ 27'37	
min. Earth dist.	7979 Dec 11 05:29	27° ∡ ¹25'36	0.63539 AU	min. Earth dist.	7980 Nov 22 16:58	10° ∡ 39'19	0.61602 AU
inferior conj	7979 Dec 13 20:49	24° ∡ ¹45'46	-2°19'30	inferior conj	7980 Nov 25 17:38	7° ∡ 756'57	-3°28'44
minimum elong	7979 Dec 14 01:10	24° х ³34'45	2°17'39	minimum elong	7980 Nov 26 00:04	7° ∡ ¹42'33	3°26'27
morning rise	7979 Dec 20 16:19	19° ∡ 28'25		morning rise	7980 Dec 03 01:39	2° ≯ 58′21	
asc. node	7979 Dec 20 22:12	19° ∡ 23'04		direct	7980 Dec 05 07:29	2° ҂ 37'00	
direct	7979 Dec 23 01:48	19° ∡ ′00′33		asc. node	7980 Dec 06 19:15	2° ∡ ¹46'45	

morning max el	7980 Dec 12 07:12	6° ₹ 08'48	17°52'47		7981 Dec 03 12:29	0° ∡ ¹	
<i>S</i>	7980 Dec 27 14:27	0°ರ		morning set	7981 Dec 11 13:39	14° ₹ ³38'41	
morning set	7980 Dec 28 00:33	0° ರ 45'45		-	7981 Dec 19 17:47	8°0	
superior conj	7981 Jan 07 17:03	19° ⋜ 46′25	0°21'33	superior conj	7981 Dec 20 21:32	2° る 06'49	0°54'42
minimum elong	7981 Jan 07 18:55	19° る 54'31	0°21'24	minimum elong	7981 Dec 21 00:56	2° る 22'16	
desc. node	7981 Jan 10 15:37	24°₹47'25		max. Earth dist.	7981 Dec 28 12:10	15°る30'45	1.41045 AU
D d F.	7981 Jan 13 18:30	0°≈	1 42000 411	desc. node	7981 Dec 28 12:38	15°る32'43	
max. Earth dist.	7981 Jan 15 02:11	2°≈10'13	1.42980 AU	evening rise	7982 Jan 02 04:56	23° る 20'53	
evening rise	7981 Jan 21 18:01	12°≈50'21 0°) €			7982 Jan 06 08:18 7982 Jan 27 00:19	0° ∺	
evening max el	7981 Feb 02 00:55 7981 Feb 22 16:28	0°π 27°¥15'52	21055122	evening max el	7982 Jan 27 00:19 7982 Feb 05 08:08	10° ¥ 58'03	2201454
evening max ei	7981 Feb 22 16:28 7981 Feb 25 16:35	27 χ 13 32 0° γ	21 33 32	retrograde	7982 Feb 05 08.08 7982 Feb 15 18:39	10 X 38 03	23 14 34
retrograde	7981 Feb 23 10:33 7981 Mar 03 23:35	0 γ 2° Υ 46'21		asc. node	7982 Feb 13 18:39 7982 Feb 19 15:25	17 X 08 47	
asc. node	7981 Mar 04 18:21	2° Υ 43'13		evening set	7982 Feb 19 13:23 7982 Feb 20 17:57	15° H 05'01	
evening set	7981 Mar 04 10:21	0° Υ 57'31		min. Earth dist.	7982 Feb 25 16:30	9° H 16'57	0.68347 AU
e venning see	7981 Mar 09 12:27	30° R €		inferior conj	7982 Feb 26 03:31	8° X 38'59	1°59'51
inferior conj	7981 Mar 13 18:57	24° H 38'15	2°35'33	minimum elong	7982 Feb 26 01:20	8°) 46'32	
minimum elong	7981 Mar 13 16:42	24°) (46'03	2°35'00	morning rise	7982 Mar 03 08:39	2°) 32'43	
min. Earth dist.	7981 Mar 13 19:45	24°) €35'26	0.68350 AU	direct	7982 Mar 07 16:15	0°){ 49'17	
morning rise	7981 Mar 18 22:02	18° ¥ 26'56		morning max el	7982 Mar 16 04:15	5°) 43′12	21°08'42
direct	7981 Mar 23 19:38	16°) 20′59		desc. node	7982 Mar 26 12:13	18°) €24'52	
morning max el	7981 Apr 02 12:31	22° ℋ 04'01	22°32'24		7982 Apr 03 14:18	$0^{\circ}\mathbf{Y}$	
desc. node	7981 Apr 08 15:15	29°) €03'15		morning set	7982 Apr 16 00:07	18° Ƴ 54'41	
	7981 Apr 09 09:14	0 ° Υ			7982 Apr 22 22:28	9° 8	
	7981 Apr 30 04:39	9° 8		max. Earth dist.	7982 Apr 23 09:17	0° 8 44'07	1.42574 AU
morning set	7981 May 06 09:26	9° 8 55'19					
max. Earth dist.	7981 May 11 06:19	18° 8 02'21	1.40513 AU	superior conj	7982 Apr 30 14:21	12° 8 47'02	-2°04'19
	7981 May 18 02:53	Π $^{\circ}0$		minimum elong	7982 Apr 30 18:52	13° 8 06'20	2°04'11
					7982 May 10 09:33	Π °0	
superior conj	7981 May 19 01:20	1° Ⅱ 40'50		evening rise	7982 May 12 02:56	3° Ⅱ 05'56	
minimum elong	7981 May 19 07:04	2° ∏ 06'43	1°42'57	asc. node	7982 May 18 14:24	14° ∏ 37'09	
evening rise	7981 May 29 03:13	20° Ⅲ 24′08		evening max el	7982 May 28 16:14	29° ∏ 07'26	18°06'31
asc. node	7981 May 31 17:21	25° Ⅱ 15'54			7982 May 29 14:59	0.22	
	7981 Jun 03 07:05	0.20	10000122	retrograde	7982 Jun 04 08:41	2°532'10	
evening max el	7981 Jun 14 05:08	16°5510'08	18°22'33	evening set	7982 Jun 06 21:46	2°502'39	
retrograde	7981 Jun 21 15:14	19°952'45			7982 Jun 10 08:19	30°RⅡ 270Ⅲ0(12)	2021100
evening set	7981 Jun 23 20:55	19° © 33'25 14° © 57'31	1°14'36	inferior conj	7982 Jun 13 14:40	27°Ⅲ06'36 26°Ⅲ59'16	
inferior conj minimum elong	7981 Jul 01 07:15 7981 Jul 01 09:39	14 \$37 31 14°\$52'35	1°13'39	minimum elong min. Earth dist.	7982 Jun 13 17:44 7982 Jun 16 20:17	26 H3916 24°H03'07	0.60709 AU
min. Earth dist.	7981 Jul 01 09:39 7981 Jul 04 16:40	14 9 32 33	0.58484 AU	morning rise	7982 Jun 20 11:11	24 H 03 07 21° H 11'48	0.00709 AU
desc. node	7981 Jul 04 10:40 7981 Jul 05 14:40	11°930'03	0.36464 AU	desc. node	7982 Jun 20 11:11 7982 Jun 22 11:42	20° I I04'41	
morning rise	7981 Jul 08 19:06	9° 9 27'53		direct	7982 Jun 27 01:32	19° Ⅱ 02'31	
direct	7981 Jul 14 21:32	7° 5 49'51		morning max el	7982 Jul 11 08:53	27° I 100'35	27°50'32
morning max el	7981 Jul 29 06:53		27°11'54	3	7982 Jul 14 04:53	0°©	
S	7981 Aug 10 00:23	$0^{\circ}\Omega$			7982 Aug 03 15:43	$0^{\circ}\Omega$	
	7981 Aug 27 01:06	0° m		morning set	7982 Aug 13 00:47	18° Ω 06'16	
asc. node	7981 Aug 27 16:46	1° ™ 20'54		asc. node	7982 Aug 14 13:44	21° Ω 19′30	
morning set	7981 Aug 28 20:03	3°M/43'38			7982 Aug 18 14:23	0° m/y	
				max. Earth dist.	7982 Aug 19 01:13	0° m 59′26	1.31813 AU
superior conj	7981 Sep 04 20:21	19° m 00'50	1°14'50				
minimum elong	7981 Sep 04 18:06	18° m 48'23	1°14'28	superior conj	7982 Aug 20 07:21	3° m 45'13	0°55'43
max. Earth dist.	7981 Sep 04 15:41	18° m ,35′01	1.31685 AU	minimum elong	7982 Aug 20 05:14	3°m/33'37	0°55'16
	7981 Sep 09 19:59	0∘ ಹ		evening rise	7982 Aug 27 01:38	18° ™ 34'29	
evening rise	7981 Sep 11 15:15	3° Ω 52'22			7982 Sep 01 14:58	0∘ ত	
	7981 Sep 25 11:26	0°M		desc. node	7982 Sep 18 10:40	26° Ω 39'50	
desc. node	7981 Oct 01 13:36	9°M09'43	2/022110		7982 Sep 21 10:40	0°M	25017154
evening max el	7981 Oct 11 03:58	20°M24'58	26°33'18	evening max el	7982 Sep 22 21:24	1°M26'13	25~17'54
retrograde	7981 Oct 25 01:52	27°M31'51		retrograde	7982 Oct 06 19:02	8°M27'42	
evening set	7981 Oct 31 19:23	25°M39'24	0.50521 ATT	evening set min. Earth dist.	7982 Oct 12 15:18	7°M09'18	0.57503 AU
min. Earth dist. inferior conj	7981 Nov 04 17:32 7981 Nov 07 22:30	23°M04'26 20°M34'29	0.59521 AU -4°32'53	min. Earth dist.	7982 Oct 17 09:09 7982 Oct 20 08:11	4°M29'45 2°M29'26	
minimum elong	7981 Nov 08 05:40	20°M20'28		minimum elong	7982 Oct 20 08.11 7982 Oct 20 12:55	2°M21'22	
morning rise	7981 Nov 08 03:40 7981 Nov 15 18:16	15°M57'57	. 5101		7982 Oct 20 12:33 7982 Oct 24 06:40	2 11021 22 30°R Ω	5 17 10
direct	7981 Nov 18 00:05	15°M39'56		morning rise	7982 Oct 24 00:40 7982 Oct 28 12:53	28° £ 15'55	
asc. node	7981 Nov 23 16:17	17°M42'28		direct	7982 Oct 30 23:08	27° ⊆ 58'24	
morning max el	7981 Nov 25 18:17	19°M28'23	18°16'25	-	7982 Nov 06 03:02	0°M.	
<i>5</i>	'				-		

	7000 NI 00 00 72	20 m 12126	10001110	,	7002 0 + 20 10 15	210 2 10141	
morning max el	7982 Nov 08 20:53	2°M13'26	19°01'10	asc. node	7983 Oct 28 10:15	21° Ω 19'41	
asc. node	7982 Nov 10 13:17	3°M58'34			7983 Nov 02 18:12	0° ™	
morning set	7982 Nov 25 12:28	28° M 57'41		morning set	7983 Nov 09 17:47	13°M33'50	
	7982 Nov 26 01:05	0°⊀					
				superior conj	7983 Nov 17 09:40	29°M13'00	1°33'32
superior conj	7982 Dec 03 20:43	15° ∡ ¹20'19	1°18'32	minimum elong	7983 Nov 17 11:43	29°M23'16	1°33'30
minimum elong	7982 Dec 03 23:52	15° ∡ ³35′26	1°18'19		7983 Nov 17 19:02	0° ∡ ¹	
max. Earth dist.	7982 Dec 10 17:55	28° 尽 06'43	1.38892 AU	max. Earth dist.	7983 Nov 23 00:04	10° ∡ 10′22	1.36780 AU
	7982 Dec 11 19:22	8°0		evening rise	7983 Nov 26 19:28	17° ∡ 14'30	
evening rise	7982 Dec 14 13:51	4°る50'02		desc. node	7983 Dec 02 06:41	26° ∡ ¹49'52	
desc. node	7982 Dec 15 09:39	6° る 14'49			7983 Dec 04 04:03	0°る	
	7982 Dec 30 10:29	0° ≈			7983 Dec 24 19:23	0° ≈	
evening max el	7983 Jan 18 21:33	24° ≈ 43'18	24°34'13	evening max el	7984 Jan 01 10:37	8° ≈ 30'44	25°46'28
δ ·	7983 Jan 25 12:39	0° ∀		retrograde	7984 Jan 13 20:48	15° ≈ 37'15	
retrograde	7983 Jan 30 10:04	1° ¥ 27'28		evening set	7984 Jan 19 21:17	13° ≈ 08'54	
retrograde	7983 Feb 03 19:47	30°R≈		min. Earth dist.	7984 Jan 24 04:49	8°≈29'33	0.67166 AU
evening set	7983 Feb 04 21:51	29°≈10'08		asc. node	7984 Jan 24 09:31	8°≈14'49	0.07100710
asc. node				inferior conj	7984 Jan 25 14:31		0924105
	7983 Feb 06 12:29	27°≈36'37	0.67046.411	,		6°≈42'55	0°24'05
min. Earth dist.	7983 Feb 09 12:16	23°≈56'17	0.67946 AU	minimum elong	7984 Jan 25 13:55	6°≈44'52	0°23'57
inferior conj	7983 Feb 10 10:39	22°≈41'33	1°15'51	morning rise	7984 Jan 31 07:02	0°≈51'34	
minimum elong	7983 Feb 10 08:59	22° ≈ 47′07	1°15'19		7984 Feb 02 05:29	30°Rる	
morning rise	7983 Feb 15 20:18	16° ≈ 41'48		direct	7984 Feb 03 13:55	29° る 49'35	
direct	7983 Feb 19 14:50	15° ≈ 20'17			7984 Feb 04 22:57	0° ≈	
morning max el	7983 Feb 27 03:27	19° ≈ 34'08	19°56'38	morning max el	7984 Feb 10 10:25	3° ≈ 35'11	18°59'29
	7983 Mar 07 15:09	0° ∀		desc. node	7984 Feb 28 06:07	28° ≈ 26'42	
desc. node	7983 Mar 13 09:10	8° 升 15′12			7984 Feb 29 06:13	0° ∀	
morning set	7983 Mar 25 22:00	27°) (12′50		morning set	7984 Mar 04 02:58	5° ¥ 59'59	
	7983 Mar 27 17:17	0° Y		max. Earth dist.	7984 Mar 18 11:05	28°) €22'58	1.45215 AU
max. Earth dist.	7983 Apr 05 19:10	14° Ƴ 14'53	1.44203 AU		7984 Mar 19 11:46	$0^{\circ}\mathbf{Y}$	
	1						
superior conj	7983 Apr 11 02:39	22° Y 47'53	-2°11'37	superior conj	7984 Mar 20 16:45	1° Y ′54'07	-1°59'50
minimum elong	7983 Apr 11 02:05	22° Y 45'35		minimum elong	7984 Mar 20 09:21	1° Y °24'57	
minimum ciong	7983 Apr 15 11:50	0°8	2 1137	evening rise	7984 Apr 04 14:39	25° Υ 48'20	1 37 23
evening rise	7983 Apr 24 08:03	14° 8 56'00		evening rise	7984 Apr 07 04:21	0° 8	
evening rise	_	0° Ⅱ		asc. node	-	21° 8 55'52	
1-	7983 May 03 05:48	0 П 3°П33'03			7984 Apr 21 08:30	_	10021101
asc. node	7983 May 05 11:27		10000125	evening max el	7984 Apr 24 17:59	25° 8 53'36	18°31'01
evening max el	7983 May 12 05:29	12° Ⅱ 24'15	18°09'35	retrograde	7984 May 01 05:49	29° 8 25'24	
retrograde	7983 May 18 14:55	15° ∏ 45'44		evening set	7984 May 04 09:24	28° 8 29'48	
evening set	7983 May 21 11:16	15° Ⅱ 03'51		inferior conj	7984 May 10 03:13	22° 8 57'29	
inferior conj	7983 May 27 14:40	9° ∏ 49'02		minimum elong	7984 May 10 04:07	22° 8 54'49	3°20'44
minimum elong	7983 May 27 16:55	9° Ⅱ 42'58	3°01'06	min. Earth dist.	7984 May 12 06:20	20° 8 25'26	0.64840 AU
min. Earth dist.	7983 May 30 08:44	6° Ⅱ 51'38	0.62902 AU	morning rise	7984 May 15 22:01	16° 8 41'39	
morning rise	7983 Jun 02 20:59	3° ∏ 39'45		direct	7984 May 22 13:43	13° 8 55'52	
desc. node	7983 Jun 09 08:43	1° Ⅱ 06'34		desc. node	7984 May 26 05:43	14° 8 39'08	
direct	7983 Jun 09 15:37	1° Ⅱ 06′18		morning max el	7984 Jun 05 01:57	21° 8 51'55	27°16'15
morning max el	7983 Jun 23 16:05	9° Ⅱ 09'19	27°50'56		7984 Jun 12 04:19	$\Pi^{\circ}0$	
	7983 Jul 09 19:50	0°ಲಾ			7984 Jul 02 00:43	0°ಅ	
	7983 Jul 26 21:45	$0^{\circ}\Omega$		morning set	7984 Jul 10 12:43	15° © 39'43	
morning set	7983 Jul 27 23:13	2° Ω 07'27		max. Earth dist.	7984 Jul 15 02:24	24°548'03	1.33485 AU
asc. node	7983 Aug 01 10:43	11° Ω 24'00			7984 Jul 17 14:32	$0^{\circ}\Omega$	
max. Earth dist.	7983 Aug 02 06:00		1.32406 AU	asc. node	7984 Jul 18 07:43	1° Ω 30′23	
Titali. Darui dibi.	7,000 11 ug 02 00.00	15 00057	1.52.00110	use. Houe	770.041 10 07.15	1 000025	
superior conj	7983 Aug 04 15:40	18° Ω 17'24	0°32'13	superior conj	7984 Jul 18 19:17	2° Ω 31'33	0°04'55
	•	18° Ω 09'33			7984 Jul 18 19:02	2° Ω 30'15	0°04'44
minimum elong	7983 Aug 04 14:13		0 31 49	minimum elong			0 04 44
	7983 Aug 10 00:39	0° Mp		behind sun begin	7984 Jul 18 13:43	2°Ω02'06	
evening rise	7983 Aug 11 13:15	3° Mp 16'45		behind sun end	7984 Jul 19 00:22	2° Ω 58'26	
	7983 Aug 25 21:36	0∘ ⊽		evening rise	7984 Jul 26 00:16	17° Ω 53'47	
evening max el	7983 Sep 04 09:15	11° ≏ 49'17	23°42'54		7984 Jul 31 23:40	0° ™	
desc. node	7983 Sep 05 07:45	12° Ω 41'58		evening max el	7984 Aug 15 23:00	22° m 04'46	22°04'29
retrograde	7983 Sep 18 00:04	18° ≏ 38'18		desc. node	7984 Aug 22 04:49	26° Mp 45'19	
evening set	7983 Sep 22 10:51	17° ≏ 54'57		retrograde	7984 Aug 28 16:54	28° m 24'48	
min. Earth dist.	7983 Sep 28 19:31	14° ≏ 52'13	0.55841 AU	evening set	7984 Aug 31 16:28	28° Mp 05'03	
inferior conj	7983 Sep 30 21:40	13° ≏ 36′58	-5°32'10	min. Earth dist.	7984 Sep 09 04:03	24° m 24'35	0.54859 AU
minimum elong	7983 Sep 30 19:55	13° ≏ 39'37	5°32'04	inferior conj	7984 Sep 09 19:06	24° Mp 03'29	-4°52'33
morning rise	7983 Oct 09 07:08	9° ≙ 42'04		minimum elong	7984 Sep 09 10:44	24° Mp 15'13	4°50'53
direct	7983 Oct 12 02:48	9° ₽ 22'12		morning rise	7984 Sep 18 06:31	20° m 15'02	
morning max el	7983 Oct 22 11:45	14° ≙ 14'12	20°08'15	direct	7984 Sep 21 15:29	19° m 49'46	
-					•	-	

morning max el	7984 Oct 03 13:38	25° m 26'08	21°36'29		7985 Aug 29 16:22	30°R Ω	
C	7984 Oct 07 18:31	0∘ ⊽		direct	7985 Sep 02 00:12	29° Ω 36′07	
asc. node	7984 Oct 14 07:15	9° £ 31'19			7985 Sep 05 06:38	0° m	
morning set	7984 Oct 24 03:07	28° ₤ 19'59		morning max el	7985 Sep 15 05:37	5° m 58′22	23°19'28
	7984 Oct 24 22:13	0° M.		asc. node	7985 Oct 01 04:15	28° m 21'25	
					7985 Oct 02 01:27	0∘ ত	
superior conj	7984 Oct 31 08:23	13°M33'00	1°40'40	morning set	7985 Oct 08 14:33	13° ≏ 10'49	
minimum elong	7984 Oct 31 09:04	13° M 36'37	1°40'45				
max. Earth dist.	7984 Nov 04 11:56	22°M03'48	1.34922 AU	superior conj	7985 Oct 15 13:46	28° ഫ 11'32	1°40'54
evening rise	7984 Nov 08 18:09	0° ₰ 24'21		minimum elong	7985 Oct 15 13:13	28° ഫ 08'33	1°40'57
	7984 Nov 08 13:02	0°⊀			7985 Oct 16 09:59	0°M₊	
desc. node	7984 Nov 18 03:43	17° ∡ 12'41		max. Earth dist.	7985 Oct 18 08:12	4°M05'32	1.33444 AU
	7984 Nov 26 06:12	0°පි		evening rise	7985 Oct 23 06:01	14°M09'52	
evening max el	7984 Dec 13 23:56	22°る13'31	26°44'12		7985 Oct 31 17:14	0° ∡ 7	
retrograde	7984 Dec 27 01:57	29° る 30'53		desc. node	7985 Nov 05 00:47	7° ∡ 17'35	
evening set	7985 Jan 02 14:23	26° る 55'39	0.66027 AH		7985 Nov 21 04:10	0°る	27920107
min. Earth dist.	7985 Jan 06 15:46	22° ප් 51'01 20° ප් 37'53	0.66027 AU	evening max el	7985 Nov 26 12:43	5° පි 41'36 13° පි 01'10	2/200/
inferior conj	7985 Jan 08 13:02 7985 Jan 08 14:01	20° る 37'53	0°34'36	retrograde	7985 Dec 10 00:59 7985 Dec 16 22:54	13°る01'10	
minimum elong asc. node	7985 Jan 10 06:35	18° る 38'38	0 34 23	evening set min. Earth dist.	7985 Dec 10 22.34 7985 Dec 20 18:52		0.64545 AU
morning rise	7985 Jan 10 00:35	16 3 3636 14° る 57'29		inferior conj	7985 Dec 20 18:52 7985 Dec 23 03:52	6 334 16 4° 3 21'30	
direct	7985 Jan 17 11:37	14 3 7 29		minimum elong	7985 Dec 23 06:55	4°る13'18	
morning max el	7985 Jan 23 23:30	14 31141 17° る 40'38	18°18'36	minimum clong	7985 Dec 27 19:16	4 013 18 30°R ✓	1 3839
morning max cr	7985 Feb 02 06:09	0°≈	10 10 50	asc. node	7985 Dec 28 03:38	29° ×1 45'37	
morning set	7985 Feb 12 09:50	16° ≈ 07'31		morning rise	7985 Dec 29 16:26	28° × 54'59	
desc. node	7985 Feb 14 03:04	18°≈52'51		direct	7986 Jan 01 05:30	28° × 21'38	
dese. node	7985 Feb 21 02:33	0° ∀			7986 Jan 05 15:31	0°る	
	,,00100 21 02.55	٠,٨		morning max el	7986 Jan 07 16:12	1° る 44'27	17°54'36
superior conj	7985 Feb 27 21:17	10°) (40'49	-1°28'39	morning set	7986 Jan 24 21:56	27° る 41'26	
minimum elong	7985 Feb 27 11:51	10°) €03'51	1°27'36	Č	7986 Jan 26 06:59	0° ≈	
max. Earth dist.	7985 Mar 01 06:31	12°) 51′02	1.45502 AU	desc. node	7986 Feb 01 00:03	9° ≈ 29'18	
	7985 Mar 12 05:45	$0^{\circ}\mathbf{\Upsilon}$					
evening rise	7985 Mar 15 22:04	5° Y 45'36		superior conj	7986 Feb 07 11:50	20° ≈ 01'43	-0°45'39
greatest brilliancy	7985 Mar 26 19:23	22° Y 44'00	-0.8m	minimum elong	7986 Feb 07 06:33	19° ≈ 40'33	0°44'49
	7985 Mar 31 16:05	0°8		max. Earth dist.	7986 Feb 12 02:13	27° ≈ 20′36	1.45042 AU
evening max el	7985 Apr 08 03:15	9° 8 28'48	19°09'53		7986 Feb 13 18:43	0° ∀	
asc. node	7985 Apr 08 05:35	9° 8 34'41		evening rise	7986 Feb 23 12:50	15°) €08'24	
retrograde	7985 Apr 15 01:48	13° 8 23'18			7986 Mar 05 07:14	$0^{\circ}\mathbf{\Upsilon}$	
evening set	7985 Apr 18 13:03	12° 8 13'12		greatest brilliancy	7986 Mar 10 07:50	7° Y 27′25	-0.6m
inferior conj	7985 Apr 24 00:43	6° 8 24'55		evening max el	7986 Mar 22 07:34	23° Y 06'13	20°04'34
minimum elong	7985 Apr 24 00:18	6° 8 26'13	3°23'35	asc. node	7986 Mar 26 02:40	26° Y 16'49	
min. Earth dist.	7985 Apr 25 12:24	4° 8 30'15	0.66385 AU	retrograde	7986 Mar 30 00:09	27° Ƴ 33'47	
morning rise	7985 Apr 29 11:10	0° 8 07'15		evening set	7986 Apr 02 19:52	26° Y 08'49	
	7985 Apr 29 14:28	30°RƳ		inferior conj	7986 Apr 08 04:13	20° Υ 06'24	
direct	7985 May 05 18:22	27° Y 21'34		minimum elong	7986 Apr 08 02:48	20°Υ11'13	3°13'07
	7985 May 12 18:37	0° 8		min. Earth dist.	7986 Apr 09 01:24	18° Y 54'46	0.67489 AU
desc. node	7985 May 13 02:42	0° 8 14'09	26012150	morning rise	7986 Apr 13 09:29	13° Y 49'43	
morning max el	7985 May 18 12:12	4° 8 57'11 0° Ⅱ	26°13'50	direct desc. node	7986 Apr 19 04:44	11° Y 14'19 17° Y 20'37	
morning set	7985 Jun 06 16:16 7985 Jun 23 13:45	28° ∏ 33'36		morning max el	7986 Apr 29 23:41 7986 Apr 30 21:40	18° Y 15'05	24052155
morning set	7985 Jun 24 08:13	20 Дэээо 0°9		morning max er	7986 Apr 30 21.40 7986 May 10 18:44	0° 8	24 32 33
max. Earth dist.	7985 Jun 27 12:20	6°904'13	1.35039 AU		7986 May 30 17:37	0°II	
max. Latin dist.	7703 Juli 27 12.20	0 30413	1.55057 AC	morning set	7986 Jun 05 21:43	10° Ⅲ 36'29	
superior conj	7985 Jul 02 15:49	16° © 21'03	-0°25'20	max. Earth dist.	7986 Jun 09 12:36	17° I 108'58	1.37005 AU
minimum elong	7985 Jul 02 17:16	16° © 28'29		max. Earth dist.	7700 Jun 07 12.30	17 1100 30	1.57005710
asc. node	7985 Jul 05 04:44	21° © 34'53	0 23 10	superior conj	7986 Jun 16 02:10	29° Ⅱ 37'29	-0°56'59
	7985 Jul 09 05:46	0° Ω		minimum elong	7986 Jun 16 05:38	29° ∏ 54'27	
evening rise	7985 Jul 10 08:44	2° Ω 19'45		3	7986 Jun 16 06:46	0°9	
5 -	7985 Jul 26 09:58	0° my		asc. node	7986 Jun 22 01:46	11° © 33'02	
evening max el	7985 Jul 28 22:43	2° m/46'01	20°37'11	evening rise	7986 Jun 24 12:15	16° © 27'22	
retrograde	7985 Aug 09 05:04	8° m/20'15		- C	7986 Jul 01 13:10	$0^{\circ}\Omega$	
desc. node	7985 Aug 09 01:53	8° m/20'12		evening max el	7986 Jul 11 11:36	14° Ω 09'56	19°28'35
evening set	7985 Aug 11 06:44	8° m 09'46		retrograde	7986 Jul 21 01:03	18° Ω 52'58	
inferior conj	7985 Aug 20 11:55	4° الله 12′47	-3°21'31	evening set	7986 Jul 22 21:40	18° Ω 43′02	
minimum elong	7985 Aug 20 03:10	4° m 25′21	3°18'43	desc. node	7986 Jul 26 22:58	17° Ω 20'12	
min. Earth dist.	7985 Aug 21 13:33	3° m 35'59	0.54778 AU	inferior conj	7986 Jul 31 14:39	14° Ω 36′59	
morning rise	7985 Aug 28 23:19	0°111'01		minimum elong	7986 Jul 31 10:48	14° Ω 43'11	1°23'58

min. Earth dist.	7986 Aug 03 02:06	13° Ω 01'44	0.55646 AU	inferior conj	7987 Jul 12 13:00	25° © 39'02	0°23'08
morning rise	7986 Aug 08 21:22	10° Ω 03'18		minimum elong	7987 Jul 12 13:52	25° © 37'24	0°22'42
direct	7986 Aug 13 17:28	9° Ω 10'37		desc. node	7987 Jul 13 20:00	24°540'39	
morning max el	7986 Aug 27 18:16	16° Ω 13'25	25°04'01	min. Earth dist.	7987 Jul 15 19:11	23°913'37	0.57300 AU
	7986 Sep 07 21:37	0° m/		morning rise	7987 Jul 20 08:59	20°528'12	
asc. node	7986 Sep 18 01:15	17° m 39'22		direct	7987 Jul 26 01:28	19°908'02	
		~					26022112
morning set	7986 Sep 23 02:15	27° m 59'57		morning max el	7987 Aug 09 09:54	26°540'25	26°33'12
	7986 Sep 24 00:41	0∘ ಹ			7987 Aug 12 14:12	$0 {\circ} \Omega$	
					7987 Sep 01 05:46	0° m)	
superior conj	7986 Sep 29 23:16	12° ≏ 59'40	1°35'03	asc. node	7987 Sep 04 22:16	7° m)17'41	
minimum elong	7986 Sep 29 21:45	12° ≏ 51'19	1°34'57	morning set	7987 Sep 07 12:36	12° m 42'29	
max. Earth dist.	7986 Oct 01 11:55	16° £ 20'09	1.32402 AU				
evening rise	7986 Oct 07 03:31	28° ≏ 20'42		superior conj	7987 Sep 14 10:47	27° m/50'51	1°23'42
3	7986 Oct 07 22:56	0° M		minimum elong	7987 Sep 14 08:41	27° m/39'11	1°23'25
desc. node	7986 Oct 22 21:52	26°M55'52		max. Earth dist.	7987 Sep 14 20:36	28° m) 45'15	1.31816 AU
desc. Hode		20 11 6 33 32 0° √ 1		max. Earth dist.		0° ⊡	1.51610 AU
	7986 Oct 24 21:55		0.00.00.00		7987 Sep 15 10:06		
evening max el	7986 Nov 08 23:00	18° ∡ 741'40	27°27'56	evening rise	7987 Sep 21 07:51	12° ≙ 49'01	
retrograde	7986 Nov 22 17:22	25° ≯ 58'16			7987 Sep 30 01:32	0° M	
evening set	7986 Nov 29 19:57	23° ∡ ³30'39		desc. node	7987 Oct 09 18:56	15°M56'46	
min. Earth dist.	7986 Dec 03 12:19	20° ₹ ¹29'10	0.62746 AU		7987 Oct 21 03:03	0° ∡ ¹	
inferior conj	7986 Dec 06 08:09	17° ∡ ¹46'21	-2°48'59	evening max el	7987 Oct 22 04:33	1° ∡ ¹01'50	27°02'59
minimum elong	7986 Dec 06 13:27	17° ∡ ³33'35	2°46'52	retrograde	7987 Nov 05 02:08	8° ҂ 12'35	
morning rise	7986 Dec 13 09:01	12° ₹ ³36'56		evening set	7987 Nov 12 01:40	6° ∡ 704'21	
asc. node	7986 Dec 15 00:41	12° 🖈 14'20		min. Earth dist.	7987 Nov 15 19:11	3° × ⁷ 23'24	0.60722 AU
direct		12° 🖈 14'20		inferior conj		0° ₹ 44'04	
	7986 Dec 15 16:33		150 1011 0	3	7987 Nov 18 22:35		
morning max el	7986 Dec 22 09:24	15° ∡ 38′20	17°48'10	minimum elong	7987 Nov 19 05:35	0° ∡ 129'14	3°54'57
	7987 Jan 01 10:54	0°ಕ			7987 Nov 19 19:31	30°RM₊	
morning set	7987 Jan 07 10:02	10°る24'12		morning rise	7987 Nov 26 11:51	25°M54'38	
desc. node	7987 Jan 18 21:02	0° ≈ 11'59		direct	7987 Nov 28 16:59	25°M35'12	
	7987 Jan 18 18:10	0° ≈		asc. node	7987 Dec 01 21:43	26°Ml17'34	
				morning max el	7987 Dec 05 23:45	29°M13'18	18°00'20
superior conj	7987 Jan 19 01:43	0° ≈ 31'36	-0°01'26	Ü	7987 Dec 06 18:00	0° ∡ ¹	
minimum elong	7987 Jan 19 01:35	0° ≈ 31'00		morning set	7987 Dec 21 15:36	23° х 56'11	
behind sun begin	7987 Jan 18 16:30	29° ප 52'58	0 01 10	morning sec	7987 Dec 24 22:24	0°궁	
•					7987 Dec 24 22.24	0.0	
behind sun end	7987 Jan 19 10:39	1°≈08'58					
max. Earth dist.	7987 Jan 25 19:03	11° ≈ 33'14	1.43892 AU	superior conj	7987 Dec 31 17:04	12° ろ 14'18	0°36'44
evening rise	7987 Feb 03 00:38	24° ≈ 31'46		minimum elong	7987 Dec 31 19:52	12° る 26'39	0°36'27
	7987 Feb 06 14:12	0° ℋ		desc. node	7988 Jan 05 18:02	20°る57'20	
	7987 Feb 27 11:24	0 $^{\circ}$ $\mathbf{\Upsilon}$		max. Earth dist.	7988 Jan 08 07:24	25° ♂ 14'47	1.42195 AU
evening max el	7987 Mar 05 06:19	6° Ƴ 44'46	21°12'19		7988 Jan 11 04:49	0° ≈	
asc. node	7987 Mar 12 23:45	11° Y 47'28		evening rise	7988 Jan 14 00:20	4° ≈ 31'37	
retrograde	7987 Mar 13 22:33	11° Y 52'07		S	7988 Jan 30 21:59	0°) €	
evening set	7987 Mar 18 03:55	10° Υ 12'07		evening max el	7988 Feb 16 00:12	20° ¥ 25'17	22°29'01
inferior conj	7987 Mar 23 11:18	3°Υ58'05	2°52'08	retrograde	7988 Feb 25 19:11	26°\(\frac{1}{2}\)3'42	22 27 01
		4° Υ 05'14	2°51'43	•	7988 Feb 27 20:49	25°\(\)\(\)\(\)\(\)\(\)	
minimum elong	7987 Mar 23 09:14			asc. node			
min. Earth dist.	7987 Mar 23 19:16	3° Y 30′25	0.68151 AU	evening set	7988 Mar 01 11:32	24° ∺ 18'40	
	7987 Mar 26 11:00	30° ₹		inferior conj	7988 Mar 06 19:51	17° ¥ 56′05	
morning rise	7987 Mar 28 14:21	27°) (44′10		minimum elong	7988 Mar 06 17:34	18°) 04′00	2°20'51
direct	7987 Apr 02 19:59	25°) €26′10		min. Earth dist.	7988 Mar 06 15:37	18° ₩ 10'47	0.68392 AU
	7987 Apr 11 13:29	0 $^{\circ}$ $\mathbf{\Upsilon}$		morning rise	7988 Mar 11 23:28	11°) 46′30	
morning max el	7987 Apr 13 07:01	1° Y 39'49	23°23'41	direct	7988 Mar 16 15:04	9° ∺ 49'51	
desc. node	7987 Apr 16 20:40	5° Ƴ 33′20		morning max el	7988 Mar 25 19:11	15° ∺ 11'39	21°55'38
	7987 May 04 18:15	0°8		desc. node	7988 Apr 02 17:37	24°) €33'24	
morning set	7987 May 18 07:03	21° 8 33'58		desc. node	7988 Apr 06 18:22	0° Υ	
•			1 20217 ATT			0°8	
max. Earth dist.	7987 May 22 08:25	28° 8 31'04	1.39217 AU		7988 Apr 26 18:31		
	7987 May 23 04:44	$\Pi^{\circ}0$		morning set	7988 Apr 27 12:56	1° 8 13'46	
				max. Earth dist.	7988 May 03 07:05	10° と 38'49	1.41423 AU
superior conj	7987 May 29 22:33	12° Ⅱ 11'47					
minimum elong	7987 May 30 03:47	12° Ⅲ 36′11	1°27'03	superior conj	7988 May 11 00:18	23° 8 52'39	-1°53'35
evening rise	7987 Jun 08 07:56	0°೨೦8'56		minimum elong	7988 May 11 05:55	24° 8 17'26	1°53'12
	7987 Jun 08 06:05	0°€			7988 May 14 10:44	$\Pi^{\circ}0$	
asc. node	7987 Jun 08 22:49	1° 5 20'49		evening rise	7988 May 21 16:04	13° Ⅱ 14'30	
evening max el	7987 Jun 24 12:05	26°917'14	18°40'47	asc. node	7988 May 25 19:50	20° I 52'50	
man vi	7987 Jun 30 09:18	0°Ω	/		7988 May 31 02:29	0°9	
ratrograda	7987 Jul 02 13:52	0° Ω 17'27		avanina may al	7988 Jun 06 20:25	8°958'52	18012176
retrograde				evening max el			10 13 20
evening set	7987 Jul 04 15:15	0° £ 02'45		retrograde	7988 Jun 13 21:29	12°531'36	
	7987 Jul 04 19:46	30° ₹ 5		evening set	7988 Jun 16 06:25	12° © 08'12	

inferior conj	7988 Jun 23 08:56	7° © 23'53	1°46'14	evening set	7989 May 30 13:12	24° ∏ 51'33	
minimum elong	7988 Jun 23 11:52	7° © 17'26	1°45'12	inferior conj	7989 Jun 05 23:49	19° ∏ 47'09	2°41'15
min. Earth dist.	7988 Jun 26 18:10	4° © 27'29	0.59419 AU	minimum elong	7989 Jun 06 02:40	19° Ⅱ 40'00	2°40'28
desc. node	7988 Jun 29 17:02	2°515'07		min. Earth dist.	7989 Jun 09 01:06	16° Ⅱ 43'51	0.61665 AU
morning rise	7988 Jun 30 14:18	1°542'26		morning rise	7989 Jun 12 14:04	13° ∏ 45'19	
t' .	7988 Jul 05 02:09	30°RⅡ 200Ⅲ50122		desc. node	7989 Jun 16 14:04	11° ∏ 47′24	
direct	7988 Jul 06 22:58	29° I I50′23		direct	7989 Jun 19 07:18	11° ∏ 24'44	27055122
	7988 Jul 08 20:27	0°9 7°941'10	27922152	morning max el	7989 Jul 03 11:59	19° ∏ 25'11	21°55'23
morning max el	7988 Jul 21 07:43	0°Ω	21-32-32		7989 Jul 12 11:37	0ა V 0ა©	
marning gat	7988 Aug 07 04:52 7988 Aug 21 19:54	27° Ω 13'39		morning set	7989 Jul 31 02:25 7989 Aug 05 22:13	11° Ω 27'19	
morning set asc. node	7988 Aug 21 19:15	$27^{\circ}\Omega 10'12$		asc. node	7989 Aug 08 16:12	$17^{\circ}\Omega 11'21$	
asc. Houe	7988 Aug 23 03:24	0° m		max. Earth dist.	7989 Aug 11 14:59		1.32008 AU
	7700 Aug 25 05.24	עווי ∨		max. Larur dist.	7707 Aug 11 14.37	23 663133	1.52000 AC
superior conj	7988 Aug 28 22:29	12° m 39'15	1°07'18	superior conj	7989 Aug 13 08:32	27° Ω 18'40	0°46'16
minimum elong	7988 Aug 28 20:14	12° Mp 26'49	1°06'53	minimum elong	7989 Aug 13 06:39	27° Ω 08'18	0°45'49
max. Earth dist.	7988 Aug 28 06:55	11° m 13'02	1.31684 AU	-	7989 Aug 14 13:53	0° m y	
evening rise	7988 Sep 04 16:37	27° m 28'02		evening rise	7989 Aug 20 03:44	12° Mp 10'46	
	7988 Sep 05 21:18	0∘ ⊽			7989 Aug 29 02:28	0∘ ⊽	
	7988 Sep 22 16:32	0°M		desc. node	7989 Sep 12 13:04	21° ≏ 01'49	
desc. node	7988 Sep 25 16:00	4°№05'46		evening max el	7989 Sep 14 17:35	23° £ 15'56	24°39'05
evening max el	7988 Oct 03 02:59	12°M33'20	26°04'38		7989 Sep 26 04:36	0°M	
retrograde	7988 Oct 17 01:21	19° ™ 37'40		retrograde	7989 Sep 28 13:06	0°M12'46	
evening set	7988 Oct 23 11:18	17° M 59'19			7989 Sep 30 21:51	30° ₽ Ω	
min. Earth dist.	7988 Oct 27 15:57	15°M24'28	0.58639 AU	evening set	7989 Oct 03 20:34	29° ≏ 09'51	
inferior conj	7988 Oct 30 19:43	13°ML05'17	-4°55'52	min. Earth dist.	7989 Oct 09 04:39	26° ≏ 22'47	0.56737 AU
minimum elong	7988 Oct 31 02:21	12°M53'03	4°54'29	inferior conj	7989 Oct 11 20:46	24° ≏ 40'14	-5°30'33
morning rise	7988 Nov 07 19:42	8°M38'13		minimum elong	7989 Oct 11 23:10	24° ≏ 36′23	5°30'22
direct	7988 Nov 10 02:44	8°M20'46		morning rise	7989 Oct 20 03:58	20° £ 35'31	
asc. node	7988 Nov 17 18:44	11°M49'26		direct	7989 Oct 22 17:55	20° ≏ 17'11	
morning max el	7988 Nov 18 07:39	12°M19'39	18°32'41	morning max el	7989 Nov 01 05:31	24° ≏ 46'25	19°26'55
	7988 Nov 30 03:58	0° ⊼		asc. node	7989 Nov 04 15:45	28° ≏ 34'53	
morning set	7988 Dec 04 09:23	8° ≯ 02'12			7989 Nov 05 17:36	0° M	
		=		morning set	7989 Nov 18 11:20	22°M29'43	
superior conj	7988 Dec 13 06:11	24° 🖈 59'21	1°05'55		7989 Nov 22 04:54	0° ∡ 7	
minimum elong	7988 Dec 13 09:38	25° ₹ 15'25	1°05'37		7000 N 26 11 40	00 731103	1005154
D d E c	7988 Dec 15 23:34	0°る	1 40146 477	superior conj	7989 Nov 26 11:48	8°×731'03	1°25'54
max. Earth dist.	7988 Dec 20 15:28		1.40146 AU	minimum elong	7989 Nov 26 14:32	8° 🖈 44'29	
desc. node	7988 Dec 22 15:03 7988 Dec 24 20:38	11°る41'57 15°る27'56		max. Earth dist.	7989 Dec 02 21:15	20° x '39'19 27° x '21'22	1.37982 AU
evening rise	7989 Jan 02 22:29	13 3 2736 0° ≈		evening rise	7989 Dec 06 14:45 7989 Dec 08 03:07	27 x・21 22	
	7989 Jan 24 18:14	0 ≈ 0° ∀		desc. node	7989 Dec 09 12:04	0 8 2° る 21'21	
evening max el	7989 Jan 28 14:52	4°) (09'41	23°49'04	desc. Hode	7989 Dec 27 10:03	2 6 21 21 0° ≈	
retrograde	7989 Feb 08 12:41	10° H 35'07	23 49 04	evening max el	7990 Jan 11 04:02	0 ∞ 17°≈56'20	25°06'08
evening set	7989 Feb 13 17:13	8° ∺ 25'33		retrograde	7990 Jan 23 02:04	24°≈50'44	23 00 00
asc. node	7989 Feb 13 17:52	8° H 24'10		evening set	7990 Jan 28 19:25	22°≈28'11	
min. Earth dist.	7989 Feb 18 12:13	2° H 51'58	0.68230 AU	asc. node	7990 Jan 31 14:56	19° ≈ 34'00	
inferior conj	7989 Feb 19 04:02	1° ¥ 58'07	1°42'12	min. Earth dist.	7990 Feb 02 06:47	17° ≈ 29'13	0.67670 AU
minimum elong	7989 Feb 19 02:00	2° ₩ 05'02		inferior conj	7990 Feb 03 10:00	16° ≈ 00'17	0°54'51
3	7989 Feb 20 15:16	30° R ≈		minimum elong	7990 Feb 03 08:43	16° ≈ 04'29	0°54'26
morning rise	7989 Feb 24 10:47	25°≈54'21		morning rise	7990 Feb 08 22:19	10° ≈ 04'03	
direct	7989 Feb 28 12:48	24° ≈ 20′12		direct	7990 Feb 12 11:46	8° ≈ 51'10	
morning max el	7989 Mar 08 13:48	28° ≈ 55'18	20°36'19	morning max el	7990 Feb 19 16:28	12° ≈ 51'01	19°30'23
	7989 Mar 09 14:54	0°) €		greatest brilliancy	7990 Mar 04 12:00	29° ≈ 40'54	-0.7m
desc. node	7989 Mar 20 14:35	14° ₩ 08'18			7990 Mar 04 17:10	0° ∀	
	7989 Mar 31 08:47	0 ° Υ		desc. node	7990 Mar 07 11:33	4° ₭ 08'17	
morning set	7989 Apr 06 18:05	9° Y 47'49		morning set	7990 Mar 16 15:56	18°) 09'41	
max. Earth dist.	7989 Apr 15 13:12	23° Y 43'03	1.43340 AU		7990 Mar 24 07:03	$0^{\circ}\Upsilon$	
	7989 Apr 19 09:40	9° 8		max. Earth dist.	7990 Mar 29 02:28	7° Ƴ 33'34	1.44722 AU
avmani	7090 4 22 02 50	40 20154	2000120	aumani '	7000 4 02 04 57	1.40000.510.1	200007
superior conj	7989 Apr 22 02:59	4° 8 30'54 4° 8 42'47		superior conj	7990 Apr 02 04:57	14° Υ 05'21	
minimum elong	7989 Apr 22 05:50	25° 8 34'38	2 09 2 /	minimum elong	7990 Apr 02 01:21	13° Y 50'56 0° と	2 0903
evening rise	7989 May 04 08:21 7989 May 06 20:36	25° O 34'38 0° Ⅱ		evening rise	7990 Apr 11 23:20 7990 Apr 16 04:17	7° 8 00'42	
asc. node	7989 May 06 20.36 7989 May 12 16:51	10° Ⅱ 03'33		asc. node	7990 Apr 16 04.17 7990 Apr 29 13:53	28° 8 46'14	
evening max el	7989 May 21 08:49	22° I I04'58	18°05'33	use. Houc	7990 Apr 30 10:35	28 O 40 14 0° Ⅱ	
retrograde	7989 May 27 08:49 7989 May 27 20:52	25° I I26'18	10 03 33	evening max el	7990 Apr 30 10.33 7990 May 04 22:02	о п 5°П27'27	18°16'28
10110Brude	1,00, 1714y 21 20.02	10 10 معد دد		Croming man Cl	1770 1114y UT 22.02	J 14/4/	10 10 20

retrograde	7990 May 11 07:24	8° Ⅱ 51'57		evening rise	7991 Mar 28 00:47	17° Ƴ 28'12
evening set	7990 May 14 06:49	8° Ⅱ 04'18		evening rise	7991 Apr 04 20:52	0°8
inferior conj	7990 May 20 05:39		3°12'06	greatest brilliancy	7991 Apr 04 19:45	29°Υ55'34 -0.9m
minimum elong	7990 May 20 07:20	2° П 36'45	3°11'45	asc. node	7991 Apr 16 10:58	16° 8 51'33
min. Earth dist.	7990 May 22 17:25	29° 8 53'11	0.63763 AU	evening max el	7991 Apr 18 09:20	18° 8 59'16 18°45'29
	7990 May 22 14:56	30°R 8		retrograde	7991 Apr 25 00:58	22° 8 39'44
morning rise	7990 May 26 06:40	26° 8 28'35		evening set	7991 Apr 28 07:37	21° 8 38'12
direct	7990 Jun 02 00:40	23° 8 48'40		inferior conj	7991 May 03 22:26	15° 8 58'49 3°23'52
desc. node	7990 Jun 03 11:05	23° 8 55'15		minimum elong	7991 May 03 22:45	15° 8 57'50 3°23'46
	7990 Jun 13 23:05	$\Pi^{\circ}0$		min. Earth dist.	7991 May 05 18:57	13° 8 41'26 0.65544 AU
morning max el	7990 Jun 15 20:51	1° Ⅱ 50'07	27°40'17	morning rise	7991 May 09 13:15	9° 8 41'27
	7990 Jul 06 17:21	0 \circ \odot		direct	7991 May 16 01:46	6° 8 54′12
morning set	7990 Jul 20 17:15	25° © 17'14		desc. node	7991 May 21 08:07	8° 8 23'25
	7990 Jul 23 01:20	$0^{\circ}\Omega$		morning max el	7991 May 29 07:20	14° 8 44'18 26°52'36
max. Earth dist.	7990 Jul 25 16:53	5° Ω 29'48	1.32803 AU		7991 Jun 10 18:02	∏ °0
asc. node	7990 Jul 26 13:11	7° Ω 16′56			7991 Jun 29 11:14	0ంత
				morning set	7991 Jul 04 01:55	8°534'13
superior conj	7990 Jul 28 15:07	11° Ω 43'40	0°21'03	max. Earth dist.	7991 Jul 08 08:55	16°559'01 1.34084 AU
minimum elong	7990 Jul 28 14:07	11° Ω 38′16	0°20'45			
evening rise	7990 Aug 04 15:21	26° Ω 51'31		superior conj	7991 Jul 12 16:01	25°5647'31 -0°07'39
	7990 Aug 06 03:04	O°Mp		minimum elong	7991 Jul 12 16:26	25°549'42 0°07'42
	7990 Aug 23 22:51	0∘ ⊽		behind sun begin	7991 Jul 12 11:24	25° © 23'22
evening max el	7990 Aug 27 04:56	3° ჲ 30′29	23°00'29	behind sun end	7991 Jul 12 21:29	26°\$16'04
desc. node	7990 Aug 30 10:08	6° £ 17'30		asc. node	7991 Jul 13 10:10	27° 5 22'28
retrograde	7990 Sep 09 12:46	10° ≙ 10′10			7991 Jul 14 16:07	0 $^{\circ}\Omega$
evening set	7990 Sep 13 08:03	9° £ 38′29		evening rise	7991 Jul 20 01:31	11° Ω 23'49
min. Earth dist.	7990 Sep 20 13:31	6° ഫ 21'29	0.55323 AU		7991 Jul 29 16:23	0° m)
inferior conj	7990 Sep 22 02:27	5° ഫ 28'10		evening max el	7991 Aug 08 22:00	13° m 52'25 21°25'24
minimum elong	7990 Sep 21 21:29	5° ≏ 35'21	5°21'46	desc. node	7991 Aug 17 07:13	19° m 19'58
morning rise	7990 Sep 30 13:03	1° ഫ 38'30		retrograde	7991 Aug 21 02:41	19° m 55'06
direct	7990 Oct 03 13:58	1° ≏ 16'49		evening set	7991 Aug 23 14:22	19° m 40'54
morning max el	7990 Oct 14 14:53	6° Ω 26'29	20°43'27	inferior conj	7991 Sep 01 20:06	15° Mp 42'51 -4°19'11
asc. node	7990 Oct 22 12:45	16° ≙ 18'56		minimum elong	7991 Sep 01 10:39	15° TQ 56'06 4°16'46
	7990 Oct 30 05:24	0° M .		min. Earth dist.	7991 Sep 01 22:25	15° m 39'35 0.54700 AU
morning set	7990 Nov 02 18:39	7° ™ 10'51		morning rise	7991 Sep 10 07:47	11° m 51'05
		w		direct	7991 Sep 13 22:50	11° m 22'35
superior conj	7990 Nov 10 05:23	22°M36'47	1°37'27	morning max el	7991 Sep 26 12:02	17° m 19'22 22°19'12
minimum elong	7990 Nov 10 06:51	22°M44'19	1°37'29		7991 Oct 06 12:44	0∘ ⊽
	7990 Nov 13 21:32	0° ∡ 7		asc. node	7991 Oct 09 09:46	4° £ 47'36
max. Earth dist.	7990 Nov 15 05:17	2° x ⁷ 35'39	1.35951 AU	morning set	7991 Oct 18 05:05	21° ♀ 59'01
evening rise	7990 Nov 19 04:06	10° ₹ 05'58			7991 Oct 21 23:30	0° M
desc. node	7990 Nov 26 09:05	22° ₹ 51'27			5 001 0 . 25 0 5 1 5	50M 05105 1041100
	7990 Nov 30 17:32	ව°0 0°3		superior conj	7991 Oct 25 07:17	7°M.05'27 1°41'33
·	7990 Dec 23 00:31	0°≈	26012102	minimum elong	7991 Oct 25 07:25	7°ML06'11 1°41'38
evening max el	7990 Dec 24 17:00	1°≈41'44	26°13'03	max. Earth dist.	7991 Oct 28 20:13	14°M28'51 1.34236 AU
retrograde	7991 Jan 06 10:35	8°≈54'30		evening rise	7991 Nov 02 08:49	23° M 31'51 0° ∡
evening set	7991 Jan 12 16:26 7991 Jan 16 21:09	6°≈22'15 1°≈57'56	0.66731 AU	daga mada	7991 Nov 05 18:38 7991 Nov 13 06:08	13° ∡ '07'09
min. Earth dist.	7991 Jan 18 11:52	1 ≈3736 29° ♂ 58'58		desc. node	7991 Nov 24 08:39	13 x ·0/09 0°る
inferior conj		29 る 58'58		avanina may al		
minimum elong transit middle	7991 Jan 18 11:52 7991 Jan 18 11:52	29° ろ 58'58	0°00'00 0°00'00	evening max el retrograde	7991 Dec 07 06:08 7991 Dec 20 13:30	15°පි19'20 27°02'33 22°පි39'27
transit begin	7991 Jan 18 11:32 7991 Jan 18 09:00	0°≈07'48	0 00 00	evening set	7991 Dec 27 06:16	22 83927 20° る 02'55
transit end	7991 Jan 18 14:44	0 ≈0748 29° ට 50'08		min. Earth dist.	7991 Dec 27 00:10 7991 Dec 31 05:09	16°る12'47 0.65432 AU
transit ciid	7991 Jan 18 11:31	29 03008 30°Rる		inferior conj	7991 Dec 31 03:09 7992 Jan 02 07:28	13°る50'04 -1°01'55
asc. node	7991 Jan 18 11:31 7991 Jan 18 12:01	30 ⁻ KO 29° ろ 58'30		minimum elong	7992 Jan 02 07:28 7992 Jan 02 09:17	13°る30'04 -1°01'33 13°る44'56 1°01'00
morning rise	7991 Jan 24 08:00	29 3 3830 24° る 12'13		asc. node	7992 Jan 05 09:06	13° 3 34'27
direct	7991 Jan 27 10:24	24 312 13 23° る 17'43		morning rise	7992 Jan 03 09:06 7992 Jan 08 13:32	8°る15'14
morning max el	7991 Feb 03 02:24	25 3 1743 26° 3 54'51	18°40'02	direct	7992 Jan 11 06:46	8 813 14 7° 8 35'20
morning max ci	7991 Feb 05 02:24 7991 Feb 05 20:57	20 3 3431 0° ≈	10 70 02	morning max el	7992 Jan 17 17:26	11°る00'50 18°06'14
desc. node	7991 Feb 03 20.37 7991 Feb 22 08:31	0 ∞ 24°≈26'16		morning max ci	7992 Jan 31 01:27	0°≈
morning set	7991 Feb 24 06:29	24 ≈20 10 27°≈27'03		morning set	7992 Feb 05 02:11	0 ∞ 8°≈12'48
	7991 Feb 25 21:23	0° \		desc. node	7992 Feb 09 05:29	14°≈57'16
max. Earth dist.	7991 Mar 11 20:07		1.45426 AU	acce. node	7992 Feb 18 14:51	0° \
Durin dist.	/// IIII II 20.0/		1 120 110		.,,2100 10 17.01	· //
superior conj	7991 Mar 12 12:46	22°) 56'47	-1°48'41	superior conj	7992 Feb 19 19:25	1° 升 52'51 -1°11'14
minimum elong	7991 Mar 12 03:36	22°) (30'17		minimum elong	7992 Feb 19 11:16	1° ¥ 20'39 1°10'09
	7991 Mar 17 00:35	0°Υ	. ++	max. Earth dist.	7992 Feb 22 15:30	6° ¥ 20'38 1.45393 AU
		•			10.00	

1992 1992 1993 1996	evening rise	7992 Mar 06 23:51	27° ₩ 07'16		superior conj	7993 Jan 29 18:57	11° ≈ 40'32	-0°26'30
1992 May 11 of 22 24 24 25 27 27 27 27 27 27 27		7992 Mar 08 20:29	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	7993 Jan 29 16:00	11° ≈ 28′34	0°25'58
owner mane of mane of more similar or more similar or more similar or more more or more more or more more	greatest brilliancy	7992 Mar 19 20:59	16° Ƴ 52'47	-0.7m	max. Earth dist.	7993 Feb 04 10:22	20° ≈ 45′16	1.44636 AU
Section 999 Apr 07 02 1864 492817 5		7992 Mar 29 08:27	9° 8			7993 Feb 10 07:34	0° ∀	
Section 1992 Apr 07 22 14 6 654 1972 197	evening max el	7992 Mar 31 16:42	2° 8 36'04	19°31'22	evening rise	7993 Feb 14 11:27	6° ℋ 25'45	
Second 1992 Apr 1 12.53 5762726 minimum clong 1992 Apr 1 12.53 5762726 minimum clong 1992 Apr 16 12.53 570736 370943 centing set 7999 Amr 2 0.616 1977927 minimum clong 1992 Apr 16 14.50 507767 min Farth dist 1992 Apr 16 14.50 507767 0.00 1.00	asc. node	7992 Apr 02 08:04	4° 8 08'17			7993 Mar 02 05:16		
International 7992 Apr 10 25:51 2079/3306 3'2015 2079/3506 7999 Apr 12 20-6 1979/5747 20-6 2079/5767 20-7	retrograde	7992 Apr 07 22:14	6° 8 43'37		evening max el	7993 Mar 14 18:46		20°32'00
miniman clong 7992 Art 10 2158 2979/3599 3*2075 evening set 7999 Art 26 0.026 0.07*20.75 evening first 7999 Art 26 0.026 13*0*70.35 3*0*10.02 13*0*72.35 3*0*10.02 13*0*72.35 3*0*10.02 13*0*72.35 3*0*10.02 13*0*72.35 3*0*10.02 13*0*72.35 3*0*10.02 13*0*72.35 3*0*10.02 13*0*72.35 3*0*10.02 13*0*72.35 3*0*10.02 13*0*72.35 3*0*10.02 13*0*72.35 3*0*10.02 13*0*72.35 3*0*10.02 13*0*72.35 3*0*10.02 13*0*72.35 3*0*10.02 13*0*72.35 3*0*10.02 13*0*72.35 3*0*10.02 13*0*72.35 3*0*10.02 13*0*72.35 3*0*10.02 13*0*72.35 3*0*10.02 3	evening set	7992 Apr 11 12:53	5° 8 27'26		asc. node	7993 Mar 20 05:10	20° Y 21'56	
1992 Apr 16 14-94 20 20 20 20 20 20 20 2	inferior conj	7992 Apr 16 22:51	29° Ƴ 33'06	3°20'43	retrograde	7993 Mar 22 20:43	20° Ƴ 57'47	
min Earth dist 7992 Apr 2 0.04 2 m 18 0.420 277°P5802 0.68913 AU minn Earth dist 9993 Apr 0 10 0.224 1.3°P52490 60783 AU direct 7992 Apr 2 0.04 2 m 28 0.913 20°P52483 morning msc 7993 May 0 50 77°0209 morning msc 7993 May 0 1711 21°P5240 direct 9993 Apr 0 10 0.000 77°0209 force node 7992 May 12 1616 0°B direct 9993 Apr 2 40 0.00 11°P1749 24°114 morning act 7992 Jun 15 2017 21°H0752 morning max el 7993 Apr 2 40 0.00 12°P1747 7991 May 80 0.04 0°E* 12°P1747 7991 May 80 0.04 0°E* 12°P1747 7991 May 80 0.04 0°E* 12°P1747 17°174 18°14	minimum elong	7992 Apr 16 21:58	29° Ƴ 35'59	3°20'35	evening set	7993 Mar 26 20:26		
morning time 7992 Amr 2 g6-43 22°P(1282 min. Earth dist. 7992 Amr 1 g1-72		7992 Apr 16 14:40	30° ŖƳ		inferior conj	7993 Apr 01 04:08		3°05'32
Green	min. Earth dist.	7992 Apr 18 04:20	27° Y 56'02	0.66913 AU	minimum elong	7993 Apr 01 02:24	13° Y 24'59	
Money moming max 7992 May 10 1507 24th 74th 750 25th 45th 7502 25th 755 25t	morning rise	7992 Apr 22 06:43	23° Ƴ 15′28		min. Earth dist.	7993 Apr 01 19:36	12° Y 26′04	0.67835 AU
morning max el 790 May 10 17-11 277°\f5540 25°40'55 morning max el 7903 May 2 3 0.208 13°\f1540 790 May 12 10-16 790 May 12 10-15 790 May 12 10-	direct	7992 Apr 28 09:13	20° Ƴ 32'43		morning rise	7993 Apr 06 08:08	7° Ƴ 03'29	
Post of the Post	desc. node	7992 May 07 05:07	24° Y 40'50		direct	7993 Apr 11 21:51	4° Ƴ 34'39	
moming set 7992 Lun 03 1.08 0°E 1100 7992 Lun 15 2017 2110 7992 Lun 19 1354 28°E 10515 135833 AU moming set 7993 May 28 19.16 22°E 21141 1793 AU 21141 1793 AU 179	morning max el	7992 May 10 17:11	27° Ƴ 55'40	25°40'55	morning max el	7993 Apr 23 02:08	11° Ƴ 15'49	24°15'14
max. Earth dist.		7992 May 12 16:16	0°8		desc. node	7993 Apr 24 02:05	12° Ƴ 17'47	
Mark Earth disk.		7992 Jun 03 11:08	$\Pi^{\circ}0$			7993 May 08 00:48	$8^{\circ 0}$	
1992 Jun 20 13:55 0°€ max. Earth dist. 7993 Jun 01 11:20 9° Π13°0 1.37936 AU	morning set	7992 Jun 15 20:17	21° II 07'52			7993 May 27 05:07	$\Pi^{\circ}0$	
superior conj 7992 Jun 25 08.37 9°£22145 - 0°38'24 superior conj 7993 Jun 08 13.33 22°£124'0 1°10'14' asc. node 7992 Jun 29 07:12 17°£24'26 minimum elong 7993 Jun 10 81 17.51 22°£14'16 1°0'4' evening rise 7992 Jul 08 103:21 25°£24'21'4 asc. node 7993 Jun 10 61 11.64 1°7€21'46'6 1°0'4' <	max. Earth dist.	7992 Jun 19 13:54	28° Ⅲ 05′15	1.35833 AU	morning set	7993 May 28 19:16	2° ∏ 44'14	
minimum elong 7992 Jun 25 10.55 79823516 7982452 7992410 799		7992 Jun 20 13:55	0 \circ \odot		max. Earth dist.	7993 Jun 01 11:20	9° Ⅱ 13'06	1.37936 AU
minimum elong 7992 Jun 25 10.55 79823516 7982452 7992410 799								
Seconde 7992 Jun 29 07:12 77*22472 32 5 2 5 2 4 1 1	superior conj	7992 Jun 25 08:37	9° 5 23'45	-0°38'42		7993 Jun 08 13:33	22° Ⅱ 23'40	-1°10'18
Per p	minimum elong	7992 Jun 25 10:55	9° © 35'16	0°38'25	minimum elong	7993 Jun 08 17:51	22° Ⅱ 44'16	1°09'44
cvening max el 7992 Jul 05 11.04 0°Ω cvening rise 7993 Jun 17 08.43 9°23942 cvening max el 7993 Jul 21 03.22 24°QSV48 20°05′29 cvening max el 7993 Jul 21 13.16 0°Ω retrograde 7992 Aug 31 16.09 0°00°22 crening set 7993 Jul 12 18.26 10°QL5700	asc. node	7992 Jun 29 07:12	17° © 24'26			7993 Jun 12 11:29	0	
Pop	evening rise	7992 Jul 03 08:10			asc. node	7993 Jun 16 04:14		
Post		7992 Jul 05 11:04			evening rise	7993 Jun 17 08:43		
Petrograde 7992 Jul 31 1 6.09 0°m02'22 retrograde 7993 Jul 1 2 18:26 10°Q5700 revening set 7992 Jul 0 1 215:34 10°Q45'27 retrograde 7993 Jul 1 2 1 61:20 7993 Jul 2 1 67:20 7993 Jul 2 1 61:20 7993 Jul 2 1 51:20	evening max el			20°05'29				
evening set 7992 Aug 01 14:51 30°R\$ evening set 7993 Jul 14 16:38 10°R\$45°27 evening set 7992 Aug 02 13:54 29°R\$52°5 desc. node 7993 Jul 21 01:20 7°R\$33°4 functior conj 7992 Aug 11 15:24 25°R\$403 -2°3308 minimum elong 7993 Jul 23 01:45 6°R\$32°24 -03:652°5 AU minimum elong 7992 Aug 11 16:25 26°R\$403 -2°3308 minimum elong 7993 Jul 23 01:40 6°R\$35°07 0°3622 minimum elong 7992 Aug 11 01:25 26°R\$403 -2°3308 minimum elong 7993 Jul 25 23:12 4°R\$43'19 0.56275 AU minimum elong 7992 Aug 13 09:14 24°R\$13'10 0.55039 AU morning rise 7993 Jul 25 23:12 4°R\$43'19 0.56275 AU morning rise 7992 Aug 20 01:30 21°R\$40'06 direct 7993 Aug 05 09:49 0°R\$39'10 14:30 morning max el 7992 Sep 07 01:31 21°R\$43'93 24°0445 morning max el 7992 Sep 09 09:09 0°P\$ morning set 7993 Sep 12 03:43 13°P\$1735 morning set 7992 Sep 28 10:08 0°P\$ 0°P\$ 0°P\$ 0°P\$ 0°P\$ 0°P\$ 0°P\$ 0°P\$					•			19°05'40
Cevening set 7992 Aug 02 13:54 29° £32575 desc. node 7993 Jul 21 01:20 7° £35704 desc. node 7992 Aug 03 04:18 29° £4671 ninferior conj 7992 Aug 11 18:24 28° £45403 22° 33708 minimum elong 7993 Jul 23 01:10 6° £43570 036222 minimum elong 7992 Aug 11 08:25 26° £0429 2°3042 minimum elong 7993 Jul 23 01:10 6° £43570 036222 minimum elong 7992 Aug 13 09:14 24° £25140 0.55039 AU morning rise 7993 Jul 31 04:38 1°£44310 7° £5574 direct 7992 Aug 20 01:30 21° £40206 morning max 7993 Aug 50 90.90 90° £4753 27° £43938 24° 04:45 morning max 7992 Sep 07 01:31 27° £23938 24° 04:45 morning max 7993 Sep 10 03:43 13° £1751 37° £1751	retrograde				•			
desc. node 7992 Aug 03 04:18 29° Ω46:10 inferior conj 7993 Jul 23 01:45 6° Ω3:224 -0°3652 inferior conj 7992 Aug 11 10:252 25° Ω54203 2°3308 minimum clong 7992 Aug 11 08:25 26° Ω6/429 2°3042 min. Earth dist. 7993 Jul 25 02:11 4° Ω43:419 0.56275 AU morning rise 7992 Aug 10 08:25 20° Ω5833 morning max el 7993 Aug 10 9:40 0° Ω5275 AU morning max el 7992 Aug 24 10:26 20° Ω5833 20° 06° 06° 06° 07 00° 06° 07 07 00° 07 07 07 07 07 07 07 07 07 07 07 07 07	_	-			•			
minimum elong 7992 Aug 11 15.24 25°Ω5403 2°3308 minimum elong 7993 Jul 23 30.10 6°Ω3507 0°3622 minimum elong 7992 Aug 10 108.25 26°Ω6429 2°3042 minimum elong 7993 Jul 23 3212 4°Ω3410 0.56275 AU morning rise 7992 Aug 10 0.130 24°Ω4006 direct 7993 Aug 05 0.949 0°Ω3947 0°263947	-	-						
minimum elong		-			,			
min. Earth dist. 7992 Aug 13 09:14 24°£51'40 0.55039 AU morning rise 7993 Jul 31 04:38 1°£43'10 direct 7993 Aug 05 09:49 0°£30'47 10 direct 7992 Aug 19 14:36 7°£55'55 25°44'53 morning max el 7992 Sep 07 01:31 27°£39'38 24°04'45	,	-						
moming rise 7992 Aug 20 01:30 21°Ω40'06 direct 7993 Aug 05 09:49 0°Ω39'47 direct 7992 Aug 24 10:26 20°Ω45'83'2 25°44'53 moming max el 7992 Aug 24 10:26 22°64'80'8 moming max el 7993 Aug 19 14:36 7°Ω455'45 25°44'53 moming max el 7992 Sep 26 10:31 27°Ω35'93 24°04'45 moming set 7993 Sep 12 03:43 13°mt 735 sasc. node 7992 Sep 25 06:45 23°mt 49'59 moming set 7993 Sep 12 03:43 13°mt 735 moming set 7993 Sep 20 01:02 0°Ω moming set 7993 Sep 20 01:03 0°Ω	U	-						0.56275 AU
direct 7992 Aug 24 10:26 20° \$\(\alpha\) 5832 morning max el 7993 Aug 19 14:36 7° \$\(\alpha\) 5545 25° 44'53 morning max el 7992 Sep 07 01:31 7° \$\(\alpha\) 5976 3976		-		0.55039 AU	•			
morning max el 7992 Sep 07 01:31 27° Ω39'38 24°04'45 asc. node 7993 Sep 0 4 23:55 0° №		Č				=		25044152
asc. node 7992 Sep 25 06.45 23° M94°59 morning set 7993 Sep 16 04.06 21° M35′51 7992 Sep 28 10.08 0° M 7992 Sep 28 10.08 0° M 7993 Sep 16 04.06 21° M35′51 7992 Sep 28 10.08 0° M 7992 Sep 28 10.08 0° M 7993 Sep 16 04.06 21° M35′51 7992 Sep 28 10.08 0° M 7992 Sep 28 10.08 0° M 7993 Sep 20 01.02 0° M 7993 Sep 20 01.03 0° M 7993 Sep 20 01.03 0° M 7992 Sep 20 01.03 0° M 7992 Sep 20 01.03 0° M 7993 Sep 20 01.03 0° M 7993 Sep 20 01.03 0° M 7992 Sep 20 01.09 0° M 7993 Sep 20 01.03 0° M 7992 Sep 20 01.09 0° M 7993 Sep 20 01.03 0° M 7993 Sep 20 01.		U		24004145	morning max el	=		25°44'53
morning set	morning max ei	•		24*04*45	4-	•		
moming set 7992 Sep 28 10:08 0°Φ 7992 Oct 10 16:47 6°Φ 48'48 8 8 8 8 9 9 9 9 9	aga mada	-				•	-	
morning set 7992 Oct	asc. Houe	-			morning set	-	-	
superior conj	morning set	1				7993 Sep 20 01.02	0 ==	
## Superior conj	morning set	7992 Oct 01 10.47	0 ==4040		superior coni	7993 Sep. 23 01:13	6° ₽ 38'20	1°30'52
minimum elong	superior coni	7992 Oct 08 14:39	21° Ω 48'12	1°39'08		•		
max. Earth dist. 7992 Oct 10 19:43 26° \$\times 34'43 1.32942 AU evening rise 7993 Sep 30 01:53 21° \$\times 48'17 \] evening rise 7992 Oct 10 10:198 7° \$\times 28'48 \] evening rise 7992 Oct 28 06:46 0° \$\times 7\$ \$\times 28'48 \] desc. node 7993 Oct 22 06:47 0° \$\times 7\$ desc. node 7992 Oct 30 03:12 3° \$\times 01'22 \] evening max el 7992 Nov 18 18:19 28° \$\times 37'34 \] 7992 Nov 20 06:25 0° \$\times 7\$ evening max el 7993 Nov 14 22:49 18° \$\times 36'10 \] retrograde 7992 Dec 12 09:53 5° \$\times 56'16 \] evening set 7992 Dec 13 04:31 0° \$\times 05'02 0.63806 AU minimum elong 7993 Nov 28 23:11 10° \$\times 27'194 \] minimum elong 7992 Dec 15 18:12 27° \$\times 26'46'16 20' \$\times 10' \$\times 11' \$\times 22' \$\times 11' \$\times 21' \$\times 11' \$\times 21' \$\times 11' \$\times 21' \$\times 11' \$\times					_	•		
Pose conding rise Pos	-							1.52070710
evening rise 7992 Oct 16 01:08 7° 11.28'48 desc. node 7993 Oct 17 00:16 22° 11.25'26 7992 Oct 28 06:46 0° 🛪 7992 Oct 28 06:46 0° 🛪 7993 Oct 22 06:47 0° 🛪 7993 Oct 22 06:47 0° 🛪 27° 21'36 evening max el 7992 Nov 18 18:19 28° 🛪 37'34 27° 27'25 retrograde 7993 Nov 01 03:07 11° $\frac{1}{2}$ 22' 49 27° 21'36 evening max el 7992 Nov 20 06:25 0° $\frac{1}{2}$ evening set 7993 Nov 14 22:49 18° $\frac{1}{2}$ 36' 10 10° $\frac{1}{2}$ 21'36 evening set 7992 Dec 02 09:53 5° $\frac{1}{2}$ 50' $\frac{1}{$	man. Barur diot.			1.529 .2110	evening rise	-		
Tops: Top	evening rise				desc. node			
desc. node 7992 Oct 30 03:12 3° x01'24 evening max el 7993 Nov 01 03:07 11° x2'249 27°21'36 evening max el 7992 Nov 18 18:19 28° x3'7'34 27°27'25 retrograde 7993 Nov 14 22:49 18° x3'61'0 evening set 7992 Nov 20 06:25 0° S evening set 7993 Nov 22 01:18 16° x1'5:36 retrograde evening set 7992 Dec 02 09:53 5° S56'16 min. Earth dist. 7993 Nov 25 17:28 13° x2'4'16 0.61906 AU evening set 7992 Dec 09 10:19 3° S2'30'2 inferior conj 7993 Nov 28 17:01 10° x4'1'24 -3° 18'23 min. Earth dist. 7992 Dec 13 04:31 0° S0'5'02 0.63806 AU minimum elong 7993 Nov 28 23:11 10° x2'7'19 3° 16'07 7992 Dec 13 06:32 30° xx morning rise 7993 Dec 05 23:11 5° x3'9'53 inferior conj 7992 Dec 15 18:12 27° x2'6'47 -2° 09'03 direct 7993 Dec 08 05:24 5° x1'7'44 minimum elong 7992 Dec 15 22:13 27° x1'6'27 2° 07'17 asc. node 7993 Dec 09 03:11 5° x2'1'25 morning rise 7992 Dec 22 11:52 22° x1'6'51 morning max el 7993 Dec 29 00:02 0° S direct 7993 Dec 29 00:02 0°	<i>8</i> 21							
evening max el 7992 Nov 18 18:19 28° ₹37'34 27°27'25 retrograde 7993 Nov 14 22:49 18° ₹36'10 evening set 7992 Nov 20 06:25 0° ♂ evening set 7993 Nov 22 01:18 16° ₹15'36 retrograde 7992 Dec 02 09:53 5° ♂56'16 min. Earth dist. 7993 Nov 25 17:28 13° ₹24'16 0.61906 AU evening set 7992 Dec 09 10:19 3° ♂23'02 inferior conj 7993 Nov 28 17:01 10° ₹41'24 -3°18'23 min. Earth dist. 7992 Dec 13 04:31 0° ♂05'02 0.63806 AU minimum elong 7993 Nov 28 23:11 10° ₹27'19 3°16'07 7992 Dec 13 06:32 30° ₹ morning rise 7992 Dec 15 18:12 27° ₹26'47 -2°09'03 direct 7993 Dec 05 23:11 5° ₹39'53 inferior conj 7992 Dec 15 18:12 27° ₹16'27 2°07'17 asc. node 7993 Dec 09 03:11 5° ₹21'25 morning rise 7992 Dec 22 11:52 22° ₹06'51 morning max el 7992 Dec 24 22:13 21° ₹37'38 morning set 7992 Dec 24 22:13 21° ₹37'38 morning set 7992 Dec 31 10:41 25° ₹01'01 17° 49'38 superior conj 7994 Jan 10 19:52 22° ♂42'01 0°15'46 morning set 7993 Jan 17 01:23 20° ♂18'52 minimum elong 7994 Jan 10 19:30 22° ♂42'03 0°15'40 5°15'40 5°15'40 5°15'40 5°15'40'25' 5°15'	desc. node		3° ₹ 01'24		evening max el		11° ∡ ¹22'49	27°21'36
retrograde 7992 Dec 02 09:53 5°\bar{c}56'16 min. Earth dist. 7993 Nov 25 17:28 13°\bar{c}24'16 0.61906 AU evening set 7992 Dec 09 10:19 3°\bar{c}23'02 inferior conj 7993 Nov 28 17:01 10°\bar{c}4'124 -3°18'23 min. Earth dist. 7992 Dec 13 04:31 0°\bar{c}0505'02 0.63806 AU minimum elong 7993 Nov 28 23:11 10°\bar{c}27'19 3°16'07 7992 Dec 13 06:32 30°\bar{c}27 2009'03 direct 7993 Dec 05 23:11 5°\bar{c}3'39'53 inferior conj 7992 Dec 15 18:12 27°\bar{c}26'47 -2°09'03 direct 7993 Dec 08 05:24 5°\bar{c}17'44 minimum elong 7992 Dec 15 22:13 27°\bar{c}16'27 2°07'17 asc. node 7993 Dec 09 03:11 5°\bar{c}21'25 morning rise 7992 Dec 22 11:52 22°\bar{c}16'27 2°07'17 asc. node 7993 Dec 15 03:01 8°\bar{c}47'38 17°51'01 asc. node 7992 Dec 22 11:52 22°\bar{c}1243 morning max el 7993 Dec 29 00:02 0°\bar{c} direct 7993 Dec 29 00:02 0°\bar{c} morning max el 7992 Dec 31 10:41 25°\bar{c}10'10 17°49'38 morning set 7993 Jan 04 13:50 0°\bar{c} superior conj 7994 Jan 10 19:52 22°\bar{c}42'01 0°15'46 minimum elong 7993 Jan 17 01:23 20°\bar{c}18'52 minimum elong 7994 Jan 10 19:30 22°\bar{c}40'23 Ucc 24'0'23 Ucc	evening max el	7992 Nov 18 18:19	28° ҂ 37'34	27°27'25	retrograde		18° ∡ ³36′10	
evening set 7992 Dec 09 10:19 3°る23'02 inferior conj 7993 Nov 28 17:01 10°¾41'24 -3°18'23 min. Earth dist. 7992 Dec 13 04:31 0°♂05'02 0.63806 AU minimum elong 7993 Nov 28 23:11 10°¾27'19 3°16'07 7992 Dec 13 06:32 30°8¾ morning rise 7993 Dec 05 23:11 5°¾39'53 inferior conj 7992 Dec 15 18:12 27°¾26'47 -2°09'03 direct 7993 Dec 08 05:24 5°¾17'44 minimum elong 7992 Dec 15 22:13 27°¾16'27 2°07'17 asc. node 7993 Dec 09 03:11 5°¾21'25 morning rise 7992 Dec 22 11:52 22°¾06'51 morning max el 7993 Dec 15 03:01 8°¾4'7'38 17°51'01 asc. node 7992 Dec 24 22:13 21°¾37'38 morning set 7992 Dec 24 22:13 21°¾37'38 morning set 7992 Dec 31 10:41 25°¾01'01 17°49'38 superior conj 7994 Jan 10 19:52 22°♂42'01 0°15'46 morning set 7993 Jan 04 13:50 0° superior conj 7994 Jan 10 19:30 22°♂48'08 0°15'40 7993 Jan 22 17:57 0°≈ behind sun begin 7994 Jan 10 19:30 22°♂40'23	C		0°ರ		•	7993 Nov 22 01:18	16° ₹ 15'36	
min. Earth dist. 7992 Dec 13 04:31 0°る05'02 0.63806 AU minimum elong 7993 Nov 28 23:11 10°♂27'19 3°16'07 7992 Dec 13 06:32 30°Rズ morning rise 7993 Dec 05 23:11 5°♂39'53 inferior conj 7992 Dec 15 18:12 27°♂26'47 -2°09'03 direct 7993 Dec 08 05:24 5°♂17'44 minimum elong 7992 Dec 15 22:13 27°♂16'27 2°07'17 asc. node 7993 Dec 09 03:11 5°♂21'25 morning rise 7992 Dec 22 11:52 22°♂06'51 morning max el 7993 Dec 15 03:01 8°♂47'38 17°51'01 asc. node 7992 Dec 22 06:11 22°♂12'43 morning set 7992 Dec 24 22:13 21°♂37'38 morning set 7993 Dec 30 21:40 3°♂25'03 morning max el 7993 Jan 04 13:50 0°♂ superior conj 7994 Jan 10 19:52 22°♂42'01 0°15'46 morning set 7993 Jan 17 01:23 20°♂18'52 minimum elong 7994 Jan 10 19:30 22°♂40'23 10°15'40 behind sun begin 7994 Jan 10 19:30 22°♂40'23	retrograde	7992 Dec 02 09:53	5° ರ 56'16		min. Earth dist.	7993 Nov 25 17:28	13° ₹ 24'16	0.61906 AU
Topic Top	evening set	7992 Dec 09 10:19	3° පි 23'02		inferior conj	7993 Nov 28 17:01	10° ∡ ′41′24	-3°18'23
inferior conj 7992 Dec 15 18:12 27° ₹26'47 -2°09'03 direct 7993 Dec 08 05:24 5° ₹17'44 minimum elong 7992 Dec 15 22:13 27° ₹16'27 2°07'17 asc. node 7993 Dec 09 03:11 5° ₹21'25 morning rise 7992 Dec 22 11:52 22° ₹06'51 morning max el 7993 Dec 15 03:01 8° ₹47'38 17°51'01 asc. node 7992 Dec 22 06:11 22° ₹12'43 morning set 7993 Dec 29 00:02 0° ₹ direct 7992 Dec 24 22:13 21° ₹37'38 morning set 7993 Dec 30 21:40 3° ₹25'03 morning max el 7993 Jan 04 13:50 0° ₹ superior conj 7994 Jan 10 19:52 22° ₹42'01 0°15'46 minimum elong 7994 Jan 10 21:18 22° ₹48'08 0°15'40 7993 Jan 22 17:57 0° ≈ behind sun begin 7994 Jan 10 19:30 22° ₹40'23	min. Earth dist.	7992 Dec 13 04:31	0° ට 05'02	0.63806 AU	minimum elong	7993 Nov 28 23:11	10° ∡ ¹27'19	3°16'07
minimum elong 7992 Dec 15 22:13 27°え16'27 2°07'17 asc. node 7993 Dec 09 03:11 5°え21'25 morning rise 7992 Dec 22 11:52 22°え06'51 morning max el 7993 Dec 15 03:01 8°え47'38 17°51'01 asc. node 7992 Dec 22 06:11 22°え12'43 morning set 7992 Dec 24 22:13 21°え37'38 morning max el 7993 Dec 30 21:40 3°云25'03 morning max el 7992 Dec 31 10:41 25°え01'01 17°49'38 superior conj 7994 Jan 10 19:52 22°石42'01 0°15'46 morning set 7993 Jan 17 01:23 20°♂18'52 minimum elong 7994 Jan 10 21:18 22°♂48'08 0°15'40 behind sun begin 7994 Jan 10 19:30 22°♂40'23		7992 Dec 13 06:32	30°₽ ⋌ 7		morning rise	7993 Dec 05 23:11	5° ∡ ³39'53	
morning rise 7992 Dec 22 11:52 22°₹06'51 morning max el 7993 Dec 15 03:01 8°₹47'38 17°51'01 asc. node 7992 Dec 22 06:11 22°₹12'43 morning set 7993 Dec 29 00:02 0°♂ direct 7992 Dec 24 22:13 21°₹37'38 morning set 7992 Dec 31 10:41 25°₹01'01 17°49'38 superior conj 7994 Jan 10 19:52 22°♂42'01 0°15'46 morning set 7993 Jan 17 01:23 20°♂ 8 superior conj 7994 Jan 10 19:30 22°♂40'23 10°15'46 behind sun begin 7994 Jan 10 19:30 22°♂40'23 10°15'46	inferior conj	7992 Dec 15 18:12	27° ∡ ¹26'47	-2°09'03	direct	7993 Dec 08 05:24	5° ∡ 17'44	
asc. node 7992 Dec 22 06:11 22° オ12'43 7793 Dec 29 00:02 0° る	minimum elong	7992 Dec 15 22:13	27° ∡ 16′27	2°07'17	asc. node	7993 Dec 09 03:11	5° ∡ 121′25	
direct 7992 Dec 24 22:13 21° **37'38 morning set 7993 Dec 30 21:40 3° *325'03 morning max el 7992 Dec 31 10:41 25° **01'01 17° 49'38 7993 Jan 04 13:50 0° *3 superior conj 7994 Jan 10 19:52 22° *342'01 0° 15'46 morning set 7993 Jan 17 01:23 20° *318'52 minimum elong 7994 Jan 10 21:18 22° *348'08 0° 15'40 7993 Jan 22 17:57 0° *≈ behind sun begin 7994 Jan 10 19:30 22° *340'23 50° 15'40 15	morning rise	7992 Dec 22 11:52	22° ∡ ¹06'51		morning max el		8° ҂ 47'38	17°51'01
morning max el 7992 Dec 31 10:41 25° 水01'01 17°49'38 7993 Jan 04 13:50 0°る superior conj 7994 Jan 10 19:52 22° 342'01 0°15'46 morning set 7993 Jan 17 01:23 20° 318'52 minimum elong 7994 Jan 10 21:18 22° 348'08 0°15'40 7993 Jan 22 17:57 0°≈ behind sun begin 7994 Jan 10 19:30 22° 340'23	asc. node	7992 Dec 22 06:11	22° х 12'43			7993 Dec 29 00:02	ರ°0	
7993 Jan 04 13:50 0°る superior conj 7994 Jan 10 19:52 22°る42'01 0°15'46 morning set 7993 Jan 17 01:23 20°る18'52 minimum elong 7994 Jan 10 21:18 22°る48'08 0°15'40 behind sun begin 7994 Jan 10 19:30 22°る40'23	direct	7992 Dec 24 22:13	21° х 37'38		morning set	7993 Dec 30 21:40	3° る 25'03	
morning set 7993 Jan 17 01:23 20°♂18'52 minimum elong 7994 Jan 10 21:18 22°♂48'08 0°15'40 behind sun begin 7994 Jan 10 19:30 22°♂40'23	morning max el	7992 Dec 31 10:41		17°49'38				
7993 Jan 22 17:57 0°≈ behind sun begin 7994 Jan 10 19:30 22°♂40'23								
	morning set							0°15'40
desc. node 7993 Jan 26 02:27 5°≈36'38 behind sun end 7994 Jan 10 23:07 22°♂55'53					=			
	desc. node	7993 Jan 26 02:27	5°≈36'38		behind sun end	7994 Jan 10 23:07	22° ℃ 55'53	

44-	7004 I 12 22:27	200720152			7004 D 22 21-05	40750154	0050115
desc. node	7994 Jan 12 23:27 7994 Jan 15 03:51	26°る20'53 0°≈		superior conj minimum elong	7994 Dec 23 21:05 7994 Dec 24 00:23	4°る52'54 5°る07'48	0°50'15 0°49'55
may Earth dist	7994 Jan 13 03:31 7994 Jan 18 02:01	0°≈ 4°≈48'27	1.43235 AU	desc. node		5° ろ 07'48	0-49-55
max. Earth dist.	7994 Jan 18 02:01 7994 Jan 25 02:49	4 ≈48 27 16°≈01'21	1.43233 AU	max. Earth dist.	7994 Dec 30 20:26 7994 Dec 31 12:26	17 300 10 18° る 13'59	1.41348 AU
evening rise		10 ≈ 0121 0° ∺				16 31339 26° 3 23'08	1.41346 AU
avanina may al	7994 Feb 03 06:48 7994 Feb 25 15:21	0 X 29° ¥ 53'46	21944/02	evening rise	7995 Jan 05 10:35 7995 Jan 07 16:31	20 3 23 08 0° ≈	
evening max el		29 χ3340 0° Υ	21 44 03		7995 Jan 07 16.31 7995 Jan 28 00:49	0 ≈ 0°¥	
rotro ara do	7994 Feb 25 17:49 7994 Mar 06 18:29	5° Υ 18'14		avanina may al	7995 Jan 28 00:49 7995 Feb 08 07:28	0 X 13° ¥ 35'21	23°02'58
retrograde		5° Υ 17'42		evening max el		19° H 40'45	23 02 38
asc. node	7994 Mar 07 02:15			retrograde	7995 Feb 18 14:03		
evening set	7994 Mar 11 04:30	3° Y 31'34		asc. node	7995 Feb 21 23:18	18°) 43′32	
	7994 Mar 14 11:01	30° ₹ ₩	2040112	evening set	7995 Feb 23 11:30	17°) 39'11	2005152
inferior conj	7994 Mar 16 12:03	27°) 13'31	2°40'13	inferior conj	7995 Feb 28 20:41	11°) 13'49	2°05'52
minimum elong	7994 Mar 16 09:51	27°) (21'11	2°39'41	minimum elong	7995 Feb 28 18:27	11° H 21'31	2°05'12
min. Earth dist.	7994 Mar 16 14:40	27°) € 04'26	0.68315 AU	min. Earth dist.	7995 Feb 28 11:23	11°) (45'56	0.68368 AU
morning rise	7994 Mar 21 15:04	21° H 01'31		morning rise	7995 Mar 06 01:20	5° ₩ 06'36	
direct	7994 Mar 26 14:43	18° ¥ 52'27	22045122	direct	7995 Mar 10 10:57	3°) 19'48	21020124
morning max el	7994 Apr 05 12:18	24°) 43'21	22°45'32	morning max el	7995 Mar 19 03:04	8° ₩ 20'53	21°20'34
	7994 Apr 10 05:51	0° Υ		desc. node	7995 Mar 28 20:02	20°) €09'00	
desc. node	7994 Apr 10 23:03	0° Y 52′26			7995 Apr 04 19:16	0° Υ	
	7994 May 01 11:48	0° 8		morning set	7995 Apr 19 11:45	22° Y 18'46	
morning set	7994 May 09 17:15	13° 8 09'08			7995 Apr 24 07:04	0°8	
max. Earth dist.	7994 May 14 08:07	20° 8 54'18	1.40181 AU	max. Earth dist.	7995 Apr 26 09:53	3° 8 27'18	1.42287 AU
	7994 May 19 13:10	$\Pi^{\circ}0$					
		_		superior conj	7995 May 03 19:03	15° 8 52'04	
superior conj	7994 May 22 02:35	4° Ⅱ 36'28		minimum elong	7995 May 03 23:59	16° 8 13'19	2°01'41
minimum elong	7994 May 22 08:15	5° Ⅱ 02'16	1°38'58		7995 May 11 19:20	$\Pi^{\circ}0$	
evening rise	7994 May 31 23:58	23° Ⅱ 07′20		evening rise	7995 May 15 02:02	5° Ⅱ 55'47	
asc. node	7994 Jun 03 01:15	27° Ⅱ 00'30		asc. node	7995 May 20 22:17	16° Ⅱ 24'49	
	7994 Jun 04 15:38	0 \circ \odot			7995 May 29 19:40	0 \circ \odot	
evening max el	7994 Jun 17 01:49	18° © 56'46	18°26'37	evening max el	7995 May 31 12:19	1° © 50'16	18°07'40
retrograde	7994 Jun 24 15:42	22° 5 43'38		retrograde	7995 Jun 07 06:42	5° © 16'36	
evening set	7994 Jun 26 20:10	22° 5 25'39		evening set	7995 Jun 09 18:40	4°5548'48	
inferior conj	7994 Jul 04 09:24	17° © 52'52	1°01'58	inferior conj	7995 Jun 16 13:58	29° Ⅱ 55'51	2°12'50
minimum elong	7994 Jul 04 11:30	17°5548'40	1°01'06	minimum elong	7995 Jun 16 17:03	29° Ⅱ 48'37	2°11'50
desc. node	7994 Jul 07 22:24	15° © 04'05			7995 Jun 16 12:11	30° Ŗ Ⅱ	
min. Earth dist.	7994 Jul 07 18:23	15° © 11'41	0.58163 AU	min. Earth dist.	7995 Jun 19 20:51	26° Ⅱ 53'18	0.60374 AU
morning rise	7994 Jul 11 23:26	12° © 27'44		morning rise	7995 Jun 23 12:45	24° Ⅱ 04'04	
direct	7994 Jul 17 23:21	10° © 54'29		desc. node	7995 Jun 24 19:26	23° Ⅱ 20'06	
morning max el	7994 Aug 01 08:48	18° © 35'32	27°02'59	direct	7995 Jun 30 01:52	21° Ⅱ 59'00	
	7994 Aug 10 23:02	0 \circ Ω			7995 Jul 14 11:30	0ං ම	
	7994 Aug 28 12:57	0° m)		morning max el	7995 Jul 14 09:47	29° Ⅱ 55'46	27°47'08
asc. node	7994 Aug 30 00:41	3°№02'36			7995 Aug 04 23:49	$0 {\circ} \Omega$	
morning set	7994 Aug 31 13:21	6° Mp 14′16		morning set	7995 Aug 15 18:48	20° Ω 39'00	
				asc. node	7995 Aug 16 21:39	22° Ω 59'32	
superior conj	7994 Sep 07 12:59	21°M)28'46	1°17'19		7995 Aug 20 04:04	0° m	
minimum elong	7994 Sep 07 10:46	21°M)16'26	1°16'59	max. Earth dist.	7995 Aug 21 21:54	3° ™ 49'00	1.31764 AU
max. Earth dist.	7994 Sep 07 12:08	21° m 24'03	1.31704 AU				
	7994 Sep 11 09:33	0∘ ऌ		superior conj	7995 Aug 23 00:12	6° Mp 14′06	0°58'54
evening rise	7994 Sep 14 08:20	6° £ 21'39		minimum elong	7995 Aug 22 22:03	6° Mp 02'11	0°58'28
	7994 Sep 26 16:51	0° M		evening rise	7995 Aug 29 18:19	21° m 02'44	
desc. node	7994 Oct 03 21:19	11° ML 06'18			7995 Sep 03 01:48	0∘ ত	
evening max el	7994 Oct 14 05:40	23°M21'53	26°41'58	desc. node	7995 Sep 20 18:23	28° ≙ 47'08	
	7994 Oct 24 15:55	0° ∡ ¹			7995 Sep 21 18:42	0°M	
retrograde	7994 Oct 28 03:30	0° ≯ 29'55		evening max el	7995 Sep 26 00:19	4°M30'25	25°30'45
	7994 Oct 31 13:42	30°RM₊		retrograde	7995 Oct 09 22:27	11°M32'56	
evening set	7994 Nov 03 23:00	28°M32'55		evening set	7995 Oct 15 22:36	10°M09'16	
min. Earth dist.	7994 Nov 07 19:31	25°M57'00	0.59833 AU	min. Earth dist.	7995 Oct 20 12:26	7° M 31'27	0.57786 AU
inferior conj	7994 Nov 11 00:24	23°M23'58	-4°23'56	inferior conj	7995 Oct 23 13:07	5°M25'42	-5°14'39
minimum elong	7994 Nov 11 07:37	23°ML09'34	4°21'58	minimum elong	7995 Oct 23 18:30	5°M16'21	5°13'50
morning rise	7994 Nov 18 18:36	18°ML44'10		morning rise	7995 Oct 31 16:44	1°ML08'44	
direct	7994 Nov 21 00:05	18°M25'54		direct	7995 Nov 03 01:54	0°M51'23	
asc. node	7994 Nov 26 00:11	20°M03'21		morning max el	7995 Nov 11 19:08	5°M02'04	18°53'05
morning max el	7994 Nov 28 15:03	22°M11'17	18°11'38	asc. node	7995 Nov 12 21:12	6°ML08'11	
	7994 Dec 04 16:34	0° ∡ ¹			7995 Nov 27 12:31	0° ∡ ¹	
morning set	7994 Dec 14 08:55	17° ∡ 12'34		morning set	7995 Nov 28 06:31	1° ≯ 28′10	
	7994 Dec 21 04:51	0°₹					
				superior conj	7995 Dec 06 17:46	17° ₹ 59'10	1°15'29

minimum elong	7995 Dec 06 21:02	18° ⋌ 14'41	1°15'15	minimum elong	7996 Nov 19 07:15	1° ∡ 758'18	1°31'43
_	7995 Dec 13 05:58	0°ප		max. Earth dist.	7996 Nov 25 00:30	13° ₹ 04'14	1.37087 AU
max. Earth dist.	7995 Dec 13 18:30	0°る55'46	1.39214 AU	evening rise	7996 Nov 28 19:03	20° ₹ '00'54	
evening rise	7995 Dec 17 16:12	7° る 43'37		desc. node	7996 Dec 03 14:26	28° ₹ 25'15	
desc. node	7995 Dec 17 17:25	7° る 48'48			7996 Dec 04 12:53	0°ප	
	7995 Dec 31 15:54	0°≈			7996 Dec 24 17:22	0° ≈	
evening max el	7996 Jan 21 21:08	27° ≈ 20'16	24°22'46	evening max el	7997 Jan 03 10:18	11° ≈ 08′03	25°36'26
	7996 Jan 24 18:54	0°) €		retrograde	7997 Jan 15 17:30	18° ≈ 11'33	
retrograde	7996 Feb 02 06:04	4°){ 00'06		evening set	7997 Jan 21 16:07	15° ≈ 44'42	
evening set	7996 Feb 07 15:54	1°)(44'47		asc. node	7997 Jan 25 17:27	11° ≈ 22'54	
asc. node	7996 Feb 08 20:22	0°) €37'53		min. Earth dist.	7997 Jan 26 00:40	11° ≈ 00′13	0.67310 AU
	7996 Feb 09 10:35	30°R≈		inferior conj	7997 Jan 27 08:39	9° ≈ 18′05	0°32'27
min. Earth dist.	7996 Feb 12 07:29	26° ≈ 25'44	0.68027 AU	minimum elong	7997 Jan 27 07:50	9° ≈ 20'41	0°32'14
inferior conj	7996 Feb 13 04:09	25°≈16'20	1°23'06	morning rise	7997 Feb 01 23:59	3° ≈ 25'21	
minimum elong	7996 Feb 13 02:22	25° ≈ 22'18	1°22'31	direct	7997 Feb 05 08:34	2° ≈ 20'34	
morning rise	7996 Feb 18 12:57	19° ≈ 15'22		morning max el	7997 Feb 12 06:52	6°≈09'22	19°06'58
direct	7996 Feb 22 09:22	17°≈50'36		greatest brilliancy	7997 Feb 25 19:51	24° ≈ 20'24	-0.7m
morning max el	7996 Mar 01 01:01	22°≈09'46	20°06'30	desc. node	7997 Mar 01 13:57	0°) €04'10	
	7996 Mar 07 15:27	0° ∀			7997 Mar 01 12:52	0°) €	
desc. node	7996 Mar 14 16:59	9° ¥ 55'33		morning set	7997 Mar 07 13:08	9°) 17'07	
morning set	7996 Mar 28 10:48	0° Υ 38'52			7997 Mar 20 20:00	0°Υ	
morning sec	7996 Mar 28 00:43	0°Υ		max. Earth dist.	7997 Mar 21 10:01	0° Υ 55'08	1.45112 AU
max. Earth dist.	7996 Apr 07 18:41	* .	1.43998 AU	max. Earth dist.	/// With 21 10.01	0 133 00	1.13112110
man. Darm dist.	/// To: 11	10 , 51 00	1.10//0110	superior conj	7997 Mar 24 03:57	5° Υ 15'08	-2°02'56
superior conj	7996 Apr 13 11:07	26° Y 02'45	-2°11'38	minimum elong	7997 Mar 23 21:26	4° Υ 49'21	2°02'37
minimum elong	7996 Apr 13 11:33	26°Υ°04'34		evening rise	7997 Apr 07 20:17	28° Y 54'48	
minimum crong	7996 Apr 15 20:44	0°8	2 11 12	evening rise	7997 Apr 08 12:11	0°8	
evening rise	7996 Apr 26 10:12	17° 8 53'58		asc. node	7997 Apr 23 16:24	23° 8 53'17	
evening rise	7996 May 03 11:40	0°Ⅱ		evening max el	7997 Apr 27 14:18	28° 8 32'39	18°26'41
asc. node	7996 May 06 19:20	5° Ⅱ 24'59		evening max er	7997 Apr 29 04:59	0°II	10 20 41
evening max el	7996 May 14 01:30	15° ∏ 04'50	18°07'57	retrograde	7997 May 04 01:09	2° I I02'02	
retrograde	7996 May 20 11:15	18° Ⅱ 25'42	10 07 37	evening set	7997 May 07 03:41	1° I 108'26	
evening set	7996 May 23 06:35	17° II 45'43		evening set	7997 May 07 03:41 7997 May 08 18:44	30°R 8	
inferior conj	7996 May 29 11:45		2°56'55	inferior conj	7997 May 12 22:41		3°19'05
minimum elong	7996 May 29 11:43 7996 May 29 14:10	12 H 33 38	2°56'20	minimum elong	7997 May 12 22:41 7997 May 12 23:47	25° 8 35'15	3°18'53
min. Earth dist.	7996 May 29 14.10 7996 Jun 01 07:51	9° П 34'01	0.62593 AU	min. Earth dist.	7997 May 15 04:03	23° 8 01'54	0.64576 AU
morning rise	7996 Jun 04 20:04	6° ∏ 26'04	0.02393 AU	morning rise	7997 May 18 19:01	19° 8 23'20	0.04370 AU
desc. node	7996 Jun 10 16:29	3° П 58'11		direct	7997 May 25 11:31	19 8 23 20	
direct	7996 Jun 11 14:38	3° П 55'30		desc. node	7997 May 28 13:32	10 8 3843	
morning max el	7996 Jun 25 16:15	11° I I58′06	27952!10	morning max el	7997 Jun 08 01:53	24° 8 36'16	27022125
morning max er	7996 Jul 09 22:52	0.22	27 33 10	morning max er	7997 Jun 12 22:53	0°II	21 23 23
	7996 Jul 27 09:25	0°Ω			7997 Juli 12 22:33 7997 Jul 03 09:14	0°9	
morning set	7996 Jul 27 09.23 7996 Jul 29 18:21	4° Ω 43'40		morning set	7997 Jul 03 09:14 7997 Jul 13 09:24	0 55 18°520'49	
asc. node	7996 Aug 02 18:39	13° Ω 03'18		max. Earth dist.	7997 Jul 18 01:37	27°9345'27	1.33294 AU
max. Earth dist.	7996 Aug 04 03:35		1.32287 AU	max. Earth dist.	7997 Jul 19 03:32	27 3 4327	1.33294 AU
max. Earth dist.	7990 Aug 04 03.33	13 663903	1.32287 AU	asc. node	7997 Jul 19 03:32 7997 Jul 20 15:38	3° Ω 09'35	
superior conj	7996 Aug 06 09:04	20° Ω 48'32	0°36'03	asc. node	7997 Jul 20 13.36	3 660933	
minimum elong	7996 Aug 06 07:30	20°Ω39'56		superior conj	7997 Jul 21 13:35	5° Ω 05'51	0°09'17
minimum crong	7996 Aug 10 13:59	0° m	0 33 37	minimum elong	7997 Jul 21 13:07	5° Ω 03'23	0°09'04
evening rise	7996 Aug 13 05:54	5° Mp 45'28		behind sun begin	7997 Jul 21 08:33	4°Ω39'09	0 0) 01
evening rise	7996 Aug 25 23:26	ე° ი		behind sun end	7997 Jul 21 17:41	5° Ω 27'39	
evening max el	7996 Sep 06 12:49	14° ≏ 58'21	23°57'46	evening rise	7997 Jul 28 17:11	20° Ω 23'54	
desc. node	7996 Sep 06 15:27	15° ≏ 04'42	23 37 40	evening rise	7997 Aug 02 09:25	0°m)	
retrograde	7996 Sep 20 05:15	21° ⊆ 49'41		evening max el	7997 Aug 19 01:41	25° Mp 12'27	220181/13
evening set	7996 Sep 24 21:35	21° ⊆ 4941 21° ⊆ 01'36		desc. node	7997 Aug 19 01:41 7997 Aug 24 12:33	29° m) 28'17	22 16 43
min. Earth dist.	7996 Sep 24 21:33 7996 Sep 30 23:25		0.56053 AU	desc. Houc	7997 Aug 24 12:33 7997 Aug 25 11:56	0° ت 29 اللا2017	
inferior conj	7996 Oct 03 05:37	16° ⊆ 40'54		retrograde	7997 Aug 31 23:34	0 — 1° Ω 38'06	
minimum elong	7996 Oct 03 05:01	16° ⊆ 40'34 16° ⊆ 41'49		evening set	7997 Sep 04 04:01	1° ⊆ 36'00	
morning rise	7996 Oct 03 03:01 7996 Oct 11 14:35	10 2 41 49 12° 2 43'38	3 33 43	evening set	7997 Sep 04 04.01 7997 Sep 07 20:42	1 ==15 45 30°RM)	
direct	7996 Oct 11 14:33 7996 Oct 14 08:38	12 = 43 38 12° £ 24'14		min. Earth dist.	7997 Sep 07 20:42 7997 Sep 12 07:50		0.54951 AU
morning max el	7996 Oct 14 08.38 7996 Oct 24 11:55	12 ≗ 24 14 17° ≗ 10'11	19°56'48	inferior conj	7997 Sep 12 07:30 7997 Sep 13 04:52	27° mp 12'17	
asc. node	7996 Oct 24 11.33 7996 Oct 29 18:13	23° £ 20'51	17 30 40	minimum elong	7997 Sep 13 04.32 7997 Sep 12 21:13	27° my 23'04	
asc. Hour	7996 Oct 29 18:13 7996 Nov 03 00:48	0°M		morning rise	7997 Sep 12 21:13 7997 Sep 21 16:07	23° Mp 24'16	2 00 21
morning sot		16°M02'49		direct	-		
morning set	7996 Nov 11 11:06 7996 Nov 18 07:37	16°1160249 0° √ 7		morning max el	7997 Sep 24 23:02 7997 Oct 06 15:40	23° Mp 00'00 28° Mp 29'12	2102212
	1770 INUV 10 U/.3/	υ χ .		morning max ei	7997 Oct 08 15:40 7997 Oct 08 04:20	0° ت 28°اال¢29°12	∠1 ∠∠ 1∠
superior conj	7996 Nov 19 05:00	1° ∡ 747'08	1021146	asc. node	7997 Oct 08 04:20 7997 Oct 16 15:14	11° £ 25'39	
superior collj	1770 INOV 17 US.UU	1 7.4/08	1 3140	asc. Hout	1991 Oct 10 13.14	11 == 23 39	

	7997 Oct 26 10:46	0° M .		morning max el	7998 Sep 18 08:50	9° m 06'13	23°03'41
morning set	7997 Oct 26 20:02	0°M48'08		_	7998 Oct 03 09:57	0∘ ⊽	
				asc. node	7998 Oct 03 12:14	0° Ω 10'20	
superior conj	7997 Nov 03 02:32	16°M03'55	1°40'02	morning set	7998 Oct 11 07:15	15° ≏ 38'21	
minimum elong	7997 Nov 03 03:26	16°M08'35	1°40'06		7998 Oct 17 23:38	0°M₊	
max. Earth dist.	7997 Nov 07 11:27	24°M58'34	1.35179 AU		7000 0 + 10 07 06	00 m 4010 2	1041116
	7997 Nov 10 00:52	0° ⊀ 7		superior conj	7998 Oct 18 07:06	0°M40'02	1°41'16
evening rise	7997 Nov 11 15:28	3° ₹ 04'37		minimum elong	7998 Oct 18 06:44	0°M37'59	1°41'20
desc. node	7997 Nov 20 11:28	18° メ 50'11 0°る		max. Earth dist.	7998 Oct 21 06:16	6°M57'23 16°M45'04	1.33636 AU
avanina may al	7997 Nov 27 11:11 7997 Dec 16 23:36	0°る 24° る 51'57	26°36'43	evening rise	7998 Oct 26 01:34	10°11L45'04 0° x 7	
evening max el	7997 Dec 16 23.36 7997 Dec 23 09:56	24 ⊘ 31 37	20 30 43	desc. node	7998 Nov 02 02:41 7998 Nov 07 08:30	8° ₹ ⁷ 57'54	
ratragrada	7997 Dec 23 09.36 7997 Dec 29 23:28	0 ≈ 2°≈08'09		desc. node	7998 Nov 07 08.30 7998 Nov 21 22:20	。x・3/34 0°る	
retrograde	7997 Dec 29 23:28 7998 Jan 04 20:36	2 ≈00 09 30°Rる		evening max el	7998 Nov 21 22:20 7998 Nov 29 12:23	8° る 22'18	27016122
evening set	7998 Jan 05 10:18	30 KO 29° ろ 33'28		retrograde	7998 Nov 29 12.23 7998 Dec 12 23:31	8 022 18 15° でる 42'23	27 10 22
min. Earth dist.	7998 Jan 09 12:32	29 3 33 28 25° る 23'51	0.66226 AU	evening set	7998 Dec 12 23:31 7998 Dec 19 20:17	13° る 4223	
inferior conj	7998 Jan 11 08:07	23° る 14'10		min. Earth dist.	7998 Dec 23 16:55	9° ප 30'11	0.64786 AU
minimum elong	7998 Jan 11 08:50	23°る12'04		inferior conj	7998 Dec 26 00:15	6° る 59'38	
asc. node	7998 Jan 11 08:30 7998 Jan 12 14:33	23 3 12 04 21° 3 44'57	0 23 07	minimum elong	7998 Dec 26 02:58		1°28'36
morning rise	7998 Jan 17 08:14	17°る32'06		asc. node	7998 Dec 30 11:37	0 ප 3213 2° ප 41'56	1 20 30
direct	7998 Jan 20 06:36	16° පි 44'07		morning rise	7999 Jan 01 11:06	1°る31'00	
morning max el	7998 Jan 26 19:15	20°₹14'41	18°23'36	direct	7999 Jan 04 01:10	0°る56'07	
morning max cr	7998 Feb 03 09:54	0°≈	10 23 30	morning max el	7999 Jan 10 11:37		17°57'03
morning set	7998 Feb 15 15:35	19°≈11'15		morning set	7999 Jan 27 23:32	0°≈32'53	17 37 03
desc. node	7998 Feb 16 10:54	20°≈28'16		morning set	7999 Jan 27 15:39	0°≈	
desc. node	7998 Feb 22 10:48	0° ∀		desc. node	7999 Feb 03 07:50	11° ≈ 03'12	
superior conj	7998 Mar 03 08:41	14° ∺ 01'10		superior conj	7999 Feb 10 20:37	23° ≈ 14′06	
minimum elong	7998 Mar 02 23:05	13° ∺ 23'35		minimum elong	7999 Feb 10 14:31	22° ≈ 49'46	0°51'33
max. Earth dist.	7998 Mar 04 05:18	15° ∺ 21'53	1.45505 AU	max. Earth dist.	7999 Feb 15 00:54	29° ≈ 51'25	1.45152 AU
	7998 Mar 13 13:38	0°Υ			7999 Feb 15 03:04	0° ∀	
evening rise	7998 Mar 19 06:58	8° Y 59'34		evening rise	7999 Feb 26 23:26	18° ¥ 25′08	
greatest brilliancy	7998 Mar 29 10:23	24° Y 53'59	-0.8m		7999 Mar 06 13:10	0° Υ	
	7998 Apr 01 18:42	0° 8		greatest brilliancy	7999 Mar 13 10:26	10° ℃ 18'41	-0.6m
asc. node	7998 Apr 10 13:29	11° 8 39'42		evening max el	7999 Mar 25 05:12	25° Y ′44'09	19°55'33
evening max el	7998 Apr 11 00:09	12° 8 07'17	19°03'03	asc. node	7999 Mar 28 10:35	28° Y 31'15	
retrograde	7998 Apr 17 20:40	15° 8 57'51			7999 Mar 31 16:41	0°8	
evening set	7998 Apr 21 06:43	14° 8 49'57		retrograde	7999 Apr 01 18:49	0° 8 06'30	
inferior conj	7998 Apr 26 19:05	9° 8 03'49			7999 Apr 02 20:27	30°₹ Υ	
minimum elong	7998 Apr 26 18:51	9° 8 04'31	3°24'04	evening set	7999 Apr 05 13:09	28° Y 43'52	201.512.0
min. Earth dist.	7998 Apr 28 08:59	7° 8 03'09	0.66177 AU	inferior conj	7999 Apr 10 21:50	22° Y '43'25	3°15'39
morning rise	7998 May 02 06:34	2° 8 46'07		minimum elong	7999 Apr 10 20:33	22° Y 47'45	3°15'27
11.	7998 May 08 09:48	30°RΥ		min. Earth dist.	7999 Apr 11 21:08	21° Y 25'04	0.67349 AU
direct	7998 May 08 15:12	29° Y 59'49		morning rise	7999 Apr 16 03:40	16° Υ 26'20	
1 1	7998 May 08 20:37	0°8		direct	7999 Apr 22 00:49	13° Y 48'47	
desc. node	7998 May 15 10:33	2° 8 28'11	26924129	desc. node	7999 May 02 07:31 7999 May 03 21:56	19° ℃ 22'27	25905145
morning max el	7998 May 21 12:23		26°24'38	morning max el	,	20° Y 56'05	25 05 45
	7998 Jun 07 20:57 7998 Jun 25 19:08	0°© 0°∏			7999 May 11 17:38 7999 Jun 01 01:54	0°¤ 8°0	
morning set	7998 Jun 26 12:36	1° 5 21'36		morning set	7999 Jun 01 01:34 7999 Jun 08 23:24	13° ∏ 32'53	
max. Earth dist.	7998 Jun 30 13:20		1.34779 AU	max. Earth dist.	7999 Jun 12 14:35	13 H 32 33 20° H 09'51	1.36688 AU
max. Earth dist.	7996 Juli 30 13.20	9 303 33	1.34//9 AU	max. Earth dist.	7999 Jun 17 18:33	0°95	1.30000 AU
superior conj	7998 Jul 05 11:22	18° © 59'44	-0°20'35		1777 Juli 11 18.33	0 39	
	7998 Jul 05 12:32	18 3 5544		superior coni	7000 Jun 19 22:24	2° © 21'23	0°52'10
minimum elong asc. node	7998 Jul 03 12:32 7998 Jul 07 12:39	23°503'43	0 20 30	superior conj minimum elong	7999 Jun 18 23:24 7999 Jun 19 02:33	2°936'57	
asc. Houe	7998 Jul 10 18:11	23 3 1443		asc. node	7999 Jun 24 09:39	13°©13'58	0 31 44
evening rise	7998 Jul 10 18:11 7998 Jul 13 02:13	0 δι 4° Ω 52'14		evening rise	7999 Jun 27 06:35	13 3 13 38	
evening fise	7998 Jul 27 01:53	0°m)		evening rise	7999 Jul	19 3 0247 0° Ω	
evening max el	7998 Jul 31 23:29	5°Mp48'01	20°49'02	evening max el	7999 Jul 14 10:25	17° Ω 05'17	19°37'29
desc. node	7998 Aug 11 09:39	11° Mp 27'04	20 77 02	retrograde	7999 Jul 24 05:54	21° Ω 55'35	11 3147
retrograde	7998 Aug 11 09:39 7998 Aug 12 11:57	11° Mp 30'04		evening set	7999 Jul 24 03:34 7999 Jul 26 02:22	$21^{\circ} \Omega 45'59$	
evening set	7998 Aug 14 15:35	11° Mp 18'56		desc. node	7999 Jul 29 06:44	20° Ω 48'44	
inferior conj	7998 Aug 23 21:25	7° m ₂ 1'58	-3°37'46	inferior conj	7999 Aug 03 21:52	17° Ω 42'10	-1°43'09
minimum elong	7998 Aug 23 12:16	7° mp 35'00		minimum elong	7999 Aug 03 17:10	17° Ω 49'34	
min. Earth dist.	7998 Aug 24 17:04	6° Mp 54'00		min. Earth dist.	7999 Aug 06 05:14		0.55463 AU
morning rise	7998 Sep 01 09:01	3° m/23'31		morning rise	7999 Aug 12 05:38	13° Ω 13'43	110
direct	7998 Sep 05 07:11	2° m 50'34		direct	7999 Aug 16 22:43	12° Ω 24'13	
	Sop 00 07.11	_ iiy 50 54			.,,,1146 10 22.43	002713	

morning max el	7999 Aug 30 21:31	19° Ω 21'56	24°48'58	transit begin	8000 Jul 14 14:02	28° © 42'51	
	7999 Sep 08 20:48	0° m		transit end	8000 Jul 14 20:28	28° © 31'05	
asc. node	7999 Sep 20 09:12	19° m 24'21		desc. node	8000 Jul 15 03:47	28° © 17'39	
morning set	7999 Sep 25 18:58	0° ჲ 27'45		min. Earth dist.	8000 Jul 17 21:26	26° © 18'39	0.57016 AU
	7999 Sep 25 13:45	0。 亚		morning rise	8000 Jul 22 14:51	23° © 32'12	
				direct	8000 Jul 28 04:37	22° © 16'29	
superior conj	7999 Oct 02 16:06	15° ≏ 27'05	1°36'18	morning max el	8000 Aug 11 12:14	29° 5 45'02	26°21'31
minimum elong	7999 Oct 02 14:42	15° ≏ 19'26	1°36'14		8000 Aug 11 18:23	$0^{\circ}\Omega$	
max. Earth dist.	7999 Oct 04 08:50	19° ≏ 09'15	1.32526 AU		8000 Sep 01 15:18	0°Щ	
	7999 Oct 09 11:34	0°M₊		asc. node	8000 Sep 06 06:08	9° m 00'00	
evening rise	7999 Oct 09 21:48	0°M52'35		morning set	8000 Sep 09 05:35	15°Mp11'39	
desc. node	7999 Oct 25 05:35	28°M40'48			00000 16 00 01	00.01.0100	1005145
	7999 Oct 26 01:50	0° ✓	27020150	superior conj	8000 Sep 16 03:24	0° £ 18'20	1°25'45
evening max el	7999 Nov 11 23:13	21° 🖈 27'37	27°28'50	minimum elong	8000 Sep 16 01:21	0° ჲ 07'01	1°25'31
retrograde	7999 Nov 25 17:06	28° 🗷 45'11		Darth diet	8000 Sep 16 00:06	0∘ ⊽	1.31875 AU
evening set min. Earth dist.	7999 Dec 02 19:16 7999 Dec 06 11:57	26° ₹ 15'46 23° ₹ 10'15	0.63025 AU	max. Earth dist. evening rise	8000 Sep 16 17:01 8000 Sep 23 01:15	1° ≙ 33'45 15° ≙ 19'05	1.318/3 AU
inferior conj	7999 Dec 00 11.37 7999 Dec 09 06:18	23 x ·10 13 20° x ¹ 28′07		evening rise	8000 Sep 23 01:13 8000 Sep 30 10:52	0°M	
minimum elong	7999 Dec 09 00:18 7999 Dec 09 11:16	20° ₹ 15'55	-2 38 28 2°36'26	desc. node	8000 Sep 30 10.32 8000 Oct 11 02:40	17°M48'26	
morning rise	7999 Dec 16 05:17	15° ₹ 15'54	2 30 20	desc. flode	8000 Oct 11 02:40 8000 Oct 20 10:45	0° √	
asc. node	7999 Dec 17 08:39	14° × 1554		evening max el	8000 Oct 20 10:45	3° × 755'04	27°08'57
direct	7999 Dec 18 13:23	14° 🖈 50'15		retrograde	8000 Nov 07 02:59	11°×706'25	27 00 37
morning max el	7999 Dec 25 04:57	18°×715'28	17°47'57	evening set	8000 Nov 14 03:31	8° × 754'47	
morning max or	8000 Jan 02 17:24	0°る	17 1737	min. Earth dist.	8000 Nov 17 03:31	6° ≯ 11'26	0.61031 AU
morning set	8000 Jan 10 08:31	13° る 07'08		inferior conj	8000 Nov 20 23:01	3° х 30'46	
8-11	8000 Jan 20 03:40	0° ≈		minimum elong	8000 Nov 21 05:51	3° х 15′59	
desc. node	8000 Jan 21 04:48	1°≈45'20			8000 Nov 25 12:04	30°RM₊	
				morning rise	8000 Nov 28 10:28	28°M38'01	
superior conj	8000 Jan 22 06:41	3° ≈ 33'12	-0°07'52	direct	8000 Nov 30 15:44	28°M17'59	
minimum elong	8000 Jan 22 05:53	3°≈29'52	0°07'38	asc. node	8000 Dec 03 05:40	28°M46'10	
behind sun begin	8000 Jan 21 21:38	2° ≈ 55'34			8000 Dec 05 13:32	0°⊀	
behind sun end	8000 Jan 22 14:08	4° ≈ 04'07		morning max el	8000 Dec 07 19:54	1° ≯ 53'48	17°57'16
max. Earth dist.	8000 Jan 28 18:09	14°≈07′22	1.44103 AU	morning set	8000 Dec 23 11:53	26° ∡ ³33'17	
evening rise	8000 Feb 06 10:41	27° ≈ 46′19			8000 Dec 25 08:55	ව°0	
	8000 Feb 07 21:28	0°) €					
	8000 Feb 28 10:14	0 ° $\mathbf{\Upsilon}$		superior conj	8001 Jan 02 18:25	15° る 05'45	0°31'28
evening max el	8000 Mar 07 04:48	9° Ƴ 22'46	21°01'34	minimum elong	8001 Jan 02 20:57	15° る 16'47	0°31'15
asc. node	8000 Mar 14 07:40	14° Ƴ 13'46		desc. node	8001 Jan 07 01:46	22° る 30'34	
retrograde	8000 Mar 15 17:15	14° Y 23′50		max. Earth dist.	8001 Jan 10 07:26	27° る 55'18	1.42480 AU
evening set	8000 Mar 19 21:06	12° Y 46′09			8001 Jan 11 13:45	0° ≈	
inferior conj	8000 Mar 25 04:30	6° Ƴ 33'48	2°56'00	evening rise	8001 Jan 16 07:56	7° ≈ 39'38	
minimum elong	8000 Mar 25 02:30	6° Y 40'41	2°55'35		8001 Jan 31 02:18	0° ∀	
min. Earth dist.	8000 Mar 25 14:24	5°Υ59'30	0.68084 AU	evening max el	8001 Feb 17 23:23	23°) (03'23	22°17'11
morning rise	8000 Mar 30 07:42	0°Υ19'20		retrograde	8001 Feb 27 14:11	28°) (45'28	
	8000 Mar 30 16:37	30° ₹		asc. node	8001 Mar 01 04:45	28°) 32'19	
direct	8000 Apr 04 15:27	27° ¥ 58'17 0° Ƴ		evening set	8001 Mar 04 04:51	26°) 52'37	2026142
mamina may al	8000 Apr 10 05:33	0°γ' 4° Υ 19'24	22027100	inferior conj	8001 Mar 09 12:56	20°) 31'12 20°) 39'05	2°26'42 2°26'06
morning max el desc. node	8000 Apr 15 07:01 8000 Apr 18 04:28	7° Υ 26'20	23 37 00	minimum elong min. Earth dist.	8001 Mar 09 10:40 8001 Mar 09 10:29	20° X 39'03	0.68391 AU
desc. node	8000 Apr 18 04.28 8000 May 04 23:48	7 7 20 20 0° と		morning rise	8001 Mar 14 16:19	14°) (20'58	0.06391 AU
morning set	8000 May 04 23:48 8000 May 20 12:21	24° 8 40'31		direct	8001 Mar 14 10:19	14 \(\)(2038) 12°\(\)(20'58)	
morning set	8000 May 23 14:38	0°II		morning max el	8001 Mar 28 18:30	17°) 50'00	22°08'17
max. Earth dist.	8000 May 24 10:18	1° Ⅱ 26'01	1.38882 AU	desc. node	8001 Apr 05 01:25	26° ∺ 20'17	22 00 17
max. Bartii dist.	0000 May 21 10.10	1 112001	1.50002 110	desc. node	8001 Apr 07 19:57	0° Υ	
superior conj	8000 May 31 22:04	15° Ⅱ 02'19	-1°23'13		8001 Apr 28 02:28	0°8	
minimum elong	8000 Jun 01 03:05	15° Ⅱ 25'53		morning set	8001 Apr 30 22:25	4° 8 31'56	
	8000 Jun 08 16:59	0 ಲ		max. Earth dist.	8001 May 06 08:18		1.41111 AU
evening rise	8000 Jun 10 03:33	2°548'15				-	
asc. node	8000 Jun 10 06:40	3°503'26		superior conj	8001 May 14 02:54	26° 8 52'00	-1°50'10
evening max el	8000 Jun 26 09:23	29° 5 06'32	18°46'38	minimum elong	8001 May 14 08:37	27° 8 17'26	
-	8000 Jun 27 08:23	$0^{\circ}\Omega$		3	8001 May 15 20:58	$\Pi^{\circ}0$	
retrograde	8000 Jul 04 15:42	3° Ω 12′01		evening rise	8001 May 24 13:39	15° Ⅱ 59'56	
evening set	8000 Jul 06 16:12	2° Ω 58'15		asc. node	8001 May 28 03:43	22° Ⅱ 38′25	
	8000 Jul 12 18:36	30° ₹ 5			8001 Jun 01 07:07	0 \circ \odot	
inferior conj	8000 Jul 14 16:56	28° © 37'33	0°08'10	evening max el	8001 Jun 09 16:46	11° 5 643'44	18°16'16
minimum elong	8000 Jul 14 17:15	28° © 36'58	0°07'54	retrograde	8001 Jun 16 20:44	15° © 19'34	
transit middle	8000 Jul 14 17:15	28° © 36'58	0°07'54	evening set	8001 Jun 19 04:32	14° © 57'38	

inferior conj	8001 Jun 26 09:43	10° © 16'14	1°35'32	minimum elong	8002 Jun 09 01:01	22° Ⅲ 27′15	2°33'44
minimum elong	8001 Jun 26 12:31	10° © 10'14	1°34'30	min. Earth dist.	8002 Jun 12 00:58	19° Ⅱ 30'44	0.61330 AU
min. Earth dist.	8001 Jun 29 19:16	7° 5 23'08	0.59084 AU	morning rise	8002 Jun 15 14:28	16° Ⅱ 34'57	
desc. node	8001 Jul 02 00:49	5° © 42'18		desc. node	8002 Jun 18 21:53	14° ∏ 52'45	
morning rise	8001 Jul 03 17:23	4° © 38'51		direct	8002 Jun 22 06:48	14° Ⅱ 18'15	
direct	8001 Jul 10 00:03	2° © 51'41		morning max el	8002 Jul 06 12:35	22° ∏ 18′00	27°54'35
morning max el	8001 Jul 24 09:01	10° © 39'57	27°26'23		8002 Jul 13 07:09	0°©	
	8001 Aug 08 08:41	$0^{\circ}\Omega$			8002 Aug 01 12:14	0° Ω	
asc. node	8001 Aug 24 03:06	28° Ω 51'01		morning set	8002 Aug 08 16:41	14° Ω 02'03	
morning set	8001 Aug 24 13:28	29° Ω 45'19		asc. node	8002 Aug 11 00:05	18° Ω 51'12	1 21025 177
T d T d	8001 Aug 24 16:16	0° Mp	1 21 674 ATT	max. Earth dist.	8002 Aug 14 12:09	26° Ω 23'39	1.31927 AU
max. Earth dist.	8001 Aug 31 03:27	14° Mp 02'49	1.31674 AU		9002 A 16 01-26	200 0 40152	0940145
	0001 A 21 15.11	1.50 m 0.715.4	1910/06	superior conj	8002 Aug 16 01:36	29° Ω 48'53	0°49'45
superior conj minimum elong	8001 Aug 31 15:11 8001 Aug 31 12:56	15° Mp 07'54 14° Mp 55'24	1°10'06 1°09'43	minimum elong	8002 Aug 15 23:37 8002 Aug 16 03:37	29° № 38'00 0° №	0°49'18
evening rise	8001 Aug 31 12.30 8001 Sep 07 09:30	29° Mp 57'26	1 0943	evening rise	8002 Aug 10 03:37 8002 Aug 22 20:24	0 100 14° 10 0 14°10	
evening rise	8001 Sep 07 09:59	0° ي		evening risc	8002 Aug 30 10:40	0° ⊽	
	8001 Sep 07 07:39 8001 Sep 23 17:00	0° m		desc. node	8002 Sep 14 20:50	o – 23° ≏ 15'41	
desc. node	8001 Sep 27 17:00 8001 Sep 27 23:44	6°M06'54		evening max el	8002 Sep 17 20:53	26° £ 23'13	24°53'03
evening max el	8001 Oct 06 05:22	15°M34'30	26°15'16	evening max er	8002 Sep 22 05:53	0°M	2. 33 03
retrograde	8001 Oct 20 03:32	22°M39'27	20 10 10	retrograde	8002 Oct 01 17:12	3°M21'51	
evening set	8001 Oct 26 16:27	20°M56'02		evening set	8002 Oct 07 05:30	2°M13'27	
min. Earth dist.	8001 Oct 30 18:33	18°M21'29	0.58950 AU		8002 Oct 11 12:31	30°R Ω	
inferior conj	8001 Nov 02 22:56	15°M58'15		min. Earth dist.	8002 Oct 12 08:06	29° £ 29'29	0.56997 AU
minimum elong	8001 Nov 03 05:50	15° M 45'15		inferior conj	8002 Oct 15 03:02	27° ≏ 40'22	-5°27'40
morning rise	8001 Nov 10 21:31	11° M 27'46		minimum elong	8002 Oct 15 06:21	27° Ω 34'55	5°27'20
direct	8001 Nov 13 04:03	11°ML10'09		morning rise	8002 Oct 23 09:28	23° £ 32'45	
asc. node	8001 Nov 20 02:39	14°M05'34		direct	8002 Oct 25 22:02	23° £ 14'45	
morning max el	8001 Nov 21 04:59	15° ™ 05'07	18°26'30	morning max el	8002 Nov 04 04:36	27° ≏ 38'41	19°17'25
	8001 Dec 01 12:36	0° ∡ ¹			8002 Nov 06 09:56	0° M	
morning set	8001 Dec 07 04:06	10° ∡ ³35′05		asc. node	8002 Nov 06 23:40	0°M40'58	
				morning set	8002 Nov 21 05:03	25° M $00'04$	
superior conj	8001 Dec 16 04:37	27° х 42′26	1°02'05		8002 Nov 23 17:02	0°⊀	
minimum elong	8001 Dec 16 08:05	27° ∡ 58′25	1°01'46				
	8001 Dec 17 10:34	0°ප		superior conj	8002 Nov 29 08:06	11° ≯ 08'21	1°23'26
max. Earth dist.	8001 Dec 23 16:12	11° る 04'22	1.40468 AU	minimum elong	8002 Nov 29 11:00	11° ∡ ¹22'27 −	1°23'16
desc. node	8001 Dec 24 22:47	13° る 15'29		max. Earth dist.	8002 Dec 05 21:58	23° ∡ 31'35	1.38300 AU
evening rise	8001 Dec 28 00:55	18° る 26'48		evening rise	8002 Dec 09 15:51	0° る 12'01	
	8002 Jan 04 05:43	0° ≈			8002 Dec 09 13:06	0°る	
	8002 Jan 25 13:02	0°) (22927100	desc. node	8002 Dec 11 19:48	3°₹56'02	
evening max el	8002 Jan 31 14:23	6°) €47'04	23°37'08	i1	8002 Dec 28 13:10 8003 Jan 14 03:36	0°≈ 20°≈ •22129	24955100
retrograde	8002 Feb 11 08:13	13° 米 07′21 10° 米 59′45		evening max el		20°≈33'28 27°≈24'36	24°55'09
evening set asc. node	8002 Feb 16 10:56 8002 Feb 16 01:49	10 X 3943		retrograde evening set	8003 Jan 25 22:24 8003 Jan 31 13:49	27 ≈24 30 25°≈03'43	
inferior conj	8002 Feb 21 21:18		1°48'41	asc. node	8003 Feb 02 22:54	22°≈39'21	
minimum elong	8002 Feb 21 19:12	4° H 39'58	1°48'02	min. Earth dist.	8003 Feb 05 02:12	19°≈59'37	0.67774 AU
min. Earth dist.	8002 Feb 21 07:09	5° ∺ 21'11	0.68283 AU	inferior conj	8003 Feb 06 03:46	18°≈35'27	1°02'32
min. Barur dige.	8002 Feb 25 11:54	30°R≈	0.00203110	minimum elong	8003 Feb 06 02:20	18° ≈ 40'11	1°02'04
morning rise	8002 Feb 27 03:26	28° ≈ 28'10		morning rise	8003 Feb 11 15:05	12° ≈ 38′02	
direct	8002 Mar 03 07:24	26° ≈ 50'48		direct	8003 Feb 15 06:17	11° ≈ 22'14	
	8002 Mar 09 20:33	0° ∺		morning max el	8003 Feb 22 13:37	15° ≈ 26'44	19°39'16
morning max el	8002 Mar 11 12:04	1°) €32'05	20°47'22	-	8003 Mar 05 21:11	0°) €	
desc. node	8002 Mar 22 22:23	15°) € 50'39		greatest brilliancy	8003 Mar 07 07:33	2°) €05'38	-0.7m
	8002 Apr 01 15:01	0 ° Υ		desc. node	8003 Mar 09 19:21	5°) 47′32	
morning set	8002 Apr 10 06:38	13° Y 14'03		morning set	8003 Mar 20 04:02	21°) 33'41	
max. Earth dist.	8002 Apr 18 13:32	26° Y 23'58	1.43085 AU		8003 Mar 25 14:47	0 ° Υ	
	8002 Apr 20 18:31	9° 8		max. Earth dist.	8003 Apr 01 01:48	10° Y 08'43	1.44553 AU
superior conj	8002 Apr 25 09:16	7° 8 40'10		superior conj	8003 Apr 05 14:49	17° Y 24'04	
minimum elong	8002 Apr 25 12:47	7° 8 55'02	2°07'55	minimum elong	8003 Apr 05 12:19	17° Y 13′58	2°10'26
evening rise	8002 May 07 08:39	28° 8 27'58			8003 Apr 13 07:53	0°8	
_	8002 May 08 05:23	0°П		evening rise	8003 Apr 19 07:57	10° 8 03'13	
asc. node	8002 May 15 00:46	11° Ⅱ 53'07	1000	_	8003 May 01 10:50	0°II	
evening max el	8002 May 24 04:46	24° II 46'45	18°05'29	asc. node	8003 May 01 21:51	0° П 41'12	1001222
retrograde	8002 May 30 18:08	28° Ⅱ 09'01		evening max el	8003 May 07 18:07	8° Ⅱ 07'49	18~13′39
evening set	8002 Jun 02 09:21 8002 Jun 08 22:04	27° П 36'08 22° П 34'32	2024124	retrograde	8003 May 14 03:22	11° Ⅲ 31'03 10° Ⅲ 45'29	
inferior conj	0002 Juli 00 22:04	ZZ Щ34°3Z	4 34 34	evening set	8003 May 17 01:39	то щ45/29	

inferior conj	8003 May 23 02:01	5° Ⅱ 25'27	3°08'40	greatest brilliancy	8004 Apr 06 01:47	1° 8 30'38	-0.9m
minimum elong	8003 May 23 03:55	5° Ⅱ 20'10	3°08'17	asc. node	8004 Apr 17 18:57	18° 8 53'09	0.5111
min. Earth dist.	8003 May 25 16:02	2° I 33'33		evening max el	8004 Apr 20 05:54	21° 8 38'55	18°40'04
min. Darm dige.	8003 May 28 06:24	30°R₩	0.03 107 110	retrograde	8004 Apr 26 20:03	25° 8 16'08	10 10 01
morning rise	8003 May 29 04:50	29° 8 13'32		evening set	8004 Apr 30 01:36	24° 8 16'44	
direct	8003 Jun 04 23:09	26° 8 35'38		inferior conj	8004 May 05 17:24	18° 8 39'51	3°23'03
desc. node	8003 Jun 05 18:55	26° 8 37'48		minimum elong	8004 May 05 17:56	18° 8 38'15	3°22'56
	8003 Jun 13 13:40	0°II		min. Earth dist.	8004 May 07 16:15	16° 8 17'02	0.65308 AU
morning max el	8003 Jun 18 21:02	4° Ⅱ 38'03	27°44'41	morning rise	8004 May 11 09:33	12° 8 22'53	
C	8003 Jul 07 23:10	0ಂತ		direct	8004 May 17 23:17	9° 8 35'50	
morning set	8003 Jul 23 12:58	27° © 56'02		desc. node	8004 May 22 15:55	10° 8 46'50	
-	8003 Jul 24 13:38	$0^{\circ}\Omega$		morning max el	8004 May 31 07:19	17° 8 28'27	27°01'21
max. Earth dist.	8003 Jul 28 15:06	8° Ω 24'51	1.32653 AU	-	8004 Jun 10 18:13	$\Pi^{\circ}0$	
asc. node	8003 Jul 28 21:06	8° £ 56'33			8004 Jun 29 20:49	0°€	
				morning set	8004 Jul 05 23:25	11° © 18'44	
superior conj	8003 Jul 31 08:51	14° Ω 16′24	0°25'09	max. Earth dist.	8004 Jul 10 08:39	19° © 58'05	1.33864 AU
minimum elong	8003 Jul 31 07:41	14° Ω 10′04	0°24'47				
evening rise	8003 Aug 07 08:04	29° Ω 21′04		superior conj	8004 Jul 14 10:47	28° © 24'11	-0°03'07
	8003 Aug 07 15:24	0° m)		minimum elong	8004 Jul 14 10:57	28°\$25'06	0°03'12
	8003 Aug 24 13:20	0∘ ⊽		behind sun begin	8004 Jul 14 05:24	27° © 55'59	
evening max el	8003 Aug 30 08:10	6° ₽ 39'35	23°15'19	behind sun end	8004 Jul 14 16:31	28° © 54'15	
desc. node	8003 Sep 01 17:55	8° ≏ 48'24		asc. node	8004 Jul 14 18:08	29° 5 02'48	
retrograde	8003 Sep 12 18:51	13° ≏ 23'08			8004 Jul 15 05:00	$0^{\circ}\Omega$	
evening set	8003 Sep 16 19:31	12° ≏ 47'38		evening rise	8004 Jul 21 18:37	13° Ω 55'16	
min. Earth dist.	8003 Sep 23 17:27	9° £ 35'52	0.55485 AU		8004 Jul 29 22:10	0° т р	
inferior conj	8003 Sep 25 11:18	8° ≏ 34'43	-5°27'02	evening max el	8004 Aug 10 23:57	16° Mp 58′50	21°38'48
minimum elong	8003 Sep 25 07:27	8° ≏ 40'22	5°26'43	desc. node	8004 Aug 18 15:00	22° Mp 13'20	
morning rise	8003 Oct 03 21:33	4° £ 43'34		retrograde	8004 Aug 23 09:36	23°Mp 07'55	
direct	8003 Oct 06 20:30	4° £ 22'37		evening set	8004 Aug 26 01:03	22° m 52'05	
morning max el	8003 Oct 17 15:55	9° ≙ 26'03	20°30'45	inferior conj	8004 Sep 04 06:01	18° m 53'12	
asc. node	8003 Oct 24 20:40	18° ≙ 17'02		minimum elong	8004 Sep 03 20:47	19° 11 06'06	4°29'57
	8003 Oct 31 15:31	0°M,		min. Earth dist.	8004 Sep 04 02:17	18° My 58'25	0.54732 AU
morning set	8003 Nov 05 11:44	9°M39'39		morning rise	8004 Sep 12 17:36	15° m 02'58	
				direct	8004 Sep 16 06:29	14° m 35'41	
superior conj	8003 Nov 13 00:09	25°M09'55	1°36'12	morning max el	8004 Sep 28 14:39	20° m/25'34	22°04'02
minimum elong	8003 Nov 13 01:50	25°M18'28	1°36'12	1	8004 Oct 06 13:27	0° ⊽	
E d Ed	8003 Nov 15 09:51	0° ∡ 7	1 2/222 ATT	asc. node	8004 Oct 10 17:40	6° £ 40'02	
max. Earth dist.	8003 Nov 18 05:10	5° 🗷 29'49	1.36233 AU	morning set	8004 Oct 19 21:51	24° £ 27'31	
evening rise	8003 Nov 22 02:36	12° х 49'58			8004 Oct 22 12:40	0° M ₊	
desc. node	8003 Nov 28 16:50 8003 Dec 02 01:00	24° メ 28'06 0°る		superior conj	8004 Oct 27 01:02	9° M 36'05	1°41'22
	8003 Dec 02 01:00 8003 Dec 23 13:53	0°≈		minimum elong	8004 Oct 27 01:02 8004 Oct 27 01:22	9°M37'51	1°41'27
evening max el	8003 Dec 23 13:33 8003 Dec 27 16:34	0 ∞ 4°≈19'47	26°04'06	max. Earth dist.	8004 Oct 30 18:59	17°M23'01	1.34465 AU
retrograde	8004 Jan 09 07:46	11°≈30'50	20 04 00	evening rise	8004 Oct 30 18:39 8004 Nov 04 05:19	26°M10'55	1.54405 AU
evening set	8004 Jan 15 11:45	8°≈59'50		evening rise	8004 Nov 06 05:27	20 11 0 10 33	
min. Earth dist.	8004 Jan 19 17:25	4°≈30'16	0.66891 AU	desc. node	8004 Nov 14 13:53	14° ∡ 746'45	
asc. node	8004 Jan 20 20:00	3°≈07'49	0.00071710	desc. node	8004 Nov 24 10:23	0°る	
inferior conj	8004 Jan 21 06:24	2°≈35'23	0°08'41	evening max el	8004 Dec 09 05:51		26°56'37
minimum elong	8004 Jan 21 06:10	2°≈36'06	0°08'43	retrograde	8004 Dec 22 11:32	25° る 19'19	
transit middle	8004 Jan 21 06:10	2°≈36'06	0°08'43	evening set	8004 Dec 29 02:46	22° ප් 43'11	
transit begin	8004 Jan 21 03:46	2° ≈ 43'35		min. Earth dist.	8005 Jan 02 02:32	18° る 47'56	0.65650 AU
transit end	8004 Jan 21 08:34	2° ≈ 28'39		inferior conj	8005 Jan 04 03:05	16° る 28'25	
	8004 Jan 23 10:14	30°Ŗる		minimum elong	8005 Jan 04 04:35	16° පි 24'05	0°51'20
morning rise	8004 Jan 27 01:13	26° ප් 46'59		asc. node	8005 Jan 06 17:02	13° る 38'45	
direct	8004 Jan 30 05:07	25° る 49'59		morning rise	8005 Jan 10 07:31	10° ප 51'29	
morning max el	8004 Feb 05 22:34	29° る 29'54	18°46'27	direct	8005 Jan 13 02:02	10° る 09'35	
	8004 Feb 06 10:28	0° ≈		morning max el	8005 Jan 19 12:58	13° る 36'08	18°10'10
desc. node	8004 Feb 24 16:17	26° ≈ 03'12			8005 Jan 31 07:54	0° ≈	
	8004 Feb 27 04:48	0° ∀		morning set	8005 Feb 07 06:07	11° ≈ 12'14	
morning set	8004 Feb 27 14:52	0°) 39′26		desc. node	8005 Feb 10 13:15	16° ≈ 32'44	
max. Earth dist.	8004 Mar 13 18:40	24°) 22′49	1.45367 AU		8005 Feb 18 23:03	0° ∀	
superior conj	8004 Mar 15 00:29	26° ∺ 19'43		superior conj	8005 Feb 22 06:01	5°) 11′38	
minimum elong	8004 Mar 14 15:49	25°) 45'41	1°52'23	minimum elong	8005 Feb 21 21:18	4°) 37′19	
	8004 Mar 17 08:34	0°Υ		max. Earth dist.	8005 Feb 24 14:07	8° ∺ 51'56	1.45452 AU
evening rise	8004 Mar 30 07:57	20° Ƴ 39'07		evening rise	8005 Mar 10 09:45	0° Υ 24'00	
	8004 Apr 05 03:11	0° 8			8005 Mar 10 03:35	0° Y	

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greatest brilliancy	8005 Mar 22 14:59	19° Ƴ 14'30	-0.7m	minimum elong	8006 Feb 01 22:25	14° ≈ 34'12	0°32'39
	8005 Mar 30 03:13	9° 8		max. Earth dist.	8006 Feb 07 09:26	23° ≈ 19′07	1.44795 AU
evening max el	8005 Apr 03 13:57	5° 8 15'13	19°23'32		8006 Feb 11 15:22	0° ∀	
asc. node	8005 Apr 04 16:02	6° 8 17'57		evening rise	8006 Feb 17 22:09	9°) 43′28	
retrograde	8005 Apr 10 16:52	9° 8 17'51			8006 Mar 03 09:07	$0^{\circ}\Upsilon$	
evening set	8005 Apr 14 06:19	8° 8 03'48		evening max el	8006 Mar 17 16:48	18° Ƴ 53'29	20°22'08
inferior conj	8005 Apr 19 16:50	2° 8 11'36		asc. node	8006 Mar 22 13:05	22° Y 42'18	
minimum elong	8005 Apr 19 16:07	2° 8 13'56		retrograde	8006 Mar 25 15:18	23° Y '31'06	
min. Earth dist.	8005 Apr 21 00:28	0° 8 28'15	0.66741 AU	evening set	8006 Mar 29 13:38	22° Y '01'56	
	8005 Apr 21 09:16	30° ₹Ƴ		inferior conj	8006 Apr 03 21:31	15° Y 56′12	
morning rise	8005 Apr 25 01:33	25° Y ′53'57		minimum elong	8006 Apr 03 19:53	16° Y °01'47	3°08'16
direct	8005 May 01 05:47	23° Y ′09'56		min. Earth dist.	8006 Apr 04 14:56	14° Y 56'46	0.67725 AU
desc. node	8005 May 09 12:55	26° Y 49'35		morning rise	8006 Apr 09 01:55	9° Υ 40'18	
	8005 May 13 02:15	0°8	25052142	direct	8006 Apr 14 17:36	7° Υ 09'05	2.402.012.2
morning max el	8005 May 13 17:15	0° 8 37'32	25°52'43	morning max el	8006 Apr 26 02:21	13° Y 57'09	24°28'33
	8005 Jun 04 17:32	0°Ⅱ 23°Ⅱ59'37		desc. node	8006 Apr 26 09:53	14° Y 16′21	
morning set	8005 Jun 18 20:12 8005 Jun 22 01:12	23°Щ3937 0° ©			8006 May 09 03:10	0°Ⅱ 8°0	
may Earth dist	8005 Jun 22 01:12 8005 Jun 22 15:16		1.35547 AU	morning set	8006 May 28 14:02 8006 May 31 22:25	0°П 5°П45'42	
max. Earth dist.	8003 Juli 22 13.16	1 20/10	1.55547 AU	max. Earth dist.	8006 Jun 04 13:40		1.37607 AU
superior conj	8005 Jun 28 04:48	12° © 05'17	0°33'55	max. Earm dist.	6000 Juli 04 15.40	12 11402	1.37007 AU
minimum elong	8005 Jun 28 06:48	12 3 05 17		superior conj	8006 Jun 11 11:42	25° Ⅱ 11'20	-1°05'35
asc. node	8005 Jul 28 00:48 8005 Jul 01 15:08	12 3 13 19	0 33 39	minimum elong	8006 Jun 11 11:42 8006 Jun 11 15:42	25° I I30'42	
evening rise	8005 Jul 06 01:54	28°9516'26		minimum ciong	8006 Jun 13 22:57	0°95	1 03 02
evening rise	8005 Jul 06 22:10	0°Ω		asc. node	8006 Jun 18 12:08	9° © 01'38	
evening max el	8005 Jul 24 03:18	27° Ω 51'01	20°16'09	evening rise	8006 Jun 20 03:33	12° © 17'50	
evening max or	8005 Jul 26 14:04	0° m)	20 10 0)	evening rise	8006 Jun 29 16:23	0°Ω	
retrograde	8005 Aug 03 22:12	3° m/ 10'24		evening max el	8006 Jul 06 19:43	9° Ω 27'42	19°13'15
evening set	8005 Aug 05 21:01	3° m/00'43		retrograde	8006 Jul 15 22:10	13° Ω 57'27	
desc. node	8005 Aug 05 12:05	3° m 04'02		evening set	8006 Jul 17 19:41	13° Ω 46'34	
	8005 Aug 13 08:44	30° ₽ Ω		desc. node	8006 Jul 23 09:09	11° Ω 28'39	
inferior conj	8005 Aug 15 00:06	29° Ω 02'52	-2°50'45	inferior conj	8006 Jul 26 07:39	9° Ω 35'59	-0°53'50
minimum elong	8005 Aug 14 16:24	29° Ω 14'11	2°48'06	minimum elong	8006 Jul 26 05:17	9° Ω 39'56	0°53'02
min. Earth dist.	8005 Aug 16 12:29	28° Ω 09′25	0.54928 AU	min. Earth dist.	8006 Jul 29 01:53	7° Ω 45'46	0.56041 AU
morning rise	8005 Aug 23 10:45	24° Ω 53'36		morning rise	8006 Aug 03 11:59	4° Ω 52'18	
direct	8005 Aug 27 16:55	24° Ω 14′29		direct	8006 Aug 08 13:59	3° £ 52′54	
	8005 Sep 09 07:14	0° m		morning max el	8006 Aug 22 17:34	11° Ω 04'16	25°30'59
morning max el	8005 Sep 10 04:46	0° m 49'06	23°49'00		8006 Sep 06 04:50	0° m ∕	
asc. node	8005 Sep 27 14:38	25° Mp 38'06		asc. node	8006 Sep 14 11:37	15° Mp 02'23	
	8005 Sep 29 21:00	0० ऌ		morning set	8006 Sep 18 20:54	24° Mp 05'13	
morning set	8005 Oct 04 09:27	9° ≏ 17'33			8006 Sep 21 14:36	0∘ ⊽	
superior conj	8005 Oct 11 07:42	24° ₽ 17'11	1°39'52	superior conj	8006 Sep 25 17:54	9° Ω 06'28	1°32'28
minimum elong	8005 Oct 11 06:51	24° £ 12'35	1°39'54	minimum elong	8006 Sep 25 16:11	8° Ω 56'59	1°32'20
max. Earth dist.	8005 Oct 13 17:23	29° Ω 27'18	1.33107 AU	max. Earth dist.	8006 Sep 26 22:56	11° £ 46'07	1.32196 AU
	8005 Oct 13 23:32	0°M		evening rise	8006 Oct 02 19:44 8006 Oct 05 14:39	24° £ 20'03	
evening rise	8005 Oct 18 20:06 8005 Oct 29 14:10	10° ™ 03'48 0° ৴		desc. node		0°M 24°M13'58	
desc. node	8005 Oct 29 14:10 8005 Nov 01 10:56	0° x ° 4° x 744′51		uese. Houe	8006 Oct 19 08:00 8006 Oct 23 05:44	44°الداع'58 0° ح ا	
dese. Hode	8005 Nov 20 08:54	4 x・44 51 0°る		evening max el	8006 Oct 23 03:44 8006 Nov 04 03:37	0 x . 14° x 12'03	27°24'29
evening max el	8005 Nov 20 08.34 8005 Nov 21 18:17	1° る 21'53	27°25'30	retrograde	8006 Nov 04 03:37 8006 Nov 17 22:49	21°×726'30	<i>∠≀ ∠च ∠ን</i>
retrograde	8005 Dec 05 08:43	8° る 40'48	27 23 30	evening set	8006 Nov 25 01:32	19° ₹ 03'13	
evening set	8005 Dec 12 08:24	6° ප 06'31		min. Earth dist.	8006 Nov 28 17:39	16° ₹ 08'36	0.62203 AU
min. Earth dist.	8005 Dec 16 03:13	2°る44'03	0.64071 AU	inferior conj	8006 Dec 01 16:00	13° ₹ 25'28	
inferior conj	8005 Dec 18 15:16	0° る 07'34		minimum elong	8006 Dec 01 21:53	13° √ 11'48	
minimum elong	8005 Dec 18 18:56	29° ∡ ¹57'59		morning rise	8006 Dec 08 20:20	8° ≯ 21'11	
3	8005 Dec 18 18:09	30°₽ ⋌ ¹		direct	8006 Dec 11 02:58	7° ∡ ′58'13	
asc. node	8005 Dec 24 14:03	25° х 04'55		asc. node	8006 Dec 11 11:05	7° ∡ ′58'44	
morning rise	8005 Dec 25 07:07	24° ∡ ¹45'13		morning max el	8006 Dec 17 22:43	11° ≯ 26'30	17°49'39
direct	8005 Dec 27 18:23	24° ∡ 14'36			8006 Dec 30 08:55	ರ°0	
morning max el	8006 Jan 03 06:02	27° ∡ ³37'31	17°51'00	morning set	8007 Jan 02 19:03	6° る 05'37	
	8006 Jan 05 09:27	8°0					
morning set	8006 Jan 20 01:34	23° る 07'36		superior conj	8007 Jan 13 23:11	25° る 39'39	0°09'47
	8006 Jan 24 02:56	0° ≈		minimum elong	8007 Jan 14 00:07	25° る 43'36	0°09'46
desc. node	8006 Jan 28 10:12	7° ≈ 11'08		behind sun begin	8007 Jan 13 17:05	25° ප 13'46	
				behind sun end	8007 Jan 14 07:09	26° る 13'23	
superior conj	8006 Feb 02 02:10	14° ≈ 49'27	-0°33'18	desc. node	8007 Jan 15 07:09	27° る 54'41	

	8007 Jan 16 13:05	0° ≈		minimum elong	8007 Dec 27 00:16	7° る 55'25	0°45'17
max. Earth dist.	8007 Jan 21 01:34	7° ≈ 26'00	1.43474 AU	desc. node	8008 Jan 02 04:09	18° る 40'07	
evening rise	8007 Jan 28 11:56	19° ≈ 13'52		max. Earth dist.	8008 Jan 03 12:38	20°る57'18	1.41648 AU
	8007 Feb 04 12:56	0°) €		evening rise	8008 Jan 08 16:46	29° る 27'53	
	8007 Feb 26 05:43	0 ° Υ			8008 Jan 09 00:45	0° ≈	
evening max el	8007 Feb 28 14:05	2° Ƴ 32'24	21°32'46		8008 Jan 29 02:26	0° ∀	
asc. node	8007 Mar 09 10:09	7° Ƴ 50'50		evening max el	8008 Feb 11 06:47	16°) 13'42	22°51'00
retrograde	8007 Mar 09 13:20	7° Y 50′55		retrograde	8008 Feb 21 09:23	22°) 13′26	
evening set	8007 Mar 13 21:43	6° Y 06'31		asc. node	8008 Feb 24 07:13	21°) € 30′52	
inferior conj	8007 Mar 19 05:10	29°) (49'44	2°44'41	evening set	8008 Feb 26 04:59	20°) 14'09	
minimum elong	8007 Mar 19 03:00	29° ¥ 57'15	2°44'11	inferior conj	8008 Mar 02 13:50	13°) (49'37	
i. Darda diad	8007 Mar 19 02:13	30° ₹ 29° 升 34'16	0.69267.411	minimum elong	8008 Mar 02 11:34	13° ¥ 57'26 14° ¥ 15'43	2°10'59
min. Earth dist.	8007 Mar 19 09:37 8007 Mar 24 08:08	29° X 34 16 23° X 37'03	0.68267 AU	min. Earth dist.	8008 Mar 02 06:18 8008 Mar 07 18:03	7°) (41'28	0.68386 AU
morning rise direct	8007 Mar 24 08:08 8007 Mar 29 09:52	23 X 37 03 21° X 24'52		morning rise direct	8008 Mar 12 05:45	5° H 51'13	
morning max el	8007 Apr 08 12:11	27° X 23'46	22°58'49	morning max el	8008 Mar 21 02:01	10° ¥ 59'33	21°32'37
morning max cr	8007 Apr 10 22:45	0° Υ	22 30 47	desc. node	8008 Mar 30 03:47	21° X 54'27	21 32 37
desc. node	8007 Apr 13 06:50	2° Υ 43'27		desc. node	8008 Apr 04 23:19	0°Υ	
	8007 May 02 18:20	0°8		morning set	8008 Apr 21 22:52	25° Y ′42'11	
morning set	8007 May 13 00:26	16° 8 22'04		Č	8008 Apr 24 15:20	0°B	
max. Earth dist.	8007 May 17 10:01	23° 8 48'11	1.39846 AU	max. Earth dist.	8008 Apr 28 10:32	6° 8 11'56	1.41995 AU
	8007 May 20 23:10	$\Pi^{\circ}0$					
				superior conj	8008 May 05 23:11	18° 8 56'18	-1°59'10
superior conj	8007 May 25 03:21	7° Ⅱ 31'33	-1°35'24	minimum elong	8008 May 06 04:27	19° 8 19'08	1°58'55
minimum elong	8007 May 25 08:54	7° Ⅱ 57'03	1°34'50		8008 May 12 05:10	Π °0	
evening rise	8007 Jun 03 20:24	25° ∏ 50′22		evening rise	8008 May 17 00:43	8° Ⅱ 45'06	
asc. node	8007 Jun 05 09:09	28° Ⅱ 45'31		asc. node	8008 May 22 06:13	18° Ⅱ 12'46	
	8007 Jun 06 00:52	0.20	10021110		8008 May 29 12:52	0.ee	10000116
evening max el	8007 Jun 19 22:39	21°544'48	18°31'10	evening max el	8008 Jun 02 08:29	4°934'20	18°09'16
retrograde	8007 Jun 27 16:31	25°536'09		retrograde	8008 Jun 09 04:58	8°502'31 7°536'20	
evening set inferior conj	8007 Jun 29 19:50 8007 Jul 07 12:01	25°©19'25 20°©49'49	0°48'42	evening set inferior conj	8008 Jun 11 15:52 8008 Jun 18 13:38	2°546'28	2903152
minimum elong	8007 Jul 07 12:01	20°94949 20°946'27	0°47'57	minimum elong	8008 Jun 18 16:42	2°539'26	2°02'50
desc. node	8007 Jul 10 06:13	18°940'15	0 47 37	minimum clong	8008 Jun 21 14:53	2 3 5720	2 02 30
min. Earth dist.	8007 Jul 10 20:19	18°913'42	0.57852 AU	min. Earth dist.	8008 Jun 21 21:34	29° ∏ 45'29	0.60041 AU
morning rise	8007 Jul 15 04:10	15° 5 29'26	***************************************	morning rise	8008 Jun 25 14:42	26° I I58'01	
direct	8007 Jul 21 01:32	14° © 00'51		desc. node	8008 Jun 26 03:16	26° Ⅱ 39'29	
morning max el	8007 Aug 04 10:53	21° 5 39'13	26°53'15	direct	8008 Jul 02 02:29	24° Ⅱ 57'18	
	8007 Aug 11 18:24	$0^{\circ}\Omega$			8008 Jul 13 07:02	0 \circ \odot	
	8007 Aug 30 00:10	0° m		morning max el	8008 Jul 16 10:46	2° 9 52'20	27°42'56
asc. node	8007 Sep 01 08:35	4° ™ 45'01			8008 Aug 05 06:51	$0^{\circ}\Omega$	
morning set	8007 Sep 03 06:34	8° m 45'08		morning set	8008 Aug 17 12:43	23° Ω 12'07	
				asc. node	8008 Aug 18 05:34	24° Ω 40′20	
superior conj	8007 Sep 10 05:37	23° m 57'12	1°19'42		8008 Aug 20 17:30	0° m	
minimum elong	8007 Sep 10 03:26	23° m/45'03	1°19'23	max. Earth dist.	8008 Aug 23 18:29	6° Mp 38′59	1.31723 AU
max. Earth dist.	8007 Sep 10 08:31		1.31732 AU		0000 4 04 17 04	00.00.42144	1000101
	8007 Sep 12 23:12	0° ⊽		superior conj	8008 Aug 24 17:04	8° Mp 43'44	1°02'01
evening rise	8007 Sep 17 01:29 8007 Sep 27 23:29	8° ≏ 51'40 0° M		minimum elong evening rise	8008 Aug 24 14:52 8008 Aug 31 11:06	8° My 31'34 23° My 32'03	1°01'35
desc. node	-			evening rise	-	-	
evening max el	2007 Oct 06 05:06	130111 (17)75			2002 Sep. 03 13:10	$0 \circ \mathbf{v}$	
evening max er	8007 Oct 06 05:06 8007 Oct 17 07:14	13°M02'25 26°M18'34	26°50'01		8008 Sep 03 13:10 8008 Sep 21 09:17	0°M°	
	8007 Oct 17 07:14	26°M18'34	26°50'01	desc. node	8008 Sep 21 09:17	0°M	
retrograde	8007 Oct 17 07:14 8007 Oct 21 18:48	26°M18'34 0°⊀	26°50'01	desc. node	8008 Sep 21 09:17 8008 Sep 22 02:12	0°ጤ 0°ጤ53'49	25°43'10
retrograde evening set	8007 Oct 17 07:14	26°M18'34	26°50'01	desc. node evening max el retrograde	8008 Sep 21 09:17	0°M	25°43'10
•	8007 Oct 17 07:14 8007 Oct 21 18:48 8007 Oct 31 05:03	26°M18'34 0°⊀ 3°⊀27'45	26°50'01	evening max el	8008 Sep 21 09:17 8008 Sep 22 02:12 8008 Sep 28 03:12	0°M 0°M53'49 7°M35'01	25°43'10
•	8007 Oct 17 07:14 8007 Oct 21 18:48 8007 Oct 31 05:03 8007 Nov 07 02:11	26°M.18'34 0° ♣7 3° ♣727'45 1° ♣726'32	26°50'01 0.60141 AU	evening max el retrograde	8008 Sep 21 09:17 8008 Sep 22 02:12 8008 Sep 28 03:12 8008 Oct 12 01:37	0°M 0°M53'49 7°M35'01 14°M38'19	
evening set	8007 Oct 17 07:14 8007 Oct 21 18:48 8007 Oct 31 05:03 8007 Nov 07 02:11 8007 Nov 09 07:40	26°M.18'34 0°⊀ 3°⊀27'45 1°⊀26'32 30°RM	0.60141 AU	evening max el retrograde evening set	8008 Sep 21 09:17 8008 Sep 22 02:12 8008 Sep 28 03:12 8008 Oct 12 01:37 8008 Oct 18 05:25	0°M 0°M53'49 7°M35'01 14°M38'19 13°M09'28	0.58076 AU
evening set min. Earth dist. inferior conj minimum elong	8007 Oct 17 07:14 8007 Oct 21 18:48 8007 Oct 31 05:03 8007 Nov 07 02:11 8007 Nov 09 07:40 8007 Nov 10 21:23	26°M18'34 0° ₹ 3° ₹27'45 1° ₹26'32 30°RM 28°M49'13	0.60141 AU -4°14'44	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	8008 Sep 21 09:17 8008 Sep 22 02:12 8008 Sep 28 03:12 8008 Oct 12 01:37 8008 Oct 18 05:25 8008 Oct 22 15:41	0°M.53'49 7°M.35'01 14°M.38'19 13°M.09'28 10°M.33'02 8°M.22'15 8°M.11'45	0.58076 AU -5°08'39
evening set min. Earth dist. inferior conj minimum elong morning rise	8007 Oct 17 07:14 8007 Oct 21 18:48 8007 Oct 31 05:03 8007 Nov 07 02:11 8007 Nov 09 07:40 8007 Nov 10 21:23 8007 Nov 14 01:57 8007 Nov 14 09:09 8007 Nov 21 18:29	26°M18'34 0° \$\tilde{\mathbb{A}}\] 3° \$\tilde{\mathbb{A}}\] 27'45 1° \$\tilde{\mathbb{A}}\] 26°M13'34 26°M13'34 25°M58'54 21°M30'27	0.60141 AU -4°14'44	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8008 Sep 21 09:17 8008 Sep 22 02:12 8008 Sep 28 03:12 8008 Oct 12 01:37 8008 Oct 18 05:25 8008 Oct 22 15:41 8008 Oct 25 17:41 8008 Oct 25 23:36 8008 Nov 02 20:07	0°M.53'49 7°M.35'01 14°M.38'19 13°M.09'28 10°M.33'02 8°M.22'15 8°M.11'45 4°M.01'45	0.58076 AU -5°08'39
evening set min. Earth dist. inferior conj minimum elong morning rise direct	8007 Oct 17 07:14 8007 Oct 21 18:48 8007 Oct 31 05:03 8007 Nov 07 02:11 8007 Nov 09 07:40 8007 Nov 10 21:23 8007 Nov 14 01:57 8007 Nov 14 09:09 8007 Nov 21 18:29 8007 Nov 23 23:42	26°M18'34 0° \$\frac{1}{2}\$ 3° \$\frac{1}{2}\$7'45 1° \$\frac{1}{2}\$26'32 30° RM 28° M49'13 26° M13'34 25° M58'54 21° M30'27 21° M11'52	0.60141 AU -4°14'44	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8008 Sep 21 09:17 8008 Sep 22 02:12 8008 Sep 28 03:12 8008 Oct 12 01:37 8008 Oct 18 05:25 8008 Oct 22 15:41 8008 Oct 25 17:41 8008 Oct 25 23:36 8008 Nov 02 20:07 8008 Nov 05 04:23	0°M. 0°M.53'49 7°M.35'01 14°M.38'19 13°M.09'28 10°M.33'02 8°M.22'15 8°M.11'45 4°M.01'45 3°M.44'27	0.58076 AU -5°08'39 5°07'37
evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	8007 Oct 17 07:14 8007 Oct 21 18:48 8007 Oct 31 05:03 8007 Nov 07 02:11 8007 Nov 09 07:40 8007 Nov 10 21:23 8007 Nov 14 01:57 8007 Nov 14 09:09 8007 Nov 21 18:29 8007 Nov 23 23:42 8007 Nov 28 08:06	26°M.18'34 0° \$\frac{1}{2}\$ 3° \$\frac{1}{2}\$7'45 1° \$\frac{1}{2}\$26'32 30°RM 28°M.49'13 26°M.13'34 25°M.58'54 21°M.30'27 21°M.11'52 22°M.27'07	0.60141 AU -4°14'44 4°12'38	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8008 Sep 21 09:17 8008 Sep 22 02:12 8008 Sep 28 03:12 8008 Oct 12 01:37 8008 Oct 18 05:25 8008 Oct 22 15:41 8008 Oct 25 17:41 8008 Oct 25 23:36 8008 Nov 02 20:07 8008 Nov 05 04:23 8008 Nov 13 17:12	0°M. 0°M.53'49 7°M.35'01 14°M.38'19 13°M.09'28 10°M.33'02 8°M.22'15 8°M.11'45 4°M.01'45 3°M.44'27 7°M.50'57	0.58076 AU -5°08'39 5°07'37
evening set min. Earth dist. inferior conj minimum elong morning rise direct	8007 Oct 17 07:14 8007 Oct 21 18:48 8007 Oct 31 05:03 8007 Nov 07 02:11 8007 Nov 09 07:40 8007 Nov 10 21:23 8007 Nov 14 01:57 8007 Nov 14 09:09 8007 Nov 21 18:29 8007 Nov 23 23:42 8007 Nov 28 08:06 8007 Dec 01 11:40	26°M.18'34 0° \$\frac{1}{2}\] 3° \$\frac{1}{2}\] 1° \$\frac{1}{2}\] 26°M.13'34 25°M.58'54 21°M.30'27 21°M.11'52 22°M.27'07 24°M.54'32	0.60141 AU -4°14'44	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8008 Sep 21 09:17 8008 Sep 22 02:12 8008 Sep 28 03:12 8008 Oct 12 01:37 8008 Oct 18 05:25 8008 Oct 22 15:41 8008 Oct 25 17:41 8008 Oct 25 23:36 8008 Nov 02 20:07 8008 Nov 05 04:23 8008 Nov 13 17:12 8008 Nov 14 05:08	0°M. 0°M.53'49 7°M.35'01 14°M.38'19 13°M.09'28 10°M.33'02 8°M.22'15 8°M.11'45 4°M.01'45 3°M.44'27 7°M.50'57 8°M.20'23	0.58076 AU -5°08'39 5°07'37
evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	8007 Oct 17 07:14 8007 Oct 21 18:48 8007 Oct 31 05:03 8007 Nov 07 02:11 8007 Nov 09 07:40 8007 Nov 10 21:23 8007 Nov 14 01:57 8007 Nov 14 09:09 8007 Nov 21 18:29 8007 Nov 23 23:42 8007 Nov 28 08:06 8007 Dec 01 11:40 8007 Dec 05 17:03	26°M.18'34 0° × 27'45 1° × 26'32 30°RM 28°M.49'13 26°M.13'34 25°M.58'54 21°M.30'27 21°M.11'52 22°M.27'07 24°M.54'32 0° × 2	0.60141 AU -4°14'44 4°12'38	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	8008 Sep 21 09:17 8008 Sep 22 02:12 8008 Sep 28 03:12 8008 Oct 12 01:37 8008 Oct 18 05:25 8008 Oct 22 15:41 8008 Oct 25 17:41 8008 Oct 25 23:36 8008 Nov 02 20:07 8008 Nov 05 04:23 8008 Nov 13 17:12 8008 Nov 14 05:08 8008 Nov 27 23:15	0°M. 0°M.53'49 7°M.35'01 14°M.38'19 13°M.09'28 10°M.33'02 8°M.22'15 8°M.11'45 4°M.01'45 3°M.44'27 7°M.50'57 8°M.20'23 0° ✓	0.58076 AU -5°08'39 5°07'37
evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	8007 Oct 17 07:14 8007 Oct 21 18:48 8007 Oct 31 05:03 8007 Nov 07 02:11 8007 Nov 09 07:40 8007 Nov 10 21:23 8007 Nov 14 01:57 8007 Nov 14 09:09 8007 Nov 21 18:29 8007 Nov 23 23:42 8007 Nov 28 08:06 8007 Dec 01 11:40 8007 Dec 05 17:03 8007 Dec 17 04:27	26°M.18'34 0°\$\tilde{\sigma}\) 3°\$\tilde{\sigma}\) 26'32 30°RM 28°M.49'13 26°M.13'34 25°M.58'54 21°M.30'27 21°M.11'52 22°M.27'07 24°M.54'32 0°\$\tilde{\sigma}\)	0.60141 AU -4°14'44 4°12'38	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8008 Sep 21 09:17 8008 Sep 22 02:12 8008 Sep 28 03:12 8008 Oct 12 01:37 8008 Oct 18 05:25 8008 Oct 22 15:41 8008 Oct 25 17:41 8008 Oct 25 23:36 8008 Nov 02 20:07 8008 Nov 05 04:23 8008 Nov 13 17:12 8008 Nov 14 05:08	0°M. 0°M.53'49 7°M.35'01 14°M.38'19 13°M.09'28 10°M.33'02 8°M.22'15 8°M.11'45 4°M.01'45 3°M.44'27 7°M.50'57 8°M.20'23	0.58076 AU -5°08'39 5°07'37
evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	8007 Oct 17 07:14 8007 Oct 21 18:48 8007 Oct 31 05:03 8007 Nov 07 02:11 8007 Nov 09 07:40 8007 Nov 10 21:23 8007 Nov 14 01:57 8007 Nov 14 09:09 8007 Nov 21 18:29 8007 Nov 23 23:42 8007 Nov 28 08:06 8007 Dec 01 11:40 8007 Dec 05 17:03	26°M.18'34 0° × 27'45 1° × 26'32 30°RM 28°M.49'13 26°M.13'34 25°M.58'54 21°M.30'27 21°M.11'52 22°M.27'07 24°M.54'32 0° × 2	0.60141 AU -4°14'44 4°12'38	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	8008 Sep 21 09:17 8008 Sep 22 02:12 8008 Sep 28 03:12 8008 Oct 12 01:37 8008 Oct 18 05:25 8008 Oct 22 15:41 8008 Oct 25 17:41 8008 Oct 25 23:36 8008 Nov 02 20:07 8008 Nov 05 04:23 8008 Nov 13 17:12 8008 Nov 14 05:08 8008 Nov 27 23:15 8008 Nov 30 00:48	0°M. 0°M.53'49 7°M.35'01 14°M.38'19 13°M.09'28 10°M.33'02 8°M.22'15 8°M.11'45 4°M.01'45 3°M.44'27 7°M.50'57 8°M.20'23 0° ✓ 4° ✓ 100'26	0.58076 AU -5°08'39 5°07'37 18°45'29
evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	8007 Oct 17 07:14 8007 Oct 21 18:48 8007 Oct 31 05:03 8007 Nov 07 02:11 8007 Nov 09 07:40 8007 Nov 10 21:23 8007 Nov 14 01:57 8007 Nov 14 09:09 8007 Nov 21 18:29 8007 Nov 23 23:42 8007 Nov 28 08:06 8007 Dec 01 11:40 8007 Dec 05 17:03 8007 Dec 17 04:27	26°M.18'34 0°\$\tilde{\sigma}\) 3°\$\tilde{\sigma}\) 26'32 30°RM 28°M.49'13 26°M.13'34 25°M.58'54 21°M.30'27 21°M.11'52 22°M.27'07 24°M.54'32 0°\$\tilde{\sigma}\)	0.60141 AU -4°14'44 4°12'38 18°07'17	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	8008 Sep 21 09:17 8008 Sep 22 02:12 8008 Sep 28 03:12 8008 Oct 12 01:37 8008 Oct 18 05:25 8008 Oct 22 15:41 8008 Oct 25 17:41 8008 Oct 25 23:36 8008 Nov 02 20:07 8008 Nov 05 04:23 8008 Nov 13 17:12 8008 Nov 14 05:08 8008 Nov 27 23:15	0°M. 0°M.53'49 7°M.35'01 14°M.38'19 13°M.09'28 10°M.33'02 8°M.22'15 8°M.11'45 4°M.01'45 3°M.44'27 7°M.50'57 8°M.20'23 0° ✓	0.58076 AU -5°08'39 5°07'37 18°45'29

Double diet	8008 Dec 13 16:35	0°궁 3°궁45'32	1 20540 ATT	max. Earth dist.	8009 Nov 28 01:08	15° ₹ 58'43 22° ₹ 48'55	1.37399 AU
max. Earth dist.	8008 Dec 15 19:13	9° る 23'24	1.39540 AU	evening rise	8009 Dec 01 19:02	0° る 01'00	
desc. node	8008 Dec 19 01:10	9° ろ 23°24		desc. node	8009 Dec 05 22:12 8009 Dec 05 21:58	0. 오 01.00	
evening rise	8008 Dec 19 19:09 8008 Dec 31 21:43	10 3 3949 0° ≈			8009 Dec 03 21:38 8009 Dec 25 17:08	0°≈	
	8009 Jan 23 21:27	0 ≈ 0° ∺		evening max el	8010 Jan 06 10:00	0 ∞ 13°≈45'46	25°26'05
evening max el	8009 Jan 23 20:47	29°≈58'22	24°11'05	retrograde	8010 Jan 18 14:02	13 ≈43 40 20°≈46'05	23 20 03
retrograde	8009 Jan 23 20:47 8009 Feb 04 01:58	6° ₩ 33'23	24 11 03	evening set	8010 Jan 24 10:50	20 ≈40 03 18°≈20'42	
evening set	8009 Feb 09 09:54	4° ₩ 20'07		asc. node	8010 Jan 28 01:24	14°≈30'49	
asc. node	8009 Feb 10 04:19	3°) (38'13		min. Earth dist.	8010 Jan 28 20:22	13° ≈ 31'10	0.67446 AU
	8009 Feb 13 07:24	30°R≈		inferior conj	8010 Jan 30 02:41	11° ≈ 53'35	0°40'37
min. Earth dist.	8009 Feb 14 02:40	28° ≈ 55'55	0.68106 AU	minimum elong	8010 Jan 30 01:42	11° ≈ 56'47	0°40'20
inferior conj	8009 Feb 14 21:37	27° ≈ 51'57	1°30'06	morning rise	8010 Feb 04 16:54	5° ≈ 59'35	
minimum elong	8009 Feb 14 19:44	27° ≈ 58'17	1°29'30	direct	8010 Feb 08 03:12	4° ≈ 51'59	
morning rise	8009 Feb 20 05:38	21° ≈ 49'54		morning max el	8010 Feb 15 03:30	8° ≈ 44'16	19°14'47
direct	8009 Feb 24 04:00	20° ≈ 21′50		greatest brilliancy	8010 Feb 28 08:00	26° ≈ 17'35	-0.7m
morning max el	8009 Mar 03 22:46	24° ≈ 46′21	20°16'37		8010 Mar 02 18:52	0° ∀	
	8009 Mar 08 13:06	0° ℋ		desc. node	8010 Mar 03 21:40	1°) (42′03	
desc. node	8009 Mar 17 00:44	11° ∺ 36'48		morning set	8010 Mar 10 23:52	12°) 36′28	
	8009 Mar 29 07:45	$0^{\circ}\mathbf{\Upsilon}$			8010 Mar 22 04:03	0° Υ	
morning set	8009 Mar 31 23:39	4° Υ 05'51		max. Earth dist.	8010 Mar 24 09:10	3° Y 28'46	1.44991 AU
max. Earth dist.	8009 Apr 10 18:21	19° Ƴ 28'50	1.43781 AU				
	0000 1 16 10 00	200001 (171	2011114	superior conj	8010 Mar 27 14:50	8°Υ35'56	
superior conj	8009 Apr 16 19:03	29°Υ16'51		minimum elong	8010 Mar 27 09:18	8° Y 13'56	2°05'21
minimum elong	8009 Apr 16 20:25	29° Y 22'30	2°11'17		8010 Apr 09 20:10	0°8	
avanina riaa	8009 Apr 17 05:30	0° と 20° と 51'14		evening rise	8010 Apr 11 01:24	2°800'36 25°850'35	
evening rise	8009 Apr 29 11:51 8009 May 04 18:33	0° Ⅱ		asc. node	8010 Apr 26 00:22 8010 Apr 29 07:15	0°II	
asc. node	8009 May 04 18.33 8009 May 09 03:17	0 Π 7°Π17'04		evening max el	8010 Apr 30 10:32	0 H 1°H12'27	18°22'45
evening max el	8009 May 16 21:31	17° Ⅱ 46′28	18°06'43	retrograde	8010 May 06 20:38	4° ∏ 39'49	10 22 43
retrograde	8009 May 23 07:50	21° I 107'06	10 00 15	evening set	8010 May 09 22:06	3° П 48'16	
evening set	8009 May 26 02:08	20° I I28'57		evening sec	8010 May 14 07:29	30°R₩	
inferior conj	8009 Jun 01 09:08	15° Ⅱ 19'33	2°51'42	inferior conj	8010 May 15 18:21	28° 8 20'47	3°16'54
minimum elong	8009 Jun 01 11:43	15° Ⅱ 12'48	2°51'04	minimum elong	8010 May 15 19:40	28° 8 16'57	3°16'39
min. Earth dist.	8009 Jun 04 07:09	12° Ⅱ 18'13	0.62273 AU	min. Earth dist.	8010 May 18 01:58	25° 8 39'51	0.64297 AU
morning rise	8009 Jun 07 19:29	9° Ⅱ 13'54		morning rise	8010 May 21 16:17	22° 8 06'17	
desc. node	8009 Jun 13 00:18	6° Ⅱ 54'11		direct	8010 May 28 09:24	19° 8 23'12	
direct	8009 Jun 14 13:47	6° Ⅱ 46'34		desc. node	8010 May 30 21:18	19° 8 43'11	
morning max el	8009 Jun 28 16:29	14° Ⅱ 48′28	27°54'44	morning max el	8010 Jun 11 01:55	27° 8 22'11	27°30'00
	8009 Jul 11 00:08	0∘ ©			8010 Jun 13 13:27	Π $^{\circ}0$	
	8009 Jul 28 20:31	0 $^{\circ}\Omega$			8010 Jul 04 16:57	0	
morning set	8009 Aug 01 13:20	7° Ω 20'25		morning set	8010 Jul 16 05:49	21° © 01'59	
asc. node	8009 Aug 05 02:35	14° £ 43'32	1.00150.434	P 4 P .	8010 Jul 20 16:17	0°N	
max. Earth dist.	8009 Aug 07 01:09	18° Ω 52'38	1.32178 AU	max. Earth dist.	8010 Jul 21 00:38	0° Ω 43'23	1.33114 AU
	2000 4 00 02-27	23° Ω 20'25	0920140	asc. node	8010 Jul 22 23:35	4° Ω 49'35	
superior conj minimum elong	8009 Aug 09 02:27 8009 Aug 09 00:45	23° Ω 11'07		superior conj	8010 Jul 24 07:43	7° Ω 40'23	0°13'35
minimum clong	8009 Aug 12 03:23	0° m	0 39 23	minimum elong	8010 Jul 24 07:43 8010 Jul 24 07:03	7° Ω 36'48	0°13'19
evening rise	8009 Aug 15 22:36	8° mp 15'19		behind sun begin	8010 Jul 24 04:00	7° Ω 20'35	0 13 17
* · · · · · · · · · · · · · · · · · · ·	8009 Aug 27 03:26	0∘ ⊽		behind sun end	8010 Jul 24 10:05	7° £ 53′03	
desc. node	8009 Sep 08 23:18	17° £ 25'57		evening rise	8010 Jul 31 10:03	22° Ω 54'34	
evening max el	8009 Sep 09 16:25	18° ჲ 08'04	24°12'27		8010 Aug 03 19:57	0° m	
retrograde	8009 Sep 23 10:08	25° ≏ 01′23		evening max el	8010 Aug 22 04:32	28° m 21'13	22°33'09
evening set	8009 Sep 28 07:57	24° ≏ 08'18			8010 Aug 23 23:44	0∘ ⊽	
min. Earth dist.	8009 Oct 04 03:14	21° ≏ 14'23	0.56281 AU	desc. node	8010 Aug 26 20:23	2° ჲ 08'36	
inferior conj	8009 Oct 06 13:12	19° ≙ 44'40	-5°33'27	retrograde	8010 Sep 04 06:09	4° ≙ 52'09	
minimum elong	8009 Oct 06 13:43	19° ≏ 43'51	5°33'24	evening set	8010 Sep 07 15:41	4° ≏ 26'46	
morning rise	8009 Oct 14 21:37	15° ≏ 44'55		min. Earth dist.	8010 Sep 15 11:37		0.55065 AU
direct	8009 Oct 17 14:11	15° £ 25'54	1004	inferior conj	8010 Sep 16 14:28	0° £ 21'07	
morning max el	8009 Oct 27 11:50	20° £ 05'51	19°45'50	minimum elong	8010 Sep 16 07:40	0° £ 30'46	5°09'32
asc. node	8009 Nov 01 02:09	25° Ω 23'40			8010 Sep 17 05:24	30°₹₩	
	8009 Nov 04 05:01	0°M		morning rise	8010 Sep 25 01:32	26° m 33'00	
morning set	8009 Nov 14 04:33	18° M .32'52 0° ∡ 7		direct	8010 Sep 28 06:20	26° Mp 09'42 0° <u> </u>	
	8009 Nov 19 20:04	υ χ .		morning max el	8010 Oct 07 22:56 8010 Oct 09 17:29	0° 12 1° 1 31'48	21°08'16
superior conj	8009 Nov 22 00:37	4° ₹ 22'39	1°29'49	asc. node	8010 Oct 09 17:29 8010 Oct 18 23:08	13° £ 21'02	21 00 10
minimum elong	8009 Nov 22 00:37 8009 Nov 22 03:03	4°×72239 4°×734'41		asc. Houc	8010 Oct 18 23:08 8010 Oct 27 22:44	0°M	
ciong	5507 1107 22 UJ.UJ	1 7 7 1	1 27 77		3010 300 27 22.74	∪ IIV	

morning set	8010 Oct 29 12:57	3°M16'44		morning rise	8011 Sep 04 18:43	6° m 35'49	
	0010 N 05 20-50	100 m 25127	1020114	direct	8011 Sep 08 14:17	6° Mp 04'36 12° Mp 13'44	22949100
superior conj	8010 Nov 05 20:50	18°M35'37	1°39'14	morning max el	8011 Sep 21 11:54	~	22°48'00
minimum elong	8010 Nov 05 21:56	18°M41'20	1°39'18		8011 Oct 04 16:56	0∘ ʊ	
max. Earth dist.	8010 Nov 10 11:03	27°M53'30	1.35442 AU	asc. node	8011 Oct 05 20:07	1° £ 59'52	
	8010 Nov 11 12:49	0° ⊀ 7		morning set	8011 Oct 13 23:54	18° ≏ 06'02	
evening rise	8010 Nov 14 13:02	5° 🖈 45'57			8011 Oct 19 13:11	0°M₊	
desc. node	8010 Nov 22 19:16	20° ₹ 27'54			0011 0 4 21 00 20	20 m 00105	1041120
	8010 Nov 28 16:54	0°る	26020150	superior conj	8011 Oct 21 00:29	3°M09'05	1°41'29
evening max el	8010 Dec 19 23:09	27° る 30'17	26°28'50	minimum elong	8011 Oct 21 00:17	3°M08'01	1°41'34
. 1	8010 Dec 22 17:35	0°≈ 4°≈ • 45!27		max. Earth dist.	8011 Oct 24 04:24	9°M49'28	1.33835 AU
retrograde	8011 Jan 01 20:52	4°≈45'27		evening rise	8011 Oct 28 21:18	19°M21'12	
evening set	8011 Jan 08 06:03	2°≈11'26			8011 Nov 03 12:34	0° ⊀ 7	
i Palita	8011 Jan 10 13:35	30°R₹	0.66411.411	desc. node	8011 Nov 09 16:19	10° ₹ 38'31	
min. Earth dist.	8011 Jan 12 09:08	25°る50'47	0.66411 AU		8011 Nov 22 19:12	0°る 11°る03'03	27912105
inferior conj	8011 Jan 14 03:02	25°る3040 25°る49'20		evening max el	8011 Dec 02 12:00		27°12'05
minimum elong	8011 Jan 14 03:28		0°15'59	retrograde	8011 Dec 15 21:58	18° る 23'32	
transit middle	8011 Jan 14 03:28	25° る 49'20	0°15'59	evening set	8011 Dec 22 17:24	15°る46'50	0.65015 ATT
transit begin	8011 Jan 14 03:10	25° る 50'16		min. Earth dist.	8011 Dec 26 14:45	12°る06'10	
transit end	8011 Jan 14 03:47	25° る 48'25		inferior conj	8011 Dec 28 20:24	9° る 38'02	
asc. node	8011 Jan 14 22:27	24°る52'36		minimum elong	8011 Dec 28 22:47	9° る 31'26	1°18'38
morning rise	8011 Jan 20 01:43	20°る06'59		asc. node	8012 Jan 01 19:29	5°る40'50	
direct	8011 Jan 23 01:28	19°る16'48	10020100	morning rise	8012 Jan 04 05:33	4°る07'16 3°る30'45	
morning max el	8011 Jan 29 15:06	22°₹49'20	18°29'00	direct	8012 Jan 06 20:39	6°る54'32	17050155
. ,	8011 Feb 04 11:31	0°≈		morning max el	8012 Jan 13 07:03		1/-39'33
morning set desc. node	8011 Feb 18 22:00 8011 Feb 18 18:37	22°≈17'27 22°≈04'05			8012 Jan 28 23:49 8012 Jan 31 01:44	0°≈ 3°≈26'40	
desc. node	8011 Feb 18 18.37 8011 Feb 23 18:47	22 ≈ 04 03 0° ∀		morning set desc. node	8012 Feb 05 15:35	3 ≈20 40 12°≈37'38	
	8011 100 23 18.47	υχ		desc. Hode	8012 Feb 05 15.55	12 🗪 3 / 3 0	
superior conj	8011 Mar 06 20:14	17°) 22'42	-1°39'48	superior conj	8012 Feb 14 05:59	26° ≈ 28'48	-0°59'14
minimum elong	8011 Mar 06 10:37	16°) (45'07		minimum elong	8012 Feb 13 23:06	26°≈01'26	
max. Earth dist.	8011 Mar 07 03:59	17° ¥ 53'05	1.45493 AU	viong	8012 Feb 16 11:20	0° ∀	0 00 10
	8011 Mar 14 21:30	0°Υ		max. Earth dist.	8012 Feb 17 23:28	2°) 22'20	1.45251 AU
evening rise	8011 Mar 22 15:27	12° Y 13′06		evening rise	8012 Mar 01 09:57	21°) 42'27	
greatest brilliancy	8011 Apr 01 00:15	27° Y ′00′17	-0.8m	<i>8</i> 11	8012 Mar 06 19:28	$_{0}^{\circ}\gamma$	
· ·	8011 Apr 02 22:40	0°8		greatest brilliancy	8012 Mar 15 09:24	12° Y 57'30	-0.6m
asc. node	8011 Apr 12 21:26	13° 8 43'55		evening max el	8012 Mar 27 02:43	28° Y 22'28	19°46'47
evening max el	8011 Apr 13 20:54	14° 8 45'59	18°56'33		8012 Mar 28 20:19	9° 8	
retrograde	8011 Apr 20 15:34	18° 8 32'54		asc. node	8012 Mar 29 18:30	0° 8 44'23	
evening set	8011 Apr 24 00:24	17° 8 27'13		retrograde	8012 Apr 03 13:25	2° 8 39'32	
inferior conj	8011 Apr 29 13:32	11° 8 43'20	3°24'18	evening set	8012 Apr 07 06:26	1° 8 19'12	
minimum elong	8011 Apr 29 13:31	11° 8 43'26	3°24'12		8012 Apr 08 19:16	30° ₹ Υ	
min. Earth dist.	8011 May 01 05:44	9° 8 36'42	0.65963 AU	inferior conj	8012 Apr 12 15:30	25° Y 20′52	3°17'40
morning rise	8011 May 05 02:08	5° 8 25'38		minimum elong	8012 Apr 12 14:21	25° Y 24'42	3°17'30
direct	8011 May 11 12:09	2° 8 38'50		min. Earth dist.	8012 Apr 13 16:58	23° Y 55'49	0.67206 AU
desc. node	8011 May 17 18:16	4° 8 44'26		morning rise	8012 Apr 17 21:59	19° Ƴ 03'26	
morning max el	8011 May 24 12:29	10° 8 22'40	26°34'53	direct	8012 Apr 23 21:01	16° Y 23'53	
	8011 Jun 09 00:39	0° I I		desc. node	8012 May 03 15:14	21° Y 25'40	
	8011 Jun 27 05:40	0.20		morning max el	8012 May 05 22:08	23° Y 37'10	25°18'15
morning set	8011 Jun 29 10:59	4°508'29			8012 May 11 14:17	0° 8	
max. Earth dist.	8011 Jul 03 13:54	12°906'47	1.34528 AU		8012 Jun 01 09:46	0°II	
	0011 1 1 00 06 26	210627126	0015155	morning set	8012 Jun 11 00:32	16° Ⅱ 27'36	1.26200 444
superior conj	8011 Jul 08 06:36	21°537'36		max. Earth dist.	8012 Jun 14 16:15	23° I I10'16	1.36380 AU
minimum elong	8011 Jul 08 07:30	21°542'13	0°15′52		8012 Jun 18 06:15	0ං වෙ	
behind sun begin behind sun end	8011 Jul 08 06:34 8011 Jul 08 08:25	21° © 37'27 21° © 46'59		aumariar aani	8012 Jun 20 20:16	5° © 04'12	0947122
asc. node	8011 Jul 08 08:25 8011 Jul 09 20:35	21 \$240 39 24°\$54'53		superior conj minimum elong	8012 Jun 20 20:16 8012 Jun 20 23:07	5°90412	
asc. nouc	8011 Jul 12 06:47	24 \$34 33 0°Ω		asc. node	8012 Jun 25 17:36	14°955'03	0 70 20
evening rise	8011 Jul 12 00:47 8011 Jul 15 19:29	7° Ω 24'14		evening rise	8012 Jun 29 00:40	21°937'18	
2.4	8011 Jul 27 23:38	0° Mp		5. J	8012 Jul 03 05:53	0°Ω	
evening max el	8011 Aug 04 00:29	8° Mp 51'03	21°01'22	evening max el	8012 Jul 16 09:28	20° Ω 01'37	19°46'54
desc. node	8011 Aug 13 17:26	14° m 30'12		retrograde	8012 Jul 26 11:01	24° Ω 59'17	
retrograde	8011 Aug 15 17:20	14° m) 40'40		evening set	8012 Jul 28 07:37	24° Ω 49'53	
evening set	8011 Aug 18 00:55	14° m) 28'41		desc. node	8012 Jul 30 14:28	24°Ω14'21	
inferior conj	8011 Aug 27 07:02	10° mp 31'32	-3°53'19	inferior conj	8012 Aug 06 05:27	20° Ω 48'07	-2°01'00
minimum elong	8011 Aug 26 21:37	10° m 44'51		minimum elong	8012 Aug 05 23:54	20° Ω 56'41	1°59'01
min. Earth dist.	8011 Aug 27 20:40		0.54700 AU	min. Earth dist.	8012 Aug 08 08:23	19° Ω 29'38	0.55294 AU

morning rise	8012 Aug 14 14:07	16° Ω 24'56		minimum elong	8013 Jul 17 21:02	1° Ω 37'28	0°07'25
direct	8012 Aug 19 04:19	15° Ω 38′21		transit middle	8013 Jul 17 21:02	1° Ω 37′28	0°07'25
morning max el	8012 Sep 02 00:43	22° Ω 30'41	24°33'43	transit begin	8013 Jul 17 17:44	1° Ω 43'22	
	8012 Sep 08 16:08	0° m		transit end	8013 Jul 18 00:21	1° Ω 31'33	
asc. node	8012 Sep 21 17:05	21°M) 10'08			8013 Jul 20 03:36	30°Rூ	
	8012 Sep 26 02:19	0∘ <u>⊽</u>		min. Earth dist.	8013 Jul 20 23:46	29° © 24'59	0.56742 AU
morning set	8012 Sep 27 11:39	° 		morning rise	8013 Jul 25 21:06	26°537'14	0.007.2110
morning sec	0012 Sep 27 11.57	2 -33 31		direct	8013 Jul 31 07:59	25°\$25'56	
gunariar agni	8012 Oct 04 08:58	17° £ 55'04	1°37'25	direct	8013 Aug 11 08:52	0°Ω	
superior conj					•		26000117
minimum elong	8012 Oct 04 07:42	17° £ 48'10	1°37'24	morning max el	8013 Aug 14 14:42	2° Ω 50′16	26°09'17
max. Earth dist.	8012 Oct 06 05:56	21° ≏ 59'28	1.32661 AU		8013 Sep 02 23:52	0° m	
	8012 Oct 10 00:21	0° M ,		asc. node	8013 Sep 08 14:04	10° Mp 42'59	
evening rise	8012 Oct 11 16:14	3°M25'30		morning set	8013 Sep 11 22:32	17° m 40'44	
	8012 Oct 26 06:55	0° ∡ ¹			8013 Sep 17 14:04	0∘ ত	
desc. node	8012 Oct 26 13:22	0° х 25′44					
evening max el	8012 Nov 13 23:22	24° ⋌ 13'24	27°29'00	superior conj	8013 Sep 18 20:02	2° £ 45'50	1°27'42
	8012 Nov 21 19:26	0°రె		minimum elong	8013 Sep 18 18:04	2° ≏ 34'56	1°27'29
retrograde	8012 Nov 27 16:37	1° る 31'34		max. Earth dist.	8013 Sep 19 13:34	4° £ 22'47	1.31942 AU
retrograde	8012 Dec 03 04:47	30°R. ✓		evening rise	8013 Sep 25 18:47	17° Ω 49'34	1.517 12 110
evening set	8012 Dec 03 04:47	29°×700'38		evening rise	8013 Oct 01 20:53	0°M	
min. Earth dist.	8012 Dec 04 18:14 8012 Dec 08 11:25		0.62202.411	desc. node	8013 Oct 01 20:33 8013 Oct 13 10:27	19°M39'20	
		25° 🖈 50'48	0.63303 AU	desc. node			
inferior conj	8012 Dec 11 04:09	23°×709'46			8013 Oct 21 00:46	0° ∡ 7	
minimum elong	8012 Dec 11 08:47	22° ≯ 58'12	2°25'59	evening max el	8013 Oct 27 06:49	6° ∡ °47′22	27°14'06
morning rise	8012 Dec 18 01:15	17° ∡ ¹54'44		retrograde	8013 Nov 10 03:32	13° ≯ 59'15	
asc. node	8012 Dec 18 16:30	17° ∡ ⁴42'23		evening set	8013 Nov 17 04:57	11° ∡ ⁴44'23	
direct	8012 Dec 20 10:03	17° ∡ ¹27'57		min. Earth dist.	8013 Nov 20 21:33	8° ₮ 58'24	0.61341 AU
morning max el	8012 Dec 27 00:26	20° ҂ 52′27	17°48'10	inferior conj	8013 Nov 23 23:05	6° ∡ 16'43	-3°37'05
	8013 Jan 02 22:12	0° ට		minimum elong	8013 Nov 24 05:43	6° ∡ ¹02'06	3°34'48
morning set	8013 Jan 12 07:28	15° ප 51'41		morning rise	8013 Dec 01 08:43	1° ∡ ¹20'44	
	8013 Jan 20 13:07	0° ≈		direct	8013 Dec 03 14:14	1° ∡ ¹00'02	
desc. node	8013 Jan 22 12:35	3°≈19'00		asc. node	8013 Dec 05 13:33	1° √ 16'48	
desc. node	0013 0411 22 12.50	3 10 13 00		morning max el	8013 Dec 10 15:55	4° ₹ ³33'36	17°54'39
superior conj	8013 Jan 24 12:18	6° ≈ 36'54	-0°14'26	morning set	8013 Dec 26 08:27	29° х 11'02	17 3137
minimum elong	8013 Jan 24 10:46	6°≈30'37		morning set	8013 Dec 26 19:12	0°る	
•			0 14 03		8013 Dec 20 19.12	0.0	
behind sun begin	8013 Jan 24 06:10	6°≈11'36			00141 05 20 17	17075004	0026102
behind sun end	8013 Jan 24 15:23	6°≈49'36	1 44205 411	superior conj	8014 Jan 05 20:17	17°る58'24	0°26'02
max. Earth dist.	8013 Jan 30 17:16	16°≈41'24	1.44305 AU	minimum elong	8014 Jan 05 22:28	18° る 07'52	0°25'50
	8013 Feb 08 04:55	0°) (desc. node	8014 Jan 09 09:35	24° る 03'46	
evening rise	8013 Feb 08 21:02	1°) €02'04			8014 Jan 12 22:56	0° ≈	
	8013 Feb 28 11:02	0 ° $\mathbf{\Upsilon}$		max. Earth dist.	8014 Jan 13 07:23		1.42755 AU
evening max el	8013 Mar 10 03:12	12° Ƴ 01′00	20°50'58	evening rise	8014 Jan 19 15:59	10° ≈ 48'31	
asc. node	8013 Mar 16 15:33	16° Ƴ 38'13			8014 Feb 01 07:22	0° ∀	
retrograde	8013 Mar 18 11:53	16° Ƴ 55'44		evening max el	8014 Feb 20 22:30	25°) 41′26	22°05'29
evening set	8013 Mar 22 14:15	15° Ƴ 20'19			8014 Feb 26 04:59	$0^{\circ}\Upsilon$	
inferior conj	8013 Mar 27 21:44	9° Ƴ 09'40	2°59'36	retrograde	8014 Mar 02 09:08	1° Y 17'13	
minimum elong	8013 Mar 27 19:49	9° Ƴ 16'16	2°59'13	asc. node	8014 Mar 03 12:38	1° Y 10'32	
min. Earth dist.	8013 Mar 28 09:35	8° Ƴ 28'47	0.68011 AU		8014 Mar 06 04:30	30°R) €	
morning rise	8013 Apr 02 01:10	2° Υ 54'48		evening set	8014 Mar 06 22:11	29° ¥ 26'31	
direct	8013 Apr 07 11:03	0° Υ 30'49		inferior conj	8014 Mar 12 06:04	23° X 06'17	2°31'43
		6°Υ59'05	22950121	,		23°) 14'08	
morning max el	8013 Apr 18 07:04		23°50'21	minimum elong	8014 Mar 12 03:48		2°31'08
desc. node	8013 Apr 20 12:14	9° Υ 20'14		min. Earth dist.	8014 Mar 12 05:22	23°) (08'42	0.68375 AU
_	8013 May 06 04:43	0° 8		morning rise	8014 Mar 17 09:15	16° ¥ 55'27	
morning set	8013 May 23 17:04	27° 8 45'12		direct	8014 Mar 22 05:05	14° ¥ 52′13	
	8013 May 25 00:24	$\Pi^{\circ}0$		morning max el	8014 Mar 31 18:01	20° ∺ 28'40	22°21'11
max. Earth dist.	8013 May 27 12:15	4° Ⅱ 21'55	1.38550 AU	desc. node	8014 Apr 07 09:12	28°) €07'45	
					8014 Apr 08 20:05	0 ° Υ	
superior conj	8013 Jun 03 21:12	17° Ⅱ 51'41	-1°18'41		8014 Apr 29 10:11	0° 8	
minimum elong	8013 Jun 04 01:59	18° Ⅱ 14'19	1°18'06	morning set	8014 May 04 07:24	7° 8 48'46	
-	8013 Jun 10 04:13	0ಂತ		max. Earth dist.	8014 May 09 09:57		1.40792 AU
evening rise	8013 Jun 12 22:56	5° 5 26'46			•		
asc. node	8013 Jun 12 14:37	4°5946'03		superior conj	8014 May 17 05:04	29° 8 50'08	-1°46'31
	8013 Jun 27 11:46	0°N		minimum elong	8014 May 17 10:50	0° П 15'57	
evening max el	8013 Jun 29 06:52	1° Ω 56'31	18°52'55	Violig	8014 May 17 07:16	0°П	
retrograde	8013 Jul	6° Ω 07'42	10 22 22	evening rise	8014 May 17 07:10 8014 May 27 10:59	18° ∏ 44'38	
•				=	-		
evening set	8013 Jul 09 17:38	5° Ω 54'48		asc. node	8014 May 30 11:39	24° Ⅱ 23'39	
desc. node	8013 Jul 17 11:33	1° £ 54'22	0007125		8014 Jun 02 13:43	0°95	10010107
inferior conj	8013 Jul 17 21:21	1° Ω 36'55	-0~07°25	evening max el	8014 Jun 12 13:16	14° © 28'58	18°19'27

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Inferior component Sol 1 Am 20 11 of 19 19 19 19 19 19 19 1	retrograde	8014 Jun 19 20:25	18° © 08'19		retrograde	8015 Jun 02 15:45	0°952'14	
minimandiandiant 8014 M a 20 913 st 1920 978 by 1921 st control of the section of	evening set	8014 Jun 22 03:04	17° © 47'49		evening set	8015 Jun 05 05:48		
min Earth dist. 8014 Jul 04 20:50 1098199 0 (2878) AU (2014) minimum close conde (2014) 8014 Jul 04 60:56 9781040 (2014) minimum close (2014) 8014 Jul 04 60:56 9781040 (2014) minimum close (2014) 8014 Jul 04 60:56 9781040 (2014) minimum close (2014) 8014 Jul 04 60:56 9780040 (2014) minimum close (2014) 818 Jul 04 (2014) 988730 (2014) control (2014) 818 Jul 04 (2014) 978004 (2014	inferior conj	8014 Jun 29 11:01	13° © 09'20	1°24'07		8015 Jun 06 00:42	30°R Ⅱ	
desc node 8014 at 0 40 827 PS93 148 min Earth dird. 8015 at 0 15 008 293 178 148 port of the stand of	minimum elong	8014 Jun 29 13:37	13° © 03'53	1°23'07	inferior conj	8015 Jun 11 20:44	25° Ⅱ 22'31	2°27'17
moning mixed molecular molecular moning mixed molecular mole	min. Earth dist.	8014 Jul 02 20:36	10° © 19'59	0.58758 AU	minimum elong	8015 Jun 11 23:46	25° Ⅱ 15′10	2°26'23
direct 8014 Jul 27 10.23 1958/259 Jul 27 18.00 desc. mode 8015 Jul 27 10.00 72 17.03	desc. node	8014 Jul 04 08:37	9° © 11'48		min. Earth dist.	8015 Jun 15 01:08	22° Ⅱ 18'41	0.60999 AU
morning mane 9,11 27 10.35 1782,979 2718/85 direct 9,011 40.07 10.11 20.07 10.	morning rise	8014 Jul 06 20:56	7° 5 36'04		morning rise	8015 Jun 18 15:20	19° Ⅲ 25′20	
oc. node 801 Augu 2 1010 0°Q moming maxed 8015 Jul 20 23 125 QFQ CPQ morning set 801 Augu 2 6 0450 0°B morning set 8015 Aug 12 10 657 2°B QFQ PCP MORANGE 20 10 657 2°B PCP SIS Augu 11 10 60 60 10 70 60 70 70 70 70 70 70 70 70 70 70 70 70 70	direct	8014 Jul 13 01:23	5° © 53'50		desc. node	8015 Jun 21 05:39	18° Ⅱ 01'37	
ace nacle 8014 Aug 26 1.04 0°F8 1753 Comming set 8015 Aug 27 0.657 2°P8 1557 morning set 8015 Aug 21 1.10 602 Aug 11 1.10 602 Aug 11 1.10 16 (3.53) 17 (3.53)	morning max el	8014 Jul 27 10:35	13° © 39'31	27°18'58	direct	8015 Jun 25 06:39	17° Ⅱ 12'36	
Substance Subs		8014 Aug 09 11:02	$0^{\circ}\Omega$		morning max el	8015 Jul 09 13:22	25° Ⅱ 11'33	27°52'47
May	asc. node	8014 Aug 26 11:04	0° mp 31'53		•	8015 Jul 13 23:17	0ංම	
moming set May 27 06 57 2*Pi 575 moming set May 28 06 574 1 1 1 1 00 16*Zi 535 1 1 1 1 1 00 16*Zi 535 1 1 1 1 1 1 00 16*Zi 535 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		8014 Aug 26 04:56				8015 Aug 02 21:35	$0^{\circ}\Omega$	
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ain. Earth dist. 9014 Nov 02 20:53 21 PlL 162 5 0.929 9 AU retrograde 8015 Cot 10 13:50 6*PlL 281 1 cornario minimum one 8014 Nov 06 08:47 18 PlL 349 4 2*3813 evening set 8015 Cot 10 13:50 5*PlL 150 1 21 H3339 0.9726 AU morning rise 8014 Nov 13 22:49 14 PlL 1539 4*3813 minimum elong 8015 Cot 18 08:48 8"18323 5*23*21 asc. node 8014 Nov 21 03:50 16 PlL 25*3 minimum elong 8015 Cot 2 10:22 20*Bart 27*2 22*32 asc. node 8014 Nov 24 02:06 17 PlL 20*1 8*205 6*20 16:02 20*Bart 27*2 2*0*Bart 27*2 2*0*Bar	-				evening max ei	-		25'0637
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evening max el 8015 Ian 26 10:40 9° H 8015 Ibe 10 23:26 0° T 17:24 3° 50:37:3 evening max el 8015 Feb 14 03:46 15° H392 408 23° 25' 13 evening rise 8015 Dec 12 17:24 3° 50:30' 15 sec 12 17:25 3° 50:30' 15 sec 12 17:25 3° 50:30' 15 sec 12 17:24 3° 50:30' 15 sec 12 17:24 3° 50:30' 15 sec 12 17:25 3° 50:30	evening rise	8014 Dec 31 05:38	21° る 26'19		minimum elong	8015 Dec 02 07:43	14° ≯ 00'32	1°20'34
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evening set 8015 Feb 19 04:39 13° \$ 3'343' evening max el 8016 Jan 17 03:10 23° \$ 10'07 24° 43'57 min. Earth dist. 8015 Feb 24 02:04 7° \$ 50'07 0.68321 AU retrograde 8016 Jan 28 18:39 29° \$ 57'43 16' 10' 10' 10' 10' 10' 10' 10' 10' 10' 10	retrograde	8015 Feb 14 03:46	15°) 39′20		desc. node	8015 Dec 14 03:36	5° ⋜ 30'15	
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minferior conj minimum elong minimum elo	evening set	8015 Feb 19 04:39	13°) €33'43		evening max el	8016 Jan 17 03:10	23° ≈ 10′07	24°43'57
inferior conj 8015 Feb 24 14:34 7° €07'13 1°55'00 evening set 8016 Feb 03 08:06 27°≈38'41 Port (a) (a) (b) (b) (b) (b) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	min. Earth dist.	8015 Feb 24 02:04	7° ¥ 50'07	0.68321 AU	retrograde	8016 Jan 28 18:39	29° ≈ 57'43	
morning rise 8015 Mar 01 20:08 1° ★01'46 min. Earth dist. 8016 Feb 07 21:33 22°≈29'20 0.67871 AU direct 8015 Mar 06 02:03 29°≈21'08 minimum elong 8016 Feb 08 21:26 21°≈10'10 1°10'04 direct 8015 Mar 06 02:03 29°≈21'08 minimum elong 8016 Feb 08 19:52 21°≈15'22 1°09'34 morning max el 8015 Mar 08 21:44 0° ₩ morning rise 8016 Feb 14 07:49 15°≈11'28 1°09'34 morning max el 8015 Mar 14 10:35 4° ₩09'05 20°58'44 direct 8016 Feb 18 00:47 13°≈52'38 1°09'34 desc. node 8015 Mar 25 06:10 17° ₩33'10 morning max el 8016 Feb 25 10:55 18°≈02'04 19°48'27 morning set 8015 Apr 13 19:00 16° №39'46 greatest brilliancy 8016 Mar 06 00:13 0° ₩ max. Earth dist. 8015 Apr 21 14:07 29° №06'01 1.42815 AU desc. node 8016 Mar 11 03:07 7° ¥26'31 superior conj 8015 Apr 28 15:03 10° ₺47'58 -2°06'06 max. Earth dist. 8016 Apr 03 01:02 12° №3'	inferior conj	8015 Feb 24 14:34	7° ₩ 07'13	1°55'00	evening set	8016 Feb 03 08:06	27° ≈ 38'41	
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evening rise 8017 Apr 02 14:31 25 Y 4740 evening rise 8018 Mar 13 19:15 3 Y 39 03								
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greatest brilliancy	8018 Mar 25 07:37	21° Y 30'34	-0.7m	minimum elong	8019 Feb 05 05:22	17° ≈ 40'38	0°39'23
	8018 Mar 31 02:07	0°8		max. Earth dist.	8019 Feb 10 08:25	25°≈51'42	1.44934 AU
evening max el	8018 Apr 06 11:01	7° 8 53'31	19°16'04		8019 Feb 12 23:30	0° ₩	
asc. node	8018 Apr 06 23:53	8° 8 25'17		evening rise	8019 Feb 21 08:53	13°) €00'38	
retrograde	8018 Apr 13 11:31	11° 8 51'36			8019 Mar 04 13:57	0 ° $\mathbf{\Upsilon}$	
evening set	8018 Apr 16 23:47	10° 8 39'40		greatest brilliancy	8019 Mar 08 02:57	5° Ƴ 13'35	-0.6m
inferior conj	8018 Apr 22 10:53	4° 8 49'33	3°22'59	evening max el	8019 Mar 20 14:41	21° Y 31'46	20°12'31
minimum elong	8018 Apr 22 10:20	4° 8 51'19	3°22'53	asc. node	8019 Mar 24 20:57	25° Ƴ 00'07	
min. Earth dist.	8018 Apr 23 20:41	3° 8 00'05	0.66554 AU	retrograde	8019 Mar 28 09:55	26° Ƴ 03'52	
	8018 Apr 26 08:56	30° ₹Ƴ		evening set	8019 Apr 01 06:51	24° Ƴ 36'55	
morning rise	8018 Apr 27 20:31	28° Ƴ 31'54		inferior conj	8019 Apr 06 14:58	18° Ƴ 32'57	3°11'16
direct	8018 May 04 02:23	25° Ƴ 46'55		minimum elong	8019 Apr 06 13:26	18° Ƴ 38'07	3°11'02
desc. node	8018 May 11 20:38	28° Ƴ 59'28		min. Earth dist.	8019 Apr 07 10:24	17° Ƴ 26'57	0.67605 AU
	8018 May 13 03:21	$6^{\circ}B$		morning rise	8019 Apr 11 19:49	12° Ƴ 16'36	
morning max el	8018 May 16 17:18	3° 8 18'56	26°04'14	direct	8019 Apr 17 13:24	9° Ƴ 43'07	
	8018 Jun 05 23:26	$\Pi^{\circ}0$		desc. node	8019 Apr 28 17:37	16° Ƴ 15'30	
morning set	8018 Jun 21 19:40	26° Ⅱ 49'29		morning max el	8019 Apr 29 02:36	16° Ƴ 38'02	24°41'42
	8018 Jun 23 12:25	0°ම		-	8019 May 10 04:35	0°8	
max. Earth dist.	8018 Jun 25 16:32	4° © 08'59	1.35268 AU		8019 May 29 22:50	$\Pi^{\circ}0$	
				morning set	8019 Jun 04 01:00	8° Ⅱ 44'45	
superior conj	8018 Jul 01 00:43	14° © 45'19	-0°29'07	max. Earth dist.	8019 Jun 07 15:56	15° Ⅱ 14'40	1.37284 AU
minimum elong	8018 Jul 01 02:24	14° © 53'55					
asc. node	8018 Jul 03 23:02	20°546'10		superior conj	8019 Jun 14 09:29	27° Ⅲ 56'59	-1°00'49
	8018 Jul 08 09:53	0°Ω		minimum elong	8019 Jun 14 13:12	28° Ⅲ 15′04	
evening rise	8018 Jul 08 19:30	0° Ω 49'36			8019 Jun 15 10:41	0°9	
<i>8</i>	8018 Jul 26 07:23	0°m∕		asc. node	8019 Jun 20 20:04	10°543'26	
evening max el	8018 Jul 27 03:32	0° mp 51'35	20°27'18	evening rise	8019 Jun 22 22:10	14°954'24	
retrograde	8018 Aug 07 04:35	6° Mp 18'57	20 27 10	evening rise	8019 Jun 30 20:51	0°Ω	
desc. node	8018 Aug 07 19:50	6° Mp 17'56		evening max el	8019 Jul 09 18:01	12° Ω 21'07	19°21'17
evening set	8018 Aug 09 04:49	6° Mp 08'54		retrograde	8019 Jul 19 02:19	16° Ω 58'01	12 2117
inferior conj	8018 Aug 18 09:10	2° m) 11'37	-3°07'56	evening set	8019 Jul 20 23:16	16° Ω 47'41	
minimum elong	8018 Aug 18 00:50	2° m/23'42		desc. node	8019 Jul 25 16:53	15° Ω 01'33	
min. Earth dist.	8018 Aug 19 15:49		0.54840 AU	inferior conj	8019 Jul 29 13:59	12° Ω 39'33	-1°11'10
mm. Bartii dist.	8018 Aug 22 06:54	30°RΩ	0.5 10 10 110	minimum elong	8019 Jul 29 10:49	12° Ω 44'45	
morning rise	8018 Aug 26 20:13	28° Ω 06'36		min. Earth dist.	8019 Aug 01 04:42		0.55822 AU
direct	8018 Aug 30 23:33	27° Ω 29'49		morning rise	8019 Aug 06 19:38	8° Ω 01'16	0.55622 AC
direct	8018 Sep 08 04:53	0° m)		direct	8019 Aug 11 18:28	7° Ω 05'35	
morning max el	8018 Sep 13 08:01	3° Mp 57'42	22022107	morning max el	8019 Aug 25 20:41	14° Ω 12'22	25°16'42
asc. node	8018 Sep 29 22:34	27° Mp 26'11	23 33 07	morning max ci	8019 Sep 07 08:06	0° Mp	23 10 42
asc. node	8018 Oct 01 07:09	0° <u>Ω</u>		asc. node	8019 Sep 16 19:34	16° Mp 47'01	
morning set	8018 Oct 07 07:05	0 — 11° Ω 45'16		morning set	8019 Sep 21 13:41	26° Mp 33'41	
morning set	0010 001 07 02.03	11 =4310		morning set	8019 Sep 23 04:06	ე∘ ი	
superior conj	8018 Oct 14 00:50	26° £ 45'21	1°40'30		8019 Sep 23 04.00	0 ==	
minimum elong	8018 Oct 14 00:08	26° - 41'38	1°40'32	superior conj	8019 Sep 28 10:39	11° ≏ 33'58	1°33'58
minimum clong	8018 Oct 14 00:08 8018 Oct 15 13:03	0°M	1 40 32	minimum elong	8019 Sep 28 10:39 8019 Sep 28 09:02	11° ⊆ 35'36	1°33'51
max. Earth dist.	8018 Oct 16 15:11	2°M19'05	1.33285 AU	max. Earth dist.	8019 Sep 29 19:46	14° £ 35'36	1.32300 AU
evening rise	8018 Oct 10 15:11	12°MJ38'13	1.33263 AU	evening rise	8019 Oct 05 13:45	26° £ 51'28	1.32300 AO
evening rise	8018 Oct 30 22:33	0° ₹		evening rise	8019 Oct 03 13:43 8019 Oct 07 02:40	0°M	
desc. node	8018 Nov 03 18:44	6° ∡ ¹26'54		desc. node	8019 Oct 21 15:48	26°M01'09	
acso. Houc	8018 Nov 20 19:47	0×2034 0°る		desc. Hode	8019 Oct 24 06:58	20 11 c 01 09 0° √ 1	
evening max el	8018 Nov 24 18:08	0 3 4° 3 04'09	27°22'53	evening max el	8019 Oct 24 00:38 8019 Nov 07 04:01	0 x ⁴ 16° x ⁴59'47	27°26'42
retrograde	8018 Dec 08 07:25	11° る 23'25	21 22 33	retrograde	8019 Nov 20 22:46	24° 🖈 15'27	21 20 72
evening set	8018 Dec 08 07:23	8° る 48'13		evening set	8019 Nov 20 22:40 8019 Nov 28 01:29	24 × 1327 21° × 49'43	
min. Earth dist.	8018 Dec 19 01:37		0.64328 AU	min. Earth dist.	8019 Dec 01 17:40		0.62493 AU
inferior conj	8018 Dec 19 01:37 8018 Dec 21 12:02	2° る 46'40		inferior conj	8019 Dec 01 17:40 8019 Dec 04 14:43	16° ₹ 08'25	
,		2°る37'50			8019 Dec 04 14:43 8019 Dec 04 20:18	15° x 55'13	
minimum elong	8018 Dec 21 15:22 8018 Dec 24 06:24	2°€3/30 30°R⊀	1 4043	minimum elong morning rise	8019 Dec 04 20:18 8019 Dec 11 17:12	11° × '33'13	2 33 20
aga nada	8018 Dec 24 06:24 8018 Dec 26 21:56	30° ₹ ×¹ 27° ₹ ¹58'03		asc. node	8019 Dec 11 17:12 8019 Dec 13 19:00	11°×'01'24 10°×'37'48	
asc. node							
morning rise	8018 Dec 28 02:07	27° 🖈 22'03		direct	8019 Dec 14 00:16	10° × 37'34	17040142
direct	8018 Dec 30 14:21	26° ₹ 49'59		morning max el	8019 Dec 20 18:24	14° ₹ 04'34	17°48'43
	8019 Jan 05 20:10	0°る	17050117		8019 Dec 31 17:12	0°る	
morning max el	8019 Jan 06 01:23		17°52'47	morning set	8020 Jan 05 16:52	8° る 46'48	
morning set	8019 Jan 23 02:12	25° る 56'40			0000 1 17 00 00	20072000	0002120
d 1	8019 Jan 25 11:57	0°≈ 8°≈ •45!13		superior conj	8020 Jan 17 03:09		0°03'38
desc. node	8019 Jan 30 18:01	8° ≈ 45'12		minimum elong	8020 Jan 17 03:31	28°る40'09	0°03'42
	0010 F 1 05 00 5	150 5000	0040100	behind sun begin	8020 Jan 16 18:45	28°る03'13	
superior conj	8019 Feb 05 09:57	17° ≈ 59'10	-0~40'09	behind sun end	8020 Jan 17 12:16	29° る 16'59	

		-				🗕	
desc. node	8020 Jan 17 15:00	29° る 28'26		superior conj	8020 Dec 28 21:36	10° පි 30'36	0°40'43
	8020 Jan 17 22:32	0° ≈		minimum elong	8020 Dec 29 00:35	10° る 43'50	0°40'25
max. Earth dist.	8020 Jan 24 01:01	10° ≈ 02'12	1.43703 AU	desc. node	8021 Jan 03 12:00	20° る 14'04	
evening rise	8020 Jan 31 21:28	22° ≈ 27'04		max. Earth dist.	8021 Jan 05 12:43	23° る 39'06	1.41947 AU
•	8020 Feb 05 19:39	0° ∀			8021 Jan 09 09:20	0° ≈	
	8020 Feb 26 23:26	0° Υ		evening rise	8021 Jan 10 23:30	2° ≈ 33'43	
avanina may al	8020 Mar 02 12:45	5°Υ10'38	21°21'38	evening rise	8021 Jan 29 05:20	0° ∀	
evening max el			21 21 36				22020107
asc. node	8020 Mar 10 18:02	10° Y 21′21		evening max el	8021 Feb 13 06:05	18°) € 51'45	22°39'06
retrograde	8020 Mar 11 08:13	10° Y 23′08		retrograde	8021 Feb 23 04:37	24°) 45′30	
evening set	8020 Mar 15 14:57	8° Ƴ 41'06		asc. node	8021 Feb 25 15:08	24° 升 15′28	
inferior conj	8020 Mar 20 22:21	2° Y 25'44	2°48'54	evening set	8021 Feb 27 22:28	22°) 48'30	
minimum elong	8020 Mar 20 20:14	2° Y 33'03	2°48'27	inferior conj	8021 Mar 05 07:00	16°) 24′59	2°17'13
min. Earth dist.	8020 Mar 21 04:40	2° Y 03'45	0.68212 AU	minimum elong	8021 Mar 05 04:44	16°) 32′52	2°16'35
mm. Darm diot.	8020 Mar 22 16:55	30°R) €	0.00212110	min. Earth dist.	8021 Mar 05 01:15	16°) (32'52	0.68397 AU
mamina rias	8020 Mar 26 01:20	26° ₩ 12'21			8021 Mar 10 10:52	10° X 15'59	0.00377 AC
morning rise				morning rise			
direct	8020 Mar 31 05:10	23°) 57′02		direct	8021 Mar 15 00:39	8°) €22'17	
	8020 Apr 10 10:38	$0^{\circ}\mathbf{\Upsilon}$		morning max el	8021 Mar 24 01:07	13°) 37′49	21°44'51
morning max el	8020 Apr 10 12:12	0° Ƴ 03'57	23°12'08	desc. node	8021 Apr 01 11:36	23°) (40′17	
desc. node	8020 Apr 14 14:37	4° Ƴ 34'57			8021 Apr 06 02:38	0° Y	
	8020 May 03 00:38	0°8		morning set	8021 Apr 25 09:28	29° Y 03'40	
morning set	8020 May 15 07:01	19° 8 32'41		Ü	8021 Apr 25 23:33	0° ႘	
max. Earth dist.	8020 May 19 11:55	26° 8 42'10	1.39512 AU	max. Earth dist.	8021 May 01 11:20	8° 8 57'09	1.41694 AU
max. Earm dist.	•		1.39312 AU	max. Earth dist.	6021 May 01 11.20	8 O 3709	1.41094 AU
	8020 May 21 09:13	Π $^{\circ}0$					
				superior conj	8021 May 09 02:49	21° 8 58'44	
superior conj	8020 May 27 03:43	10° Ⅱ 24'52	-1°31'09	minimum elong	8021 May 09 08:19	22° 8 22'48	1°55'52
minimum elong	8020 May 27 09:07	10° Ⅱ 49'50	1°30'35		8021 May 13 15:13	$\Pi^{\circ}0$	
evening rise	8020 Jun 05 16:35	28° Ⅱ 31'54		evening rise	8021 May 19 23:02	11° Ⅱ 32'54	
C	8020 Jun 06 10:56	0ം ഉ		asc. node	8021 May 24 14:08	19° Ⅱ 59'40	
asc. node	8020 Jun 06 17:05	0°529'30			8021 May 30 12:16	0°50	
evening max el	8020 Jun 21 19:39	24°932'59	18°36'08	evening max el	8021 Jun 05 04:44	7° © 18'41	18°11'18
•			16 30 06	-			10 11 10
retrograde	8020 Jun 29 17:42	28° © 29'00		retrograde	8021 Jun 12 03:35	10° © 49'09	
evening set	8020 Jul 01 19:55	28°©13'26		evening set	8021 Jun 14 13:24	10°©24'30	
inferior conj	8020 Jul 09 15:06	23° © 47'02	0°34'45	inferior conj	8021 Jun 21 13:42	5° © 37'39	1°54'18
minimum elong	8020 Jul 09 16:23	23° 5 44'36	0°34'10	minimum elong	8021 Jun 21 16:43	5° © 30'54	1°53'15
desc. node	8020 Jul 11 13:56	22°©17'05		min. Earth dist.	8021 Jun 24 22:28	2° © 38'52	0.59706 AU
min. Earth dist.	8020 Jul 12 22:25	21° © 16'27	0.57548 AU	desc. node	8021 Jun 28 11:00	0°\$02'06	
morning rise	8020 Jul 17 09:19	18°931'42	0.575 10 110	morning rise	8021 Jun 28 17:05	29° I 52'53	
•				morning risc	8021 Jun 28 17:03		
direct	8020 Jul 23 04:08	17° © 07'39				30°ŖⅡ	
morning max el	8020 Aug 06 13:05	24°5643'04	26°42'52	direct	8021 Jul 05 03:17	27° Ⅱ 56'45	
	8020 Aug 11 09:46	$0 {\circ} \Omega$			8021 Jul 12 02:19	0	
	8020 Aug 30 10:52	0° m)		morning max el	8021 Jul 19 11:50	5°5549'36	27°37'56
asc. node	8020 Sep 02 16:35	6° Mp 27′40			8021 Aug 06 12:50	$0 ^{\circ} \Omega$	
morning set	8020 Sep 04 23:46	11° m/ 15'32		morning set	8021 Aug 20 06:33	25° Ω 44'50	
S	1	•		asc. node	8021 Aug 20 13:33	26° Ω 21'30	
superior conj	8020 Sep 11 22:18	26° m/25'30	1°21'59	use. Houe	8021 Aug 22 06:46	0°m)	
	*			F 41 F 4	•		1 21/02 ATT
minimum elong	8020 Sep 11 20:10	26° m 13'36	1°21'42	max. Earth dist.	8021 Aug 26 15:04	9° ™ 28'59	1.31693 AU
max. Earth dist.	8020 Sep 12 04:56	27° Mp 02'14	1.31766 AU				
	8020 Sep 13 13:02	0∘ ত		superior conj	8021 Aug 27 09:54	11°Mp13'10	1°05'01
evening rise	8020 Sep 18 18:46	11° ≏ 21'49		minimum elong	8021 Aug 27 07:40	11° m 00'49	1°04'36
	8020 Sep 28 07:17	0°M₊		evening rise	8021 Sep 03 03:56	26° Mp 01'34	
desc. node	8020 Oct 07 12:52	14°ML57'03			8021 Sep 05 01:07	0∘ ত	
evening max el	8020 Oct 19 08:43	29°MJ4'19	26°57'25		8021 Sep 22 04:35	0°M	
evening max er	8020 Oct 20 04:31	0° × 7	20 37 23	desc. node	8021 Sep 24 09:57	2°M58'28	
. 1					-		25055102
retrograde	8020 Nov 02 06:27	6° ≯ 24'30		evening max el	8021 Oct 01 06:00	10°M38'51	25°55'03
evening set	8020 Nov 09 04:59	4° ∡ 19'22 −		retrograde	8021 Oct 15 04:28	17° M 42'44	
min. Earth dist.	8020 Nov 12 23:11	1° √ 40'14	0.60452 AU	evening set	8021 Oct 21 11:42	16° ™ 08'46	
	8020 Nov 14 23:46	30°RM₊		min. Earth dist.	8021 Oct 25 18:46	13°M33'21	0.58376 AU
inferior conj	8020 Nov 16 03:11	29°M02'25	-4°05'09	inferior conj	8021 Oct 28 21:50	11° M 17'53	-5°01'55
minimum elong	8020 Nov 16 10:18	28°M47'36		minimum elong	8021 Oct 29 04:12	11°M06'22	5°00'42
morning rise	8020 Nov 23 17:59	24°ML15'53		morning rise	8021 Nov 05 23:00	6°M53'50	
direct	8020 Nov 25 17:39 8020 Nov 25 23:05	23°M56'55		direct	8021 Nov 03 23:00 8021 Nov 08 06:32	6°M36'29	
							10020121
asc. node	8020 Nov 29 16:04	24°M52'49	10002120	morning max el	8021 Nov 16 15:02	10°M38'53	18°38'21
morning max el	8020 Dec 03 08:12	27°M237'03	18°03'20	asc. node	8021 Nov 16 13:06	10°M34'15	
	8020 Dec 05 12:08	0° ≯ 7			8021 Nov 29 09:19	0° ∡	
morning set	8020 Dec 19 00:16	22° ҂ ¹24'09		morning set	8021 Dec 02 19:15	6° ∡ ³33′05	
	8020 Dec 23 02:29	ರ°ರ					
				superior conj	8021 Dec 11 13:03	23° ₹ '21'55	1°08'46
				. ,	- · · · -		

Transcary Trien	omena of mercury	110111 7000	oug.: 0102	(01), 1150100101150	110 10 100 2020 1	, p.	.50 22 /
minimum elong	8021 Dec 11 16:28	23° ∡ ³37'56	1°08'29	minimum elong	8022 Nov 24 23:01	7° √ 11'29	1°27'35
C	8021 Dec 15 03:22	0°ರ		max. Earth dist.	8022 Dec 01 01:51	18° ∡ 52'42	1.37712 AU
max. Earth dist.	8021 Dec 18 20:00	6° る 34'38	1.39869 AU	evening rise	8022 Dec 04 19:21	25° ∡ ³37'44	
desc. node	8021 Dec 21 08:59	10°る57'59		Ü	8022 Dec 07 07:26	8°0	
evening rise	8021 Dec 22 22:34	13° る 37'01		desc. node	8022 Dec 08 05:59	1° る 36'32	
C	8022 Jan 02 04:08	0° ≈			8022 Dec 26 18:21	0° ≈	
	8022 Jan 24 08:52	0°) €		evening max el	8023 Jan 09 09:36	16° ≈ 23'19	25°15'30
evening max el	8022 Jan 26 20:27	2° 升 36'17	23°59'18	retrograde	8023 Jan 21 10:26	23° ≈ 20'30	
retrograde	8022 Feb 06 21:43	9°) (06'11	25 65 10	evening set	8023 Jan 27 05:25	20°≈56'35	
evening set	8022 Feb 12 03:48	6°) 54′55		asc. node	8023 Jan 30 09:18	17°≈38'06	
asc. node	8022 Feb 12 12:14	6°) (36'27		min. Earth dist.	8023 Jan 31 15:55	16°≈02'02	0.67571 AU
min. Earth dist.	8022 Feb 16 21:46	1° ¥ 25'40	0.68177 AU	inferior conj	8023 Feb 01 20:35	14°≈29'02	0°48'38
inferior conj	8022 Feb 17 15:01	0°)(27'07	1°36'58	minimum elong	8023 Feb 01 19:25	14°≈32'49	0°48'17
minimum elong	8022 Feb 17 13:03	0°) (33'48	1°36'20	morning rise	8023 Feb 07 09:44	8°≈33'51	0 4017
minimum ciong	8022 Feb 17 13:03 8022 Feb 17 23:01	30°R≈	1 30 20	direct	8023 Feb 10 21:44	7°≈23'24	
morning rise	8022 Feb 22 22:19	24°≈24'08		morning max el	8023 Feb 18 00:18	11°≈19'34	10°23'01
direct	8022 Feb 26 22:40	24 ≈24 08 22°≈52'46		greatest brilliancy	8023 Mar 02 22:56	28°≈25'33	-0.7m
morning max el	8022 New 26 22:40 8022 Mar 06 20:41	22 ≈32 40 27°≈22'50	20027104	greatest offinancy	8023 Mar 04 00:13	28 ≈ 23 33	-0.7111
morning max er		27 ≈ 22 30	20 27 04	1 1.		3° ∺ 20'54	
JJ.	8022 Mar 09 07:07	13° ¥ 18'36		desc. node	8023 Mar 06 05:29	15° H 57'49	
desc. node	8022 Mar 19 08:33	13°π18'36 0°Υ		morning set	8023 Mar 14 11:07	15°π5/49 0° γ	
	8022 Mar 30 14:31			To de lite	8023 Mar 23 11:57		1 44051 411
morning set	8022 Apr 04 12:28	7° Υ 32'48	1 42540 411	max. Earth dist.	8023 Mar 27 08:23	6° Ƴ 03'13	1.44851 AU
max. Earth dist.	8022 Apr 13 18:21	22°Y08'03	1.43548 AU		0000016 01 01 00	1100056115	2007144
	8022 Apr 18 14:17	0° 8		superior conj	8023 Mar 31 01:23	11° Y 56'15	
				minimum elong	8023 Mar 30 20:54	11° Y 38'20	2°07'37
superior conj	8022 Apr 20 02:25	2° 8 29'24			8023 Apr 11 04:21	0°8	
minimum elong	8022 Apr 20 04:38	2° 8 38'40	2°10'27	evening rise	8023 Apr 14 06:00	5° 8 05'28	
evening rise	8022 May 02 13:02	23° 8 47'17		asc. node	8023 Apr 28 08:14	27° 8 46'52	
	8022 May 06 02:16	$\Pi^{\circ}0$			8023 Apr 29 23:04	$\Pi^{\circ}0$	
asc. node	8022 May 11 11:11	9° Ⅱ 08'07		evening max el	8023 May 03 06:39	3° Ⅱ 52'29	18°19'12
evening max el	8022 May 19 17:31	20° Ⅱ 28′24	18°05'53	retrograde	8023 May 09 16:17	7° Ⅱ 18'11	
retrograde	8022 May 26 04:39	23° Ⅱ 49'13		evening set	8023 May 12 16:38	6° Ⅱ 28'44	
evening set	8022 May 28 21:53	23° Ⅱ 12'55		inferior conj	8023 May 18 14:14	1° Ⅱ 03'45	3°14'18
inferior conj	8022 Jun 04 06:48	18° Ⅲ 06′11	2°46'01	minimum elong	8023 May 18 15:45	0° Ⅱ 59'22	3°14'00
minimum elong	8022 Jun 04 09:32	17° Ⅱ 59'12	2°45'18		8023 May 19 12:22	30°₽ ႘	
min. Earth dist.	8022 Jun 07 06:38	15° Ⅱ 03'37	0.61948 AU	min. Earth dist.	8023 May 21 00:04	28° 8 18'44	0.64013 AU
morning rise	8022 Jun 10 19:15	12° Ⅱ 02'32		morning rise	8023 May 24 13:48	24° 8 50'00	
desc. node	8022 Jun 15 08:02	9° Ⅱ 53'53		direct	8023 May 31 07:26	22° 8 08'35	
direct	8022 Jun 17 13:03	9° Ⅱ 38'47		desc. node	8023 Jun 02 05:03	22° 8 20'10	
morning max el	8022 Jul 01 16:50	17° Ⅱ 39'53	27°55'25		8023 Jun 13 22:24	Π $^{\circ}0$	
	8022 Jul 11 23:33	0ංම		morning max el	8023 Jun 14 01:58	0° Ⅱ 08'57	27°35'49
	8022 Jul 30 07:08	$0^{\circ}\Omega$			8023 Jul 05 23:56	0 \circ	
morning set	8022 Aug 04 08:05	9° Ω 56'19		morning set	8023 Jul 19 01:57	23° © 42'22	
asc. node	8022 Aug 07 10:31	16° Ω 23'47			8023 Jul 22 04:50	$\mathfrak{O}_{\circ} \mathfrak{O}$	
max. Earth dist.	8022 Aug 09 22:33	21° Ω 45'41	1.32085 AU	max. Earth dist.	8023 Jul 23 23:22	3° Ω 40′30	1.32945 AU
				asc. node	8023 Jul 25 07:29	6° Ω 29'34	
superior conj	8022 Aug 11 19:40	25° Ω 51'36	0°43'28				
minimum elong	8022 Aug 11 17:51	25° Ω 41'40	0°43'02	superior conj	8023 Jul 27 01:39	10° Ω 14'16	0°17'48
	8022 Aug 13 16:56	0° m		minimum elong	8023 Jul 27 00:47	10° Ω 09'39	0°17'30
evening rise	8022 Aug 18 15:16	10° Mp 44'50		evening rise	8023 Aug 03 02:48	25° Ω 24'54	
-	8022 Aug 28 09:20	0° ح			8023 Aug 05 07:14	o° mp	
desc. node	8022 Sep 11 07:00	19° ≏ 44'00			8023 Aug 23 20:16	0∘ <mark>⊽</mark>	
evening max el	8022 Sep 12 19:54	21° £ 16'44	24°26'51	evening max el	8023 Aug 25 07:27	1° ≏ 29'59	22°47'43
retrograde	8022 Sep 26 14:38	28° £ 11'54		desc. node	8023 Aug 29 04:04	4° £ 45'09	
evening set	8022 Oct 01 17:45	27° £ 13'34		retrograde	8023 Sep 07 12:29	8° ≏ 05'49	
min. Earth dist.	8022 Oct 07 06:50	24° £ 23'30	0.56523 AU	evening set	8023 Sep 11 03:16	7° ≏ 37'08	
inferior conj	8022 Oct 09 20:14	22° ≏ 46'51		min. Earth dist.	8023 Sep 18 15:24	4° ≏ 15'20	0.55197 AU
minimum elong	8022 Oct 09 21:50	22° ≏ 44'20		inferior conj	8023 Sep 19 23:45	3° £ 29'05	
morning rise	8022 Oct 18 04:04	18° ≏ 44'28	2 == ±1	minimum elong	8023 Sep 19 23:43 8023 Sep 19 17:54	3° ⊆ 2703	
direct	8022 Oct 20 19:10	18° £ 25'50			8023 Sep 17 17:54 8023 Sep 27 05:56	30°R, MD	
morning max el	8022 Oct 30 11:22	22° £ 59'56	19°35'26	morning rise	8023 Sep 28 10:34	29° Mp 40'20	
asc. node	8022 Nov 03 10:06	27° £ 27'36	.,	direct	8023 Oct 01 13:16	29° mg 17'57	
450. Hode	8022 Nov 05 10:00 8022 Nov 05 06:08	0°M		411000	8023 Oct 01 13:10 8023 Oct 05 16:22	0° ي	
morning set	8022 Nov 16 22:03	21°M02'53		morning max el	8023 Oct 03 10:22 8023 Oct 12 18:57	0 = 4° ჲ 33'18	20°54'49
morning set	8022 Nov 10 22:03 8022 Nov 21 08:26	0° × 7		asc. node	8023 Oct 12 18:37 8023 Oct 21 07:04	15° £ 17'36	20 5777
	3022 1107 21 00.20	~ ^		450. HOGO	8023 Oct 21 07:04 8023 Oct 29 10:03	0°M	
superior conj	8022 Nov 24 20:25	6° ₹ 58'39	1°27'/1	morning set	8023 Nov 01 05:53	5°M45'31	
simerior con-	0044 INDV 44 4U.43	0 🗡 20 29	1 4/41	morning set	0023 110V UI UJ.JJ	ショルサンフエ	

superior conj	8023 Nov 08 15:14	21°ML08'00	1°38'17	morning max el	8024 Sep 23 14:50	15° m 21'24	22°32'26
minimum elong	8023 Nov 08 16:33	21°M14'44	1°38'20		8024 Oct 04 21:54	0ಂ ಹ	
	8023 Nov 13 00:52	0° ∡ ¹		asc. node	8024 Oct 07 04:03	3° ≙ 51'05	
max. Earth dist.	8023 Nov 13 10:42	0° ∡ 748'16	1.35708 AU	morning set	8024 Oct 15 16:33	20° £ 34'21	
evening rise	8023 Nov 17 10:53	8° ₹ 28'22			8024 Oct 20 02:32	0° M	
desc. node	8023 Nov 25 03:01	22° ₹ 05'27			0024.0 + 22 17.50	50 M 20107	1041125
	8023 Nov 29 23:15	0°る ∞∞		superior conj	8024 Oct 22 17:58	5°M39'07	1°41'35
evening max el	8023 Dec 22 19:03 8023 Dec 22 22:39	0°≈08'46	26°20'32	minimum elong max. Earth dist.	8024 Oct 22 17:58 8024 Oct 26 02:42	5°M39'03 12°M42'39	1°41'39 1.34045 AU
retrograde	8024 Jan 04 18:12	0 ≈08 40 7°≈22'50	20 20 32	evening rise	8024 Oct 30 17:16	21°M58'46	1.34043 AU
evening set	8024 Jan 11 01:37	7 ≈22 30 4°≈49'42		evening rise	8024 Oct 30 17:10 8024 Nov 03 22:45	0° %	
min. Earth dist.	8024 Jan 15 05:33	0°≈29'54	0.66586 AU	desc. node	8024 Nov 11 00:03	12° ∡ 18'55	
mm. Earth dist.	8024 Jan 15 15:27	30°R♂	0.00300710	dese. Hode	8024 Nov 22 18:08	0°ਰ 0°ਰ	
inferior conj	8024 Jan 16 21:45	28° る 27'29	-0°07'12	evening max el	8024 Dec 04 11:39	13° ठ 44'10	27°07'12
minimum elong	8024 Jan 16 21:57	28° ♂ 26'54	0°06'59	retrograde	8024 Dec 17 20:18	21°る04'38	2, 0, 12
transit middle	8024 Jan 16 21:57	28° る 26'54	0°06'59	evening set	8024 Dec 24 14:18	18° る 27'58	
transit begin	8024 Jan 16 19:21	28° る 34'50		min. Earth dist.	8024 Dec 28 12:27	14° る 42'15	0.65243 AU
transit end	8024 Jan 17 00:33	28° る 19'00		inferior conj	8024 Dec 30 16:20	12° る 16'54	-1°09'48
asc. node	8024 Jan 17 06:21	28° る 01'20		minimum elong	8024 Dec 30 18:24	12° る 11'06	1°08'46
morning rise	8024 Jan 22 19:03	22° る 42'12		asc. node	8025 Jan 03 03:25	8° る 42'06	
direct	8024 Jan 25 20:13	21° る 49'43		morning rise	8025 Jan 05 23:48	6° ප 43'55	
morning max el	8024 Feb 01 11:03	25° る 24'34	18°34'47	direct	8025 Jan 08 16:01	6° る 05'39	
	8024 Feb 05 10:02	0° ≈		morning max el	8025 Jan 15 02:31	9° ට 30'18	18°03'10
desc. node	8024 Feb 21 02:27	23° ≈ 40′59			8025 Jan 29 07:20	0° ≈	
morning set	8024 Feb 22 05:07	25° ≈ 26'17		morning set	8025 Feb 02 04:32	6° ≈ 22'57	
	8024 Feb 25 02:29	0° ∺		desc. node	8025 Feb 06 23:24	14° ≈ 13'08	
superior conj	8024 Mar 09 07:55	20°) 45′18		superior conj	8025 Feb 16 15:51	29° ≈ 45'40	-1°05'56
minimum elong	8024 Mar 08 22:29	20° ∺ 08′23	1°44'01	minimum elong	8025 Feb 16 08:14	29° ≈ 15'31	1°04'53
max. Earth dist.	8024 Mar 09 02:35	20°) 24′25	1.45465 AU		8025 Feb 16 19:28	0° ∀	
	8024 Mar 15 05:22	0° Υ		max. Earth dist.	8025 Feb 19 22:01	4°) 53′40	1.45337 AU
evening rise	8024 Mar 24 23:28	15° Y 26′02		evening rise	8025 Mar 04 20:19	25°) €00'13	
greatest brilliancy	8024 Apr 02 12:41	29° Y 01'17	-0.8m		8025 Mar 08 02:01	0° Υ	0.7
1	8024 Apr 03 03:38	0° 8		greatest brilliancy	8025 Mar 18 06:06	15° Y 28'58	-0.7m
asc. node	8024 Apr 14 05:18	15° 8 46'59	10050125		8025 Mar 29 00:52	0° と 1° と 01'35	10929120
evening max el retrograde	8024 Apr 15 17:31	17° 8 25'01 21° 8 08'24	18°50'25	evening max el asc. node	8025 Mar 30 00:10	2° 8 56'35	19°38'20
evening set	8024 Apr 22 10:29 8024 Apr 25 18:08	20° 8 04'57		retrograde	8025 Apr 01 02:23 8025 Apr 06 08:02	5° 8 13'25	
inferior conj	8024 May 01 08:09	14° 8 23'27	3°24'06	evening set	8025 Apr 09 23:46	3° 8 55'20	
minimum elong	8024 May 01 08:19	14° 8 22'56		evening set	8025 Apr 13 20:08	30°RY	
min. Earth dist.	8024 May 03 02:40	12° 8 10'54	0.65742 AU	inferior conj	8025 Apr 15 09:18	27° Y ′59'09	3°19'25
morning rise	8024 May 06 21:55	8° 8 05'49		minimum elong	8025 Apr 15 08:18	28° Y ′02'28	3°19'17
direct	8024 May 13 09:17	5° 8 18'43		min. Earth dist.	8025 Apr 16 12:55	26° Ƴ 27'32	0.67054 AU
desc. node	8024 May 19 02:03	7° 8 03'13		morning rise	8025 Apr 20 16:30	21° Y 41'32	
morning max el	8024 May 26 12:31	13° 8 06'08	26°44'37	direct	8025 Apr 26 17:25	19° Ƴ 00'10	
	8024 Jun 09 03:10	$\Pi^{\circ}0$		desc. node	8025 May 05 23:04	23° Ƴ 31'19	
	8024 Jun 27 15:48	0 \circ \odot		morning max el	8025 May 08 22:18	26° Ƴ 18'56	25°30'33
morning set	8024 Jul 01 09:02	6° 9 54'38			8025 May 12 07:51	$0^{\circ}S$	
max. Earth dist.	8024 Jul 05 14:08	15° © 07'06	1.34284 AU		8025 Jun 02 17:03	Π $^{\circ}0$	
				morning set	8025 Jun 14 01:14	19° Ⅱ 21'48	
superior conj	8024 Jul 10 01:38	24°515'07		max. Earth dist.	8025 Jun 17 17:48		1.36077 AU
minimum elong	8024 Jul 10 02:16	24°9518'22	0°11'18		8025 Jun 19 17:43	0ං ව	
behind sun begin	8024 Jul 09 22:08	23°956'54			9025 I.m. 22 16.55	70647107	0942122
behind sun end	8024 Jul 10 06:24	24°939'51		superior conj	8025 Jun 23 16:55	7°547'07	
asc. node	8024 Jul 11 04:28 8024 Jul 12 19:29	26° © 35'02 0° Ω		minimum elong asc. node	8025 Jun 23 19:28 8025 Jun 28 01:29	7° © 59'48 16° © 36'22	0 72 13
evening rise	8024 Jul 17 12:39	9° Ω 56'05		evening rise	8025 Jul 01 18:39	24°9512'14	
2 1 0 mm g 1100	8024 Jul 28 01:13	0° m)		Croming rise	8025 Jul 04 15:49	24 3 12 14	
evening max el	8024 Aug 06 01:48	11° Mp 55'37	21°14'08	evening max el	8025 Jul 19 08:54	23° Ω 00'08	19°56'49
desc. node	8024 Aug 15 01:09	17° m/30'04		retrograde	8025 Jul 29 16:33	28° Ω 05'17	
retrograde	8024 Aug 18 01:51	17° m/52'28		evening set	8025 Jul 31 13:37	27° Ω 55'56	
evening set	8024 Aug 20 10:46	17° mp 39'23		desc. node	8025 Aug 01 22:14	27° Ω 38'05	
inferior conj	8024 Aug 29 16:49	13° m) 41'53	-4°08'00	inferior conj	8025 Aug 09 13:32	23° Ω 55'55	-2°18'55
minimum elong	8024 Aug 29 07:18	13° m 55'16	4°05'25	minimum elong	8025 Aug 09 07:10	24° Ω 05'33	2°16'39
min. Earth dist.	8024 Aug 30 00:22	13° m 31'15	0.54690 AU	min. Earth dist.	8025 Aug 11 11:40	22° Ω 46′07	0.55144 AU
morning rise	8024 Sep 07 04:29	9° m 48'31		morning rise	8025 Aug 17 22:59	19° Ω 37'52	
direct	8024 Sep 10 21:37	9° m 18'49		direct	8025 Aug 22 10:22	18° Ω 54'01	

morning max el	8025 Sep 05 04:00	25° Ω 40'27	24018110	direct	8026 Aug 03 11:39	28° © 37'22	
morning max er	8025 Sep 09 06:01	0°m)	24 10 10	direct	8026 Aug 09 10:33	28 3 3722 0° Ω	
asc. node	8025 Sep 09 06.01 8025 Sep 24 01:02	0 m) 22° m) 57′24		morning max el	8026 Aug 09 10.33 8026 Aug 17 17:22	5° Ω 57'12	25056127
asc. Houe	8025 Sep 27 14:14	0° ರ		morning max er	8026 Sep 04 07:08	0° m)	23 3027
	•			asc. node	-	-•	
morning set	8025 Sep 30 04:20	5° £ 24'41			8026 Sep 10 22:01	12° Mp 27'04	
	0025 0-4 07 01.54	209 0 22152	1°38'25	morning set	8026 Sep 14 15:29	20° Mp 10′26 0° <u>₽</u>	
superior conj minimum elong	8025 Oct 07 01:54 8025 Oct 07 00:47	20° £ 23'53 20° £ 17'46	1°38'24		8026 Sep 19 03:55	0 ==	
max. Earth dist.	8025 Oct 07 00.47 8025 Oct 09 03:14	20 ⊆ 17 40 24° ⊆ 51'00	1.32810 AU	superior conj	8026 Sep 21 12:44	5° ≙ 14'02	1°29'31
max. Earth dist.	8025 Oct 11 13:17	0°M	1.32810 AO	minimum elong	8026 Sep 21 12:44 8026 Sep 21 10:50	5° £ 03'36	1°29'20
ovoning rigo	8025 Oct 11 13:17 8025 Oct 14 10:53	5°M59'40		max. Earth dist.		7° £ 12'49	1.32021 AU
evening rise	8025 Oct 14 10.55 8025 Oct 27 12:56	3 11 6 3940			8026 Sep 22 10:15	7 ≗ 1249 20° ≗ 21'00	1.32021 AU
desc. node	8025 Oct 27 12:36 8025 Oct 28 21:08	0 x . 2° ∡ 10′18		evening rise	8026 Sep 28 12:28	0°M	
			27020122	1 1	8026 Oct 03 07:26	21°M29'33	
evening max el	8025 Nov 16 23:29	26° ₹ 58'56	21-28-23	desc. node	8026 Oct 15 18:12		
, 1	8025 Nov 20 11:30	0°る			8026 Oct 21 19:00	0° ⊀ ⁷	27010127
retrograde	8025 Nov 30 15:53	4°る17'24		evening max el	8026 Oct 30 07:44	9° х 39'05	2/°18'2/
evening set	8025 Dec 07 16:53	1°る45'12		retrograde	8026 Nov 13 03:54	16° ₹ 51'37	
	8025 Dec 09 20:48	30°R. ✓		evening set	8026 Nov 20 05:57	14° ₹ 33'38	
min. Earth dist.	8025 Dec 11 10:38	28° ∡ 30′56		min. Earth dist.	8026 Nov 23 22:18	11° ₹ 44'51	0.61648 AU
inferior conj	8025 Dec 14 01:43	25° ∡ ′51′19		inferior conj	8026 Nov 26 22:48	9° ∡ 02'25	
minimum elong	8025 Dec 14 06:01	25° ∡ ¹40'25	2°15'35	minimum elong	8026 Nov 27 05:11	8° ≯ 48'04	3°24'30
morning rise	8025 Dec 20 20:58	20° ₹ 33'35		morning rise	8026 Dec 04 06:35	4° х 03′23	
asc. node	8025 Dec 21 00:28	20° ₹ 30'19		direct	8026 Dec 06 12:26	3° ≯ 41'56	
direct	8025 Dec 23 06:34	20° ₹ 05'32		asc. node	8026 Dec 07 21:31	3° ≯ ′50′18	
morning max el	8025 Dec 29 19:50	23° ₹ ¹29'20	17°48'44	morning max el	8026 Dec 13 11:50	7° ∡ 13'26	17°52'28
	8026 Jan 04 00:32	0°ප			8026 Dec 28 04:58	0°る	
morning set	8026 Jan 15 06:47	18° ට 37'44		morning set	8026 Dec 29 05:18	1°る50'08	
	8026 Jan 21 22:24	0° ≈					
desc. node	8026 Jan 24 20:24	4° ≈ 53'18		superior conj	8027 Jan 08 22:38	20°る53'09	0°20'24
				minimum elong	8027 Jan 09 00:25	21° る 00'51	0°20'16
superior conj	8026 Jan 27 18:26	9° ≈ 42'25	-0°21'05	desc. node	8027 Jan 11 17:23	25° ප 37'41	
minimum elong	8026 Jan 27 16:08	9° ≈ 33'02	0°20'38		8027 Jan 14 08:06	0° ≈	
max. Earth dist.	8026 Feb 02 16:17	19° ≈ 15′21	1.44491 AU	max. Earth dist.	8027 Jan 16 07:20	3° ≈ 14'25	1.43018 AU
	8026 Feb 09 12:27	0° ∀		evening rise	8027 Jan 23 00:26	13° ≈ 59′10	
evening rise	8026 Feb 12 07:31	4°) 18'46			8027 Feb 02 12:47	0° ∀	
	8026 Mar 01 13:10	0 ° Υ		evening max el	8027 Feb 23 21:32	28°) 20′14	21°53'55
evening max el	8026 Mar 13 01:31	14° Ƴ 40'10	20°40'40		8027 Feb 25 15:15	0° Y	
asc. node	8026 Mar 18 23:29	19° Ƴ 01'45		retrograde	8027 Mar 05 04:05	3° Ƴ 49'53	
retrograde	8026 Mar 21 06:32	19° Ƴ 28'41		asc. node	8027 Mar 05 20:34	3° Ƴ 47'28	
evening set	8026 Mar 25 07:28	17° Ƴ 55'27		evening set	8027 Mar 09 15:31	2° Y 01'19	
inferior conj	8026 Mar 30 15:03	11° Y 46'34	3°02'59		8027 Mar 11 16:26	30°Ŗ ℋ	
minimum elong	8026 Mar 30 13:14	11° Y ′52'48	3°02'38	inferior conj	8027 Mar 14 23:11	25°) 42′15	2°36'33
min. Earth dist.	8026 Mar 31 04:50	10° Ƴ 59'08	0.67922 AU	minimum elong	8027 Mar 14 20:58	25° ℋ 50'00	2°36'00
morning rise	8026 Apr 04 18:46	5° Ƴ 31'19		min. Earth dist.	8027 Mar 15 00:16	25°) 38'31	0.68347 AU
direct	8026 Apr 10 06:44	3° Ƴ 04'38		morning rise	8027 Mar 20 02:15	19° ∺ 30'49	
morning max el	8026 Apr 21 07:11	9° Ƴ 39'51	24°03'44	direct	8027 Mar 25 00:09	17°) 24′26	
desc. node	8026 Apr 22 20:04	11° Y 16'25		morning max el	8027 Apr 03 17:42	23°) €08'34	22°34'15
	8026 May 07 08:37	$0^{\circ}S$		desc. node	8027 Apr 09 17:02	29° 升 57′03	
	8026 May 26 09:46	0° I I			8027 Apr 09 17:59	$0^{\circ}\mathbf{\Upsilon}$	
morning set	8026 May 26 21:17	0° Ⅱ 49′29			8027 Apr 30 17:21	0° ႘	
max. Earth dist.	8026 May 30 14:28	7° Ⅱ 20'36	1.38219 AU	morning set	8027 May 07 15:48	11° 8 04'52	
				max. Earth dist.	8027 May 12 11:49	19° 8 08'43	1.40468 AU
superior conj	8026 Jun 06 20:03	20° Ⅱ 41'15	-1°14'04		8027 May 18 17:24	0° Ⅱ	
minimum elong	8026 Jun 07 00:35	21° Ⅱ 02'49			J		
	8026 Jun 11 15:30	0ಂಣ		superior conj	8027 May 20 06:47	2° ∏ 47'46	-1°42'43
asc. node	8026 Jun 14 22:31	6°929'06		minimum elong	8027 May 20 12:31	3° Ⅱ 13'42	
evening rise	8026 Jun 15 18:11	8°905'55		evening rise	8027 May 30 08:03	21° ∏ 29'21	
	8026 Jun 28 03:51	0° U		asc. node	8027 Jun 01 19:35	26° ∏ 09'12	
evening max el	8026 Jul 02 04:37	4° Ω 48'24	18°59'36		8027 Jun 03 21:29	0°95	
retrograde	8026 Jul 10 20:51	9° Ω 05'44	>	evening max el	8027 Jun 15 09:52		18°23'03
evening set	8026 Jul 12 19:40	8° £ 53'36		retrograde	8027 Jun 22 20:30	20°958'46	.0 25 05
desc. node	8026 Jul 19 19:20	5° Ω 31'38		evening set	8027 Jun 25 01:58	20° © 39'38	
inferior conj	8026 Jul 21 02:19	4° Ω 38'21	-0°23'33	inferior conj	8027 Jul 02 12:45	16° © 04'09	1°12'04
minimum elong	8026 Jul 21 01:19	4°Ω40'05		minimum elong	8027 Jul 02 12:45 8027 Jul 02 15:05	15°959'22	1°11'07
min. Earth dist.	8026 Jul 24 02:14	2° Ω 33'47		min. Earth dist.	8027 Jul 02 13:03 8027 Jul 05 22:06	13° © 19'00	0.58437 AU
mm. Darm dist.	8026 Jul 28 13:16	2 8 € 33 47 30°Rூ	0.50405 AU	desc. node	8027 Jul 05 22:00 8027 Jul 06 16:23	13 3 1900	0.20721 AU
morning rise	8026 Jul 29 03:47	30 k≊ 29°€44'22		morning rise	8027 Jul 00 10.23 8027 Jul 10 00:53	12 944 18 10°935'09	
morning 1150	5020 Jul 27 UJ.4/	27 377 22		morning 1150	5027 Jul 10 00.55	10 -20009	

direct	8027 Jul 16 02:58	8° © 57'47		morning max el	8028 Jul 11 14:12	28° I I06'33	27°50'10
morning max el	8027 Jul 30 12:21	16°9340'58	27°10'46	morning max or	8028 Jul 13 10:07	0°95	27 30 10
morning man er	8027 Aug 10 11:10	0° Ω	27 10 10		8028 Aug 03 06:01	$0^{\circ}\Omega$	
	8027 Aug 27 17:03	0° m/		morning set	8028 Aug 13 05:11	19° Ω 09'25	
asc. node	8027 Aug 28 19:01	2° m 13'34		asc. node	8028 Aug 14 15:59	22° Ω 11'24	
morning set	8027 Aug 30 00:22	4° m 47'03			8028 Aug 18 07:10	0° m)	
3		4		max. Earth dist.	8028 Aug 19 05:56	2° m 04'40	1.31798 AU
superior conj	8027 Sep 06 00:32	20° m 03'47	1°15'22			•	
minimum elong	8027 Sep 05 22:18	19° m 51'22	1°15'01	superior conj	8028 Aug 20 11:34	4° ™ 47'49	0°56'24
max. Earth dist.	8027 Sep 05 20:26	19° Mp 41'03	1.31683 AU	minimum elong	8028 Aug 20 09:27	4° M 36′09	0°55'57
	8027 Sep 10 12:36	0∘ ⊽		evening rise	8028 Aug 27 05:48	19° Mp 36'56	
evening rise	8027 Sep 12 19:30	4° £ 55'29		C	8028 Sep 01 06:25	0∘ ⊽	
C	8027 Sep 26 00:18	0°M.		desc. node	8028 Sep 18 12:20	27° £ 36'06	
desc. node	8027 Oct 02 15:16	10°M03'58			8028 Sep 20 14:40	0°M₊	
evening max el	8027 Oct 12 09:27	21°M32'07	26°34'36	evening max el	8028 Sep 23 03:05	2°M34'22	25°19'54
retrograde	8027 Oct 26 07:20	28°M39'06		retrograde	8028 Oct 07 00:49	9° M 36'04	
evening set	8027 Nov 02 01:09	26°M45'59		evening set	8028 Oct 12 21:42	8°M16'54	
min. Earth dist.	8027 Nov 05 23:03	24°M10'53	0.59564 AU	min. Earth dist.	8028 Oct 17 14:55	5° ™ 37'40	0.57535 AU
inferior conj	8027 Nov 09 04:01	21°M40'30	-4°31'19	inferior conj	8028 Oct 20 14:11	3°M36'35	-5°19'15
minimum elong	8027 Nov 09 11:13	21°M26'23	4°29'27	minimum elong	8028 Oct 20 19:03	3°M28'15	5°18'34
morning rise	8027 Nov 16 23:36	17°M03'30		-	8028 Oct 26 20:05	30° Ŗ Ω	
direct	8027 Nov 19 05:19	16°M45'29		morning rise	8028 Oct 28 18:46	29° £ 22'36	
asc. node	8027 Nov 24 18:33	18°M43'05		direct	8028 Oct 31 04:48	29° ≏ 05'10	
morning max el	8027 Nov 26 23:04	20°M33'29	18°15'41		8028 Nov 04 08:20	0°M	
C	8027 Dec 04 01:24	0° ⊼ ¹		morning max el	8028 Nov 09 01:56	3°M19'40	19°00'00
morning set	8027 Dec 12 18:09	15° ∡ ¹42'13		asc. node	8028 Nov 10 15:33	4°M57'06	
Ü	8027 Dec 20 08:40	6°0		morning set	8028 Nov 25 16:52	0° ≯ 01'16	
				Č	8028 Nov 25 16:37	0° ∡ 7	
superior conj	8027 Dec 22 02:38	3° ⋜ 12'04	0°53'46				
minimum elong	8027 Dec 22 06:01	3° る 27'24	0°53'27	superior conj	8028 Dec 04 01:32	16° ≯ 25'05	1°17'52
max. Earth dist.	8027 Dec 29 17:25	16° る 35'45	1.41089 AU	minimum elong	8028 Dec 04 04:42	16° ∡ 740′16	1°17'39
desc. node	8027 Dec 29 14:20	16° る 22'39		max. Earth dist.	8028 Dec 10 23:19	29° х 13′16	1.38938 AU
evening rise	8028 Jan 03 10:53	24° る 28'19			8028 Dec 11 09:47	0°ರ	
•	8028 Jan 06 21:18	0° ≈		evening rise	8028 Dec 14 19:26	5°₹56'56	
	8028 Jan 27 09:59	0° ∀		desc. node	8028 Dec 15 11:20	7° る 04'59	
evening max el	8028 Feb 06 13:14	12°) 02'04	23°13'14		8028 Dec 29 22:10	0° ≈	
retrograde	8028 Feb 16 23:13	18° ℋ 12'06		evening max el	8029 Jan 19 02:43	25° ≈ 47'34	24°32'32
asc. node	8028 Feb 20 17:40	17°) 01'41			8029 Jan 24 00:53	0° ∀	
evening set	8028 Feb 21 22:16	16°) 08'36		retrograde	8029 Jan 30 14:44	2°) 31′08	
inferior conj	8028 Feb 27 07:46	9°) 42′39	2°01'09	evening set	8029 Feb 05 02:15	0° ℋ 14'05	
minimum elong	8028 Feb 27 05:34	9° 升 50'14	2°00'29		8029 Feb 05 08:43	30° R ≈	
min. Earth dist.	8028 Feb 26 20:59	10° ℋ 19'50	0.68353 AU	asc. node	8029 Feb 06 14:43	28° ≈ 46′20	
morning rise	8028 Mar 03 12:49	3°) (36′15		min. Earth dist.	8029 Feb 09 16:49	24° ≈ 59'29	0.67965 AU
direct	8028 Mar 07 20:43	1° ¥ 52'19		inferior conj	8029 Feb 10 14:59	23° ≈ 45′29	1°17'26
morning max el	8028 Mar 16 09:17	6°) (47'16	21°10'20	minimum elong	8029 Feb 10 13:17	23° ≈ 51'07	1°16'53
desc. node	8028 Mar 26 13:58	19° 升 17'18		morning rise	8029 Feb 16 00:30	17° ≈ 45'31	
	8028 Apr 03 02:06	$0^{\circ}\mathbf{\Upsilon}$		direct	8029 Feb 19 19:18	16° ≈ 23'32	
morning set	8028 Apr 16 06:58	20° Y 05′14		morning max el	8029 Feb 27 08:19	20° ≈ 38′02	19°57'55
	8028 Apr 22 11:52	8° 0			8029 Mar 07 01:33	0° ∀	
max. Earth dist.	8028 Apr 23 14:37	1° 8 49'00	1.42538 AU	desc. node	8029 Mar 13 10:54	9° ₩ 06'47	
				morning set	8029 Mar 26 04:58	28° ∺ 23'25	
superior conj	8028 Apr 30 20:13	13° 8 54'46	-2°03'55		8029 Mar 27 06:00	0 ° Υ	
minimum elong	8028 May 01 00:50	14° 8 14'31	2°03'46	max. Earth dist.	8029 Apr 06 00:14	15° Ƴ 18'15	1.44181 AU
	8028 May 10 00:05	Π $^{\circ}0$					
evening rise	8028 May 12 08:03	4° Ⅱ 11'39		superior conj	8029 Apr 11 09:01	23° Y 56'46	-2°11'40
asc. node	8028 May 18 16:37	15° Ⅱ 30'46		minimum elong	8029 Apr 11 08:38	23° Y 55′15	2°11'44
	8028 May 28 16:09	0 \circ \odot			8029 Apr 15 01:29	9° 8	
evening max el	8028 May 28 20:51	0° © 11'45	18°06'36	evening rise	8029 Apr 24 13:35	16° 8 02'37	
retrograde	8028 Jun 04 13:34	3° 5 36'38			8029 May 02 18:53	$\Pi^{\circ}0$	
evening set	8028 Jun 07 02:28	3°507'24		asc. node	8029 May 05 13:39	4° Ⅱ 27′26	
	8028 Jun 11 20:36	30° Ŗ Ⅱ		evening max el	8029 May 12 10:07	13° Ⅲ 28′08	18°09'19
inferior conj	8028 Jun 13 19:43	28° Ⅱ 11'45	2°19'25	retrograde	8029 May 18 19:34	16° Ⅱ 49'29	
minimum elong	8028 Jun 13 22:47	28° Ⅱ 04'27	2°18'28	evening set	8029 May 21 15:46	16° Ⅱ 07'53	
min. Earth dist.	8028 Jun 17 01:31	25° Ⅱ 08′22	0.60664 AU	inferior conj	8029 May 27 19:25	10° Ⅱ 53'25	3°00'32
morning rise	8028 Jun 20 16:33	22° Ⅱ 17'19		minimum elong	8029 May 27 21:42	10° Ⅱ 47'17	3°00'01
desc. node	8028 Jun 22 13:25	21° Ⅱ 14'40		min. Earth dist.	8029 May 30 13:47	7° Ⅱ 55'40	0.62861 AU
direct	8028 Jun 27 06:45	20° Ⅲ 08'37		morning rise	8029 Jun 03 02:02	4° Ⅱ 44'21	
				C		_	

desc. node	8029 Jun 09 10:27	2° ∏ 11'52		direct	8030 May 23 18:35	15° 8 00'00	
direct	8029 Jun 09 10:27 8029 Jun 09 20:39	2°П11'18		desc. node	8030 May 27 07:28	15° 8 40'18	
morning max el	8029 Jun 23 21:16	2 П 11 18 10° П 14'15	27051117	morning max el	8030 May 27 07:28 8030 Jun 06 07:07	22° 8 56'21	27°17'20
morning max ci	8029 Jul	0°95	2/ 311/	morning max ci	8030 Jun 12 12:54	0°II	27 1720
	8029 Jul 26 13:31	0°N			8030 Jul 02 14:49	0° ©	
morning set	8029 Jul 28 03:46	3°Ω10'50		morning set	8030 Jul 11 17:29	16° © 43'59	
asc. node	8029 Aug 01 12:56	12° Ω 15'31		max. Earth dist.	8030 Jul 16 07:32	25° © 54'37	1.33455 AU
max. Earth dist.	8029 Aug 02 10:49	14°Ω12'02	1.32385 AU	max. Dartii dist.	8030 Jul 18 06:53	0°Ω	1.55455 710
max. Dartii dist.	002) Hug 02 10.1)	11 0012 02	1.52505 710	asc. node	8030 Jul 19 09:55	2° Ω 22'00	
superior conj	8029 Aug 04 19:58	19° Ω 20'09	0°33'02			- 00 00	
minimum elong	8029 Aug 04 18:29	19° Ω 12'08	0°32'38	superior conj	8030 Jul 19 23:44	3° Ω 34'59	0°05'51
	8029 Aug 09 17:20	0° m)		minimum elong	8030 Jul 19 23:27	3° Ω 33'26	0°05'39
evening rise	8029 Aug 11 17:25	4° m) 19'06		behind sun begin	8030 Jul 19 18:14	3° Ω 05'51	
C	8029 Aug 25 09:20	0∘ <u>⊽</u>		behind sun end	8030 Jul 20 04:39	4° Ω 01'03	
evening max el	8029 Sep 04 15:01	12° ≏ 57'46	23°45'06	evening rise	8030 Jul 27 04:31	18° Ω 56'34	
desc. node	8029 Sep 05 09:25	13° ≙ 41'08		•	8030 Aug 01 14:49	0° m y	
retrograde	8029 Sep 18 06:05	19° ≏ 47'09		evening max el	8030 Aug 17 04:38	23° Mp 13'02	22°06'30
evening set	8029 Sep 22 17:43	19° ჲ 03'06		desc. node	8030 Aug 23 06:30	27° m 48'39	
min. Earth dist.	8029 Sep 29 01:20	16° ≏ 01'06	0.55865 AU	retrograde	8030 Aug 29 23:05	29° m 33'50	
inferior conj	8029 Oct 01 04:03	14° ≏ 44'51	-5°32'45	evening set	8030 Sep 01 23:24	29° m 13'41	
minimum elong	8029 Oct 01 02:31	14° ≏ 47'10	5°32'40	min. Earth dist.	8030 Sep 10 09:50	25° m 34'11	0.54872 AU
morning rise	8029 Oct 09 13:28	10° ≏ 49'38		inferior conj	8030 Sep 11 01:44	25° Mp 11'53	-4°54'35
direct	8029 Oct 12 08:53	10° ≙ 29'50		minimum elong	8030 Sep 10 17:29	25° m 23'28	4°52'59
morning max el	8029 Oct 22 17:03	15° ≙ 21'07	20°06'38	morning rise	8030 Sep 19 13:05	21°Mp23'32	
asc. node	8029 Oct 28 12:32	22° ≏ 16′10		direct	8030 Sep 22 21:49	20° Mp 58'22	
	8029 Nov 02 08:15	0° M		morning max el	8030 Oct 04 19:11	26° № 33'44	21°34'28
morning set	8029 Nov 09 22:06	14°M36'59			8030 Oct 08 01:34	0∘ ত	
	8029 Nov 17 10:54	0° ∡		asc. node	8030 Oct 15 09:31	10° ≙ 26′10	
				morning set	8030 Oct 25 07:24	29° £ 22'47	
superior conj	8029 Nov 17 14:15	0° ∡ 16'49	1°33'08		8030 Oct 25 14:31	0°M₊	
minimum elong	8029 Nov 17 16:20	0° ∡ °27'17	1°33'06				
max. Earth dist.	8029 Nov 23 05:26	11° √ 17'18	1.36824 AU	superior conj	8030 Nov 01 12:49	14°M36'06	1°40'31
evening rise	8029 Nov 27 00:41	18° ≯ 20′08		minimum elong	8030 Nov 01 13:33	14°M39'57	1°40'35
desc. node	8029 Dec 02 08:21	27° ∡ ³39'56		max. Earth dist.	8030 Nov 05 17:10	23°M10'28	1.34959 AU
	8029 Dec 03 17:39	0°る			8030 Nov 09 04:28	0° ∡	
	8029 Dec 24 04:00	0° ≈		evening rise	8030 Nov 09 23:02	1° ₹ 28'51	
evening max el	8030 Jan 01 15:49	9° ≈ 34'47	25°45'00	desc. node	8030 Nov 19 05:24	18° ∡ 02'50	
retrograde	8030 Jan 14 01:35	16° ≈ 40'49			8030 Nov 26 18:10	0°る	26042100
evening set	8030 Jan 20 01:47	14°≈12'42		evening max el	8030 Dec 15 05:08	23° る 17'35	26°43'08
asc. node	8030 Jan 24 11:47	9°≈25'22	0.67104.411		8030 Dec 24 23:11	0°≈ 0°≈ •3.4147	
min. Earth dist.	8030 Jan 24 09:28	9°≈32'38	0.67194 AU	retrograde	8030 Dec 28 06:50	0°≈34'47 30°₽ਠ	
inferior conj minimum elong	8030 Jan 25 18:57 8030 Jan 25 18:17	7°≈46'33 7°≈48'38	0°25'51 0°25'42	avanina aat	8030 Dec 31 09:56	30 ⁻ KO 27° ろ 59'39	
morning rise	8030 Jan 31 11:16	1°≈55'01	0 23 42	evening set min. Earth dist.	8031 Jan 03 19:02 8031 Jan 07 20:33	27 3 3939 23° る 54'20	0.66058 AU
direct	8030 Feb 03 18:25	0°≈52'37		inferior conj	8031 Jan 09 17:37	23 3 34 20 21° る 41'36	
morning max el	8030 Feb 10 15:07	0 ≈3237 4°≈38'33	19°00'25	minimum elong	8031 Jan 09 18:32		
greatest brilliancy	8030 Feb 24 17:01	23°≈43'50	-0.8m	asc. node	8031 Jan 11 08:51	19° ප් 48'31	0 3221
desc. node	8030 Feb 28 07:51	29°≈17'21	0.0111	morning rise	8031 Jan 15 18:58	16° පි 00'59	
acce. node	8030 Feb 28 18:54	0° ∀		direct	8031 Jan 18 16:10	15° පි 14'52	
morning set	8030 Mar 05 09:31	7° ₩ 08'55		morning max el	8031 Jan 25 04:07	18° る 43'57	18°19'15
max. Earth dist.	8030 Mar 19 16:04	29° H 25'33	1.45205 AU	0	8031 Feb 02 18:19	0° ≈	- 12
	8030 Mar 20 00:50	0° Υ		morning set	8031 Feb 13 15:49	17° ≈ 14'44	
				desc. node	8031 Feb 15 04:49	19° ≈ 42'58	
superior conj	8030 Mar 21 23:28	3° Y 03'32	-2°00'28		8031 Feb 21 15:43	0° ∀	
minimum elong	8030 Mar 21 16:13	2° Y '34'56	2°00'03				
evening rise	8030 Apr 05 20:37	26° Ƴ 55'47		superior conj	8031 Mar 01 04:04	11° 米 50'19	-1°29'46
-	8030 Apr 07 17:45	0°8		minimum elong	8031 Feb 28 18:36	11°) (13′12	1°28'43
asc. node	8030 Apr 22 10:42	22° 8 51'20		max. Earth dist.	8031 Mar 02 11:33	13°) 53′40	1.45506 AU
evening max el	8030 Apr 25 22:40	26° 8 57'13	18°30'24		8031 Mar 12 18:44	0 ° Υ	
	8030 Apr 30 03:22	$\Pi^{\circ}0$		evening rise	8031 Mar 17 04:31	6° Ƴ 54'12	
retrograde	8030 May 02 10:20	0°Щ28′38		greatest brilliancy	8031 Mar 27 23:22	23° Y 43'45	-0.8m
	8030 May 04 16:29	30° ₹ 8			8031 Apr 01 03:28	9° 8	
evening set	8030 May 05 13:46	29° 8 33'19		asc. node	8031 Apr 09 07:48	10° 8 31'45	
inferior conj	8030 May 11 07:45	24° 8 01'21	3°20'25	evening max el	8031 Apr 09 08:01	10° 8 32'19	19°08'53
minimum elong	8030 May 11 08:42	23° 8 58'33	3°20'14	retrograde	8031 Apr 16 06:16	14° 8 26'12	
min. Earth dist.	8030 May 13 11:12	21° 8 28'36	0.64801 AU	evening set	8031 Apr 19 17:21	13° 8 16'24	
morning rise	8030 May 17 02:47	17° 8 45'34		inferior conj	8031 Apr 25 05:06	7° 8 28'24	3°23'42

minimum elong	8031 Apr 25 04:44	7° 8 29'35	3023136	evening set	8032 Apr 03 00:09	27° Ƴ 12'06	
min. Earth dist.	8031 Apr 26 17:07	5° 6 32'52	0.66358 AU	inferior conj	8032 Apr 08 08:32	21° Υ 09'58	3013147
morning rise	8031 Apr 30 15:43	1° 8 10'42	0.00338 AU	minimum elong	8032 Apr 08 07:08	21° Υ 14'41	3°13'33
morning rise	8031 May 02 03:49	30°RY		min. Earth dist.	8032 Apr 09 06:02	19° Υ 57'19	0.67476 AU
direct	8031 May 06 23:06	28° Y 24'57		morning rise	8032 Apr 13 13:54	14° Y 53'10	0.07170710
	8031 May 12 06:49	0°8		direct	8032 Apr 19 09:24	12° Υ 17'28	
desc. node	8031 May 14 04:29	1°812'04		desc. node	8032 Apr 30 01:28	18° Υ 16'18	
morning max el	8031 May 19 17:25	6° 8 01'12	26°15'21	morning max el	8032 May 01 02:56	19° Υ 19'08	24°54'39
	8031 Jun 07 04:33	0°II			8032 May 10 04:34	0°8	
morning set	8031 Jun 24 18:46	29° I I38'19			8032 May 30 07:20	0°II	
	8031 Jun 24 23:25	0°9		morning set	8032 Jun 06 03:07	11° ∏ 42'14	
max. Earth dist.	8031 Jun 28 17:40	7° © 10'51	1.35003 AU	max. Earth dist.	8032 Jun 09 18:03	18° Ⅱ 15'18	1.36964 AU
					8032 Jun 15 22:29	0ಂಣ	
superior conj	8031 Jul 03 20:24	17° 5 24'34	-0°24'21				
minimum elong	8031 Jul 03 21:48	17° © 31'43	0°24'13	superior conj	8032 Jun 16 06:58	0°5541'32	-0°56'02
asc. node	8031 Jul 06 06:55	22°526'12		minimum elong	8032 Jun 16 10:23	0°958'14	0°55'34
	8031 Jul 09 22:02	$0^{\circ}\Omega$		asc. node	8032 Jun 22 03:57	12° 5 24'30	
evening rise	8031 Jul 11 13:01	3° Ω 22′20		evening rise	8032 Jun 24 16:39	17° © 30'11	
	8031 Jul 26 17:36	0° m		-	8032 Jul 01 03:33	$0^{\circ}\Omega$	
evening max el	8031 Jul 30 03:59	3° m 52'39	20°38'47	evening max el	8032 Jul 11 16:35	15° Ω 15'22	19°29'47
retrograde	8031 Aug 10 11:12	9° m 27′59		retrograde	8032 Jul 21 06:52	19° Ω 59'28	
desc. node	8031 Aug 10 03:37	9° ™ 27'44		evening set	8032 Jul 23 03:26	19° Ω 49'36	
evening set	8031 Aug 12 13:08	9° m 17′24		desc. node	8032 Jul 27 00:42	18° Ω 31'55	
inferior conj	8031 Aug 21 18:25	5° Mp 20'24	-3°24'40	inferior conj	8032 Jul 31 20:48	15° Ω 43'52	-1°28'46
minimum elong	8031 Aug 21 09:34	5° m 33'05	3°21'51	minimum elong	8032 Jul 31 16:47	15° Ω 50'18	1°27'19
min. Earth dist.	8031 Aug 22 19:13	4° m 44'49	0.54773 AU	min. Earth dist.	8032 Aug 03 07:42	14° Ω 09'46	0.55619 AU
morning rise	8031 Aug 30 05:46	1° m 19'08		morning rise	8032 Aug 09 03:36	11° Ω 10'57	
direct	8031 Sep 03 06:20	0° Mp 44'28		direct	8032 Aug 13 23:21	10° Ω 18'40	
morning max el	8031 Sep 16 11:15	7° m 05'45	23°17'19	morning max el	8032 Aug 27 23:53	17° Ω 20'46	25°02'01
asc. node	8031 Oct 02 06:31	29° m 14'35			8032 Sep 07 09:05	o° mp	
	8031 Oct 02 16:21	0∘ ত		asc. node	8032 Sep 18 03:29	18° m 31'41	
morning set	8031 Oct 09 18:46	14° ≙ 12'52		morning set	8032 Sep 23 06:27	29° m 01'56	
					8032 Sep 23 17:20	0∘ ⊽	
superior conj	8031 Oct 16 18:03	29° ₽ 13'39	1°40'58				
minimum elong	8031 Oct 16 17:32	29° ≙ 10'52	1°41'02	superior conj	8032 Sep 30 03:27	14° ≏ 01'33	1°35'18
	8031 Oct 17 02:41	0° M.		minimum elong	8032 Sep 30 01:58	13° ≏ 53'21	1°35'14
max. Earth dist.	8031 Oct 19 13:07	5°M10'51	1.33467 AU	max. Earth dist.	8032 Oct 01 16:41	17° ≙ 25'10	1.32414 AU
evening rise	8031 Oct 24 10:36	15° M ₊12'57		evening rise	8032 Oct 07 07:55	29° ≏ 23'14	
	8031 Nov 01 07:37	0° ∡			8032 Oct 07 15:05	0° M ₊	
desc. node	8031 Nov 06 02:28	8° ₰ 07'56		desc. node	8032 Oct 22 23:32	27°M47'06	
	8031 Nov 21 11:37	0°ರ			8032 Oct 24 09:56	0° ∡ ¹	
evening max el	8031 Nov 27 17:55	6° ප 45'49	27°19'42	evening max el	8032 Nov 09 04:18	19° ∡ ¹46'36	27°28'12
retrograde	8031 Dec 11 06:04	14° る 05'35		retrograde	8032 Nov 22 22:38	27° х 03′26	
evening set	8031 Dec 18 03:48	11° පි 29'38		evening set	8032 Nov 30 01:07	24° ⋌ ¹35'35	
min. Earth dist.	8031 Dec 21 23:51	7° る 58'01	0.64574 AU	min. Earth dist.	8032 Dec 03 17:32	21° ⋌ ³33'33	0.62780 AU
inferior conj	8031 Dec 24 08:38	5° る 25'29	-1°38'00	inferior conj	8032 Dec 06 13:10	18° ≯ 50'48	-2°46'57
minimum elong	8031 Dec 24 11:37	5° る 17'26	1°36'37	minimum elong	8032 Dec 06 18:25	18° ∡ ³38′07	2°44'51
asc. node	8031 Dec 29 05:56	0° る 53'16		morning rise	8032 Dec 13 13:46	13° х 40′59	
morning rise	8031 Dec 30 20:57	29° ₹ 58'43		asc. node	8032 Dec 15 02:59	13° ∡ 18'59	
	8031 Dec 30 19:47	30°₹ ৵		direct	8032 Dec 15 21:21	13° ∡ 16'14	
direct	8032 Jan 02 10:10	29° ∡ 25′09		morning max el	8032 Dec 22 14:02	16° ≯ 42'10	17°48'07
	8032 Jan 05 00:34	0°ಕ			8033 Jan 01 00:30	0°₹	
morning max el	8032 Jan 08 20:48	2°る48'00	17°54'58	morning set	8033 Jan 07 15:02	11° る 28'43	
morning set	8032 Jan 26 03:25	28° る 47'19			8033 Jan 18 08:04	0° ≈	
	8032 Jan 26 20:45	0° ≈		desc. node	8033 Jan 18 22:44	1° ≈ 01'29	
desc. node	8032 Feb 02 01:46	10° ≈ 19′09					
			0045:	superior conj	8033 Jan 19 07:39	1°≈38'50	
superior conj	8032 Feb 08 18:21	21°≈10'41		minimum elong	8033 Jan 19 07:24	1°≈37'45	0°02'34
minimum elong	8032 Feb 08 12:55		0°46'09	behind sun begin	8033 Jan 18 22:21	0°≈59'54	
max. Earth dist.	8032 Feb 13 07:21	28°≈23'50	1.45058 AU	behind sun end	8033 Jan 19 16:26	2°≈15'31	1 40004 :=
	8032 Feb 14 07:46	0° ∀		max. Earth dist.	8033 Jan 26 00:14	12°≈36'52	1.43924 AU
evening rise	8032 Feb 24 19:37	16°) 17'55		evening rise	8033 Feb 03 07:17	25°≈40'48	
	8032 Mar 04 19:27	0° Υ			8033 Feb 06 02:47	0°) €	
greatest brilliancy	8032 Mar 10 13:44	8° Υ 34'16	-0.6m		8033 Feb 26 20:45	0° Υ	
evening max el	8032 Mar 22 12:29	24° Y 10′01	20°03'12	evening max el	8033 Mar 05 11:21	7° Y 48'31	21°10'43
asc. node	8032 Mar 26 04:54	27°Υ16'12		asc. node	8033 Mar 13 02:01	12° Υ 49'20	
retrograde	8032 Mar 30 04:36	28° Ƴ 36'46		retrograde	8033 Mar 14 03:02	12° Y 54'55	

evening set	8033 Mar 18 08:12	11° Y 15'13		evening max el	8034 Feb 16 05:19	21° ¥ 29'05	22°27'18
inferior conj	8033 Mar 23 15:33	5° Υ 01'25	2°52'57	retrograde	8034 Feb 25 23:42	27°) 16'36	
minimum elong	8033 Mar 23 13:31	5° Y ′08'30	2°52'30	asc. node	8034 Feb 27 23:06	26° ¥ 56'49	
min. Earth dist.	8033 Mar 23 23:48	4° Y 32'48	0.68149 AU	evening set	8034 Mar 02 15:50	25° ¥ 21'51	
	8033 Mar 27 13:21	30° Ŗ ₩		inferior conj	8034 Mar 08 00:06	18° ¥ 59'27	2°22'35
morning rise	8033 Mar 28 18:38	28°) (47′24		minimum elong	8034 Mar 07 21:50	19°) €07'20	2°21'58
direct	8033 Apr 03 00:34	26° ∺ 28'56		min. Earth dist.	8034 Mar 07 20:08	19° ∺ 13'14	0.68398 AU
	8033 Apr 10 13:24	0 ° Υ		morning rise	8034 Mar 13 03:40	12°) 49′45	
morning max el	8033 Apr 13 12:14	2° Y '43'38	23°25'29	direct	8034 Mar 17 19:35	10°) 52′36	
desc. node	8033 Apr 16 22:25	6° Ƴ 27'07		morning max el	8034 Mar 27 00:18	16°) 15′22	21°57'21
	8033 May 04 06:32	0°8		desc. node	8034 Apr 03 19:22	25° ¥ 25'58	
morning set	8033 May 18 12:59	22° 8 41'15			8034 Apr 07 05:05	0° Υ	
max. Earth dist.	8033 May 22 13:47	29° 8 36'23	1.39172 AU		8034 Apr 27 07:43	$_{0\circ}$ 8	
	8033 May 22 19:12	Π $^{\circ}0$		morning set	8034 Apr 28 19:31	2° 8 23'06	
				max. Earth dist.	8034 May 04 12:25	11° 8 43'34	1.41382 AU
superior conj	8033 May 30 03:41	13° Ⅱ 16′50					
minimum elong	8033 May 30 08:54	13° Ⅱ 41'07	1°26'12	superior conj	8034 May 12 05:55	24° 8 59'19	
	8033 Jun 07 21:34	0°छ		minimum elong	8034 May 12 11:34	25° 8 24'17	1°52'35
evening rise	8033 Jun 08 12:31	1° © 12'25			8034 May 15 01:27	Π °0	
asc. node	8033 Jun 09 01:01	2° © 12'47		evening rise	8034 May 22 20:59	14° Ⅱ 19'14	
evening max el	8033 Jun 24 16:51	27° © 22'01	18°41'35	asc. node	8034 May 26 22:03	21° Ⅱ 45'42	
	8033 Jun 28 01:07	0 $^{\circ}\Omega$			8034 May 31 15:22	0 \circ	
retrograde	8033 Jul 02 19:17	1° Ω 23′00		evening max el	8034 Jun 08 01:05	10° © 03'13	18°13'45
evening set	8033 Jul 04 20:30	1° Ω 08′28		retrograde	8034 Jun 15 02:32	13° © 36'24	
	8033 Jul 07 20:27	30° ₹ ∽		evening set	8034 Jun 17 11:16	13° © 13'14	
inferior conj	8033 Jul 12 18:42	26° © 45'12		inferior conj	8034 Jun 24 14:11	8° © 29'18	1°44'04
minimum elong	8033 Jul 12 19:28	26° © 43'46	0°19'49	minimum elong	8034 Jun 24 17:06	8° © 22'56	1°43'01
desc. node	8033 Jul 13 21:45	25° © 54'25		min. Earth dist.	8034 Jun 27 23:29	5° © 33'21	0.59370 AU
min. Earth dist.	8033 Jul 16 00:40	24° © 20'42	0.57255 AU	desc. node	8034 Jun 30 18:48	3° © 27'12	
morning rise	8033 Jul 20 14:55	21° © 35'12		morning rise	8034 Jul 01 19:52	2°5548'26	
direct	8033 Jul 26 07:04	20°515'38		direct	8034 Jul 08 04:15	0°957'05	
morning max el	8033 Aug 09 15:23	27° © 47'32	26°31'43	morning max el	8034 Jul 22 13:03	8°9547'28	27°32'05
	8033 Aug 11 19:15	0° Ω			8034 Aug 07 17:37	0°N	
	8033 Aug 31 20:53	0° m/y		asc. node	8034 Aug 22 21:25	28° Ω 01'49	
asc. node	8033 Sep 05 00:27	8° Mp 09'47		morning set	8034 Aug 23 00:13	28° Ω 16'31	
morning set	8033 Sep 07 16:52	13° m 45'13		Double dies	8034 Aug 23 19:52	0°M)	1 21670 AII
	0022 C 14 14.50	200 m 52110	1924100	max. Earth dist.	8034 Aug 29 11:38	12° m) 18'25	1.31679 AU
superior conj	8033 Sep 14 14:58	28° Mp 53'19	1°24'08		0024 A 20 02-20	120 m 41140	1007155
minimum elong	8033 Sep 14 12:52	28° Mp 41'43		superior conj	8034 Aug 30 02:39	13° Mp 41'40	1°07'33
max. Earth dist.	8033 Sep 15 01:20 8033 Sep 15 03:00	29 il∤3048 0° Ω	1.31818 AU	minimum elong evening rise	8034 Aug 30 00:24 8034 Sep 05 20:48	13° Mp 29'12 28° Mp 30'31	1 0/30
evening rise	8033 Sep 13 03:00 8033 Sep 21 12:07	0 = 13° £ 51'50		evening rise	8034 Sep 05 20.48 8034 Sep 06 13:38	0∘ ত 13031	
evening rise	8033 Sep 21 12:07 8033 Sep 29 16:07	0°M			8034 Sep 00 13.38 8034 Sep 23 03:31	0° ™	
desc. node	8033 Oct 09 20:37	16°M49'48		desc. node	8034 Sep 26 17:42	5°ML00'29	
desc. node	8033 Oct 09 20:37 8033 Oct 20 06:29	0° √		evening max el	8034 Oct 04 08:33	13°M40'30	26°06'12
evening max el	8033 Oct 22 10:00	2° ∡ *08'15	27°03'56	retrograde	8034 Oct 18 06:52	20°M44'50	20 00 12
retrograde	8033 Nov 05 07:32	9°×719'06	27 03 30	evening set	8034 Oct 24 17:16	19°M05'44	
evening set	8033 Nov 12 07:13	7° ⋌ 10'24		min. Earth dist.	8034 Oct 28 21:32	16°M30'58	0.58683 AU
min. Earth dist.	8033 Nov 16 00:41		0.60766 AU	inferior conj	8034 Nov 01 01:24	14° M L11'14	
inferior conj	8033 Nov 19 03:57	1° х 49'33		minimum elong	8034 Nov 01 08:07	13°M58'49	
minimum elong	8033 Nov 19 10:56	1° х ³34'42		morning rise	8034 Nov 09 01:14	9°M43'39	
	8033 Nov 21 09:13	30°RM		direct	8034 Nov 11 08:09	9°M26'12	
morning rise	8033 Nov 26 16:59	26°M59'38		asc. node	8034 Nov 18 20:58	12°M48'26	
direct	8033 Nov 28 22:06	26°M40'08		morning max el	8034 Nov 19 12:31	13°M24'34	18°31'45
asc. node	8033 Dec 01 23:59	27°M19'31			8034 Nov 30 18:41	0° ∡ 7	
	8033 Dec 05 21:02	0° ∡ 7		morning set	8034 Dec 05 13:49	9° ∡ 105'05	
morning max el	8033 Dec 06 04:29	0° ∡ 17'53	17°59'49	J			
morning set	8033 Dec 21 20:17	24° ₹ ′59'58		superior conj	8034 Dec 14 11:08	26° ₹ 03'38	1°05'07
<u> </u>	8033 Dec 24 13:18	0°ප		minimum elong	8034 Dec 14 14:36	26° ∡ 19'40	1°04'48
				, and the second	8034 Dec 16 14:27	0°ರ	
superior conj	8033 Dec 31 22:30	13° る 20'09	0°35'39	max. Earth dist.	8034 Dec 21 20:45	9° ප 22'08	1.40193 AU
minimum elong	8034 Jan 01 01:14	13° る 32'14	0°35'23	desc. node	8034 Dec 23 16:43	12° る 31'12	
desc. node	8034 Jan 05 19:43	21° ප් 46'44		evening rise	8034 Dec 26 02:24	16° පි 34'23	
max. Earth dist.	8034 Jan 08 12:37	26° る 18'59	1.42240 AU		8035 Jan 03 11:12	0° ≈	
	8034 Jan 10 18:19	0° ≈			8035 Jan 25 01:36	0° ∀	
evening rise	8034 Jan 14 06:38	5° ≈ 39'44		evening max el	8035 Jan 29 20:01	5° ₩ 13'19	23°47'27
	8034 Jan 30 09:22	0° ∀		retrograde	8035 Feb 09 17:18	11°) 38′04	

avanina aat	8035 Feb 14 21:34	9°) 28'45		ratra arada	9026 Ion 24 06:46	25% 054107	
evening set				retrograde	8036 Jan 24 06:46	25°≈54'07	
asc. node	8035 Feb 14 20:09	9°) (31'45	0.60000 444	evening set	8036 Jan 29 23:51	23°≈31'47	
min. Earth dist.	8035 Feb 19 16:44	3°) 54'31	0.68237 AU	asc. node	8036 Feb 01 17:13	20° ≈ 43'54	
inferior conj	8035 Feb 20 08:19	3° ∺ 01′23	1°43'35	min. Earth dist.	8036 Feb 03 11:22	18° ≈ 32'09	0.67686 AU
minimum elong	8035 Feb 20 06:16		1°42'57	inferior conj	8036 Feb 04 14:22	17° ≈ 03'49	0°56'28
	8035 Feb 22 15:29	30° Ŗ ≈		minimum elong	8036 Feb 04 13:03	17° ≈ 08'08	0°56'04
morning rise	8035 Feb 25 14:58	26° ≈ 57'32		morning rise	8036 Feb 10 02:31	11° ≈ 07'26	
direct	8035 Mar 01 17:16	25° ≈ 22'54		direct	8036 Feb 13 16:14	9° ≈ 54'08	
	8035 Mar 09 19:13	0° ∀		morning max el	8036 Feb 20 21:16	13° ≈ 54'35	19°31'35
morning max el	8035 Mar 09 18:46	29° ≈ 58'52	20°37'52		8036 Mar 04 04:58	0° ∀	
desc. node	8035 Mar 21 16:18	14°) 59′54		greatest brilliancy	8036 Mar 04 16:29	0°) 42′29	-0.7m
	8035 Mar 31 21:07	0° Υ		desc. node	8036 Mar 07 13:14	4°) €59'08	
morning set	8035 Apr 08 01:09	10° Y 58'48		morning set	8036 Mar 16 22:50	19° ₩ 19'57	
max. Earth dist.	8035 Apr 16 18:33	24° Υ 47'42	1.43302 AU	morning sec	8036 Mar 23 19:56	0°Υ	
max. Larm dist.	8035 Apr 10 18:55 8035 Apr 19 23:14	0°8	1.43302 AU	max. Earth dist.	8036 Mar 29 07:36	8° Ƴ 37'03	1.44700 AU
	0033 Apr 17 23.14	٥ ٠		max. Lartii dist.	0030 Wai 27 07.30	8 13703	1.44700 AC
gunariar agni	9025 Apr 22 00:00	5° 8 39'29	2000114	superior coni	9026 Apr 02 11:22	15° Ƴ 14'50	200027
superior conj	8035 Apr 23 09:09			superior conj	8036 Apr 02 11:32		
minimum elong	8035 Apr 23 12:09	5° 8 52'00	2°09'13	minimum elong	8036 Apr 02 08:08	15° Y 01'11	2°09'22
evening rise	8035 May 05 13:42	26° 8 41'08			8036 Apr 11 12:55	0° 8	
	8035 May 07 10:48	$\Pi^{\circ}0$		evening rise	8036 Apr 16 10:02	8° 8 08'06	
asc. node	8035 May 13 19:07	10° Ⅱ 57'52		asc. node	8036 Apr 29 16:10	29° 8 41'37	
evening max el	8035 May 22 13:30	23° Ⅱ 09'36	18°05'29		8036 Apr 29 21:14	Π $\circ 0$	
retrograde	8035 May 29 01:42	26° Ⅲ 31′02		evening max el	8036 May 05 02:43	6° Ⅱ 31'38	18°16'03
evening set	8035 May 31 17:52	25° Ⅱ 56'35		retrograde	8036 May 11 12:04	9° Ⅱ 55'57	
inferior conj	8035 Jun 07 04:48	20° Ⅲ 52'34	2°39'45	evening set	8036 May 14 11:18	9° Ⅱ 08'36	
minimum elong	8035 Jun 07 07:39	20° Ⅱ 45'23	2°38'58	inferior conj	8036 May 20 10:21	3° Ⅱ 46'13	3°11'15
min. Earth dist.	8035 Jun 10 06:17	17° Ⅱ 49'11	0.61617 AU	minimum elong	8036 May 20 12:05	3° Ⅱ 41'19	3°10'55
morning rise	8035 Jun 13 19:22	14° I 51′00		min. Earth dist.	8036 May 22 22:27		0.63722 AU
desc. node	8035 Jun 17 15:49	12° I I56'04		mm. Earth dist.	8036 May 23 20:01	30°R 8	0.03722710
direct	8035 Jun 20 12:27	12° I I30'04		morning rise	8036 May 26 11:39	27° 8 33'22	
			27°55'19	direct	•	24° 8 53'46	
morning max el	8035 Jul 04 17:18	20° Ⅱ 31'21	27-55-19		8036 Jun 02 05:39	_	
	8035 Jul 12 20:58	0°©		desc. node	8036 Jun 03 12:50	24° 8 59'10	
	8035 Jul 31 17:23	0 $^{\circ}\Omega$			8036 Jun 12 22:48	Π°	
morning set	8035 Aug 07 02:40	12° Ω 30'49		morning max el	8036 Jun 16 02:05	2° Ⅱ 55'24	27°40'56
asc. node	8035 Aug 09 18:24	18° Ω 03'03			8036 Jul 06 06:24	0_{\circ} වෙ	
max. Earth dist.	8035 Aug 12 19:48	24° Ω 37'27	1.31998 AU	morning set	8036 Jul 20 21:52	26° 5 21'16	
					8036 Jul 22 17:22	$0 {\circ} \Omega$	
superior conj	8035 Aug 14 12:48	28° Ω 21'31	0°47'02	max. Earth dist.	8036 Jul 25 21:50	6° Ω 35'58	1.32780 AU
minimum elong	8035 Aug 14 10:53	28° Ω 11′02	0°46'34	asc. node	8036 Jul 26 15:25	8° Ω 08'45	
	8035 Aug 15 06:43	o° mp					
evening rise	8035 Aug 21 07:55	13° m 13'21		superior conj	8036 Jul 28 19:29	12° Ω 46'54	0°21'56
* · · · · · · · · · · · · · · · · · · ·	8035 Aug 29 16:53	0ಂ ರ		minimum elong	8036 Jul 28 18:26	12°Ω41'17	
desc. node	8035 Sep 13 14:47	21° ≏ 59'03		evening rise	8036 Aug 04 19:33	27° Ω 54'15	0 2137
evening max el	8035 Sep 15 14.47 8035 Sep 15 23:16	21° ⊆ 3903 24° ⊆ 23'54	24941102	evening rise	8036 Aug 05 19:18	0° m	
evening max er	•		24 41 03		-	0∘ ਦ راآا	
	8035 Sep 23 20:05	0°M			8036 Aug 23 05:50		22002125
retrograde	8035 Sep 29 18:51	1°M20'55		evening max el	8036 Aug 27 10:37	4° £ 38'57	23°02'37
evening set	8035 Oct 05 03:04	0°M17'10		desc. node	8036 Aug 30 11:52	7° £ 18′27	
	8035 Oct 05 19:55	30° ₹ Ω		retrograde	8036 Sep 09 18:52	11° ≏ 19'15	
min. Earth dist.	8035 Oct 10 10:21		0.56773 AU	evening set	8036 Sep 13 14:59	10° ≏ 46'59	
inferior conj	8035 Oct 13 02:51	25° ≏ 47'09	-5°30'18	min. Earth dist.	8036 Sep 20 19:20	7° ≙ 30'45	0.55342 AU
minimum elong	8035 Oct 13 05:26	25° ≏ 43'00	5°30'05	inferior conj	8036 Sep 22 08:56	6° ≏ 36′22	-5°23'29
morning rise	8035 Oct 21 09:59	21° ≏ 42'02		minimum elong	8036 Sep 22 04:10	6° ≏ 43'17	5°22'59
direct	8035 Oct 23 23:41	21° ≏ 23'47		morning rise	8036 Sep 30 19:28	2° ≏ 46'32	
morning max el	8035 Nov 02 10:37	25° £ 52'19	19°25'34	direct	8036 Oct 03 20:07	2° £ 24'58	
asc. node	8035 Nov 05 17:57	29° £ 31'50		morning max el	8036 Oct 14 20:18	7° £ 33'51	20°41'40
	8035 Nov 06 02:47	0°M		asc. node	8036 Oct 22 14:57	17° £ 14'35	-
morning set	8035 Nov 19 15:39	23°M32'30			8036 Oct 29 20:44	0°M	
	8035 Nov 17 13:37 8035 Nov 22 20:47	0° ₹		morning set	8036 Nov 02 22:55	8°M14'03	
	0033 INUV 22 20.4/	V X		morning set	3030 110V 04 44.33	0 1161403	
gunorier con:	9025 Nov. 27, 16:20	00.724147	1025122	gunorier co-:	9026 Nov. 10, 00.52	220M 40124	1027110
superior conj	8035 Nov 27 16:28	9° x ⁷ 34'47		superior conj	8036 Nov 10 09:53	23°M40'34	1°37'10
minimum elong	8035 Nov 27 19:14	9° × ⁷ 48'21	1°25'14	minimum elong	8036 Nov 10 11:24	23°M48'20	1°37'11
max. Earth dist.	8035 Dec 04 02:35	21° ₹ 45′20	1.38026 AU		8036 Nov 13 13:12	0° ∡	
evening rise	8035 Dec 07 20:05	28° ₹ 27'00		max. Earth dist.	8036 Nov 15 10:32	3° х¹ 42′36	1.35987 AU
	8035 Dec 08 17:21	0°ರ		evening rise	8036 Nov 19 09:08	11° ∡ 11′24	
desc. node	8035 Dec 10 13:43	3°₹11′00		desc. node	8036 Nov 26 10:47	23° х 42′01	
	8035 Dec 27 20:56	0° ≈			8036 Nov 30 06:29	0°ರ	
evening max el	8036 Jan 12 09:10	19° ≈ 00'05	25°04'37		8036 Dec 22 05:18	0° ≈	
=							

avanina may al	9026 Dag 24 22:12	2° ≈ 46'23	26°11'47	max. Earth dist.	9027 Oat 20 01:20	15°M36'10	1.34269 AU
evening max el retrograde	8036 Dec 24 22:12 8037 Jan 06 15:28	2 ≈40 23 9°≈59'00	20 1147	evening rise	8037 Oct 29 01:20 8037 Nov 02 13:35	24°M36'49	1.34209 AU
evening set	8037 Jan 12 21:01	9 ≈3900 7°≈26'57		evening rise	8037 Nov 05 09:30	24 1163049 0° √ 7	
min. Earth dist.	8037 Jan 17 01:52	7 ≈20 37 3°≈01'55	0.66758 AU	desc. node	8037 Nov 03 09:50 8037 Nov 13 07:50	13° ∡ ¹58'24	
inferior conj	8037 Jan 17 01:32 8037 Jan 18 16:22	1°≈03'25	0.00738 AU 0°01'46	desc. Hode	8037 Nov 23 19:08	13 メ ・36 24	
minimum elong	8037 Jan 18 16:19	1°≈03'25	0°01'52	evening max el	8037 Nov 23 19.08 8037 Dec 07 11:21	0 3 16° る 24'20	2700141
transit middle	8037 Jan 18 16:19		0°01'52	•		16 3 24 20 23° 3 44'20	2/ 0141
		1°≈03'35	0-01-52	retrograde	8037 Dec 20 18:28	23°る4420 21°る07'54	
transit begin	8037 Jan 18 13:28	1°≈12'22		evening set	8037 Dec 27 11:00		0.65467.411
transit end	8037 Jan 18 19:09	0°≈54'49		min. Earth dist.	8037 Dec 31 10:01	17°る17'01	0.65467 AU
asc. node	8037 Jan 18 14:15	1°≈09'55		inferior conj	8038 Jan 02 12:06	14°る54'44	
	8037 Jan 19 13:07	30°Rる		minimum elong	8038 Jan 02 13:51	14° る 49'45	0°58'59
morning rise	8037 Jan 24 12:19	25° る 16'28		asc. node	8038 Jan 05 11:19	11° ろ 44'26	
direct	8037 Jan 27 14:56	24° පි 21'36		morning rise	8038 Jan 08 17:55	9° る 19'34	
morning max el	8037 Feb 03 07:06	27° る 59'03	18°40'52	direct	8038 Jan 11 11:20	8° る 39'24	
	8037 Feb 05 04:06	0° ≈		morning max el	8038 Jan 17 22:01	12° る 05'00	18°06'44
desc. node	8037 Feb 22 10:13	25°≈17'06			8038 Jan 30 14:27	0° ≈	
morning set	8037 Feb 24 12:53	28° ≈ 36′11		morning set	8038 Feb 05 07:56	9° ≈ 20'03	
	8037 Feb 25 10:13	0° ∀		desc. node	8038 Feb 09 07:11	15° ≈ 47'48	
max. Earth dist.	8037 Mar 12 01:08	22°) 54'48	1.45425 AU		8038 Feb 18 03:51	0° ∀	
						201/02/22	
superior conj	8037 Mar 12 19:38	24°) €07'17		superior conj	8038 Feb 20 02:07	3° ¥ 02'52	
minimum elong	8037 Mar 12 10:33	23°) 31'42	1°48'49	minimum elong	8038 Feb 19 17:51	2° 升 30′15	
	8037 Mar 16 13:31	0 ° \mathbf{Y}		max. Earth dist.	8038 Feb 22 20:31		1.45407 AU
evening rise	8037 Mar 28 07:02	18° Ƴ 36'55		evening rise	8038 Mar 08 06:28	28° 升 16′54	
	8037 Apr 04 09:41	$8^{\circ 0}$			8038 Mar 09 09:05	0 ° $\mathbf{\gamma}$	
greatest brilliancy	8037 Apr 04 22:53	0° 8 52'27	-0.9m	greatest brilliancy	8038 Mar 21 01:23	17° Ƴ 54'46	-0.7m
asc. node	8037 Apr 16 13:15	17° 8 48'19			8038 Mar 29 16:14	9° 8	
evening max el	8037 Apr 18 14:05	20° 8 03'21	18°44'41	evening max el	8038 Apr 01 21:31	3° 8 40'18	19°30'13
retrograde	8037 Apr 25 05:28	23° 8 43'17		asc. node	8038 Apr 03 10:19	5° 8 06'56	
evening set	8037 Apr 28 11:59	22° 8 42'03		retrograde	8038 Apr 09 02:40	7° 8 47'05	
inferior conj	8037 May 04 02:56	17° 8 03'03	3°23'36	evening set	8038 Apr 12 17:10	6° 8 31'11	
minimum elong	8037 May 04 03:17	17° 8 01'55	3°23'29	inferior conj	8038 Apr 18 03:12	0° 8 37'10	3°20'57
min. Earth dist.	8037 May 05 23:48	14° 8 44'47	0.65513 AU	minimum elong	8038 Apr 18 02:21	0° ප 39'57	3°20'48
morning rise	8037 May 09 17:57	10° 8 45'39		C	8038 Apr 18 14:28	30° ₹ Υ	
direct	8037 May 16 06:37	7° 8 58'29		min. Earth dist.	8038 Apr 19 08:59	28° Y 59'09	0.66891 AU
desc. node	8037 May 21 09:52	9° 8 23'29		morning rise	8038 Apr 23 11:11	24°Υ19'31	0.00091110
morning max el	8037 May 29 12:33	15° 8 49'01	26°53'51	direct	8038 Apr 29 13:56	21° Y 36'36	
morning max cr	8037 Jun 10 04:36	0°II	20 33 31	desc. node	8038 May 08 06:52	25° Υ 38'16	
	8037 Jun 29 01:47	0° ©		morning max el	8038 May 11 22:25	29° Υ 00'18	25°42'36
morning set	8037 Jul	9° © 39'11		morning max ci	8038 May 12 21:29	0° 8	23 42 30
max. Earth dist.	8037 Jul 04 00:48 8037 Jul 08 14:05	18° © 05'52	1.34048 AU		8038 Jun 03 23:57	0°II	
max. Earth dist.	803 / Jul 08 14.03	16 303 32	1.34046 AU			0 H 22°∏14'09	
	0027 1 1 12 20 22	260551120	0007142	morning set	8038 Jun 17 01:32		1 25700 ATT
superior conj	8037 Jul 12 20:32	26°951'30		max. Earth dist.	8038 Jun 20 19:16	29° Ⅱ 12'40	1.35788 AU
minimum elong	8037 Jul 12 20:54	26°53'25	0°06'46		8038 Jun 21 05:12	0ං ව	
behind sun begin	8037 Jul 12 15:42	26°526'14			0000 7 06 10 01	100000115	0025144
behind sun end	8037 Jul 13 02:07	27°520'39		superior conj	8038 Jun 26 13:21	10°528'45	
asc. node	8037 Jul 13 12:25	28°9514'40		minimum elong	8038 Jun 26 15:35	10°539'58	0°3′/26
	8037 Jul 14 08:28	0°N		asc. node	8038 Jun 30 09:27	18°5517'10	
evening rise	8037 Jul 20 05:47	12° Ω 27'02		evening rise	8038 Jul 04 12:31	26°5546'08	
	8037 Jul 29 05:48	0° m/y	0100		8038 Jul 06 02:41	0°N	2000=
evening max el	8037 Aug 09 03:32	15°Mp00'56	21°27'22	evening max el	8038 Jul 22 08:36	25° Ω 58'40	20°07'02
desc. node	8037 Aug 17 08:58	20° Tp 25'58			8038 Jul 27 20:17	0°Щ	
retrograde	8037 Aug 21 08:57	21°Mp04'36		retrograde	8038 Aug 01 22:18	1°Mp11'26	
evening set	8037 Aug 23 21:12	20° Mp 50'10		evening set	8038 Aug 03 20:10	1° m 01'58	
inferior conj	8037 Sep 02 02:47	16° Mp 52′04		desc. node	8038 Aug 04 06:03	0° Mp 57′32	
minimum elong	8037 Sep 01 17:21	17° m 05'17			8038 Aug 07 08:27	30° R Ω	
min. Earth dist.	8037 Sep 02 04:13	16° Mp 50′02	0.54700 AU	inferior conj	8038 Aug 12 21:55	27° Ω 03'17	-2°36'38
morning rise	8037 Sep 10 14:23	13°Mp00'35		minimum elong	8038 Aug 12 14:47	27° Ω 13'55	2°34'08
direct	8037 Sep 14 05:12	12°My32'14		min. Earth dist.	8038 Aug 14 14:56	26° Ω 02'15	0.55019 AU
morning max el	8037 Sep 26 17:41	18° m 28'05	22°17'02	morning rise	8038 Aug 21 08:01	22° Ω 50′09	
	8037 Oct 06 00:35	0∘ ⊽		direct	8038 Aug 25 16:37	22° Ω 08'52	
asc. node	8037 Oct 09 11:58	5° £ 42'26		morning max el	8038 Sep 08 07:14	28° Ω 49'01	24°02'32
morning set	8037 Oct 18 09:19	23° ჲ 02'27		-	8038 Sep 09 12:18	0° m p	
-	8037 Oct 21 15:54	0°M		asc. node	8038 Sep 26 08:59	24° m/44'18	
					8038 Sep 29 01:43	0∘ <u>⊽</u>	
superior conj	8037 Oct 25 11:39	8°11L09'08	1°41'29	morning set	8038 Oct 02 21:01	7° £ 52'33	
minimum elong	8037 Oct 25 11:50	8°M10'06	1°41'35	Č			
0							

superior conj	8038 Oct 09 18:55	22° £ 51'53	1°39'16	superior conj	8039 Sep 24 05:24	7° ≏ 41'26	1°31'12
minimum elong	8038 Oct 09 17:57	22° ≏ 46'36	1°39'17	minimum elong	8039 Sep 24 03:36	7° ჲ 31'31	1°31'03
max. Earth dist.	8038 Oct 12 00:41	27° ≏ 41'59	1.32966 AU	max. Earth dist.	8039 Sep 25 06:57	10° ≏ 02'12	1.32106 AU
	8038 Oct 13 02:35	0°M₊		evening rise	8039 Oct 01 06:13	22° £ 51'54	
evening rise	8038 Oct 17 05:41	8°M33'23			8039 Oct 04 18:40	0° ™	
	8038 Oct 28 20:03	0° ∡ 7		desc. node	8039 Oct 18 01:58	23°M18'32	
desc. node	8038 Oct 31 04:53	3° ₹ 53'31	27027100		8039 Oct 22 16:31	0° ⊀ ⁷	27922109
evening max el	8038 Nov 19 23:33 8038 Nov 20 06:42	29° メ 43'11 0°る	27°27'08	evening max el	8039 Nov 02 08:27 8039 Nov 16 04:05	12° ∡ *29'17 19° ∡ *42'49	21°22'08
retrograde	8038 Dec 03 14:57	0 3 7° る 01'51		retrograde evening set	8039 Nov 23 06:36	19 x 42 49	
evening set	8038 Dec 03 14.37 8038 Dec 10 15:16	4°る28'32		min. Earth dist.	8039 Nov 26 22:46	1/ x 21 33 14° x 30'08	0.61945 AU
min. Earth dist.	8038 Dec 14 09:35	1°る09'52	0.63847 AU	inferior conj	8039 Nov 29 22:10	11° х 47'11	
min. Earth dist.	8038 Dec 15 13:02	30°R. ₹	0.03017110	minimum elong	8039 Nov 30 04:17	11° × ⁷ 33'10	
inferior conj	8038 Dec 16 23:03	28° ∡ ³31'50	-2°06'56	morning rise	8039 Dec 07 04:05	6° ∡ 745'17	
minimum elong	8038 Dec 17 03:00	28° ∡ ²21'39		direct	8039 Dec 09 10:19	6° ₹ 23'03	
asc. node	8038 Dec 23 08:24	23° х 20'03		asc. node	8039 Dec 10 05:26	6° ∡ ¹25'53	
morning rise	8038 Dec 23 16:27	23° ∡ 11'32		morning max el	8039 Dec 16 07:39	9° ∡ 52'42	17°50'46
direct	8038 Dec 26 02:56	22° ∡ ¹42'08			8039 Dec 29 14:15	ರ°0	
morning max el	8039 Jan 01 15:14	26° ₹ 05'22	17°49'44	morning set	8040 Jan 01 02:29	4° ප 30'06	
	8039 Jan 04 23:29	ರ°0					
morning set	8039 Jan 18 06:33	21° る 24'35		superior conj	8040 Jan 12 01:32	23° る 49'33	0°14'33
	8039 Jan 23 07:40	0° ≈		minimum elong	8040 Jan 12 02:52	23° る 55'14	0°14'29
desc. node	8039 Jan 27 04:08	6° ≈ 26'56		behind sun begin	8040 Jan 11 23:09	23° る 39'20	
				behind sun end	8040 Jan 12 06:36	24° る 11'07	
superior conj	8039 Jan 31 01:07	12°≈49'07		desc. node	8040 Jan 14 01:05	27° ට 11'15	
minimum elong	8039 Jan 30 22:02	12°≈36'32		E d F.	8040 Jan 15 17:22	0° ≈	1 42270 444
max. Earth dist.	8039 Feb 05 15:23	21°≈48'50	1.44661 AU	max. Earth dist.	8040 Jan 19 07:13	5°≈53'25	1.43270 AU
avanina riaa	8039 Feb 10 20:17	0° ∺ 7° ∺ 35'31		evening rise	8040 Jan 26 09:18	17°≈10'54 0°) €	
evening rise	8039 Feb 15 18:07 8039 Mar 02 16:35	0° Υ			8040 Feb 03 18:42 8040 Feb 25 21:52	0° Υ	
evening max el	8039 Mar 15 23:42	17° Υ 18'52	20°30'35	evening max el	8040 Feb 25 21:32 8040 Feb 26 20:24	0° Υ 58'39	2104225
asc. node	8039 Mar 21 07:24	21° Y 23'04	20 30 33	retrograde	8040 Mar 06 22:58	6° Υ 22'16	21 42 23
retrograde	8039 Mar 24 01:08	22° Υ 01'24		asc. node	8040 Mar 07 04:29	6°Υ21'59	
evening set	8039 Mar 28 00:41	20° Y 30′20		evening set	8040 Mar 11 08:46	4°Υ35'53	
inferior conj	8039 Apr 02 08:23	14° Y 23′09	3°06'09	8	8040 Mar 15 10:43	30°₽)	
minimum elong	8039 Apr 02 06:40	14° Y 29′02	3°05'50	inferior conj	8040 Mar 16 16:18	28° ¥ 18′00	2°41'08
min. Earth dist.	8039 Apr 03 00:08	13° Y 29'15	0.67822 AU	minimum elong	8040 Mar 16 14:06	28°) €25'38	2°40'37
morning rise	8039 Apr 07 12:27	8° Ƴ 07'34		min. Earth dist.	8040 Mar 16 19:10	28° ₩ 08'02	0.68312 AU
direct	8039 Apr 13 02:26	5° Ƴ 38'24		morning rise	8040 Mar 21 19:17	22°) €05'54	
morning max el	8039 Apr 24 07:21	12° Y 20′32	24°17'06	direct	8040 Mar 26 19:15	19° ¥ 56′23	
desc. node	8039 Apr 25 03:50	13° Y 13′22		morning max el	8040 Apr 05 17:30	25°) 48′25	22°47'22
	8039 May 08 11:43	0°8			8040 Apr 09 13:13	0°Υ	
	8039 May 27 18:58	0°II		desc. node	8040 Apr 11 00:45	1° Y 46'42	
morning set	8039 May 30 00:54 8039 Jun 02 16:51	3° I 51'43	1 27002 AII		8040 May 01 00:13	0°8	
max. Earth dist.	8039 Jun 02 16:51	10° Ⅱ 20′27	1.37893 AU	morning set	8040 May 09 23:28 8040 May 14 13:37	14° 8 18'34	1.40139 AU
superior conj	8039 Jun 09 18:30	23° II 29'17	1000123	max. Earth dist.	8040 May 19 03:31	0° I I	1.40139 AU
minimum elong	8039 Jun 09 18:30 8039 Jun 09 22:45	23° II 49'40			8040 Way 19 03.31	υд	
minimum ciong	8039 Jun 13 03:00	0°95	1 00 30	superior conj	8040 May 22 07:54	5° ∏ 43'21	-1°38'43
asc. node	8039 Jun 17 06:28	8°911'42		minimum elong	8040 May 22 13:34	6°∏09'09	
evening rise	8039 Jun 18 13:12	10°9543'57		evening rise	8040 Jun 01 04:42	24° Ⅱ 12'33	
S	8039 Jun 29 02:36	$0^{\circ}\Omega$		asc. node	8040 Jun 03 03:29	27° I 54'07	
evening max el	8039 Jul 05 02:30	7° Ω 40'22	19°06'40		8040 Jun 04 06:18	0 \circ \odot	
retrograde	8039 Jul 14 00:07	12° Ω 04'16		evening max el	8040 Jun 17 06:32	20° © 02'17	18°27'10
evening set	8039 Jul 15 22:11	11° Ω 52'50		retrograde	8040 Jun 24 20:57	23° 5 49'46	
desc. node	8039 Jul 22 03:08	9° Ω 07'10		evening set	8040 Jun 27 01:13	23° © 31'59	
inferior conj	8039 Jul 24 07:44	7° Ω 40'06		inferior conj	8040 Jul 04 14:54	18° © 59'37	0°59'21
minimum elong	8039 Jul 24 06:00	7° Ω 43'03		minimum elong	8040 Jul 04 16:55	18° © 55'35	0°58'30
min. Earth dist.	8039 Jul 27 04:45	5° Ω 43'08	0.56241 AU	min. Earth dist.	8040 Jul 07 23:47	16°5519'08	0.58121 AU
morning rise	8039 Aug 01 10:46	2° £ 51'42		desc. node	8040 Jul 08 00:10	16°5518'24	
direct	8039 Aug 06 15:33	1° Ω 48'51	25942102	morning rise	8040 Jul 12 05:12	13°535'08	
morning max el	8039 Aug 20 20:11	9° Ω 04'09 0° m	25°43'03	direct	8040 Jul 18 04:49	12° © 02'30 19° © 43'11	27°01'45
asc. node	8039 Sep 05 13:12 8039 Sep 13 05:57	0°110/ 14°110/52		morning max el	8040 Aug 01 14:15 8040 Aug 10 08:43	19° © 43′11 0° Ω	21 0143
morning set	8039 Sep 13 03.37 8039 Sep 17 08:20	22° Mp 39'12			8040 Aug 28 04:38	0°m)	
morning set	8039 Sep 17 08:20 8039 Sep 20 17:44	0° ⊡		asc. node	8040 Aug 30 02:55	3°Mp55'24	
	3037 Зор 20 17.тт	~ -		morning set	8040 Aug 31 17:38	7° Mg 17'45	
				<i>5</i>		4	

superior conj	8040 Sep 07 17:10	22° m/31'52	1°1 <i>7</i> '51		8041 Aug 19 20:37	0° m	
minimum elong	8040 Sep 07 17:10 8040 Sep 07 14:57	22° m 19'34	1°17'31 1°17'30	max. Earth dist.	8041 Aug 22 02:38	~	1.31751 AU
max. Earth dist.	8040 Sep 07 14:37	22°m/29'58	1.31701 AU	max. Larm dist.	0041 Aug 22 02.30	+ 11/332+	1.51751 AO
max. Darur dist.	8040 Sep 11 02:13	0ಂ ರ	1.51701710	superior conj	8041 Aug 23 04:27	7° m)17'48	0°59'36
evening rise	8040 Sep 14 12:34	o — 7° Ω 24'57		minimum elong	8041 Aug 23 02:17	7° m 05'49	0°59'09
	8040 Sep 26 06:12	0°M		evening rise	8041 Aug 29 22:31	22° m 06'21	
desc. node	8040 Oct 03 23:03	12°M01'00		C	8041 Sep 02 17:22	0 ° $\mathbf{\overline{v}}$	
evening max el	8040 Oct 14 11:09	24°M29'30	26°43'17	desc. node	8041 Sep 20 20:09	29° ≏ 44'19	
C	8040 Oct 21 23:57	0° ∡ ¹			8041 Sep 21 01:16	0°M	
retrograde	8040 Oct 28 09:00	1° ∡ ³37'47		evening max el	8041 Sep 26 06:02	5°M39'33	25°32'39
•	8040 Nov 03 14:02	30°RM₊		retrograde	8041 Oct 10 04:14	12°M42'12	
evening set	8040 Nov 04 04:45	29°M40'11		evening set	8041 Oct 16 04:56	11° M 17'48	
min. Earth dist.	8040 Nov 08 01:03	27°M04'07	0.59870 AU	min. Earth dist.	8041 Oct 20 18:12	8° M 40'14	0.57823 AU
inferior conj	8040 Nov 11 05:55	24°M30'42	-4°22'23	inferior conj	8041 Oct 23 19:04	6°M33'46	-5°13'46
minimum elong	8040 Nov 11 13:09	24°M16'13	4°20'21	minimum elong	8041 Oct 24 00:34	6°M24'11	5°12'54
morning rise	8040 Nov 18 23:54	19°M50'28		morning rise	8041 Oct 31 22:34	2°M16'18	
direct	8040 Nov 21 05:18	19°M32'11		direct	8041 Nov 03 07:33	1°M58'59	
asc. node	8040 Nov 26 02:26	21°M05'10		morning max el	8041 Nov 12 00:11	6°№09'10	18°51'59
morning max el	8040 Nov 28 19:51	23°M17'13	18°10'59	asc. node	8041 Nov 12 23:26	7° ™ 07'48	
	8040 Dec 04 04:05	0°⊀			8041 Nov 27 03:44	0°⊀	
morning set	8040 Dec 14 13:30	18° ∡ 17'14		morning set	8041 Nov 28 10:59	2° ≯ 32'48	
	8040 Dec 20 19:34	0°ಕ					
		_		superior conj	8041 Dec 06 22:42		1°14'47
superior conj	8040 Dec 24 02:19	5° る 59'25	0°49'17	minimum elong	8041 Dec 07 01:59	19° ∡ 20′37	1°14'32
minimum elong	8040 Dec 24 05:35	6° る 14'09	0°48'57		8041 Dec 12 20:21	0° ろ	
desc. node	8040 Dec 30 22:05	17° る 56'39		max. Earth dist.	8041 Dec 13 23:55	2° る 02'59	1.39264 AU
max. Earth dist.	8040 Dec 31 17:46	19°る20'03	1.41393 AU	evening rise	8041 Dec 17 21:55	8° る 51'39	
evening rise	8041 Jan 05 16:41	27° る 31'54		desc. node	8041 Dec 17 19:07	8° る 39'43	
	8041 Jan 07 05:26	0° ≈			8041 Dec 31 03:41	0°≈	24921102
avanina may al	8041 Jan 27 10:50 8041 Feb 08 12:34	0° ∺ 14° ∺ 40'07	23°01'12	evening max el	8042 Jan 22 02:20 8042 Jan 23 18:14	28° ≈ 25'16 0° 米	24°21'02
evening max el retrograde	8041 Feb 08 12:34 8041 Feb 18 18:36	20°) (44'43	23 01 12	retrograde	8042 Jan 23 18:14 8042 Feb 02 10:44	5°) (04′21	
asc. node	8041 Feb 18 18:36 8041 Feb 22 01:34	19° H 50'39		evening set	8042 Feb 02 10.44 8042 Feb 07 20:18	2°)(49'20	
evening set	8041 Feb 22 01:34 8041 Feb 23 15:48	18° H 43'27		asc. node	8042 Feb 08 22:37	1° H 47'53	
min. Earth dist.	8041 Feb 28 15:53	13° X 4 3'27	0.68379 AU	asc. node	8042 Feb 10 13:14	1)(4/33 30°R≈	
inferior conj	8041 Mar 01 00:56	12° X 18'11	2°07'03	min. Earth dist.	8042 Feb 12 12:02	27°≈29'33	0.68047 AU
minimum elong	8041 Feb 28 22:42	12° X 25'54	2°06'25	inferior conj	8042 Feb 13 08:29	26°≈20'52	1°24'35
morning rise	8041 Mar 06 05:31	6°) 10'48	2 00 20	minimum elong	8042 Feb 13 06:41	26°≈26'56	1°24'01
direct	8041 Mar 10 15:26	4°) €23'30		morning rise	8042 Feb 18 17:09	20°≈19'45	1 2 . 0 .
morning max el	8041 Mar 19 08:06		21°22'08	direct	8042 Feb 22 13:53	18° ≈ 54'29	
desc. node	8041 Mar 28 21:41	21°) 01'50		morning max el	8042 Mar 02 05:55	23° ≈ 14'17	20°07'47
	8041 Apr 04 06:41	$0^{\circ}\mathbf{\Upsilon}$		Č	8042 Mar 08 00:48	0° ∀	
morning set	8041 Apr 19 18:27	23° Y 29'23		desc. node	8042 Mar 15 18:39	10°) 47′33	
-	8041 Apr 23 20:15	9° 8			8042 Mar 28 13:11	0° Y	
max. Earth dist.	8041 Apr 26 15:04	4° 8 32'12	1.42250 AU	morning set	8042 Mar 29 17:45	1° Y 50′02	
				max. Earth dist.	8042 Apr 08 23:45	17° Y 55'12	1.43972 AU
superior conj	8041 May 04 00:47	16° 8 59'57	-2°01'26				
minimum elong	8041 May 04 05:48	17° 8 21'34	2°01'13	superior conj	8042 Apr 14 17:23	27° Y 12'02	
	8041 May 11 09:47	Π $^{\circ}0$		minimum elong	8042 Apr 14 18:00	27° Ƴ 14'35	2°11'41
evening rise	8041 May 15 07:03	7° Ⅱ 01'44			8042 Apr 16 10:12	$8^{\circ 0}$	
asc. node	8041 May 21 00:32	17° Ⅱ 19'08		evening rise	8042 Apr 27 15:38	19° 8 01'01	
	8041 May 29 03:06	0 \circ \odot			8042 May 04 01:02	$\Pi^{\circ}0$	
evening max el	8041 May 31 16:56	2° © 55'18	18°07'52	asc. node	8042 May 07 21:35	6° Ⅱ 20′13	
retrograde	8041 Jun 07 11:37	6°9521'54		evening max el	8042 May 15 06:07	16° Ⅱ 09'36	18°07'46
evening set	8041 Jun 09 23:24	5°954'22		retrograde	8042 May 21 15:56	19° Ⅲ 30′25	
inferior conj	8041 Jun 16 19:03	1°501'50	2°10'57	evening set	8042 May 24 11:07	18° Ⅲ 50'41	2055145
minimum elong	8041 Jun 16 22:08	0°554'39	2°09'57	inferior conj	8042 May 30 16:32	13° Ⅱ 39'00	
min Fth U.	8041 Jun 17 21:29	30°RⅡ 27°Ⅲ50'20	0.60225 411	minimum elong	8042 May 30 18:59	13° Ⅱ 32'30	
min. Earth dist.	8041 Jun 20 02:05	27° ∏ 59'29	0.60325 AU	min. Earth dist.	8042 Jun 02 12:55	10° Ⅲ 39'06 7° Ⅲ 31'41	0.62545 AU
morning rise desc. node	8041 Jun 23 18:09 8041 Jun 24 21:11	25° Ⅲ 10'31 24° Ⅲ 31'29		morning rise desc. node	8042 Jun 06 01:09 8042 Jun 11 18:13	/°Щ31'41 5°Щ05'08	
desc. node direct	8041 Jun 24 21:11 8041 Jun 30 07:05	24°Щ31′29 23°Щ06′02		desc. node direct	8042 Jun 11 18:13 8042 Jun 12 19:40	5°Щ05'08 5°Щ01'36	
uncci	8041 Jul 30 07:05 8041 Jul 13 13:06	23°Щ0602		morning max el	8042 Jun 12 19:40 8042 Jun 26 21:27	13° Д 01'36	27°53'30
morning max el	8041 Jul 14 15:05	0 55 1°5902'37	27°46'42	morning max ci	8042 Jul 10 10:04	0°9	41 33 30
morning max ci	8041 Jul 14 13:03 8041 Aug 04 13:33	1 3 02 37	21 7072		8042 Jul 28 00:46	0°Ω	
morning set	8041 Aug 04 13.33 8041 Aug 15 23:12	21° Ω 43'09		morning set	8042 Jul 30 22:52	5° Ω 48'10	
asc. node	8041 Aug 16 23:53	21° £ 43′09 23° £ 52′19		asc. node	8042 Jul 30 22:32 8042 Aug 03 20:52	13° Ω 55'58	
	22.22.20	000217				000000	

max. Earth dist.	8042 Aug 05 08:27	17° Ω 05'57	1.32269 AU	,	8043 Jul 19 19:39	0° Ω	
superior conj	8042 Aug 07 13:22	21° Ω 52'24	0°36'52	asc. node	8043 Jul 21 17:53	4° Ω 02'19	
minimum elong	8042 Aug 07 11:46	21° Ω 43'38	0°36'27	superior conj	8043 Jul 22 17:58	6° Ω 09'59	0°10'11
minimum ciong	8042 Aug 11 06:33	0° m	0 3027	minimum elong	8043 Jul 22 17:38 8043 Jul 22 17:28	6° Ω 07'16	0°09'58
evening rise	8042 Aug 14 10:05	6° Mp 48' 59		behind sun begin	8043 Jul 22 17:28	5°Ω44'16	0 07 50
evening rise	8042 Aug 26 11:54	0∘ ಹ		behind sun end	8043 Jul 22 21:48	6°Ω30'18	
desc. node	8042 Sep 07 17:15	ა _ 16° ჲ 04'30		evening rise	8043 Jul 29 21:23	21° Ω 27'24	
evening max el	8042 Sep 07 18:34	16° ⊆ 07'42	23°59'52	evening rise	8043 Aug 03 00:47	0°m)	
retrograde	8042 Sep 21 11:10	22° £ 59'13	25 05 02	evening max el	8043 Aug 20 07:17	26° Mp 21'21	22°20'44
evening set	8042 Sep 26 04:21	22° ₽ 10'23		ovening man er	8043 Aug 24 18:03	0∘ ʊ	
min. Earth dist.	8042 Oct 02 05:12	19° £ 12'51	0.56084 AU	desc. node	8043 Aug 25 14:19	0° £ 31'40	
inferior conj	8042 Oct 04 11:55	17° ≏ 49'21		retrograde	8043 Sep 02 05:40	2° £ 47'43	
minimum elong	8042 Oct 04 11:32			evening set	8043 Sep 05 10:55	2° £ 24'52	
morning rise	8042 Oct 12 20:50	13° ≏ 51'43		8	8043 Sep 11 11:52	30°R, Mp	
direct	8042 Oct 15 14:39	13° ≏ 32'22		min. Earth dist.	8043 Sep 13 13:35	28° m 51'55	0.54968 AU
morning max el	8042 Oct 25 17:10	18° ≏ 17'32	19°55'15	inferior conj	8043 Sep 14 11:25	28° m/21'08	
asc. node	8042 Oct 30 20:26	24° £ 17'59		minimum elong	8043 Sep 14 03:54	28° m 31'45	
	8042 Nov 03 13:53	0° M		morning rise	8043 Sep 22 22:37	24° m 33'07	
morning set	8042 Nov 12 15:26	17°ML06'36		direct	8043 Sep 26 05:16	24° m) 08'58	
5 - 5	8042 Nov 18 23:24	0° ∡ 7		morning max el	8043 Oct 07 21:09	29° m 37'09	21°20'15
				<i>y</i>	8043 Oct 08 06:47	0∘ <u>ಹ</u>	
superior conj	8042 Nov 20 09:38	2° х 51'38	1°31'20	asc. node	8043 Oct 17 17:26	12° £ 21'06	
minimum elong	8042 Nov 20 11:55	3° ₹ '03'00	1°31'17		8043 Oct 27 02:44	0°M	
max. Earth dist.	8042 Nov 26 05:51	14° ₹ 11'32	1.37131 AU	morning set	8043 Oct 28 00:15	1°M51'25	
evening rise	8042 Nov 30 00:17	21° х 07'13		. <i>8</i>			
desc. node	8042 Dec 04 16:11	29° х 16′12		superior conj	8043 Nov 04 06:56	17° M 07'34	1°39'51
	8042 Dec 05 02:31	0°る		minimum elong	8043 Nov 04 07:53	17°M12'27	1°39'56
	8042 Dec 25 02:35	0° ≈		max. Earth dist.	8043 Nov 08 16:36	26°M₀05'33	1.35214 AU
evening max el	8043 Jan 04 15:30	12°≈12'55	25°35'00		8043 Nov 10 16:16	0° ∡ 7	
retrograde	8043 Jan 16 22:16	19° ≈ 16′00		evening rise	8043 Nov 12 20:20	4° √ 09'43	
evening set	8043 Jan 22 20:38	16° ≈ 49'23		desc. node	8043 Nov 21 13:14	19° ∡ ¹41'25	
asc. node	8043 Jan 26 19:41	12° ≈ 34'27			8043 Nov 27 23:18	8°0	
min. Earth dist.	8043 Jan 27 05:19	12° ≈ 04'12	0.67331 AU	evening max el	8043 Dec 18 04:46	25° る 56'49	26°35'41
inferior conj	8043 Jan 28 13:05	10° ≈ 22'41	0°34'13	Ü	8043 Dec 22 23:41	0° ≈	
minimum elong	8043 Jan 28 12:14	10° ≈ 25'23	0°33'58	retrograde	8043 Dec 31 04:22	3°≈12'59	
morning rise	8043 Feb 03 04:14	4° ≈ 29'47		evening set	8044 Jan 06 14:58	0°≈38'26	
direct	8043 Feb 06 13:05	3°≈24'34			8044 Jan 07 08:57	30°R₹	
morning max el	8043 Feb 13 11:38	7°≈13'48	19°08'01	min. Earth dist.	8044 Jan 10 17:18	26° ♂ 28'09	0.66250 AU
greatest brilliancy	8043 Feb 26 23:13	25° ≈ 18'42	-0.7m	inferior conj	8044 Jan 12 12:41	24° ප 18'53	-0°23'36
	8043 Mar 02 01:07	0° ℋ		minimum elong	8044 Jan 12 13:20	24° る 16'57	0°23'11
desc. node	8043 Mar 02 15:37	0°) 55'37		asc. node	8044 Jan 13 16:46	22° る 56'12	
morning set	8043 Mar 08 19:52	10°) €27'40		morning rise	8044 Jan 18 12:34	18° る 36'38	
	8043 Mar 21 08:47	0 ° $\mathbf{\gamma}$		direct	8044 Jan 21 11:08	17° る 48'20	
max. Earth dist.	8043 Mar 22 15:09	1° Ƴ 59′20	1.45098 AU	morning max el	8044 Jan 27 23:54	21° る 19'06	18°24'21
					8044 Feb 03 21:05	0° ≈	
superior conj	8043 Mar 25 10:42	6° Y 25'51	-2°03'30	morning set	8044 Feb 16 21:43	20° ≈ 20′02	
minimum elong	8043 Mar 25 04:22	6° Ƴ 00'44	2°03'11	desc. node	8044 Feb 17 12:35	21° ≈ 19′18	
evening rise	8043 Apr 09 02:16	0° 8 03'29			8044 Feb 22 23:39	0° ∀	
	8043 Apr 09 01:25	9° 8					
asc. node	8043 Apr 24 18:40	24° 8 49'53		superior conj	8044 Mar 03 15:33	15° ∺ 12'07	-1°35'27
evening max el	8043 Apr 28 19:00	29° 8 37'29	18°26'06	minimum elong	8044 Mar 03 05:56	14°) 34′29	1°34'27
	8043 Apr 29 04:12	$\Pi^{\circ}0$		max. Earth dist.	8044 Mar 04 10:24	16° ∺ 25'54	1.45508 AU
retrograde	8043 May 05 05:43	3° Ⅱ 06'32			8044 Mar 13 02:22	0 ° Υ	
evening set	8043 May 08 08:06	2° Ⅱ 13'14		evening rise	8044 Mar 19 13:26	10° Ƴ 09'24	
	8043 May 11 03:55	30° ₹ 8		greatest brilliancy	8044 Mar 29 14:14	25° Ƴ 54'19	-0.8m
inferior conj	8043 May 14 03:16		3°18'32		8044 Apr 01 06:25	9° 8	
minimum elong	8043 May 14 04:25	26° 8 40'16	3°18'19	asc. node	8044 Apr 10 15:45	12° 8 37'36	
min. Earth dist.	8043 May 16 08:57	24° 8 06'24	0.64537 AU	evening max el	8044 Apr 11 04:55	_	19°02'02
morning rise	8043 May 19 23:51	20° 8 28'32		retrograde	8044 Apr 18 01:08	17° 8 01'46	
direct	8043 May 26 16:25	17° 8 44'12		evening set	8044 Apr 21 11:01	15° 8 54'09	
desc. node	8043 May 29 15:13	18° 8 12'12		inferior conj	8044 Apr 26 23:29	10° 8 08'20	3°24'05
morning max el	8043 Jun 09 07:06	25° 8 41'56	27°24'23	minimum elong	8044 Apr 26 23:18	10° 8 08'54	3°23'59
	8043 Jun 13 05:50	$\Pi^{\circ}0$		min. Earth dist.	8044 Apr 28 13:44	8° 8 06'45	0.66154 AU
	8043 Jul 03 22:52	0 \circ \odot		morning rise	8044 May 02 11:09	3° 8 50'32	
morning set	8043 Jul 14 14:06	19° 5 25'49		direct	8044 May 08 19:57	1° 8 04'12	
max. Earth dist.	8043 Jul 19 06:40	28° 9 52'44	1.33268 AU	desc. node	8044 May 15 12:13	3° 8 27'15	

morning max el	8044 May 21 17:35 8044 Jun 07 08:41 8044 Jun 25 10:02	8° ∀ 44'35 0°Ⅲ 0°∽	26°26'00	morning max el	8045 May 04 03:12 8045 May 11 02:26 8045 May 31 15:16	22°Y00'55 0°႘ 0°Ⅱ	25°07'25
morning set	8044 Jun 26 17:32	2°526'42		morning set	8045 Jun 09 04:44	14° ∏ 39'10	
max. Earth dist.	8044 Jun 30 18:31	10°©12'46	1.34743 AU	max. Earth dist.	8045 Jun 12 19:56 8045 Jun 17 10:04	21°∏16'33 0°©	1.36647 AU
superior conj	8044 Jul 05 15:53	20°503'41			0045 1 10 04 10	2052(102	0051112
minimum elong asc. node	8044 Jul 05 16:59 8044 Jul 07 14:55	20°509'24 24°507'09	0°19'33	superior conj minimum elong	8045 Jun 19 04:10 8045 Jun 19 07:16	3° 5 26'03 3° 5 41'21	
asc. nouc	8044 Jul 10 10:24	0°Ω		asc. node	8045 Jun 24 11:55	14°906'32	0 30 40
evening rise	8044 Jul 13 06:25	5° Ω 55'19		evening rise	8045 Jun 27 10:56	20°906'13	
Č	8044 Jul 26 11:51	0° m/		Č	8045 Jul 02 11:38	$0^{\circ}\Omega$	
evening max el	8044 Aug 01 04:46	6° M 55′32	20°50'46	evening max el	8045 Jul 14 15:25	18° Ω 11'41	19°38'46
desc. node	8044 Aug 11 11:22	12°M 34'41		retrograde	8045 Jul 24 11:47	23° Ω 03′04	
retrograde	8044 Aug 12 18:05	12°M 38'45		evening set	8045 Jul 26 08:12	22° Ω 53'31	
evening set	8044 Aug 14 22:04	12° m 27'30		desc. node	8045 Jul 29 08:26	22° Ω 00'45	
inferior conj	8044 Aug 24 03:55	8° m 30'34		inferior conj	8045 Aug 04 04:03	18° Ω 50'01	
minimum elong	8044 Aug 23 18:42	8° To 43'41	3°38'02	minimum elong	8045 Aug 03 23:11	18° Ω 57'40	1°44'48
min. Earth dist.	8044 Aug 24 22:44	8° Mp 03'49	0.54719 AU	min. Earth dist.	8045 Aug 06 10:49	17° Ω 24'14	0.55434 AU
morning rise	8044 Sep 01 15:27	4° Mp 32'35		morning rise	8045 Aug 12 11:53	14° \O 22'25 13° \O 33'15	
direct morning max el	8044 Sep 05 13:19 8044 Sep 18 14:27	3° Mp 59'51 10° Mp 14'40	22001/24	direct morning max el	8045 Aug 17 04:38 8045 Aug 31 03:07	20° Ω 30'18	24946!50
morning max er	8044 Sep 18 14.27 8044 Oct 03 00:03	0° ⊽	23 01 34	morning max er	8045 Sep 08 06:42	0° m)	24 40 39
asc. node	8044 Oct 03 00:03 8044 Oct 03 14:27	0 — 1° ≏ 04'42		asc. node	8045 Sep 20 11:26	ران 0 17'57 (10°20°	
morning set	8044 Oct 11 11:26	16° Ω 41'38		use. Houe	8045 Sep 25 06:00	0° ರ	
3	8044 Oct 17 16:06	0°M		morning set	8045 Sep 25 23:10	1° ≙ 30'59	
superior conj	8044 Oct 18 11:23	1° ጤ 43'27	1°41'18	superior conj	8045 Oct 02 20:17	16° ≏ 30'13	1°36'32
minimum elong	8044 Oct 18 11:02	1°M41'37	1°41'23	minimum elong	8045 Oct 02 18:55	16° ≏ 22'44	1°36'29
max. Earth dist.	8044 Oct 21 11:15	8°M04'17	1.33658 AU	max. Earth dist.	8045 Oct 04 13:40	20° ≏ 15'46	1.32539 AU
evening rise	8044 Oct 26 06:10	17° M 49'33			8045 Oct 09 03:36	0° M	
	8044 Nov 01 17:01	0°⊀		evening rise	8045 Oct 10 02:12	1°M56'26	
desc. node	8044 Nov 07 10:16	9° ∡ ′49'51		desc. node	8045 Oct 25 07:19	29°M33'20	
	8044 Nov 21 06:36	0°る	27015151		8045 Oct 25 14:05	0° ⊼ ¹	27020156
evening max el	8044 Nov 29 17:36	9° පි 27'48 16° පි 48'03	27°15'51	evening max el	8045 Nov 12 04:27		27°28'56
retrograde evening set	8044 Dec 13 04:36 8044 Dec 20 01:08	16° 6 4803		retrograde evening set	8045 Nov 25 22:17 8045 Dec 03 00:21	29° 尽 51'07 27° 尽 21'31	
min. Earth dist.	8044 Dec 20 01:08 8044 Dec 23 21:52	14 3 11 33	0.64817 AU	min. Earth dist.	8045 Dec 06 17:08	24° 🖈 15'21	0.63065 AU
inferior conj	8044 Dec 26 04:59	8° る 04'51		inferior conj	8045 Dec 00 17:08 8045 Dec 09 11:15	21°×733'20	
minimum elong	8044 Dec 26 07:38	7° る 57'37		minimum elong	8045 Dec 09 16:10	21° × ² 21'15	
asc. node	8044 Dec 30 13:49	3°₹51′26		morning rise	8045 Dec 16 09:59	16° х 20′42	
morning rise	8045 Jan 01 15:35	2° る 35'57		asc. node	8045 Dec 17 10:51	16° ₹ °03'01	
direct	8045 Jan 04 05:48	2° る 00'49		direct	8045 Dec 18 18:10	15° ₹ 54'55	
morning max el	8045 Jan 10 16:14	5° る 24'03	17°57'27	morning max el	8045 Dec 25 09:33	19° х 1 9'59	17°47'55
	8045 Jan 27 05:03	0° ≈			8046 Jan 02 06:14	0°ರ	
morning set	8045 Jan 28 05:06	1° ≈ 40′09		morning set	8046 Jan 10 13:33	14° る 12'24	
desc. node	8045 Feb 03 09:34	11° ≈ 54′09			8046 Jan 19 17:27	0° ≈	
	004571 11 00 15	240 24127	00.53140	desc. node	8046 Jan 21 06:31	2° ≈ 35'39	
superior conj	8045 Feb 11 03:15	24°≈24'27			9046 I 22 12-41	40 41!! 4	0800110
minimum elong	8045 Feb 10 21:00 8045 Feb 14 15:54	23°≈59'31 0°) €	0°52'52	superior conj minimum elong	8046 Jan 22 12:41 8046 Jan 22 11:44	4°≈41'14 4°≈37'20	-0°09'10 0°08'54
max. Earth dist.	8045 Feb 14 15.34 8045 Feb 15 06:02	0°) 55'41	1.45171 AU	behind sun begin	8046 Jan 22 03:55	4 ≈3720 4°≈04'49	0 08 34
evening rise	8045 Feb 27 06:14	19°) 35'45	1.431/1 AO	behind sun end	8046 Jan 22 19:34	5°≈09'48	
e vennig rise	8045 Mar 06 01:19	0°Υ		max. Earth dist.	8046 Jan 28 23:12	15°≈11'04	1.44135 AU
greatest brilliancy	8045 Mar 13 15:39	11° Y 23'56	-0.6m	evening rise	8046 Feb 06 17:20	28°≈55'56	1.11155116
evening max el	8045 Mar 25 10:06	26° Y 48'48	19°54'11	<i>Q</i> 11	8046 Feb 07 09:59	0°) €	
asc. node	8045 Mar 28 12:49	29° Ƴ 31'07			8046 Feb 27 20:14	0° Υ	
	8045 Mar 29 06:35	0°8		evening max el	8046 Mar 08 09:48	10° Ƴ 27'12	21°00'02
retrograde	8045 Apr 01 23:16	1° 8 10'17		asc. node	8046 Mar 15 09:53	15° Ƴ 15'55	
	8045 Apr 05 10:36	30° ₹ Υ		retrograde	8046 Mar 16 21:43	15° Y 27′22	
evening set	8045 Apr 05 17:26	29° Y 47'58		evening set	8046 Mar 21 01:22	13° Y 49'58	
inferior conj	8045 Apr 11 02:09	23° Y 47'49	3°16'00	inferior conj	8046 Mar 26 08:46	7° Υ 37'53	2°56'43
minimum elong	8045 Apr 11 00:53	23°Y52'02	3°15'48	minimum elong	8046 Mar 26 06:48	7° Υ 44'42	2°56'19
min. Earth dist.	8045 Apr 12 01:46	22° Y 28'28	0.67337 AU	min. Earth dist.	8046 Mar 26 18:58	7° Υ 02'36 1° Υ 23'21	0.68076 AU
morning rise	8045 Apr 16 08:05	17° Υ 30'36 14° Υ 52'47		morning rise	8046 Mar 31 12:00	1°° γ °23°21 30° R∺	
direct desc. node	8045 Apr 22 05:30 8045 May 02 09:12	14° γ 52'47 20° Υ 18'58		direct	8046 Apr 02 09:08 8046 Apr 05 20:03	30°₹₹ 29° ┼ 01'52	
acse. Houc	5075 Iviay 02 09.12	40 I 10 J0		direct	00 1 0 Apr 03 20.03	27 NUI 32	

	8046 Apr 09 14:23	0°Υ		inferior conj	8047 Mar 10 17:11	21°) 34'46	2°27'45
morning max el	8046 Apr 16 12:15	5° Υ 24'01	23°38'53	minimum elong	8047 Mar 10 17:11 8047 Mar 10 14:55	21°) (42'40	2°27'10
desc. node	8046 Apr 19 06:10	8° Υ 20'56	23 30 33	min. Earth dist.	8047 Mar 10 14:59	21°)(42'28	0.68389 AU
dese. Hode	8046 May 05 11:37	0°8		morning rise	8047 Mar 15 20:32	15°) 24'29	0.00307710
morning set	8046 May 21 18:17	25° 8 48'45		direct	8047 Mar 20 14:34	13° ¥ 24'00	
morning set	8046 May 24 04:49	0°II		morning max el	8047 Mar 29 23:38	18°) 54'05	22°10'05
max. Earth dist.	8046 May 25 15:46		1.38836 AU	desc. node	8047 Apr 06 03:07	27°) 13'12	22 10 03
max. Lartii dist.	0040 Way 23 13.40	2 1132 43	1.50050710	dese. Hode	8047 Apr 08 06:02	0°Υ	
superior conj	8046 Jun 02 03:13	16° Ⅱ 08'24	-1°22'19		8047 Apr 28 15:26	0°8	
minimum elong	8046 Jun 02 08:12	16° I I31'50		morning set	8047 May 02 04:56	5° 8 41'39	
minimum ciong	8046 Jun 09 08:24	0°95	1 21 44	max. Earth dist.	8047 May 02 04:30 8047 May 07 13:49	14° 8 32'36	1.41067 AU
evening rise	8046 Jun 11 08:10	3°952'46		max. Earth dist.	0017 May 07 15.17	11 03230	1.11007 110
asc. node	8046 Jun 11 08:56	3°956'31		superior conj	8047 May 15 08:27	27° 8 59'05	-1°49'30
use. Houe	8046 Jun 27 09:14	0°Ω		minimum elong	8047 May 15 14:12	28° 8 24'39	
evening max el	8046 Jun 27 14:13	0° Ω 12'26	18°47'27	minimum ciong	8047 May 16 11:33	0°II	1 47 04
retrograde	8046 Jul 05 21:13	4°Ω18'43	10 4/2/	evening rise	8047 May 10 11:33 8047 May 25 18:33	17° I 105'11	
evening set	8046 Jul 07 21:33	4°Ω05'06		asc. node	8047 May 29 16:55 8047 May 29 05:58	23° II 31'49	
inferior conj	8046 Jul 15 22:44	29° © 44'47	0°05'05	ase. Hode	8047 Jun 01 20:42	0° 9	
minimum elong	8046 Jul 15 22:56	29°5944'26	0°04'53	evening max el	8047 Jun 10 21:30	12° © 48'47	18°16'38
transit middle	8046 Jul 15 22:56	29°544'26	0°04'53	•	8047 Jun 10 21:50 8047 Jun 18 01:53	12 \$34847 16°\$25'06	16 10 36
			0 04 33	retrograde			
transit begin	8046 Jul 15 19:25	29°950'50		evening set	8047 Jun 20 09:30	16°503'23	1022111
transit end	8046 Jul 16 02:27	29°538'00		inferior conj	8047 Jun 27 15:06	11°522'21	1°33'11
	8046 Jul 15 14:22	30°Rூ		minimum elong	8047 Jun 27 17:52	11°5516'28	1°32'09
desc. node	8046 Jul 16 05:29	29° © 32'27		min. Earth dist.	8047 Jul 01 00:38	8°529'49	0.59041 AU
min. Earth dist.	8046 Jul 19 02:58	27° © 26'52	0.56977 AU	desc. node	8047 Jul 03 02:32	6° © 55'34	
morning rise	8046 Jul 23 20:53	24°9540'18		morning rise	8047 Jul 04 23:05	5° © 45'31	
direct	8046 Jul 29 10:17	23° © 25'10		direct	8047 Jul 11 05:27	3° © 59'04	
	8046 Aug 11 19:12	$0^{\circ}\Omega$		morning max el	8047 Jul 25 14:26	11° © 46'51	27°25'21
morning max el	8046 Aug 12 17:46	0° £ 53′02	26°19'53		8047 Aug 08 20:49	$0^{\circ}\Omega$	
	8046 Sep 02 05:55	0° mp		asc. node	8047 Aug 25 05:23	29° Ω 43'09	
asc. node	8046 Sep 07 08:24	9° m 53'03			8047 Aug 25 08:36	O° My	
morning set	8046 Sep 10 09:50	16°Mp 14'51		morning set	8047 Aug 25 17:47	0° Mp 48′04	
	8046 Sep 16 16:55	0∘ ⊽					
				superior conj	8047 Sep 01 19:22	16° Mp 10'11	1°10'41
superior conj	8046 Sep 17 07:35	1° £ 21'15		minimum elong	8047 Sep 01 17:07	15° m 57'41	1°10'17
minimum elong	8046 Sep 17 05:33	1° ≙ 10'01	1°25'56	max. Earth dist.	8047 Sep 01 08:09	15° m 07'57	1.31674 AU
max. Earth dist.	8046 Sep 17 21:46	2° £ 39'44	1.31881 AU		8047 Sep 08 02:32	0ಂ ರಾ	
evening rise	8046 Sep 24 05:33	16° ≏ 22'23		evening rise	8047 Sep 08 13:43	0° £ 59'48	
	8046 Oct 01 01:40	0°M₊			8047 Sep 24 04:56	0°M₊	
desc. node	8046 Oct 12 04:23	18°M41'46		desc. node	8047 Sep 29 01:28	7°M01'15	
	8046 Oct 20 16:47	0°⊀		evening max el	8047 Oct 07 10:55	16°M41'20	26°16'45
evening max el	8046 Oct 25 11:09		27°09'45	retrograde	8047 Oct 21 09:02	23°M46'22	
retrograde	8046 Nov 08 08:18	12° ∡ 12'55		evening set	8047 Oct 27 22:19	22°M02'15	
evening set	8046 Nov 15 08:57	10° ₹ 00'51		min. Earth dist.	8047 Nov 01 00:07	19° M 27'44	
min. Earth dist.	8046 Nov 19 01:53	7° ҂ 17'07	0.61075 AU	inferior conj	8047 Nov 04 04:33	17°M04'02	-4°46'48
inferior conj	8046 Nov 22 04:16	4° ∡ ³36′17	-3°45'23	minimum elong	8047 Nov 04 11:30	16°M50'54	4°45'12
minimum elong	8046 Nov 22 11:05	4° ∡ ¹21'31	3°43'05	morning rise	8047 Nov 12 02:57	12°M33'06	
	8046 Nov 28 19:57	30°RM₊		direct	8047 Nov 14 09:23	12°M15′29	
morning rise	8046 Nov 29 15:30	29°M43'02		asc. node	8047 Nov 21 04:54	15° ™ 05'01	
direct	8046 Dec 01 20:46	29°M22'56		morning max el	8047 Nov 22 09:48	16°M10'00	18°25'43
asc. node	8046 Dec 04 07:53	29°M48'40			8047 Dec 02 02:47	0° ∡ ¹	
	8046 Dec 04 19:39	0° ∡ 7		morning set	8047 Dec 08 08:36	11° ∡ ³38'25	
morning max el	8046 Dec 09 00:34	2° ҂ 758′25	17°56'49				
morning set	8046 Dec 24 16:33	27° ∡ ³37'13		superior conj	8047 Dec 17 09:39	28° ∡ ¹47′20	1°01'14
	8046 Dec 25 23:41	0°ರ		minimum elong	8047 Dec 17 13:06	29° ∡ ¹03'15	1°00'55
					8047 Dec 18 01:27	0°ප	
superior conj	8047 Jan 03 23:50	16° ට 11'44	0°30'23	max. Earth dist.	8047 Dec 24 21:35	12° る 09'53	1.40510 AU
minimum elong	8047 Jan 04 02:17	16° る 22'27	0°30'09	desc. node	8047 Dec 26 00:31	14° る 05'19	
desc. node	8047 Jan 08 03:30	23° る 20'26		evening rise	8047 Dec 29 06:46	19° る 33'56	
max. Earth dist.	8047 Jan 11 12:34	28° る 59'23	1.42521 AU	Č	8048 Jan 04 18:30	0° ≈	
	8047 Jan 12 03:17	0° ≈	-		8048 Jan 25 21:26	0°) €	
evening rise	8047 Jan 17 14:12	8° ≈ 47'45		evening max el	8048 Feb 01 19:32	7° ₩ 51'08	23°35'27
				=		14°)(10'44	
	8047 Jan 31 13:53	0° ₩		retrograde	8048 Feb 12 12:49	14 TT 10 44	
evening max el	8047 Jan 31 13:53 8047 Feb 19 04:28	0° ∺ 24° ∺ 07′26	22°15'35	retrograde asc. node	8048 Feb 12 12:49 8048 Feb 17 04:01		
evening max el	8047 Feb 19 04:28	24° ₩ 07'26	22°15'35	asc. node	8048 Feb 17 04:01	12° ∺ 26′10	
retrograde	8047 Feb 19 04:28 8047 Feb 28 18:41	24° ₭ 07'26 29° ₭ 48'36	22°15'35	asc. node evening set	8048 Feb 17 04:01 8048 Feb 17 15:18	12° ∺ 26′10 12° ∺ 03′22	0 68290 AII
•	8047 Feb 19 04:28	24° ₩ 07'26	22°15'35	asc. node	8048 Feb 17 04:01	12° ∺ 26′10	0.68290 AU 1°50'03

minimum elong	8048 Feb 22 23:29	5°) 43'41	1°49'24	inferior conj	8049 Feb 06 08:06	19° ≈ 38'59	1°04'10
	8048 Feb 27 18:08	30°R≈		minimum elong	8049 Feb 06 06:38	19° ≈ 43'49	1°03'41
morning rise	8048 Feb 28 07:38	29°≈31'44		morning rise	8049 Feb 11 19:17	13°≈41'24	
direct	8048 Mar 03 11:53	27°≈53'52		direct	8049 Feb 15 10:45	12°≈25'09	10040100
	8048 Mar 08 17:43	0° ∀	20040157	morning max el	8049 Feb 22 18:27	16°≈30'15	19°40'29
morning max el	8048 Mar 11 17:05	2°) 36'04 16°) 42'32	20°48'57		8049 Mar 05 08:39	0°) 3°) €09'24	0.7
desc. node	8048 Mar 23 00:05	16°π42′32 0°Υ		greatest brilliancy	8049 Mar 07 12:40	6°) 38′24	-0.7m
morning got	8048 Apr 01 03:11	0 γ 14° Υ 24'59		desc. node	8049 Mar 09 21:04 8049 Mar 20 10:57	22°)(43'43	
morning set max. Earth dist.	8048 Apr 10 13:39	14 γ 24 39 27° Υ 28'46	1.43049 AU	morning set	8049 Mar 25 03:42	22 π43 43 0°Υ	
max. Earm dist.	8048 Apr 18 18:53 8048 Apr 20 08:01	0° 8	1.43049 AU	max. Earth dist.	8049 Mai 23 03.42 8049 Apr 01 06:49	0 γ 11° Υ 11'28	1.44533 AU
	8048 Apr 20 08.01	00		max. Earth dist.	8049 Apr 01 00.49	11 11120	1.44333 AU
superior conj	8048 Apr 25 15:19	8° 8 48'27	-2°07'40	superior conj	8049 Apr 05 21:18	18° Ƴ 32'51	-2°10'40
minimum elong	8048 Apr 25 18:59	9° 8 03'53		minimum elong	8049 Apr 05 19:00	18° Y 23'34	
evening rise	8048 May 07 13:55	29° 8 34'11	2 0/30	minimum crong	8049 Apr 12 21:36	0° 8	2 10 10
e vennig 1150	8048 May 07 19:44	0°II		evening rise	8049 Apr 19 13:36	11° 8 09'46	
asc. node	8048 May 15 03:01	12° Ⅱ 47'10			8049 Apr 30 22:50	0°П	
evening max el	8048 May 24 09:28	25° Ⅱ 51'18	18°05'30	asc. node	8049 May 02 00:04	1° ∏ 35'39	
retrograde	8048 May 30 23:03	29° Ⅱ 13'44		evening max el	8049 May 07 22:45	9° Ⅱ 11'21	18°13'19
evening set	8048 Jun 02 14:04	28° Ⅱ 41′08		retrograde	8049 May 14 08:00	12° ∏ 34'27	
inferior conj	8048 Jun 09 03:07	23° Ⅲ 39'55	2°32'59	evening set	8049 May 17 06:08	11° Ⅱ 49'10	
minimum elong	8048 Jun 09 06:04	23° Ⅲ 32'37	2°32'08	inferior conj	8049 May 23 06:43	6° Ⅲ 29'32	3°07'49
min. Earth dist.	8048 Jun 12 06:12	20° Ⅲ 36′08	0.61285 AU	minimum elong	8049 May 23 08:39	6° Ⅱ 24'10	3°07'24
morning rise	8048 Jun 15 19:50	17° Ⅱ 40'38		min. Earth dist.	8049 May 25 21:04	3° Ⅱ 37'06	0.63424 AU
desc. node	8048 Jun 18 23:35	16° Ⅲ 02'02		morning rise	8049 May 29 09:48	0° Ⅱ 17'45	
direct	8048 Jun 22 12:01	15° Ⅱ 24'30			8049 May 29 19:11	30° ₹ 8	
morning max el	8048 Jul 06 17:55	23° Ⅱ 24′06	27°54'21	direct	8049 Jun 05 04:07	27° 8 40'13	
	8048 Jul 12 15:21	0°€		desc. node	8049 Jun 05 20:37	27° 8 41'43	
	8048 Aug 01 03:00	0 $^{\circ}$ Ω			8049 Jun 12 04:24	Π $^{\circ}0$	
morning set	8048 Aug 08 21:08	15° Ω 05'16		morning max el	8049 Jun 19 02:15	5° Ⅱ 42'51	27°45'19
asc. node	8048 Aug 11 02:22	19° Ω 43′08			8049 Jul 07 11:57	0 \circ \odot	
max. Earth dist.	8048 Aug 14 16:57	27° Ω 29'04	1.31918 AU	morning set	8049 Jul 23 17:37	28° © 59'56	
	8048 Aug 15 20:30	0° т р			8049 Jul 24 05:36	0 \circ Ω	
				asc. node	8049 Jul 28 23:23	9° Ω 48'26	
superior conj	8048 Aug 16 05:52	0° m 51'30	0°50'29	max. Earth dist.	8049 Jul 28 20:05	9° Ω 31'01	1.32626 AU
minimum elong	8048 Aug 16 03:52	0° mp 40'31	0°50'02		0040 1 1 21 12 12	150 0 10122	0026100
evening rise	8048 Aug 23 00:36	15° m/42'13		superior conj	8049 Jul 31 13:13	15° Ω 19'33	0°26'00
	8048 Aug 30 01:37	0° ™		minimum elong	8049 Jul 31 12:01	15° Ω 13'01	0°25'39
desc. node	8048 Sep 14 22:33	24° £ 12'16	24954159		8049 Aug 07 07:50	0° m/22142	
evening max el	8048 Sep 18 02:34 8048 Sep 20 22:56	27° £ 30'52 0° M	24-34-38	evening rise	8049 Aug 07 12:17 8049 Aug 23 22:39	0°₱23'43 0°₽	
retrograde	8048 Oct 01 22:58	4°M29'41		evening max el	8049 Aug 30 13:57	0 = 7° £ 48'20	23017'31
evening set	8048 Oct 07 22:38 8048 Oct 07 11:57	3°M20'30		desc. node	8049 Sep 01 19:38	9° £ 48'49	23 1/31
min. Earth dist.	8048 Oct 12 13:50	0°M36'53	0.57031 AU	retrograde	8049 Sep 13 01:00	14° £ 32'21	
mm. Earth dist.	8048 Oct 13 12:43	30°R ≏	0.57051710	evening set	8049 Sep 17 02:31	13° Ω 56'14	
inferior conj	8048 Oct 15 09:04	28° ≏ 46'59	-5°27'14	min. Earth dist.	8049 Sep 23 23:18		0.55509 AU
minimum elong	8048 Oct 15 12:33	28° £ 41'15		inferior conj	8049 Sep 25 17:50	9° Ω 42'59	
morning rise	8048 Oct 23 15:25	24° £ 38'57		minimum elong	8049 Sep 25 14:11	9° ≏ 48'20	5°27'43
direct	8048 Oct 26 03:46	24° £ 21′02		morning rise	8049 Oct 04 04:02	5° ≙ 51'35	
morning max el	8048 Nov 04 09:41	28° ≏ 44'21	19°16'11	direct	8049 Oct 07 02:43	5° ≏ 30'43	
	8048 Nov 05 15:33	0°M₊		morning max el	8049 Oct 17 21:21	10° ≏ 33'21	20°28'56
asc. node	8048 Nov 07 01:55	1°MJ38'12		asc. node	8049 Oct 24 22:56	19° ≏ 12'59	
morning set	8048 Nov 21 09:25	26°M02'57			8049 Oct 31 06:31	0° M	
	8048 Nov 23 08:53	0°⊀		morning set	8049 Nov 05 16:01	10°M42'32	
superior conj	8048 Nov 29 12:50	12° ∡ 12'17		superior conj	8049 Nov 13 04:42	26°M13'26	1°35'51
minimum elong	8048 Nov 29 15:46	12° ≯ 26'31	1°22'41	minimum elong	8049 Nov 13 06:25	26°M22'11	1°35'52
max. Earth dist.	8048 Dec 06 03:20	24° ∡ ³37'37	1.38342 AU		8049 Nov 15 01:41	0°⊀	
	8048 Dec 09 03:29	0°ಕ		max. Earth dist.	8049 Nov 18 10:28	6° ∡ ³36′23	1.36276 AU
evening rise	8048 Dec 09 21:18	1° る 17'59		evening rise	8049 Nov 22 07:42	13° ₹ 55'08	
desc. node	8048 Dec 11 21:33	4° る 45'55		desc. node	8049 Nov 28 18:35	25° ∡ 18'19	
	8048 Dec 28 00:28	0° ≈			8049 Dec 01 14:20	0°る	
evening max el							
	8049 Jan 14 08:45	21°≈37'18	24°53'32		8049 Dec 22 20:43	0°≈	2 (002:11
retrograde	8049 Jan 26 03:06	28° ≈ 27'58	24°53'32	evening max el	8049 Dec 27 21:45	5° ≈ 23'38	26°02'44
evening set	8049 Jan 26 03:06 8049 Jan 31 18:14	28°≈27'58 26°≈07'21	24°53'32	retrograde	8049 Dec 27 21:45 8050 Jan 09 12:35	5°≈23'38 12°≈34'22	26°02'44
•	8049 Jan 26 03:06	28° ≈ 27'58	24°53'32 0.67793 AU	•	8049 Dec 27 21:45	5° ≈ 23'38	26°02'44 0.66918 AU

1-	9050 I 20 22-11	491912			9050 N 24 21.42	00=	
asc. node	8050 Jan 20 22:11	4°≈18'26			8050 Nov 24 21:43	0° ろ	
inferior conj	8050 Jan 21 10:50	3° ≈ 38'57	0°10'33	evening max el	8050 Dec 10 11:01	19° る 03'44	26°55'42
minimum elong	8050 Jan 21 10:33	3° ≈ 39'49	0°10'33	retrograde	8050 Dec 23 16:27	26° る 22'55	
transit middle	8050 Jan 21 10:33	3° ≈ 39'49	0°10'33	evening set	8050 Dec 30 07:27	23° る 46'55	
transit begin	8050 Jan 21 08:24	3° ≈ 46'32		min. Earth dist.	8051 Jan 03 07:21	19° る 50'56	0.65681 AU
transit end	8050 Jan 21 12:42	3°≈33'06		inferior conj	8051 Jan 05 07:40	17° る 31'51	-0°50'07
transit tila	8050 Jan 24 14:15	30°Rる		minimum elong	8051 Jan 05 09:06	17° る 27'41	0°49'22
		• -		•			0 49 22
morning rise	8050 Jan 27 05:28	27° る 50'18		asc. node	8051 Jan 07 19:15	14° る 47'51	
direct	8050 Jan 30 09:36	26° る 52'55		morning rise	8051 Jan 11 11:52	11° る 54'39	
	8050 Feb 05 13:24	0° ≈		direct	8051 Jan 14 06:34	11° る 12'28	
morning max el	8050 Feb 06 03:15	0° ≈ 33'11	18°47'20	morning max el	8051 Jan 20 17:32	14° る 39'06	18°10'42
desc. node	8050 Feb 24 18:01	26° ≈ 53'34			8051 Jan 31 20:50	0° ≈	
	8050 Feb 26 17:43	0° ∀		morning set	8051 Feb 08 11:53	12°≈18'41	
morning set	8050 Feb 27 21:18	1°){ 47'55		desc. node	8051 Feb 11 14:59	17° ≈ 22'37	
max. Earth dist.	8050 Mar 14 23:39		1.45362 AU	dese. Hode	8051 Feb 19 12:15	0° ∀	
max. Lattii dist.	0030 Wai 14 23.37	23 /(2314	1.43302 AU		0031100 17 12.13	0 /	
	0050 M 16 07 10	2701/20110	1052150		0051 F 1 22 12 12	601/20140	1010150
superior conj	8050 Mar 16 07:18	27°) (29'19		superior conj	8051 Feb 23 12:43	6°) € 20'49	
minimum elong	8050 Mar 15 22:43	26° ¥ 55'40	1°53'12	minimum elong	8051 Feb 23 03:54	5° ∺ 46'09	1°17'44
	8050 Mar 17 21:40	0° Y		max. Earth dist.	8051 Feb 25 19:06	9° ∺ 54'19	1.45457 AU
evening rise	8050 Mar 31 14:05	21° Y 46'50			8051 Mar 10 16:26	0° Y	
•	8050 Apr 05 16:22	0° ႘		evening rise	8051 Mar 11 16:17	1° Ƴ 32'48	
greatest brilliancy	8050 Apr 07 03:36	2° 8 21'35	-0.9m	greatest brilliancy	8051 Mar 23 19:21	20° Ƴ 15'46	-0.7m
	8050 Apr 18 21:08	19° 8 48'45	-0.7111	greatest orimancy		0° 8	-0.7III
asc. node			10020120		8051 Mar 30 12:57		10000106
evening max el	8050 Apr 21 10:35	22° 8 42'15	18°39'20	evening max el	8051 Apr 04 18:45	6° 8 18'52	19°22'26
retrograde	8050 Apr 28 00:31	26° 8 18'57		asc. node	8051 Apr 05 18:13	7° 8 15'37	
evening set	8050 May 01 05:55	25° 8 19'50		retrograde	8051 Apr 11 21:17	10° 8 20'49	
inferior conj	8050 May 06 21:52	19° 8 43'20	3°22'45	evening set	8051 Apr 15 10:36	9° 8 07'02	
minimum elong	8050 May 06 22:26	19° 8 41'36	3°22'36	inferior conj	8051 Apr 20 21:10	3° 8 15'09	3°22'07
min. Earth dist.	8050 May 08 21:04	17° 8 19'42	0.65272 AU	minimum elong	8051 Apr 20 20:29	3° 8 17'21	3°22'00
morning rise	8050 May 12 14:14	13° 8 26'23	0.002/2110	min. Earth dist.	8051 Apr 22 05:08	1° 8 30'53	0.66716 AU
•	•			iiiii. Eartii tist.	-	30°RΥ	0.00710 AC
direct	8050 May 19 04:06	10° 8 39'25			8051 Apr 23 09:59		
desc. node	8050 May 23 17:38	11° 8 46'38		morning rise	8051 Apr 26 06:01	26° Y 57′28	
morning max el	8050 Jun 01 12:30	18° 8 32'27	27°02'36	direct	8051 May 02 10:29	24° Ƴ 13'19	
	8050 Jun 11 04:18	Π $^{\circ}0$		desc. node	8051 May 10 14:36	27° Ƴ 46'42	
	8050 Jun 30 11:18	0 \circ \mathfrak{S}			8051 May 13 04:43	$6^{\circ}B$	
morning set	8050 Jul 07 04:15	12° © 23'01		morning max el	8051 May 14 22:27	1° 8 41'32	25°54'21
max. Earth dist.	8050 Jul 11 13:47	21°504'24	1.33828 AU		8051 Jun 05 06:15	0°II	
max. Lattii dist.	0030 Jul 11 13.47	21 30727	1.55020 AC				
				morning set	8051 Jun 20 01:19	25° Ⅱ 04'47	
superior conj	8050 Jul 15 15:15	29° © 27'34			8051 Jun 22 16:32	0 \circ \odot	
minimum elong	8050 Jul 15 15:22	29° © 28'11	0°02'16	max. Earth dist.	8051 Jun 23 20:38	2° © 13'58	1.35508 AU
behind sun begin	8050 Jul 15 09:47	28° © 58'50					
behind sun end	8050 Jul 15 20:58	29° © 57'34		superior conj	8051 Jun 29 09:27	13° © 09'08	-0°32'55
asc. node	8050 Jul 15 20:21	29° © 54'22		minimum elong	8051 Jun 29 11:23	13°9518'54	0°32'41
	8050 Jul 15 21:26	$0^{\circ}\Omega$		asc. node	8051 Jul 02 17:21	19°957'25	
evening rise	8050 Jul 22 22:49	14° Ω 57'50		evening rise	8051 Jul 07 06:13	29° © 19'15	
evening rise				evening rise			
	8050 Jul 30 12:28	0° т р			8051 Jul 07 14:10	$0^{\circ}\Omega$	
evening max el	8050 Aug 12 05:31	18° Mp 06′55	21°40'49	evening max el	8051 Jul 25 08:30	28° Ω 57'39	20°17'41
desc. node	8050 Aug 19 16:44	23° Mp 18'00			8051 Jul 26 11:04	0° m ∕	
retrograde	8050 Aug 24 15:51	24° Mp 16'54		retrograde	8051 Aug 05 04:16	4°Mp18'12	
evening set	8050 Aug 27 07:56	24° Mp 00'47		desc. node	8051 Aug 06 13:46	4° Mp 13'13	
inferior conj	8050 Sep 05 12:42	20° m 01'45	-4°34'36	evening set	8051 Aug 07 03:18	4° M 08'28	
minimum elong	8050 Sep 05 03:32	20° m 14'35		inferior conj	8051 Aug 16 06:34	0° m 10'42	-2°54'03
•	=			-	•	-	
min. Earth dist.	8050 Sep 05 08:04	20° mp 08'14	0.54739 AU	minimum elong	8051 Aug 15 22:44	0°m/22'11	2 31 24
morning rise	8050 Sep 14 00:14	16° Mp 11'45			8051 Aug 16 13:51	30°R Ω	
direct	8050 Sep 17 12:51	15° m 44'35		min. Earth dist.	8051 Aug 17 18:09	29° Ω 18'32	0.54914 AU
morning max el	8050 Sep 29 20:16	21°M 33'26	22°01'51	morning rise	8051 Aug 24 17:12	26° Ω 02'07	
	8050 Oct 07 00:08	0∘ ⊽		direct	8051 Aug 28 23:02	25° Ω 23'18	
asc. node	8050 Oct 11 19:56	7° ≏ 34'31			8051 Sep 09 04:38	0° m y	
morning set	8050 Oct 21 02:03	25° Ω 29'58		morning max el	8051 Sep 11 10:25	1° m/ 56'55	23°46'49
	8050 Oct 21 02:09 8050 Oct 23 05:09	0°M		asc. node	8051 Sep 28 16:55	26° mp 31'27	0 ./
	5050 OCL 25 05.09	O IIG		asc. Hout	•	-	
				_	8051 Sep 30 12:30	0° ⊽	
superior conj	8050 Oct 28 05:22	10°M38'45		morning set	8051 Oct 05 13:39	10° ≏ 19'51	
minimum elong	8050 Oct 28 05:45	10°M40'44	1°41'21				
max. Earth dist.	8050 Nov 01 00:06	18°M29'12	1.34503 AU	superior conj	8051 Oct 12 11:57	25° ≏ 19'28	1°40'00
evening rise	8050 Nov 05 10:05	27°M14'53		minimum elong	8051 Oct 12 11:08	25° ≏ 15'04	1°40'02
-	8050 Nov 06 20:41	0° ∡ 7		S	8051 Oct 14 16:07	0°M	
desc. node	8050 Nov 15 15:38	15° ∡ ³37'08		max. Earth dist.	8051 Oct 14 22:19		1.33130 AU
desc. Hode	3030 1101 13 13.30	15 7 37 00		mas. Darm dist.	5051 50t 17 22.17	0 11033 02	1.55150 AU

evening rise	8051 Oct 20 00:38	11° ML 07'00			8052 Oct 05 06:27	0°M	
evening rise	8051 Oct 20 00:38 8051 Oct 30 04:03	0° ∡ 7		desc. node	8052 Oct 03 00:27 8052 Oct 19 09:43	25°M06'12	
desc. node	8051 Nov 02 12:40	5° ×7 35'50		desc. node	8052 Oct 17 07:43 8052 Oct 22 16:32	25 الان 12 0° الا	
dese. Hode	8051 Nov 20 13:13	0°る		evening max el	8052 Nov 04 08:58	15° × 17'52	27°24'57
evening max el	8051 Nov 22 23:31	2° පි 26'16	27°25'11	retrograde	8052 Nov 18 04:07	22°× 32'35	27 2137
retrograde	8051 Dec 06 13:48	9°₹45'13	2, 2011	evening set	8052 Nov 25 06:50	20° ₹ 08'58	
evening set	8051 Dec 13 13:19	7°る10'51		min. Earth dist.	8052 Nov 28 22:57	17°×13'53	0.62242 AU
min. Earth dist.	8051 Dec 17 08:14	3° ⋜ 47'46	0.64108 AU	inferior conj	8052 Dec 01 21:09	14° × 30'41	
inferior conj	8051 Dec 19 20:04	1°る11'29		minimum elong	8052 Dec 02 02:59	14° √ 17'06	
minimum elong	8051 Dec 19 23:41	1°る02'03		morning rise	8052 Dec 09 01:14	9° ∡ ¹26′01	
	8051 Dec 20 23:45	30°R. ✓		direct	8052 Dec 11 07:53	9° ∡ °02'58	
asc. node	8051 Dec 25 16:19	26° ≯ 11'38		asc. node	8052 Dec 11 13:20	9° ∡ 03'12	
morning rise	8051 Dec 26 11:40	25° х 48'49		morning max el	8052 Dec 18 03:24	12° ₹ 31'02	17°49'28
direct	8051 Dec 28 23:04	25° х 18′00		•	8052 Dec 29 23:04	ರ°0	
morning max el	8052 Jan 04 10:36	28° ∡ ′40′51	17°51'11	morning set	8053 Jan 02 24:00	7° る 10'19	
	8052 Jan 05 16:28	0° ට					
morning set	8052 Jan 21 06:48	24° る 12'34		superior conj	8053 Jan 14 05:02	26° る 46'57	0°08'32
	8052 Jan 24 16:51	0°≈		minimum elong	8053 Jan 14 05:50	26° る 50'24	0°08'32
desc. node	8052 Jan 29 11:56	8° ≈ 00'47		behind sun begin	8053 Jan 13 22:19	26° ප 18'30	
				behind sun end	8053 Jan 14 13:22	27° る 22'14	
superior conj	8052 Feb 03 08:26	15° ≈ 57'21	-0°34'38	desc. node	8053 Jan 15 08:55	28° る 44'42	
minimum elong	8052 Feb 03 04:31	15° ≈ 41'30	0°33'58		8053 Jan 16 02:52	0° ≈	
max. Earth dist.	8052 Feb 08 14:31	24° ≈ 22'02	1.44817 AU	max. Earth dist.	8053 Jan 21 06:49	8° ≈ 30′10	1.43513 AU
	8052 Feb 12 04:23	0°) €		evening rise	8053 Jan 28 18:33	20° ≈ 22'59	
evening rise	8052 Feb 19 04:50	10°) 52′23			8053 Feb 04 01:16	0°) €	
	8052 Mar 02 21:00	$0^{\circ}\mathbf{\Upsilon}$			8053 Feb 25 12:48	$0^{\circ}\Upsilon$	
evening max el	8052 Mar 17 21:43	19° Ƴ 57'00	20°20'43	evening max el	8053 Feb 28 19:07	3° Y 36'11	21°31'06
asc. node	8052 Mar 22 15:17	23° Y 42'05		retrograde	8053 Mar 09 17:50	8° Y 53'49	
retrograde	8052 Mar 25 19:44	24° Y 33'46		asc. node	8053 Mar 09 12:22	8° Y 53'33	
evening set	8052 Mar 29 17:53	23° Y 04'53		evening set	8053 Mar 14 02:00	7° Ƴ 09'43	
inferior conj	8052 Apr 04 01:46	16° Ƴ 59'25	3°09'02	inferior conj	8053 Mar 19 09:26	0° Ƴ 53'07	2°45'33
minimum elong	8052 Apr 04 00:10	17° Y 04'53	3°08'46	minimum elong	8053 Mar 19 07:17	1° Y 00'35	2°45'03
min. Earth dist.	8052 Apr 04 19:29	15° Ƴ 59'01	0.67713 AU	min. Earth dist.	8053 Mar 19 14:09	0° Y 36'43	0.68268 AU
morning rise	8052 Apr 09 06:15	10° Ƴ 43'24			8053 Mar 20 00:43	30°Ŗ ℋ	
direct	8052 Apr 14 22:11	8° Y 11'54		morning rise	8053 Mar 24 12:24	24°) 40′18	
desc. node	8052 Apr 26 11:34	15° Ƴ 11'06		direct	8053 Mar 29 14:26	22° ℋ 27'40	
morning max el	8052 Apr 26 07:34	15° Y 00'55	24°30'20	morning max el	8053 Apr 08 17:24	28°) 27′42	23°00'35
	8052 May 08 13:57	9° 8			8053 Apr 10 04:45	$0^{\circ}\mathbf{\Upsilon}$	
	8052 May 28 03:59	$\Pi^{\circ}0$		desc. node	8053 Apr 13 08:34	3° Y 36'48	
morning set	8052 Jun 01 03:56	6° Ⅱ 51'44			8053 May 02 06:55	0°8	
max. Earth dist.	8052 Jun 04 19:08	13° Ⅱ 20′13	1.37565 AU	morning set	8053 May 13 06:32	17° 8 29'54	
				max. Earth dist.	8053 May 17 15:24	24° 8 53'27	1.39803 AU
superior conj	8052 Jun 11 16:34	26° Ⅱ 15'34	-1°04'39		8053 May 20 13:44	Π °0	
minimum elong	8052 Jun 11 20:32	26° ∏ 34'43	1°04'08				
	8052 Jun 13 14:41	0 \circ \odot		superior conj	8053 May 25 08:35	8° ∏ 36′59	-1°34'37
asc. node	8052 Jun 18 14:22	9° © 53'24		minimum elong	8053 May 25 14:08	9° Ⅱ 02′26	1°34'03
evening rise	8052 Jun 20 07:58	13° 5 20'46		evening rise	8053 Jun 04 01:05	26° Ⅱ 54'13	
	8052 Jun 29 05:24	$0^{\circ}\Omega$		asc. node	8053 Jun 05 11:23	29° Ⅱ 37'52	
evening max el	8052 Jul 07 00:35	10° Ω 32'47	19°14'18		8053 Jun 05 16:02	0 \circ \odot	
retrograde	8052 Jul 16 03:52	15° Ω 03'34		evening max el	8053 Jun 20 03:23	22° 5 49'23	18°31'49
evening set	8052 Jul 18 01:15	14° Ω 52'47		retrograde	8053 Jun 27 21:51	26° © 41'25	
desc. node	8052 Jul 23 10:48	12° Ω 41'15		evening set	8053 Jun 30 00:57	26° © 24'53	
inferior conj	8052 Jul 26 13:37	10° Ω 42'33	-0°57'10	inferior conj	8053 Jul 07 17:35	21° © 55'43	0°45'57
minimum elong	8052 Jul 26 11:07	10° Ω 46'45	0°56'17	minimum elong	8053 Jul 07 19:13	21° © 52'32	0°45'14
min. Earth dist.	8052 Jul 29 07:23	8° Ω 53'25	0.56007 AU	desc. node	8053 Jul 10 07:53	19° 9 54'01	
morning rise	8052 Aug 03 18:06	5° Ω 59'41		min. Earth dist.	8053 Jul 11 01:45	19° 5 20'21	0.57806 AU
direct	8052 Aug 08 19:43	5° Ω 00'45		morning rise	8053 Jul 15 09:59	16° © 36'04	
morning max el	8052 Aug 22 23:09	12° Ω 11'33	25°29'12	direct	8053 Jul 21 07:02	15° © 08'03	
	8052 Sep 05 17:41	0° m y		morning max el	8053 Aug 04 16:19	22°546'03	26°51'59
asc. node	8052 Sep 14 13:53	15° m 55'01			8053 Aug 11 02:58	$0^{\circ}\Omega$	
morning set	8052 Sep 19 01:09	25° m 07'45			8053 Aug 29 15:45	0° m	
	8052 Sep 21 07:22	0∘ ত		asc. node	8053 Sep 01 10:51	5° Mp 37′20	
				morning set	8053 Sep 03 10:52	9° ™ 47'57	
superior conj	8052 Sep 25 22:07	10° ≏ 08'48					
minimum elong	8052 Sep 25 20:25	9° £ 59'28	1°32'40	superior conj	8053 Sep 10 09:49	24° m 59'42	1°20'12
max. Earth dist.	8052 Sep 27 03:45	12° ≏ 51'44	1.32202 AU	minimum elong	8053 Sep 10 07:38	24° Mp 47'36	1°19'54
evening rise	8052 Oct 03 00:07	25° ≏ 23'00		max. Earth dist.	8053 Sep 10 13:14	25° Mp 18'39	1.31729 AU

	8053 Sep 12 16:03	0∘ ⊽		superior conj	8054 Aug 25 21:18	9° m 46'39	1°02'40
evening rise	8053 Sep 17 05:44	9° £ 54'25		minimum elong	8054 Aug 25 19:05	9° ™ 34'26	1°02'15
	8053 Sep 27 13:27	0° M		evening rise	8054 Sep 01 15:18	24° Mp 34'56	
desc. node	8053 Oct 06 06:47	13°M56'04			8054 Sep 04 05:09	0。 ত	
evening max el	8053 Oct 17 12:43	27°M25'25	26°51'13		8054 Sep 21 18:06	0° M	
	8053 Oct 20 12:08	0°⊀		desc. node	8054 Sep 23 03:52	1°M49'25	
retrograde	8053 Oct 31 10:33	4° ∡ ³34'49		evening max el	8054 Sep 29 08:53	8°M43'01	25°44'56
evening set	8053 Nov 07 07:53	2°×33'03	0.60100.444	retrograde	8054 Oct 13 07:18	15°M46'19	
min. Earth dist.	8053 Nov 11 02:55	29°M55'30	0.60182 AU	evening set	8054 Oct 19 11:36	14°M16'43	0.50110.411
	8053 Nov 11 00:38	30°RM 270 m 10121	4012100	min. Earth dist.	8054 Oct 23 21:24	11°M40'26	0.58118 AU
inferior conj	8053 Nov 14 07:26 8053 Nov 14 14:37	27°M19'31 27°M04'48	4°10'53	inferior conj	8054 Oct 26 23:32 8054 Oct 27 05:33	9°M29'02 9°M18'18	
minimum elong morning rise	8053 Nov 14 14.37 8053 Nov 21 23:45	27 11604 48 22°M35'55	4 10 33	minimum elong morning rise	8054 Nov 04 01:50	5°M07'59	3 00 32
direct	8053 Nov 24 04:54	22°M17'19		direct	8054 Nov 06 09:57	4°M50'42	
asc. node	8053 Nov 28 10:23	23°M28'38		morning max el	8054 Nov 14 22:10	8°M56'41	18°44'27
morning max el	8053 Dec 01 16:29	25°M59'39	18°06'41	asc. node	8054 Nov 15 07:24	9°M19'21	10 1127
5 5	8053 Dec 05 02:55	0° ∡ 7			8054 Nov 28 14:26	0° ∡ 7	
morning set	8053 Dec 17 09:06	20° ₹ ′52'03		morning set	8054 Dec 01 05:15	5° ₹ 03'53	
	8053 Dec 22 06:36	ರ°0					
				superior conj	8054 Dec 09 20:11	21° ∡ ⁴44'55	1°11'29
superior conj	8053 Dec 27 02:26	8° る 47'06	0°44'35	minimum elong	8054 Dec 09 23:32	22° ₰ 00'46	1°11'14
minimum elong	8053 Dec 27 05:33	9° ට 01'04	0°44'16		8054 Dec 14 07:17	0° ප	
desc. node	8054 Jan 02 05:55	19° る 30'05		max. Earth dist.	8054 Dec 17 00:35	4° る 51'25	1.39589 AU
max. Earth dist.	8054 Jan 03 17:54	22°る02'00	1.41695 AU	desc. node	8054 Dec 20 02:55	10° る 13'30	
evening rise	8054 Jan 08 22:58	0° ≈ 35'56		evening rise	8054 Dec 21 00:53	11° る 46'45	
	8054 Jan 08 14:04	0° ≈			8055 Jan 01 10:01	0° ≈	
	8054 Jan 28 13:13	0° ₩ 17° ₩ 17'32	22940117		8055 Jan 24 01:23	0° ∺ 1° ∺ 02'29	24900125
evening max el retrograde	8054 Feb 11 11:55 8054 Feb 21 13:56	23° X 1/32	22-4917	evening max el retrograde	8055 Jan 25 01:59 8055 Feb 05 06:37	7° H 36'47	24-09-23
asc. node	8054 Feb 24 09:27	23 \(\)(1023\) 22°\(\)(36'37\)		evening set	8055 Feb 10 14:17	5° ∺ 23'46	
evening set	8054 Feb 26 09:19	21° X 17'26		asc. node	8055 Feb 11 06:33	4° H 47'04	
inferior conj	8054 Mar 03 18:07	14°) 53'01	2°12'50	use. Houe	8055 Feb 15 06:53	30°R≈	
minimum elong	8054 Mar 03 15:51	15° ₩ 00'51	2°12'11	min. Earth dist.	8055 Feb 15 07:13	29°≈58'53	0.68121 AU
min. Earth dist.	8054 Mar 03 10:50	15°) 18′15	0.68394 AU	inferior conj	8055 Feb 16 01:57	28° ≈ 55'38	1°31'36
morning rise	8054 Mar 08 22:17	8°) (44'44		minimum elong	8055 Feb 16 00:03	29° ≈ 02'03	1°30'59
direct	8054 Mar 13 10:16	6°) 54′00		morning rise	8055 Feb 21 09:51	22° ≈ 53′28	
morning max el	8054 Mar 22 07:07	12°) €03'17	21°34'13	direct	8055 Feb 25 08:31	21° ≈ 24'54	
desc. node	8054 Mar 31 05:33	22°) (46′48		morning max el	8055 Mar 05 03:42	25° ≈ 50′08	20°18'00
	8054 Apr 05 10:41	0 ° \mathbf{Y}			8055 Mar 08 21:24	0° ∀	
morning set	8054 Apr 23 05:33	26° Y 51'51		desc. node	8055 Mar 18 02:31	12° ¥ 28′37	
	8054 Apr 25 04:40	0°8			8055 Mar 29 20:17	0° Υ	
max. Earth dist.	8054 Apr 29 15:47	7° 8 16'16	1.41954 AU	morning set	8055 Apr 02 06:40	5°Υ16'34	
	005434 07 04 54	200	1050140	max. Earth dist.	8055 Apr 11 23:34	20° Y 32'54	1.43752 AU
superior conj	8054 May 07 04:54 8054 May 07 10:13	20° 8 03'18 20° 8 26'26			8055 Apr 17 19:06	0° 8	
minimum elong	8054 May 07 10:13 8054 May 12 19:49	20° Β 26′26	1-38/23	superior conj	8055 Apr 18 01:17	0° 8 25'28	2011/00
evening rise	8054 May 18 05:43	9° Ⅱ 50'11		minimum elong	8055 Apr 18 02:50	0° 8 31'51	
asc. node	8054 May 23 08:25	19° Ⅱ 05'59		evening rise	8055 Apr 30 17:16	21° 8 57'40	2 11 12
use. Hode	8054 May 29 23:23	0.2 1.2 T 02.22		evening rise	8055 May 05 08:24	0° I	
evening max el	8054 Jun 03 13:09	5° © 38'53	18°09'33	asc. node	8055 May 10 05:29	8° I I1'13	
retrograde	8054 Jun 10 09:59	9° © 07'26		evening max el	8055 May 18 02:10	18° Ⅲ 50'41	18°06'33
evening set	8054 Jun 12 20:42	8° 5 41'29		retrograde	8055 May 24 12:34	22° I I11'18	
inferior conj	8054 Jun 19 18:50	3°952'04	2°01'53	evening set	8055 May 27 06:42	21° Ⅲ 33′26	
minimum elong	8054 Jun 19 21:54	3° 5 45'05	2°00'51	inferior conj	8055 Jun 02 13:58	16° Ⅱ 24'23	2°50'28
min. Earth dist.	8054 Jun 23 02:54	0° © 51'23	0.59990 AU	minimum elong	8055 Jun 02 16:35	16° Ⅱ 17'35	2°49'48
	8054 Jun 24 03:28	30°RⅡ		min. Earth dist.	8055 Jun 05 12:15	13° Ⅱ 22'52	0.62229 AU
morning rise	8054 Jun 26 20:14	28° ∏ 04'09		morning rise	8055 Jun 09 00:38	10° Ⅱ 18'59	
desc. node	8054 Jun 27 04:57	27° ∏ 51'11		desc. node	8055 Jun 14 02:01	8° Ⅱ 01'15	
direct	8054 Jul 03 07:46	26° Ⅱ 04'05		direct	8055 Jun 15 18:52	7° ∏ 52'12	2 705
	8054 Jul 13 02:34	0.20 0.20	27042120	morning max el	8055 Jun 29 21:42	15° ∏ 53'59	27°54'52
morning max el	8054 Jul 17 16:06		27°42'20		8055 Jul 11 10:54	0.ಲ	
morning set	8054 Aug 05 20:20 8054 Aug 18 17:06	0° Ω 24° Ω 15'31		morning set	8055 Jul 29 11:50 8055 Aug 02 17:48	0° Ω 8° Ω 23'47	
morning set asc. node	8054 Aug 18 17:06 8054 Aug 19 07:50	24° ∂ €15′31 25° Ω 32'39		asc. node	8055 Aug 02 17:48 8055 Aug 06 04:49	8°8€23'47 15°€35'23	
ase. Houe	8054 Aug 21 10:06	0° m		max. Earth dist.	8055 Aug 08 05:56		1.32165 AU
max. Earth dist.	8054 Aug 24 23:15		1.31716 AU	Darui dist.	5055 114g 00 05.50	1, 000010	1.52105710
	2.2.10	. 192 11 12		superior conj	8055 Aug 10 06:42	24° Ω 23'11	0°40'35
				r		000011	

minimum elong	8055 Aug 10 04:58 8055 Aug 12 20:09	24° Ω 13'44 0° ™	0°40'10	superior conj minimum elong	8056 Jul 24 12:03 8056 Jul 24 11:21	8° Ω 43'35 8° Ω 39'47	0°14'28 0°14'12
evening rise	8055 Aug 17 02:45 8055 Aug 27 16:55	9°№17'46 0° <u>മ</u>		behind sun begin behind sun end	8056 Jul 24 08:49 8056 Jul 24 13:53	8° Ω 26'16 8° Ω 53'18	
desc. node	8055 Sep 10 00:57	18° ≙ 23'54		evening rise	8056 Jul 31 14:12	23° Ω 57'12	
evening max el	8055 Sep 10 22:07	19° ≏ 16'10	24°14'30		8056 Aug 03 11:46	0° т р	
retrograde	8055 Sep 24 15:56	26° ≏ 09'41		evening max el	8056 Aug 22 10:06	29° m 29'20	22°35'12
evening set	8055 Sep 29 14:34	25° ≏ 15'49			8056 Aug 22 22:54	0∘ ত	
min. Earth dist.	8055 Oct 05 08:57	22° ჲ 22'28	0.56311 AU	desc. node	8056 Aug 26 22:02	3° ♀ 10'25	
inferior conj	8055 Oct 07 19:22	20° £ 51'52	-5°33'36	retrograde	8056 Sep 04 12:12	6° ഫ 01'00	
minimum elong	8055 Oct 07 20:05	20° ≏ 50'44	5°33'31	evening set	8056 Sep 07 22:32	5° ≏ 35'09	
morning rise	8055 Oct 16 03:43	16° ≙ 51'45		min. Earth dist.	8056 Sep 15 17:19	2° £ 08'24	0.55079 AU
direct	8055 Oct 18 20:03	16° ≙ 32'48		inferior conj	8056 Sep 16 20:56	1° ≏ 29'14	-5°12'10
morning max el	8055 Oct 28 16:58	21° ≙ 12'01	19°44'25	minimum elong	8056 Sep 16 14:17	1° ≏ 38'41	5°11'11
asc. node	8055 Nov 02 04:25	26° ≏ 20'27			8056 Sep 19 13:27	30°R, Mp	
	8055 Nov 04 17:08	0°M		morning rise	8056 Sep 25 07:56	27° Mp 41'06	
morning set	8055 Nov 15 08:51	19°M35'53		direct	8056 Sep 28 12:28	27° Mp 17'55	
	8055 Nov 20 11:57	0°⊀			8056 Oct 06 15:27	0 ்⊽	
				morning max el	8056 Oct 09 22:53	2° ჲ 39'09	21°06'25
superior conj	8055 Nov 23 05:13		1°29'21	asc. node	8056 Oct 19 01:24	14° ≏ 16'35	
minimum elong	8055 Nov 23 07:41	5° ≯ 38'42	1°29'16		8056 Oct 27 14:31	0°M₊	
max. Earth dist.	8055 Nov 29 06:28	17° ∡ 705'19	1.37439 AU	morning set	8056 Oct 29 17:09	4° ጤ 19'44	
evening rise	8055 Dec 03 00:17	23° ≯ 54'42					
	8055 Dec 06 11:54	0°ಕ		superior conj	8056 Nov 06 01:13	19° M 39'04	1°39'02
desc. node	8055 Dec 06 23:56	0° る 51'18		minimum elong	8056 Nov 06 02:22	19°M45'00	1°39'05
	8055 Dec 26 03:06	0° ≈		max. Earth dist.	8056 Nov 10 16:13	29°M00'21	1.35474 AU
evening max el	8056 Jan 07 15:11	14° ≈ 50′18	25°24'38		8056 Nov 11 04:20	0°⊀	
retrograde	8056 Jan 19 18:48	21°≈50′18		evening rise	8056 Nov 14 17:55	6° ≯ 750'54	
evening set	8056 Jan 25 15:20	19° ≈ 25′08		desc. node	8056 Nov 22 20:56	21° ∡ 18'36	
asc. node	8056 Jan 29 03:38	15° ≈ 42'03			8056 Nov 28 05:22	0°₹	
min. Earth dist.	8056 Jan 30 01:00	14° ≈ 34'56	0.67464 AU	evening max el	8056 Dec 20 04:18	28° る 35'00	26°27'44
inferior conj	8056 Jan 31 07:05	12°≈57'56	0°42'22		8056 Dec 21 16:47	0° ≈	
minimum elong	8056 Jan 31 06:04	13°≈01'15	0°42'04	retrograde	8057 Jan 02 01:45	5°≈50'06	
morning rise	8056 Feb 05 21:08	7°≈03'47		evening set	8057 Jan 08 10:40	3°≈16'13	
direct	8056 Feb 09 07:41	5°≈55'46	10015155		8057 Jan 11 17:33	30°Rる	0.66406.477
morning max el	8056 Feb 16 08:18	9°≈48'32	19°15'57	min. Earth dist.	8057 Jan 12 13:50		0.66436 AU
greatest brilliancy	8056 Feb 29 11:42	27°≈16'56	-0.7m	inferior conj	8057 Jan 14 07:32	26°る55'12	
1 1	8056 Mar 02 06:59	0°) {		minimum elong	8057 Jan 14 07:55	26° る 54'02	
desc. node	8056 Mar 03 23:28	2°) 33'47		transit middle	8057 Jan 14 07:55	26° る 54'02	0°14'05
morning set	8056 Mar 11 06:45 8056 Mar 21 16:52	13°) 47′22 0° °		transit begin transit end	8057 Jan 14 06:32 8057 Jan 14 09:19	26°る58'15 26°る49'50	
may Earth dist		4° Υ 33'00	1.44977 AU	asc. node	8057 Jan 15 00:42	26° る 03'43	
max. Earth dist.	8056 Mar 24 14:22	4 1 33 00	1.449// AU	morning rise	8057 Jan 20 06:00	20 303 43 21° る 11'20	
superior conj	8056 Mar 27 21:37	9° Ƴ 46'33	2006/03	direct	8057 Jan 23 05:57	21 311 20 20° 3 20'48	
minimum elong	8056 Mar 27 16:16	9° Υ 25'17		morning max el	8057 Jan 29 19:45	20 3 2048 23° 3 53'37	18°29'47
minimum ciong	8056 Apr 09 09:34	0°8	2 03 31	morning max er	8057 Feb 03 21:42	0°≈	10 27 47
evening rise	8056 Apr 11 07:23	3° 8 09'03		desc. node	8057 Feb 18 20:23	0 ∞ 22° ≈ 55'19	
asc. node	8056 Apr 26 02:33	26° 8 46'16		morning set	8057 Feb 19 04:13	23°≈26'23	
use. Houe	8056 Apr 28 13:52	0° I		morning sec	8057 Feb 23 07:38	0° ∀	
evening max el	8056 Apr 30 15:12	2° Ⅱ 16'48	18°22'08			• / (
retrograde	8056 May 07 01:13	5° Ⅱ 43'51	10 22 00	superior conj	8057 Mar 07 03:07	18°) 33′36	-1°40'49
evening set	8056 May 10 02:31	4° Ⅱ 52'37		minimum elong	8057 Mar 06 17:32	17°) 56'05	
	8056 May 15 11:00	30° ₹ 8		max. Earth dist.	8057 Mar 07 09:04	18°) ₹56'53	1.45494 AU
inferior conj	8056 May 15 22:57	29° 8 25'28	3°16'15		8057 Mar 14 10:19	$_{0}$ ° γ	
minimum elong	8056 May 16 00:19	29° 8 21'30	3°15'59	evening rise	8057 Mar 22 21:51	13° Υ 22'37	
min. Earth dist.	8056 May 18 06:53	26° 8 43'54	0.64264 AU	greatest brilliancy	8057 Apr 01 03:56	27° Υ 59'51	-0.8m
morning rise	8056 May 21 21:09	23° 8 10'59			8057 Apr 02 10:51	0° ႘	
direct	8056 May 28 14:19	20° 8 28'11		asc. node	8057 Apr 12 23:38	14° 8 41'14	
desc. node	8056 May 30 23:03	20° 8 46'08		evening max el	8057 Apr 14 01:39	15° 8 50'22	18°55'36
morning max el	8056 Jun 11 07:07	28° 8 27'18	27°30'47	retrograde	8057 Apr 20 20:02	19° 8 36'42	
-	8056 Jun 12 18:46	$\Pi^{\circ}0$		evening set	8057 Apr 24 04:42	18° 8 31'20	
	8056 Jul 04 06:28	0ಂತಾ		inferior conj	8057 Apr 29 17:58	12° 8 47'47	3°24'09
morning set	8056 Jul 16 10:28	22°506'02		minimum elong	8057 Apr 29 17:59	12° 8 47'45	3°24'04
	8056 Jul 20 08:27	$0^{\circ}\Omega$		min. Earth dist.	8057 May 01 10:30	10° 8 40'14	0.65936 AU
max. Earth dist.	8056 Jul 21 05:36	1° Ω 49'34	1.33089 AU	morning rise	8057 May 05 06:44	6° 8 30'01	
asc. node	8056 Jul 23 01:48	5° Ω 41'27		direct	8057 May 11 16:56	3° 8 43'13	
				desc. node	8057 May 17 20:02	5° 8 44'00	

morning max el	8057 May 24 17:42	11° 8 27'38	26°36'14	direct	8058 Apr 25 01:43	17° Ƴ 28'06	
morning must es	8057 Jun 08 11:58	0°Ⅱ	20 30 1 .	desc. node	8058 May 04 17:00	22°Υ22'56	
	8057 Jun 26 20:25	0.2e		morning max el	8058 May 07 03:22	24° Υ 42'14	25°20'00
morning set	8057 Jun 29 15:56	5°513'46		. 8	8058 May 11 21:57	0°8	
max. Earth dist.	8057 Jul 03 19:06	13° © 13'48	1.34491 AU		8058 Jun 01 22:50	0° I I	
				morning set	8058 Jun 12 05:52	17° Ⅱ 34'26	
superior conj	8057 Jul 08 11:08	22°5541'46	-0°14'57	max. Earth dist.	8058 Jun 15 21:40	24° Ⅱ 17'54	1.36338 AU
minimum elong	8057 Jul 08 11:58	22°5546'06	0°14'56		8058 Jun 18 21:36	0 \circ \odot	
behind sun begin	8057 Jul 08 09:48	22° © 34'52					
behind sun end	8057 Jul 08 14:08	22° © 57'20		superior conj	8058 Jun 22 01:03	6° 5 09'32	-0°46'23
asc. node	8057 Jul 09 22:47	25°5547'04		minimum elong	8058 Jun 22 03:51	6°523'23	0°46'01
	8057 Jul 11 23:02	0 ° Ω		asc. node	8058 Jun 26 19:47	15° © 47'42	
evening rise	8057 Jul 15 23:43	8° Ω 27'31		evening rise	8058 Jun 30 05:04	22° 5 41'29	
	8057 Jul 27 11:15	0° m			8058 Jul 03 21:00	$0^{\circ}\Omega$	
evening max el	8057 Aug 04 05:52	7	21°03'11	evening max el	8058 Jul 17 14:35	21° Ω 08'59	19°48'14
desc. node	8057 Aug 13 19:07	15°Mp37'26		retrograde	8058 Jul 27 17:00	26° Ω 07'43	
retrograde	8057 Aug 16 01:06	15° m 49'55		evening set	8058 Jul 29 13:38	25° Ω 58′20	
evening set	8057 Aug 18 07:32	15° m 37'47		desc. node	8058 Jul 31 16:13	25° Ω 26'32	
inferior conj	8057 Aug 27 13:38	11° m 40'40		inferior conj	8058 Aug 07 11:47	21° Ω 56'51	
minimum elong	8057 Aug 27 04:11	11° Mp 54'01	3°53'32	minimum elong	8058 Aug 07 06:04	22° Ω 05'38	
min. Earth dist.	8057 Aug 28 02:24	11° Mp 22'38	0.54693 AU	min. Earth dist.	8058 Aug 09 14:04	20° Ω 39'35	0.55273 AU
morning rise	8057 Sep 05 01:15	7° Mp 45'24		morning rise	8058 Aug 15 20:30	17° Ω 34'26 16° Ω 48'11	
direct	8057 Sep 08 20:31	7° Mp 14'23 13° Mp 22'40	22945150	direct	8058 Aug 20 10:22	23° Ω 39'40	24921124
morning max el	8057 Sep 21 17:33 8057 Oct 04 06:17	0° ⊡	22 43 30	morning max el	8058 Sep 03 06:23 8058 Sep 09 00:13	23 8 6 39 40	24 31 34
asc. node	8057 Oct 04 00:17 8057 Oct 05 22:22	0 = 2° £ 54'52		asc. node	8058 Sep	22° Mp 04'05	
morning set	8057 Oct 05 22:22 8057 Oct 14 04:06	2 ⊆ 34 32 19° ⊆ 09'37		asc. Houc	8058 Sep 26 18:21	0° ⊽	
morning set	8057 Oct 14 04:00 8057 Oct 19 05:36	0°M.		morning set	8058 Sep 28 15:51	0 == 3° ჲ 59'17	
	0037 001 17 03.30	O IIU		morning set	0030 БСР 20 13.31	3 = 37 17	
superior conj	8057 Oct 21 04:47	4°M12'49	1°41'30	superior conj	8058 Oct 05 13:11	18° ≏ 58'25	1°37'38
minimum elong	8057 Oct 21 04:37	4°M11'58	1°41'34	minimum elong	8058 Oct 05 11:57	18° ≏ 51'41	1°37'36
max. Earth dist.	8057 Oct 24 09:26	10°M56'50	1.33862 AU	max. Earth dist.	8058 Oct 07 10:46	23° ჲ 06'02	1.32681 AU
evening rise	8057 Oct 29 01:57	20°M26'03			8058 Oct 10 16:30	0° M	
	8057 Nov 03 03:04	0° ∡		evening rise	8058 Oct 12 20:42	4°M29'36	
desc. node	8057 Nov 09 17:59	11° ∡ ³30′02			8058 Oct 26 19:38	0° ∡ ″	
	8057 Nov 22 04:26	0°る		desc. node	8058 Oct 27 15:03	1° ∡ 17'54	
evening max el	8057 Dec 02 17:11	12° る 08'19	27°11'24	evening max el	8058 Nov 15 04:36	25° ≯ 19'04	27°28'58
retrograde	8057 Dec 16 02:59	19° පි 28'51			8058 Nov 21 01:51	0°ಕ	
evening set	8057 Dec 22 22:12	16° ප් 52'11		retrograde	8058 Nov 28 21:46	2° る 37'18	
min. Earth dist.	8057 Dec 26 19:40		0.65052 AU	evening set	8058 Dec 05 23:15	0° ට 06'15	
inferior conj	8057 Dec 29 01:04	10°る42'59		e e a e	8058 Dec 06 02:45	30°₹ ⋌ 7	0.62242.477
minimum elong	8057 Dec 29 03:24	10° る 36'33	1°16'3'/	min. Earth dist.	8058 Dec 09 16:32	26° 🖈 55'46	0.63342 AU
asc. node	8058 Jan 01 21:45	6° る 50'16		inferior conj	8058 Dec 12 09:03	24° ₹ 14'54	
morning rise direct	8058 Jan 04 09:59 8058 Jan 07 01:14	5°る11'54 4°る35'09		minimum elong	8058 Dec 12 13:37	24° ₹ 03'27 18° ₹ 59'29	2-23-38
	8058 Jan 13 11:37	4 3 33 09 7° る 58'59	18°00'18	morning rise asc. node	8058 Dec 19 05:54 8058 Dec 19 18:47	18° ∡ '39'29 18° ∡' 48'45	
morning max el	8058 Jan 28 13:06	0°≈	18 00 18	direct	8058 Dec 21 14:48	18° 🗷 32'32	
morning set	8058 Jan 31 07:16	0 ∞ 4°≈33'40		morning max el	8058 Dec 28 05:00	21° 🖈 56'55	17048'11
desc. node	8058 Feb 05 17:19	13° ≈ 28'31		morning max ci	8059 Jan 03 10:10	0°る	17 40 11
dese. Hode	0030100 03 17.17	13 /4 2031		morning set	8059 Jan 13 12:30	0 ර 16° පි 57'07	
superior conj	8058 Feb 14 12:33	27° ≈ 38'47	-1°00'32	morning sec	8059 Jan 21 02:51	0°≈	
minimum elong	8058 Feb 14 05:31	27°≈10'53		desc. node	8059 Jan 23 14:17	4°≈09'30	
	8058 Feb 16 00:12	0°) €					
max. Earth dist.	8058 Feb 18 04:26	3°) €25'50	1.45266 AU	superior conj	8059 Jan 25 18:18	7° ≈ 45'07	-0°15'44
evening rise	8058 Mar 02 16:36	22°) 52'31		minimum elong	8059 Jan 25 16:38	7° ≈ 38'14	
C	8058 Mar 07 07:47	$0^{\circ}\mathbf{Y}$		behind sun begin	8059 Jan 25 13:49	7° ≈ 26'38	
greatest brilliancy	8058 Mar 16 14:22	14° Y 01'56	-0.7m	behind sun end	8059 Jan 25 19:27	7° ≈ 49'50	
evening max el	8058 Mar 28 07:35	29° Y 27'09	19°45'34	max. Earth dist.	8059 Jan 31 22:16	17° ≈ 45′08	1.44331 AU
	8058 Mar 28 20:49	9° 8			8059 Feb 08 17:27	0° ∀	
asc. node	8058 Mar 30 20:43	1° 8 43'59		evening rise	8059 Feb 10 03:38	2° 升 11'48	
retrograde	8058 Apr 04 17:53	3° 8 43'27			8059 Feb 28 21:32	$0^{\circ}\Upsilon$	
evening set	8058 Apr 08 10:43	2° 8 23'25		evening max el	8059 Mar 11 08:11	13° Y 05′56	20°49'33
	8058 Apr 10 23:47	30° ₹ Υ		asc. node	8059 Mar 17 17:48	17° Y 40′29	
inferior conj	8058 Apr 13 19:50	26° Y 25'24	3°17'58	retrograde	8059 Mar 19 16:21	17° Y 59'46	
minimum elong	8058 Apr 13 18:43	26° Y 29'08	3°17'49	evening set	8059 Mar 23 18:33	16° Y 24'38	
min. Earth dist.	8058 Apr 14 21:37	24°Y59'23	0.67186 AU	inferior conj	8059 Mar 29 02:00	10° Y 14'17	3°00'17
morning rise	8058 Apr 19 02:25	20° ℃ 07'55		minimum elong	8059 Mar 29 00:07	10° Y 20'47	2°59'55

min Forth dist	9050 Mar 20 14:09	9° Ƴ 32'25	0.67996 AU	avanina aat	9060 Mar 07 02:29	0° Υ 30'39	
min. Earth dist.	8059 Mar 29 14:08	9° γ 32′25 3° γ 59′20	0.67996 AU	evening set	8060 Mar 07 02:28		
morning rise	8059 Apr 03 05:28				8060 Mar 07 16:29	30° ₹	2022111
direct	8059 Apr 08 15:39	1° Y 34'58		inferior conj	8060 Mar 12 10:18	24°) 10′35	
morning max el	8059 Apr 19 12:18	8° Ƴ 04'17	23°52'17	minimum elong	8060 Mar 12 08:03	24° ∺ 18′24	
desc. node	8059 Apr 21 13:58	10° Y 15'47		min. Earth dist.	8060 Mar 12 09:51	24° ℋ 12'08	0.68374 AU
	8059 May 06 16:04	9° 8		morning rise	8060 Mar 17 13:29	17° ∺ 59'40	
morning set	8059 May 24 22:56	28° 8 54'02		direct	8060 Mar 22 09:37	15° ∺ 55'58	
	8059 May 25 14:18	$\Pi^{\circ}0$		morning max el	8060 Mar 31 23:11	21°) 33′30	22°22'59
max. Earth dist.	8059 May 28 17:53	5° Ⅱ 30'04	1.38504 AU	desc. node	8060 Apr 07 10:57	29°) €01'38	
	•				8060 Apr 08 05:15	0 ° Υ	
superior conj	8059 Jun 05 02:20	18° Ⅱ 58'29	-1°17'47		8060 Apr 28 22:51	0°8	
minimum elong	8059 Jun 05 07:04	19° Ⅱ 20'55		morning set	8060 May 04 13:48	8° 8 58'39	
minimum ciong	8059 Jun 10 19:34	0°9	1 1/11	max. Earth dist.	8060 May 09 15:25	17° 8 22'58	1.40748 AU
1				max. Earth dist.	•		1.40746 AU
asc. node	8059 Jun 13 16:50	5°939'32			8060 May 16 21:41	Π °0	
evening rise	8059 Jun 14 03:33	6°532'04					
	8059 Jun 27 18:47	$0^{\circ}\Omega$		superior conj	8060 May 17 10:31	0° ∏ 57′26	
evening max el	8059 Jun 30 11:47	3° Ω 03'22	18°53'47	minimum elong	8060 May 17 16:17	1° Ⅱ 23'20	1°45'21
retrograde	8059 Jul 08 23:37	7° Ω 15'25		evening rise	8060 May 27 15:48	19° ∏ 50′12	
evening set	8059 Jul 10 23:07	7° Ω 02'37		asc. node	8060 May 30 13:52	25° Ⅱ 17'28	
desc. node	8059 Jul 18 13:16	3° Ω 09'52			8060 Jun 02 03:43	0ಂತಾ	
inferior conj	8059 Jul 19 03:16	2° Ω 45'05	-0°10'36	evening max el	8060 Jun 12 18:00	15° © 34'42	18°19'57
minimum elong	8059 Jul 19 02:50	2° Ω 45'52		retrograde	8060 Jun 20 01:39	19° © 14'38	
transit middle	8059 Jul 19 02:50	2°Ω45'52		evening set	8060 Jun 22 08:06	18°954'21	
	8059 Jul 19 02:30 8059 Jul 19 00:01	2°Ω50'52	0 10 33	Ü	8060 Jun 29 16:27	16 3 3421	1°21'41
transit begin				inferior conj			
transit end	8059 Jul 19 05:39	2° Ω 40'51		minimum elong	8060 Jun 29 19:00	14° © 10'56	1°20'41
min. Earth dist.	8059 Jul 22 05:19	0° Ω 34'14	0.56709 AU	min. Earth dist.	8060 Jul 03 01:58	11° © 27'32	0.58711 AU
	8059 Jul 23 01:49	30° ₹ ©		desc. node	8060 Jul 04 10:20	10° © 26'08	
morning rise	8059 Jul 27 03:13	27° © 46'14		morning rise	8060 Jul 07 02:40	8° © 43'37	
direct	8059 Aug 01 13:45	26°535'30		direct	8060 Jul 13 06:48	7° 5 02'04	
	8059 Aug 11 01:01	$0^{\circ}\Omega$		morning max el	8060 Jul 27 16:02	14° © 47'23	27°17'56
morning max el	8059 Aug 15 20:17	3° Ω 59'03	26°07'30		8060 Aug 08 22:13	$0^{\circ}\Omega$	
C	8059 Sep 03 13:58	0° m			8060 Aug 25 20:54	0° m	
asc. node	8059 Sep 09 16:19	11° m)36'18		asc. node	8060 Aug 26 13:19	1° m) 24'52	
morning set	8059 Sep 13 02:48	18° m 44'18		morning set	8060 Aug 27 11:18	3° mp 19'55	
morning set	8059 Sep 18 06:51	0° ⊽		max. Earth dist.	8060 Sep 03 04:43	17° m) 58'11	1.31672 AU
	8039 Sep 18 00.31	0 ==		max. Earth dist.	8000 Scp 03 04.43	17 11 30 TI	1.310/2 AO
superior conj	8059 Sep 20 00:15	3° £ 49'07	1°28'05	superior conj	8060 Sep 03 12:05	18° m 39'06	1°13'21
minimum elong	8059 Sep 19 22:18	3° ⊆ 38'19	1°27'53	minimum elong	8060 Sep 03 12:03 8060 Sep 03 09:50	18° Mp 26'37	1°12'59
•				minimum ciong	-	0° ⊡	1 12 39
max. Earth dist.	8059 Sep 20 18:20	5° Ω 29'04	1.31953 AU		8060 Sep 08 15:41		
evening rise	8059 Sep 26 23:08	18° £ 53'18		evening rise	8060 Sep 10 06:44	3° £ 29'46	
	8059 Oct 02 11:56	0° M			8060 Sep 24 08:13	0° M	
desc. node	8059 Oct 14 12:08	20°M32'34		desc. node	8060 Sep 30 09:13	9° ™ 01'02	
	8059 Oct 21 08:34	0°⊀		evening max el	8060 Oct 09 13:06	19° M 41'41	26°26'41
evening max el	8059 Oct 28 12:12	7° ∡ ¹54'01	27°14'47	retrograde	8060 Oct 23 11:04	26°M47'42	
retrograde	8059 Nov 11 08:50	15° ∡ ¹05'57		evening set	8060 Oct 30 02:57	24°M58'40	
evening set	8059 Nov 18 10:18	12° ₹ 50'41		min. Earth dist.	8060 Nov 03 02:30	22°M24'01	0.59298 AU
min. Earth dist.	8059 Nov 22 02:54	10° ∡ 104'18	0.61381 AU	inferior conj	8060 Nov 06 07:19	19°M56'34	-4°38'29
inferior conj	8059 Nov 25 04:17	7° ≯ 22'32		minimum elong	8060 Nov 06 14:27	19°M42'50	
minimum elong	8059 Nov 25 10:53	7°×707'58		morning rise	8060 Nov 14 04:16	15°M22'21	
•	8059 Dec 02 13:41	2°×726'08	3 32 34	direct		15°M04'33	
morning rise	8059 Dec 02 13:41 8059 Dec 04 19:13	2° ₹ 05'21		asc. node	8060 Nov 16 10:16	13 11604 33 17°11624'09	
direct					8060 Nov 22 12:51		10020106
asc. node	8059 Dec 06 15:50	2° ₹ 20'18		morning max el	8060 Nov 24 06:59	18°M55'27	18°20'06
morning max el	8059 Dec 11 20:35	5° ≯ 38'38	17°54'19		8060 Dec 02 09:17	0°⊀	
	8059 Dec 27 09:44	0°₹		morning set	8060 Dec 10 03:36	14° ≯ 12'40	
morning set	8059 Dec 27 13:12	0° る 15'49			8060 Dec 18 12:24	0°₹	
	0000 x 07 000	100-70	0004:		0000 5	10-20	0055:00
superior conj	8060 Jan 07 01:48	19° る 05'25	0°24'53	superior conj	8060 Dec 19 08:35	1° る 32'36	
minimum elong	8060 Jan 07 03:54	19° る 14'32	0°24'43	minimum elong	8060 Dec 19 12:00	1° る 48'15	0°56'49
desc. node	8060 Jan 10 11:17	24° る 54'14		max. Earth dist.	8060 Dec 26 22:16	14° る 56'44	1.40826 AU
	8060 Jan 13 12:24	0° ≈		desc. node	8060 Dec 27 08:17	15° る 39'29	
max. Earth dist.	8060 Jan 14 12:38	1° ≈ 39'54	1.42793 AU	evening rise	8060 Dec 31 11:40	22° る 35'06	
evening rise	8060 Jan 20 22:20	11° ≈ 57'40		-	8061 Jan 05 02:08	0° ≈	
<i>5</i>	8060 Feb 01 18:58	0°) €			8061 Jan 25 19:37	0° ∀	
evening max el	8060 Feb 22 03:35	26°) 46'12	22°03'51	evening max el	8061 Feb 03 19:00	2.2	23°23'25
Croning max of	8060 Feb 25 19:01	20 γ (4012 0° γ	0551	retrograde	8061 Feb 14 08:20	16° X 43'38	
ratra ara da		0 γ 2° Υ 21'06		•		16 X 43 38 15° X 18'52	
retrograde	8060 Mar 02 13:38			asc. node	8061 Feb 18 11:58		
asc. node	8060 Mar 03 14:54	2° Y 15′27		evening set	8061 Feb 19 08:59	14°) 38'18	

inferior conj	8061 Feb 24 18:50	8° ₩ 11'50	1°56'20		8062 Feb 01 17:06	30°R≈	
minimum elong	8061 Feb 24 16:40	8°) 19'17	1°55'40	evening set	8062 Feb 03 12:30	28° ≈ 43'04	
min. Earth dist.	8061 Feb 24 06:35	8° H 53'57	0.68334 AU	asc. node	8062 Feb 05 09:03	26°≈53'34	
morning rise	8061 Mar 02 00:20	2°) (06'14	0.00334710	min. Earth dist.	8062 Feb 08 02:06	23°≈32'59	0.67890 AU
direct	8061 Mar 06 06:32	0° ¥ 25′07		inferior conj	8062 Feb 09 01:45	22°≈14'29	1°11'39
morning max el	8061 Mar 14 15:37	5°) 13′58	21°00'16	minimum elong	8062 Feb 09 00:09	22°≈19'47	
desc. node	8061 Mar 25 07:55	18° ¥ 26′10	21 00 10	morning rise	8062 Feb 14 12:00	16°≈15'37	1 11 00
dese. node	8061 Apr 02 08:42	0°Υ		direct	8062 Feb 18 05:14	14°≈56'19	
morning set	8061 Apr 14 01:52	17°Υ50'53		morning max el	8062 Feb 25 15:45	19° ≈ 06'25	19°49'41
	8061 Apr 21 16:38	0°8			8062 Mar 06 10:53	0°) €	
max. Earth dist.	8061 Apr 21 19:18		1.42781 AU	greatest brilliancy	8062 Mar 10 13:38	5°) 54′08	-0.6m
	1	_		desc. node	8062 Mar 12 04:52	8° ¥ 18'35	
superior conj	8061 Apr 28 20:56	11° 8 56'17	-2°05'44	morning set	8062 Mar 23 23:23	26° ₩ 09'07	
minimum elong	8061 Apr 29 01:10	12° 8 14'16	2°05'39		8062 Mar 26 11:09	0° Y	
	8061 May 09 04:58	$\Pi^{\circ}0$		max. Earth dist.	8062 Apr 04 06:05	13° Y 47'03	1.44349 AU
evening rise	8061 May 10 13:43	2° Ⅱ 26′26					
asc. node	8061 May 17 10:55	14° Ⅱ 36′20		superior conj	8062 Apr 09 06:38	21° Y 50'36	-2°11'25
evening max el	8061 May 27 05:26	28° Ⅲ 33'42	18°05'55	minimum elong	8062 Apr 09 05:24	21° Y 45'39	2°11'28
	8061 May 28 20:43	0 \circ \odot			8062 Apr 14 06:12	$8^{\circ 0}$	
retrograde	8061 Jun 02 20:37	1° © 57'24		evening rise	8062 Apr 22 16:39	14° 8 10'59	
evening set	8061 Jun 05 10:29	1° 5 26'38			8062 May 02 02:30	$\Pi^{\circ}0$	
	8061 Jun 08 00:24	30° Ŗ Ⅱ		asc. node	8062 May 04 07:59	3° Ⅱ 29'52	
inferior conj	8061 Jun 12 01:45	26° Ⅱ 28'23	2°25'38	evening max el	8062 May 10 18:46	11° ∏ 52'17	18°10'58
minimum elong	8061 Jun 12 04:47	26° Ⅲ 21′03	2°24'43	retrograde	8062 May 17 04:03	15° Ⅱ 14'18	
min. Earth dist.	8061 Jun 15 06:22	23° Ⅲ 24'34	0.60947 AU	evening set	8062 May 20 01:07	14° Ⅱ 31′04	
morning rise	8061 Jun 18 20:40	20° Ⅲ 31'34		inferior conj	8062 May 26 03:19	9° Ⅱ 14'13	3°03'52
desc. node	8061 Jun 21 07:24	19° Ⅱ 11'52		minimum elong	8062 May 26 05:26	9°∏08'24	3°03'24
direct	8061 Jun 25 11:48	18° Ⅲ 19'25		min. Earth dist.	8062 May 28 19:51	6° Ⅱ 18'42	0.63123 AU
morning max el	8061 Jul 09 18:39	26° Ⅱ 18'18	27°52'34	morning rise	8062 Jun 01 08:16	3° Ⅱ 03'46	
	8061 Jul 13 05:34	0 \circ		direct	8062 Jun 08 02:49	0°Ⅱ28'31	
	8061 Aug 02 11:49	$0^{\circ}\Omega$		desc. node	8062 Jun 08 04:25	0°∏28′32	
morning set	8061 Aug 11 15:26	17° Ω 39'53		morning max el	8062 Jun 22 02:22	8° Ⅱ 31'34	27°48'54
asc. node	8061 Aug 13 10:16	21° Ω 23'40			8062 Jul 08 16:16	0₀ ©	
	8061 Aug 17 10:08	0°Щ			8062 Jul 25 17:24	0 $^{\circ}\Omega$	
max. Earth dist.	8061 Aug 17 13:56	0° ™ 20'49	1.31844 AU	morning set	8062 Jul 26 13:03	1° Ω 38'12	
				asc. node	8062 Jul 31 07:15	11° Ω 28'23	
superior conj	8061 Aug 18 22:52	3°Mp21'48	0°53'51	max. Earth dist.	8062 Jul 31 17:58	12° Ω 25′22	1.32489 AU
minimum elong	8061 Aug 18 20:48	3° Mp 10'24	0°53'24				
evening rise	8061 Aug 25 17:17	18° Mp 11'35		superior conj	8062 Aug 03 06:47	17° Ω 52'09	
	8061 Aug 31 11:14	0° ⊽		minimum elong	8062 Aug 03 05:25	17° Ω 44'45	0°29'35
desc. node	8061 Sep 17 06:19	26° £ 24'06			8062 Aug 08 20:39	0° Mp	
	8061 Sep 20 14:11	0° ጤ 0° ጤ 37'54	25000120	evening rise	8062 Aug 10 04:56	2°₱53'20 0°₽	
evening max el	8061 Sep 21 05:46	7°M38'22	25 08 38	avanina may al	8062 Aug 24 20:10	10° £ 57'53	22022124
retrograde evening set	8061 Oct 05 02:57 8061 Oct 10 20:20	6°M23'43		evening max el desc. node	8062 Sep 02 17:17 8062 Sep 04 03:23	10 ⊆ 37 33 12° ⊆ 16'32	23 32 24
min. Earth dist.	8061 Oct 10 20:20 8061 Oct 15 17:17		0.57300 AU	retrograde	8062 Sep 16 06:41	12 ⊆ 10 32 17° ⊆ 44'59	
inferior conj	8061 Oct 18 14:53	1°M46'36		evening set	8062 Sep 10 00:41 8062 Sep 20 13:40	17° 2 04'41	
minimum elong	8061 Oct 18 19:11	1°M39'23		min. Earth dist.	8062 Sep 27 03:14		0.55694 AU
	8061 Oct 21 09:03	1 11€3923 30°RΩ	r	inferior conj	8062 Sep 29 02:17	13 = 3840 12° £ 48'48	
morning rise	8061 Oct 26 20:21	27° £ 35'25		minimum elong	8062 Sep 28 23:48	12° ⊆ 52'31	
direct	8061 Oct 29 07:22	27° ⊆ 17'48		morning rise	8062 Oct 07 12:06	8° £ 55'28	
	8061 Nov 05 11:34	0°M		direct	8062 Oct 10 08:57	8° £ 35'13	
morning max el	8061 Nov 07 08:30	1°M36'15	19°07'12	morning max el	8062 Oct 20 21:59		20°16'43
asc. node	8061 Nov 09 09:52	3°M46'43		asc. node	8062 Oct 27 06:51	21° ≏ 12'42	
morning set	8061 Nov 24 03:17	28°M34'07			8062 Nov 01 14:56	0°M	
C	8061 Nov 24 20:35	0° ⊼		morning set	8062 Nov 08 09:09	13°M11'33	
				Č			
superior conj	8061 Dec 02 09:28	14° ₹ ′51′03	1°20'07	superior conj	8062 Nov 15 23:38	28°M47'06	1°34'23
minimum elong	8061 Dec 02 12:32	15° ₹ 05'50	1°19'55	minimum elong	8062 Nov 16 01:34	28°M56'50	1°34'22
max. Earth dist.	8061 Dec 09 04:02	27° ∡ °29′25	1.38666 AU	5	8062 Nov 16 14:07	0°⊀	
	8061 Dec 10 13:43	8°0		max. Earth dist.	8062 Nov 21 10:28	9° ∡ ³30'24	1.36570 AU
evening rise	8061 Dec 12 22:57	4° ප 10'36		evening rise	8062 Nov 25 06:35	16° ⊀ 40'16	
desc. node	8061 Dec 14 05:17	6° る 20'54		desc. node	8062 Dec 01 02:17	26° ₹ ′54'38	
	8061 Dec 29 04:46	0° ≈			8062 Dec 02 22:31	8°0	
evening max el	8062 Jan 17 08:19	24° ≈ 14'46	24°42'17		8062 Dec 23 15:24	0° ≈	
	8062 Jan 24 21:12	0° ∀		evening max el	8062 Dec 30 21:19	8° ≈ 01'34	25°53'21
				~			
retrograde	8062 Jan 28 23:20	1° ∺ 01'48		retrograde	8063 Jan 12 09:32	15° ≈ 10′00	

	00/2 I 10 11-21	1200 040120			8063 Dec 26 14:11	200=01156	
evening set	8063 Jan 18 11:21	12°≈40'38	0.67070 ATT	retrograde		29° る 01'56	
min. Earth dist.	8063 Jan 22 18:10	8°≈05'03	0.67070 AU	evening set	8064 Jan 02 03:41	26°る26'24	0.65000 111
asc. node	8063 Jan 23 06:08	7° ≈ 27'39		min. Earth dist.	8064 Jan 06 04:27	22° る 25'24	0.65888 AU
inferior conj	8063 Jan 24 05:09	6°≈15′05	0°19'09	inferior conj	8064 Jan 08 03:01	20° ろ 09'39	-0°40'30
minimum elong	8063 Jan 24 04:39	6° ≈ 16'38	0°19'04	minimum elong	8064 Jan 08 04:10	20° る 06'18	0°39'52
morning rise	8063 Jan 29 22:31	0° ≈ 24'50		asc. node	8064 Jan 10 03:11	17° る 53'32	
	8063 Jan 30 16:43	30°Ŗ₹		morning rise	8064 Jan 14 05:40	14° る 30'33	
direct	8063 Feb 02 04:15	29° る 24'48		direct	8064 Jan 17 01:42	13° る 46'16	
	8063 Feb 04 17:41	0° ≈		morning max el	8064 Jan 23 13:06	17° る 14'05	18°15'06
marning may al	8063 Feb 08 23:28	3°≈08'00	18°54'10	morning max cr	8064 Feb 02 01:59	0°≈	10 15 00
morning max el			16 34 10	. ,			
desc. node	8063 Feb 27 01:47	28°≈31'04		morning set	8064 Feb 11 16:32	15°≈20'14	
	8063 Feb 28 00:40	0° ∀		desc. node	8064 Feb 13 22:43	18°≈58′20	
morning set	8063 Mar 03 06:23	5°) €02'34			8064 Feb 20 20:25	0° ∀	
max. Earth dist.	8063 Mar 17 22:16	27°) € 56′58	1.45285 AU				
	8063 Mar 19 05:36	0° Υ		superior conj	8064 Feb 26 23:40	9°) 40'43	-1°24'59
				minimum elong	8064 Feb 26 14:26	9°) 04'28	1°23'54
superior conj	8063 Mar 19 18:51	0° Y ′52'04	-1°57'42	max. Earth dist.	8064 Feb 28 17:51	12° ¥ 26′08	1.45495 AU
minimum elong	8063 Mar 19 10:56	0° Υ 20'59			8064 Mar 10 23:47	0°Υ	
evening rise	8063 Apr 03 20:37	24°Υ56'27	1 37 10	evening rise	8064 Mar 14 01:49	4° Υ 48'54	
evening rise	1			•		4 1 46 34 22° Υ 32'05	0.7
	8063 Apr 06 23:24	0°8		greatest brilliancy	8064 Mar 25 11:50		-0./m
asc. node	8063 Apr 21 05:03	21° 8 49'06			8064 Mar 30 12:44	0°8	
evening max el	8063 Apr 24 07:00	25° 8 22'11	18°34'20	evening max el	8064 Apr 06 15:50	8° 8 58'02	19°14'58
retrograde	8063 Apr 30 19:37	28° 8 55'54		asc. node	8064 Apr 07 02:08	9° 8 23'37	
evening set	8063 May 03 23:58	27° 8 58'50		retrograde	8064 Apr 13 15:58	12° 8 55'26	
inferior conj	8063 May 09 16:59	22° 8 24'47	3°21'30	evening set	8064 Apr 17 04:05	11° 8 43'46	
minimum elong	8063 May 09 17:45	22° 8 22'27	3°21'21	inferior conj	8064 Apr 22 15:16	5° 8 53'59	3°23'03
min. Earth dist.	8063 May 11 18:29	19° 8 56'07	0.65025 AU	minimum elong	8064 Apr 22 14:46	5° 8 55'37	3°22'56
			0.03023 AU	_	-	_	0.66532 AU
morning rise	8063 May 15 10:45	16° 8 08'25		min. Earth dist.	8064 Apr 24 01:24	4° 8 03'36	0.00332 AU
direct	8063 May 22 01:42	13° 8 22'04			8064 Apr 27 14:45	30° ₹ Υ	
desc. node	8063 May 26 01:26	14° 8 13'24		morning rise	8064 Apr 28 01:03	29° Y 36'15	
morning max el	8063 Jun 04 12:22	21° 8 16'58	27°10'45	direct	8064 May 04 07:07	26° Ƴ 51'12	
	8063 Jun 12 01:44	$\Pi^{\circ}0$		desc. node	8064 May 11 22:25	29° Ƴ 57'55	
	8063 Jul 01 20:12	0 \circ \mathfrak{S}			8064 May 11 23:32	$B_{\circ 0}$	
morning set	8063 Jul 10 01:21	15° © 06'25		morning max el	8064 May 16 22:31	4° 8 23'46	26°05'45
max. Earth dist.	8063 Jul 14 13:14	24°503'07	1.33624 AU		8064 Jun 05 11:42	0°II	
max. Earth dist.	8063 Jul 17 10:15	0°Ω	1.55024710	morning set	8064 Jun 22 00:43	27° I I54'53	
	8003 Jul 17 10.13	0 86		morning set		0°9	
					8064 Jun 23 03:33		
superior conj	8063 Jul 18 09:45	2° Ω 03′32	0°02'21	max. Earth dist.	8064 Jun 25 21:51	5° © 16'04	1.35234 AU
minimum elong	8063 Jul 18 09:38	2° Ω 02'57	0°02'11				
behind sun begin	8063 Jul 18 04:06	1° Ω 33'45		superior conj	8064 Jul 01 05:19	15° © 49'28	-0°28'09
behind sun end	8063 Jul 18 15:11	2° Ω 32'12		minimum elong	8064 Jul 01 06:57	15° © 57'46	0°27'58
asc. node	8063 Jul 18 04:14	1° Ω 34'25		asc. node	8064 Jul 04 01:14	21° 5 38'10	
evening rise	8063 Jul 25 15:46	17° Ω 28'56			8064 Jul 08 01:58	$0^{\circ}\Omega$	
3	8063 Jul 31 20:35	0° m/y		evening rise	8064 Jul 08 23:47	1° Ω 52'44	
evening max el	8063 Aug 15 07:41	21° mp 13'51	21°54'29	evening rise	8064 Jul 25 12:18	0° my	
desc. node	•		21 342)	evening max el			20020150
	8063 Aug 22 00:28	26° Mp 06'49		Č	8064 Jul 27 08:43	1° Mp 58'30	20°28'50
retrograde	8063 Aug 27 22:30	27° Tp 29'45		retrograde	8064 Aug 07 10:38	7° Mp 27'00	
evening set	8063 Aug 30 18:53	27° Mp 11'36		desc. node	8064 Aug 07 21:34	7° ™ 26′29	
inferior conj	8063 Sep 08 22:28	23°Mp11'18		evening set	8064 Aug 09 11:05	7° Mp 16′53	
minimum elong	8063 Sep 08 13:43	23° Mp 23'32	4°44'19	inferior conj	8064 Aug 18 15:34	3° m 19′39	-3°11'11
min. Earth dist.	8063 Sep 08 11:48	23° Mp 26'14	0.54798 AU	minimum elong	8064 Aug 18 07:07	3°M/31'52	3°08'24
morning rise	8063 Sep 17 09:53	19° m 22'23		min. Earth dist.	8064 Aug 19 21:26	2° Mp 36'25	0.54827 AU
direct	8063 Sep 20 20:27	18° m 56'19			8064 Aug 24 23:41	30°RΩ	
morning max el	8063 Oct 02 22:32	24° m) 38'02	21°47'04	morning rise	8064 Aug 27 02:36	29° Ω 15'15	
morning max cr	8063 Oct 02 22:32 8063 Oct 07 19:01	24 الله 30 02 0° Ω	21 4/04	direct	-	28° Ω 38'42	
,				direct	8064 Aug 31 05:38		
asc. node	8063 Oct 14 03:49	9° £ 27'42			8064 Sep 06 06:25	0° m/y	22021102
morning set	8063 Oct 23 18:49	27° Ω 58'12		morning max el	8064 Sep 13 13:37	5°Mp05'43	23°31'03
	8063 Oct 24 18:01	0°M₊		asc. node	8064 Sep 30 00:47	28° m 19'57	
					8064 Sep 30 22:09	0∘ ⊽	
superior conj	8063 Oct 30 23:12	13°M09'18	1°40'53	morning set	8064 Oct 07 06:18	12° ≏ 48'12	
minimum elong	8063 Oct 30 23:47	13°M12'20	1°40'59	-			
max. Earth dist.	8063 Nov 03 23:05	21°M23'29	1.34740 AU	superior conj	8064 Oct 14 05:05	27° ≏ 48'18	1°40'35
evening rise	8063 Nov 08 06:50	29°M54'19		minimum elong	8064 Oct 14 04:26	27° - 44'47	1°40'38
evening 1150		29 1163419 0° √ 1		minimum clong		2/ = 444/ 0° M	1 70 30
4 1	8063 Nov 08 08:01			man P. d. P.	8064 Oct 15 05:34		1 22202 444
desc. node	8063 Nov 17 23:20	17° ∡ 15'58		max. Earth dist.	8064 Oct 16 20:08	3°M25'36	1.33303 AU
	8063 Nov 26 01:17	0° ろ		evening rise	8064 Oct 21 19:48	13°M42'08	
evening max el	8063 Dec 13 10:42	21° る 43'47	26°49'11		8064 Oct 30 12:32	0°⊀	

desc. node	8064 Nov 03 20:24	7° ∡ 18'17		desc. node	8065 Oct 21 17:30	26°M53'38	
	8064 Nov 20 01:56	8°0			8065 Oct 23 18:21	0° ∡ ″	
evening max el	8064 Nov 24 23:21	5° る 09'25	27°22'33	evening max el	8065 Nov 07 09:19	18° ∡ °05'50	27°26'59
retrograde	8064 Dec 08 12:30	12° る 28'50		retrograde	8065 Nov 21 04:03	25° ∡ ¹21'44	
evening set	8064 Dec 15 11:07	9° ප 53'33		evening set	8065 Nov 28 06:42	22° ₹ 55'43	
min. Earth dist.	8064 Dec 19 06:38	6° る 25'56	0.64362 AU	min. Earth dist.	8065 Dec 01 22:56	19° ∡ 57′00	0.62535 AU
inferior conj	8064 Dec 21 16:51	3° る 51'34	-1°46'10	inferior conj	8065 Dec 04 19:48	17° ∡ 13'51	-2°55'26
minimum elong	8064 Dec 21 20:07	3° る 42'54	1°44'41	minimum elong	8065 Dec 05 01:19	17° ∡ ¹00'45	2°53'16
	8064 Dec 25 17:33	30°₽ ⋌ 7		morning rise	8065 Dec 11 22:02	12° ∡ ¹06′26	
asc. node	8064 Dec 27 00:14	29° ∡ ¹06'15		asc. node	8065 Dec 13 21:15	11° ∡ °43′00	
morning rise	8064 Dec 28 06:41	28° ∡ ¹26'40		direct	8065 Dec 14 05:09	11° ∡ °42'30	
direct	8064 Dec 30 19:02	27° ∡ 754′24		morning max el	8065 Dec 20 23:03	15° ∡ ¹09'18	17°48'34
	8065 Jan 04 19:39	o°ප			8065 Dec 31 06:56	0°ප	
morning max el	8065 Jan 06 06:00	1°る17'05	17°53'02	morning set	8066 Jan 05 21:50	9° ට 51'46	
morning set	8065 Jan 23 07:35	27° පි 02'51					
-	8065 Jan 25 01:38	0° ≈		superior conj	8066 Jan 17 09:02	29° ප් 46'10	0°02'21
desc. node	8065 Jan 30 19:40	9° ≈ 35'19		minimum elong	8066 Jan 17 09:16	29° る 47'13	0°02'27
				behind sun begin	8066 Jan 17 00:23	29° る 09'45	
superior conj	8065 Feb 05 16:21	19° ≈ 08'14	-0°41'29	behind sun end	8066 Jan 17 18:10	0° ≈ 24'36	
minimum elong	8065 Feb 05 11:36	18° ≈ 49'05	0°40'42	desc. node	8066 Jan 17 16:41	0°≈18'21	
max. Earth dist.	8065 Feb 10 13:33	26°≈55'26	1.44958 AU		8066 Jan 17 12:19	0° ≈	
	8065 Feb 12 12:24	0° ∀		max. Earth dist.	8066 Jan 24 06:08	11° ≈ 06'01	1.43741 AU
evening rise	8065 Feb 21 15:35	14° ℋ 10'19		evening rise	8066 Feb 01 04:05	23° ≈ 36'19	
Ü	8065 Mar 04 01:55	0° Υ		Č	8066 Feb 05 08:04	0° ₩	
greatest brilliancy	8065 Mar 08 10:50	6° Y 27'52	-0.6m		8066 Feb 26 08:02	$0^{\circ}\mathbf{Y}$	
evening max el	8065 Mar 20 19:36	22° Y 35'48	20°11'09	evening max el	8066 Mar 03 17:47	6° Ƴ 14'33	21°20'02
asc. node	8065 Mar 24 23:14	26° Y ′00′08		asc. node	8066 Mar 11 20:20	11° Y ′23'45	
retrograde	8065 Mar 28 14:23	27° Y °07'06		retrograde	8066 Mar 12 12:42	11° Y ′26'09	
evening set	8065 Apr 01 11:09	25° Ƴ 40′26		evening set	8066 Mar 16 19:15	9° Ƴ 44'24	
inferior conj	8065 Apr 06 19:16	19° Ƴ 36'43	3°11'45	inferior conj	8066 Mar 22 02:37	3° Y ′29'14	2°49'44
minimum elong	8065 Apr 06 17:47	19° Ƴ 41'46	3°11'30	minimum elong	8066 Mar 22 00:32	3° Y '36'30	2°49'16
min. Earth dist.	8065 Apr 07 15:00	18° Ƴ 29'45	0.67592 AU	min. Earth dist.	8066 Mar 22 09:13	3° Y ′06'17	0.68210 AU
morning rise	8065 Apr 12 00:12	13° Y ′20′16			8066 Mar 24 16:54	30° Ŗ ₩	
direct	8065 Apr 17 18:03	10° Ƴ 46'29		morning rise	8066 Mar 27 05:38	27°) € 15'43	
desc. node	8065 Apr 28 19:23	17° Ƴ 11'11		direct	8066 Apr 01 09:44	24° ¥ 59'57	
morning max el	8065 Apr 29 07:52	17° Ƴ 42'24	24°43'28		8066 Apr 10 13:35	$0^{\circ}\Upsilon$	
Č	8065 May 09 14:41	0°8		morning max el	8066 Apr 11 17:25	1° Y '07'56	23°13'54
	8065 May 29 12:30	0° I I		desc. node	8066 Apr 15 16:21	5° Y ′28'40	
morning set	8065 Jun 04 06:30	9° Ⅱ 51'19			8066 May 03 12:58	0°8	
max. Earth dist.	8065 Jun 07 21:23	16° Ⅱ 21'27	1.37238 AU	morning set	8066 May 16 13:02	20° 8 40'35	
				max. Earth dist.	8066 May 20 17:19	27° 8 47'48	1.39464 AU
superior conj	8065 Jun 14 14:21	29° Ⅱ 01'52	-0°59'53		8066 May 21 23:38	0°II	
minimum elong	8065 Jun 14 18:01	29° Ⅱ 19'41			,		
	8065 Jun 15 02:16	0°ತಾ		superior conj	8066 May 28 08:55	11° Ⅱ 30'31	-1°30'20
asc. node	8065 Jun 20 22:17	11° © 35'45		minimum elong	8066 May 28 14:18	11° Ⅱ 55'24	1°29'45
evening rise	8065 Jun 23 02:37	15°958'04		evening rise	8066 Jun 06 21:15	29° Ⅲ 36′02	
	8065 Jun 30 10:38	$0^{\circ}\Omega$			8066 Jun 07 02:14	0.ಪ	
evening max el	8065 Jul 09 23:00		19°22'28	asc. node	8066 Jun 07 19:20	1°5522'09	
retrograde	8065 Jul 19 08:11	18° Ω 05'23		evening max el	8066 Jun 23 00:27	25°538'16	18°36'53
evening set	8065 Jul 21 05:02	17° Ω 55'08		retrograde	8066 Jun 30 23:07	29° © 35'02	
desc. node	8065 Jul 25 18:39	16° Ω 14'46		evening set	8066 Jul 03 01:10	29° © 19'38	
inferior conj	8065 Jul 29 20:08	13° Ω 47'21	-1°14'34	inferior conj	8066 Jul 10 20:48	24° © 53'41	0°31'55
minimum elong	8065 Jul 29 16:48	13° Ω 52'48		minimum elong	8066 Jul 10 21:58	24°951'26	0°31'20
min. Earth dist.	8065 Aug 01 10:19	12° Ω 06′17		desc. node	8066 Jul 12 15:44	23° © 31'28	
morning rise	8065 Aug 07 01:53	9° Ω 09'55	0.00707110	min. Earth dist.	8066 Jul 14 03:55	22° © 23'57	0.57504 AU
direct	8065 Aug 12 00:20	8° Ω 14'39		morning rise	8066 Jul 18 15:15	19° © 39'07	
morning max el	8065 Aug 26 02:19	15° Ω 20'48	25°14'46	direct	8066 Jul 24 09:43	18° © 15'40	
	8065 Sep 06 19:56	0° m		morning max el	8066 Aug 07 18:35	25°\$50'34	26°41'24
asc. node	8065 Sep 16 21:46	17° MD 40'07			8066 Aug 11 16:19	0°Ω	
morning set	8065 Sep 21 17:56	27° Mp 36'59			8066 Aug 31 02:07	0° mp	
	8065 Sep 22 20:38	0° ت		asc. node	8066 Sep 03 18:46	ريات 7° m و19'48	
	5005 50p 22 20.56	· –		morning set	8066 Sep 06 04:02	12° M) 18'24	
superior conj	8065 Sep 28 14:53	12° £ 37'05	1°34'15	morning set	5000 Sep 00 04.02	12 Hy 1024	
minimum elong	8065 Sep 28 13:18	12° £ 37'03	1°34'15 1°34'09	superior conj	8066 Sep 13 02:29	27° m/28'03	1°22'27
max. Earth dist.	8065 Sep 28 13:18 8065 Sep 30 00:37	12° 22 28°22 15° Ω 42'00	1.32311 AU	minimum elong	8066 Sep 13 02:29 8066 Sep 13 00:21	27° mg 16'13	1°22'27 1°22'10
	8065 Oct 05 18:10	27° £ 42'00	1.32311 AU	max. Earth dist.	8066 Sep 13 00:21 8066 Sep 13 09:39	-	1.31772 AU
evening rise	8065 Oct 05 18:10 8065 Oct 06 18:31	2/° ±2 55′13 0° M		max. Earui üist.	8066 Sep 13 09:39 8066 Sep 14 05:55	28°Mp07'44 0° ₽	1.31//2 AU
	3003 001 00 18.31	O IIIG			5000 Sep 14 03.33	· ==	

	00// 0 10 22 02	120 0 24120			00/7 4 20 11 52	120 m- 0211 1	1005112
evening rise	8066 Sep 19 23:02	12° £ 24'39		minimum elong	8067 Aug 28 11:52	12°Mp03'11	1°05'13
	8066 Sep 28 21:41	0°M		evening rise	8067 Sep 04 08:07	27° Mp 03'57	
desc. node	8066 Oct 08 14:35	15°M50'20			8067 Sep 05 17:22	0° ™	
	8066 Oct 20 05:30	0° ⊀ 7	26050122		8067 Sep 22 14:57	0°M	
evening max el	8066 Oct 20 14:07	0° ₹ 20'33	26°58'22	desc. node	8067 Sep 25 11:40	3°M53'19	2525440
retrograde	8066 Nov 03 11:51	7° ∡ ³30'47		evening max el	8067 Oct 02 11:36	11°M45'55	25°56'40
evening set	8066 Nov 10 10:31	5° ₹ 25'11		retrograde	8067 Oct 16 10:00	18°M49'46	
min. Earth dist.	8066 Nov 14 04:37	2° ∡ ¹45'43	0.60495 AU	evening set	8067 Oct 22 17:42	17°M15'03	
inferior conj	8066 Nov 17 08:31	0° ≯ 07'40		min. Earth dist.	8067 Oct 27 00:24	14°M39'43	0.58417 AU
minimum elong	8066 Nov 17 15:37	29°M52'50	4°01'13	inferior conj	8067 Oct 30 03:33	12°M23'43	
	8066 Nov 17 12:11	30°RM		minimum elong	8067 Oct 30 09:59	12°M12'01	4°59'31
morning rise	8066 Nov 24 23:06	25°M20'39		morning rise	8067 Nov 07 04:34	7° ™ 59'09	
direct	8066 Nov 27 04:09	25°M01'38		direct	8067 Nov 09 11:58	7° ™ 41'49	
asc. node	8066 Nov 30 18:16	25°M54′09		asc. node	8067 Nov 17 15:17	11°M32'43	
morning max el	8066 Dec 04 12:54	28°M41'29	18°02'50	morning max el	8067 Nov 17 19:53	11° M 43'41	18°37'24
	8066 Dec 05 18:48	0° ∡ ¹			8067 Nov 30 00:17	0° ∡ ¹	
morning set	8066 Dec 20 04:55	23° ∡ ¹27'45		morning set	8067 Dec 03 23:40	7° ∡ ¹35'55	
	8066 Dec 23 17:27	ರ°0					
				superior conj	8067 Dec 12 17:58	24° ∡ ¹26′10	1°08'01
superior conj	8066 Dec 30 02:57	11° る 36'12	0°39'41	minimum elong	8067 Dec 12 21:23	24° ∡ ¹42'10	1°07'43
minimum elong	8066 Dec 30 05:52	11° ප් 49'12	0°39'23		8067 Dec 15 18:14	0°ರ	
desc. node	8067 Jan 04 13:40	21° る 03'32		max. Earth dist.	8067 Dec 20 01:19	7° る 39'50	1.39913 AU
max. Earth dist.	8067 Jan 06 17:55	24° る 43'22	1.41988 AU	desc. node	8067 Dec 22 10:39	11° る 47'21	
	8067 Jan 09 22:47	0° ≈		evening rise	8067 Dec 24 04:18	14° පි 43'31	
evening rise	8067 Jan 12 05:43	3° ≈ 41'35		0.108	8068 Jan 02 16:42	0° ≈	
e vennig rise	8067 Jan 29 16:29	0° ∀			8068 Jan 24 15:11	0° ∀	
evening max el	8067 Feb 14 11:12	19°) 55'40	22°37'25	evening max el	8068 Jan 28 01:36	3°) (40′04	23°57'38
•	8067 Feb 24 09:09	25°) (48'31	22 31 23	retrograde	8068 Feb 08 02:18	10°) (09'17	23 37 38
retrograde asc. node	8067 Feb 24 09:09 8067 Feb 26 17:24	25° H 20'46		evening set	8068 Feb 13 08:08	7° H 58'17	
		23° X 51'49		•		7°) (44'32	
evening set	8067 Mar 01 02:46		201.0122	asc. node	8068 Feb 13 14:28		0.60100.411
inferior conj	8067 Mar 06 11:15		2°18'22	min. Earth dist.	8068 Feb 18 02:16	2°\(\frac{1}{2}28'21	0.68188 AU
minimum elong	8067 Mar 06 08:59	17°) (36'19	2°17'44	inferior conj	8068 Feb 18 19:18	1°) (30′32	1°38'22
min. Earth dist.	8067 Mar 06 05:45	17°) 47′32	0.68400 AU	minimum elong	8068 Feb 18 17:19	1°) 37′17	1°37′45
morning rise	8067 Mar 11 15:04	11° ∺ 19'21			8068 Feb 19 22:14	30° R ≈	
direct	8067 Mar 16 05:11	9° ∺ 25'07		morning rise	8068 Feb 24 02:29	25° ≈ 27′26	
morning max el	8067 Mar 25 06:14	14°)(41'41	21°46'35	direct	8068 Feb 28 03:08	23° ≈ 55'34	
desc. node	8067 Apr 02 13:19	24°) 32′42		morning max el	8068 Mar 07 01:37	28° ≈ 26′25	20°28'34
	8067 Apr 06 13:36	0 ° $\mathbf{\Upsilon}$			8068 Mar 08 13:25	0°) €	
morning set	8067 Apr 26 16:08	0° 8 13'26		desc. node	8068 Mar 19 10:14	14°) €09'58	
	8067 Apr 26 12:46	9° 8			8068 Mar 30 03:00	0 ° $\mathbf{\gamma}$	
max. Earth dist.	8067 May 02 16:43	10° 8 02'10	1.41652 AU	morning set	8068 Apr 04 19:29	8° Ƴ 43'19	
				max. Earth dist.	8068 Apr 13 23:35	23° Ƴ 11'56	1.43520 AU
superior conj	8067 May 10 08:30	23° 8 05'46	-1°55'37		8068 Apr 18 03:56	9° 8	
minimum elong	8067 May 10 14:02	23° 8 30'04	1°55'17				
	8067 May 14 05:53	$\Pi^{\circ}0$		superior conj	8068 Apr 20 08:34	3° 8 37'29	-2°10'16
evening rise	8067 May 21 04:01	12° Ⅲ 37'59		minimum elong	8068 Apr 20 10:57	3° 8 47'23	2°10'17
asc. node	8067 May 25 16:23	20° Ⅱ 52'59		evening rise	8068 May 02 18:22	24° 8 53'06	
	8067 May 31 00:24	0ಂತಾ		_	8068 May 05 16:27	$\Pi^{\circ}0$	
evening max el	8067 Jun 06 09:26	8°\$23'18	18°11'36	asc. node	8068 May 11 13:26	10° Ⅱ 01'54	
retrograde	8067 Jun 13 08:38	11° © 54'07		evening max el	8068 May 19 22:08	21° Ⅲ 32'01	18°05'46
evening set	8067 Jun 15 18:16	11° © 29'42		retrograde	8068 May 26 09:23	24° I 52'53	
inferior conj	8067 Jun 22 18:57	6°9543'15	1°52'10	evening set	8068 May 29 02:28	24° Ⅱ 16'51	
minimum elong	8067 Jun 22 21:57	6°936'35	1°51'07	inferior conj	8068 Jun 04 11:40	19° Ⅱ 10′28	2°44'38
min. Earth dist.	8067 Jun 26 03:47	3°544'53	0.59658 AU	minimum elong	8068 Jun 04 14:25	19° Ⅱ 03'25	
morning rise	8067 Jun 29 22:40	0°959'02	0.57050710	min. Earth dist.	8068 Jun 07 11:44	16° Ⅱ 03′25	0.61904 AU
desc. node	8067 Jun 29 12:46	1°9514'08		morning rise	8068 Jun 11 00:26	13° Ⅱ 07'43	0.01704 AC
desc. flode	8067 Jul 01 21:09	30°R∏		desc. node	8068 Jun 15 09:47	11° I I00'53	
direct	8067 Jul 01 21:09 8067 Jul 06 08:38	30°KⅡ 29°Ⅱ03'34		desc. node direct	8068 Jun 15 09:47 8068 Jun 17 18:07	11° Д 00'53	
direct		29°Щ03′34 0° ©				10°Щ43′51 18°Щ44′49	27055120
	8067 Jul 11 00:03		27027111	morning max el	8068 Jul 01 22:03		27°55'29
morning max el	8067 Jul 20 17:12		27°37'11		8068 Jul 11 09:43	0° ©	
	8067 Aug 07 01:54	0°N			8068 Jul 29 22:22	0°N	
morning set	8067 Aug 21 10:53	26° Ω 47'42		morning set	8068 Aug 04 12:33	10° Ω 59'12	
asc. node	8067 Aug 21 15:45	27° Ω 13'12		asc. node	8068 Aug 07 12:45	17° Ω 15'07	
	8067 Aug 22 23:19	0° m		max. Earth dist.	8068 Aug 10 03:20	22° Ω 50'49	1.32066 AU
max. Earth dist.	8067 Aug 27 19:47	10° Mp 34'15	1.31690 AU			_	
				superior conj	8068 Aug 11 23:54	26° Ω 53'53	0°44'14
superior conj	8067 Aug 28 14:06	12° Mp 15'34	1°05'39	minimum elong	8068 Aug 11 22:04	26° Ω 43'49	0°43'47

	8068 Aug 13 09:49	0° m		minimum elong	8069 Jul 27 05:06	11° Ω 12′05	0°18'22
evening rise	8068 Aug 18 19:24	11° Mp 46'52		evening rise	8069 Aug 03 06:59	26° Ω 27'02	
	8068 Aug 27 23:30	0∘ ⊽			8069 Aug 04 23:25	O° m y	
desc. node	8068 Sep 11 08:45	20° ≏ 41'33			8069 Aug 23 01:16	0。 ⊽	
evening max el	8068 Sep 13 01:38	22° ≏ 24'46	24°29'00	evening max el	8069 Aug 25 13:08	2° ≏ 38'11	22°49'55
retrograde	8068 Sep 26 20:30	29° ≏ 20'14		desc. node	8069 Aug 29 05:50	5° ≏ 46'22	
evening set	8068 Oct 02 00:25	28° ≏ 21'06		retrograde	8069 Sep 07 18:42	9° ₽ 14'43	
min. Earth dist.	8068 Oct 07 12:35	25° £ 31'36	0.56552 AU	evening set	8069 Sep 11 10:17	8° ≏ 45'31	
inferior conj	8068 Oct 10 02:27	23° ≏ 54'00	-5°32'19	min. Earth dist.	8069 Sep 18 21:11	5° ≏ 24'36	0.55211 AU
minimum elong	8068 Oct 10 04:14	23° ≙ 51'10	5°32'11	inferior conj	8069 Sep 20 06:19	4° ≙ 37'10	-5°19'03
morning rise	8068 Oct 18 10:12	19° ≙ 51'17		minimum elong	8069 Sep 20 00:40	4° ≙ 45'17	5°18'21
direct	8068 Oct 21 01:05	19° £ 32'43		morning rise	8069 Sep 28 17:05	0° £ 48′21	
morning max el	8068 Oct 30 16:32	24° ₽ 06'06	19°34'01	direct	8069 Oct 01 19:28	0° £ 26′05	
asc. node	8068 Nov 03 12:18	28° ≏ 24'20		morning max el	8069 Oct 13 00:26	5° ≏ 40'35	20°52'55
	8068 Nov 04 16:40	0°M.		asc. node	8069 Oct 21 09:17	16° ≏ 12'49	
morning set	8068 Nov 17 02:22	22°M05'48			8069 Oct 29 01:40	0°M	
S	8068 Nov 21 00:20	0° ∡ ¹		morning set	8069 Nov 01 10:08	6° ™ 48'15	
				<i>3</i>			
superior conj	8068 Nov 25 01:04	8° × 102'28	1°27'11	superior conj	8069 Nov 08 19:42	22°M11'13	1°38'01
minimum elong	8068 Nov 25 03:42	8° ∡ 15'27	1°27'04	minimum elong	8069 Nov 08 21:04	22°M18'11	1°38'04
max. Earth dist.	8068 Dec 01 07:14	19° ₹ 59'10	1.37755 AU	8	8069 Nov 12 16:37	0° ∡ 7	
evening rise	8068 Dec 05 00:41	26° х 43'29	1.57766116	max. Earth dist.	8069 Nov 13 15:59	1° √ 54'58	1.35749 AU
evening rise	8068 Dec 06 21:35	0°ਰ		evening rise	8069 Nov 17 15:53	9° × 33'08	1.557 17 110
desc. node	8068 Dec 08 07:40	2° පි 26'21		desc. node	8069 Nov 25 04:43	22° × 755'30	
dese. Hode	8068 Dec 26 04:57	0°≈		dese. Hode	8069 Nov 29 12:13	0°る	
evening max el	8069 Jan 09 14:47	17°≈27'20	25°13'55		8069 Dec 21 22:39	0° ≈	
retrograde	8069 Jan 21 15:10	24°≈24'06	23 13 33	evening max el	8069 Dec 21 22:39 8069 Dec 23 03:48	0 ∞ 1°≈12'29	26°19'17
•				•		8°≈26'23	20 1917
evening set	8069 Jan 27 09:52	22°≈00'25		retrograde	8070 Jan 04 23:03		
asc. node	8069 Jan 30 11:31	18°≈48'32	0.67502 ATT	evening set	8070 Jan 11 06:11	5°≈53'25	0.66615.411
min. Earth dist.	8069 Jan 31 20:30	17°≈05'10	0.67592 AU	min. Earth dist.	8070 Jan 15 10:15	1°≈32'53	0.66615 AU
inferior conj	8069 Feb 02 00:57	15°≈32'45	0°50'19		8070 Jan 16 16:45	30°Rる	0005110
minimum elong	8069 Feb 01 23:45	15°≈36'38	0°49'58	inferior conj	8070 Jan 17 02:14	29° る 30'58	
morning rise	8069 Feb 07 13:57	9° ≈ 37'24		minimum elong	8070 Jan 17 02:23	29° る 30'32	0°05'07
direct	8069 Feb 11 02:12	8°≈26'32		transit middle	8070 Jan 17 02:23	29° る 30'32	0°05'07
morning max el	8069 Feb 18 05:05	12° ≈ 23'14	19°24'10	transit begin	8070 Jan 16 23:39	29° පි 38'53	
greatest brilliancy	8069 Mar 03 02:53	29° ≈ 25'14	-0.7m	transit end	8070 Jan 17 05:06	29° る 22'12	
	8069 Mar 03 12:14	0°) €		asc. node	8070 Jan 17 08:35	29° る 11'37	
desc. node	8069 Mar 06 07:10	4°) 11'41		morning rise	8070 Jan 22 23:20	23° る 45'27	
morning set	8069 Mar 14 17:59	17° ∺ 07'59		direct	8070 Jan 26 00:42	22° る 52'38	
	8069 Mar 23 00:55	$0^{\circ}\mathbf{\Upsilon}$		morning max el	8070 Feb 01 15:41	26° る 27'47	18°35'33
max. Earth dist.	8069 Mar 27 13:31	7° Y 06'32	1.44837 AU		8070 Feb 04 18:55	0° ≈	
				desc. node	8070 Feb 21 04:07	24° ≈ 30′58	
superior conj	8069 Mar 31 08:03	13° Ƴ 05'46	-2°08'08	morning set	8070 Feb 22 11:21	26° ≈ 34'13	
minimum elong	8069 Mar 31 03:45	12° Ƴ 48'37	2°08'01		8070 Feb 24 15:32	0° ∀	
	8069 Apr 10 17:58	9° 8					
evening rise	8069 Apr 14 11:50	6° 8 12'45		superior conj	8070 Mar 10 14:46	21°) 55′04	-1°45'48
asc. node	8069 Apr 28 10:29	28° 8 41'46		minimum elong	8070 Mar 10 05:23	21° ∺ 18'19	1°44'58
	8069 Apr 29 08:49	Π $^{\circ}0$		max. Earth dist.	8070 Mar 10 07:34	21°) €26'54	1.45461 AU
evening max el	8069 May 03 11:18	4° Ⅱ 55'59	18°18'40		8070 Mar 15 18:26	0° Y	
retrograde	8069 May 09 20:51	8° Ⅲ 21′25		evening rise	8070 Mar 26 05:46	16° Ƴ 34'22	
evening set	8069 May 12 21:02	7° Ⅲ 32'16		greatest brilliancy	8070 Apr 03 16:17	29° Y 59'43	-0.8m
inferior conj	8069 May 18 18:51	2° Ⅱ 07'37	3°13'34		8070 Apr 03 16:22	0°8	
minimum elong	8069 May 18 20:25	2° Ⅲ 03′08	3°13'15	asc. node	8070 Apr 15 07:33	16° 8 43'31	
	8069 May 20 15:25	30° ₹ 8		evening max el	8070 Apr 16 22:16	18° 8 28'43	18°49'35
min. Earth dist.	8069 May 21 05:01	29° 8 22'00	0.63976 AU	retrograde	8070 Apr 23 14:59	22° 8 11'35	
morning rise	8069 May 24 18:41	25° 8 53'55		evening set	8070 Apr 26 22:28	21° 8 08'27	
direct	8069 May 31 12:20	23° 8 12'48		inferior conj	8070 May 02 12:36	15° 8 27'20	3°23'56
desc. node	8069 Jun 02 06:48	23° 8 22'50		minimum elong	8070 May 02 12:48	15° 8 26'41	3°23'49
	8069 Jun 13 01:11	0°II		min. Earth dist.	8070 May 04 07:28	13° 8 13'54	0.65709 AU
morning max el	8069 Jun 14 07:11	1° Ⅱ 13'23	27°36'34	morning rise	8070 May 08 02:33	9° 8 09'41	-
	8069 Jul 05 13:20	0°9		direct	8070 May 14 14:06	6° 8 22'35	
morning set	8069 Jul 19 06:35	24° 5 945'49		desc. node	8070 May 20 03:47	8° 8 02'35	
	8069 Jul 21 21:02	0°Ω		morning max el	8070 May 27 17:45	14° 8 10'33	26°45'59
max. Earth dist.	8069 Jul 24 04:19	4° Ω 46'06	1.32917 AU	morning max of	8070 Jun 09 14:09	0°II	20 100)
asc. node	8069 Jul 25 09:43	7° Ω 20'54	1.5271/AU		8070 Jun 28 06:31	0°9	
450. HOUC	5007 Jul 23 07.43	, 062034		morning set	8070 Jul 02 13:59	7° 9 59'24	
superior conj	8069 Jul 27 06:00	11° Ω 16'55	0°18'41	max. Earth dist.	8070 Jul 02 13:39 8070 Jul 06 19:21		1.34249 AU
superior conj	5007 Jul 27 00.00	11 0610 23	J 10 T1	max. Lattii Uist.	5070 Jul 00 17.21	10 -213 43	1.5727) AU

superior conj minimum elong	8070 Jul 11 06:11 8070 Jul 11 06:45	25°©18'48 25°©21'46		max. Earth dist.	8071 Jun 18 23:15 8071 Jun 20 09:11	27°∏18'33 0°©	1.36039 AU
behind sun begin	8070 Jul 11 02:19	24°958'41					
behind sun end	8070 Jul 11 11:12	25°5944'53		superior conj	8071 Jun 24 21:40	8° 9 51'25	-0°41'34
asc. node	8070 Jul 12 06:44	27° © 26'51		minimum elong	8071 Jun 25 00:09	9° 5 03'48	0°41'14
	8070 Jul 13 11:54	0°N		asc. node	8071 Jun 29 03:45	17° © 28'22	
evening rise	8070 Jul 18 16:56	10° Ω 58'56		evening rise	8071 Jul 02 23:01	25° © 15'21	
C	8070 Jul 28 14:13	0° m)		Ü	8071 Jul 05 07:27	$0^{\circ}\Omega$	
evening max el	8070 Aug 07 07:16	13° m 03'19	21°15'59	evening max el	8071 Jul 20 14:02	24° Ω 06′29	19°58'09
desc. node	8070 Aug 16 02:55	18° m 35'56		retrograde	8071 Jul 30 22:29	29° Ω 12'40	
retrograde	8070 Aug 19 08:06	19° m 01'10		evening set	8071 Aug 01 19:41	29° Ω 03'17	
evening set	8070 Aug 21 17:30	18° m) 47'53		desc. node	8071 Aug 02 24:00	28° Ω 48'19	
inferior conj	8070 Aug 30 23:28	14° m 50'21	-4°10'50	inferior conj	8071 Aug 10 19:52	25° Ω 03'27	-2°22'18
minimum elong	8070 Aug 30 13:57	15° m 03'43		minimum elong	8071 Aug 10 13:21	25°Ω13'18	
min. Earth dist.	8070 Aug 31 06:10	14° m) 40'54	0.54690 AU	min. Earth dist.	8071 Aug 12 17:19	23°Ω54'52	0.55129 AU
morning rise	8070 Sep 08 11:04	10° m 57'16		morning rise	8071 Aug 19 05:21	20°Ω46'08	
direct	8070 Sep 12 03:55	10° m) 27'44		direct	8071 Aug 23 16:27	20° Ω 02'34	
morning max el	8070 Sep 24 20:30	16° Mp 29'24	22°30'16	morning max el	8071 Sep 06 09:38	26° Ω 48'05	24°16'04
morning max or	8070 Oct 05 10:38	0ಂ ರ	22 30 10	morning max or	8071 Sep 09 09:30	0° m)	21 1001
asc. node	8070 Oct 08 06:17	ა — 4° Ω 45'06		asc. node	8071 Sep 25 03:17	23° m 50'13	
morning set	8070 Oct 16 20:49	21° ⊆ 37'02		use. Hode	8071 Sep 28 06:17	0∘ ರ	
morning set	8070 Oct 20 19:08	0°M		morning set	8071 Oct 01 08:33	° - 26'56	
	8070 Oct 20 19.08	O IIG		morning set	80/1 Oct 01 08.33	0 == 20 30	
superior conj	8070 Oct 23 22:20	6°M41'59	1°41'32	superior conj	8071 Oct 08 06:09	21° ≏ 26'06	1°38'35
minimum elong	8070 Oct 23 22:22	6°M42'08	1°41'38	minimum elong	8071 Oct 08 05:04	21° ≙ 20′10	1°38'35
max. Earth dist.	8070 Oct 27 07:47	13°M48'56	1.34076 AU	max. Earth dist.	8071 Oct 10 08:05	25° ≙ 56'23	1.32827 AU
evening rise	8070 Oct 31 22:01	23°ML02'48			8071 Oct 12 05:46	0°M	
	8070 Nov 04 13:43	0° ∡ ¹		evening rise	8071 Oct 15 15:22	7°ML02'44	
desc. node	8070 Nov 12 01:46	13° ₹ 09'29		Ü	8071 Oct 28 02:18	0° ∡ ¹	
	8070 Nov 23 04:29	6°0		desc. node	8071 Oct 29 22:52	3° ₹ 01'33	
evening max el	8070 Dec 05 16:50	14° ₹ 48'16	27°06'25	evening max el	8071 Nov 18 04:46	28° ₹ '03'54	27°28'21
retrograde	8070 Dec 19 01:18	22° る 08'42		C	8071 Nov 20 08:34	0°⋜	
evening set	8070 Dec 25 19:04	19° る 32'07		retrograde	8071 Dec 01 21:04	5° る 22'29	
min. Earth dist.	8070 Dec 29 17:21	15° る 45'39	0.65278 AU	evening set	8071 Dec 08 21:56	2°る50'11	
inferior conj	8070 Dec 31 21:00	13° る 20'39	-1°07'44	Ü	8071 Dec 12 05:38	30°R <i>⊀</i> 7	
minimum elong	8070 Dec 31 23:00	13° る 15'01	1°06'45	min. Earth dist.	8071 Dec 12 15:45	29° ₹ 35'19	0.63613 AU
asc. node	8071 Jan 04 05:39	9° る 50'52		inferior conj	8071 Dec 15 06:38	26° ₹ '55'52	-2°15'21
morning rise	8071 Jan 07 04:14	7°る47'22		minimum elong	8071 Dec 15 10:52	26° ∡ ¹45'07	2°13'32
direct	8071 Jan 09 20:37	7°る08'50		morning rise	8071 Dec 22 01:38	21° ∡ ³37'47	
morning max el	8071 Jan 16 07:06	10° る 33'32	18°03'34	asc. node	8071 Dec 22 02:42	21° ∡ ³36'45	
C	8071 Jan 29 20:43	0° ≈		direct	8071 Dec 24 11:20	21° ₹ ′09'34	
morning set	8071 Feb 03 10:09	7° ≈ 28'57		morning max el	8071 Dec 31 00:27	24° ∡ ³33'17	17°48'52
desc. node	8071 Feb 08 01:05	15° ≈ 02'42		Č	8072 Jan 04 11:26	0°⋜	
	8071 Feb 17 08:40	0°)		morning set	8072 Jan 16 11:59	19°₹43'03	
				Č	8072 Jan 22 12:17	0° ≈	
superior conj	8071 Feb 17 22:27	0°) 54'32	-1°07'11	desc. node	8072 Jan 25 22:04	5° ≈ 43'00	
minimum elong	8071 Feb 17 14:42	0°) €23'54					
max. Earth dist.	8071 Feb 21 02:56	5° ₩ 55'49	1.45348 AU	superior conj	8072 Jan 29 00:37	10°≈50'35	-0°22'26
evening rise	8071 Mar 06 02:54	26°) 09'01		minimum elong	8072 Jan 28 22:10	10° ≈ 40'35	0°21'57
	8071 Mar 08 14:44	$0^{\circ}\mathbf{\Upsilon}$		max. Earth dist.	8072 Feb 03 21:28	20° ≈ 19′01	1.44518 AU
greatest brilliancy	8071 Mar 19 10:58	16° Ƴ 32'03	-0.7m		8072 Feb 10 01:15	0° ∀	
	8071 Mar 29 07:10	$6^{\circ}B$		evening rise	8072 Feb 13 14:14	5°) 28′14	
evening max el	8071 Mar 31 05:01	2° 8 05'18	19°37'12		8072 Mar 01 00:23	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	8071 Apr 02 04:38	3° 8 54'58		evening max el	8072 Mar 13 06:30	15° Ƴ 44'13	20°39'11
retrograde	8071 Apr 07 12:29	6° 8 16'24		asc. node	8072 Mar 19 01:43	20° Ƴ 02'41	
evening set	8071 Apr 11 04:04	4° 8 58'36		retrograde	8072 Mar 21 10:59	20° Ƴ 31'48	
	8071 Apr 15 20:16	30° Ŗ ♈		evening set	8072 Mar 25 11:45	18° Ƴ 58'51	
inferior conj	8071 Apr 16 13:38	29° Ƴ 02'47	3°19'42	inferior conj	8072 Mar 30 19:20	12° Y ′50′12	3°03'36
minimum elong	8071 Apr 16 12:40	29° Y 05'58		minimum elong	8072 Mar 30 17:32	12° Y ′56′22	3°03'16
min. Earth dist.	8071 Apr 17 17:35	27° Ƴ 30'11	0.67030 AU	min. Earth dist.	8072 Mar 31 09:24	12° Y 01′50	0.67913 AU
morning rise	8071 Apr 21 20:57	22° Y 45'08		morning rise	8072 Apr 04 23:06	6° Ƴ 34'54	
direct	8071 Apr 27 22:07	20° Ƴ 03'33		direct	8072 Apr 10 11:22	4° Υ 07'52	
desc. node	8071 May 07 00:46	24° Y 27'54		morning max el	8072 Apr 21 12:26	10° Ƴ 44'05	24°05'35
morning max el	8071 May 10 03:31	27° Y 23′04	25°32'16	desc. node	8072 Apr 22 21:45	12° Ƴ 11'01	
-	8071 May 12 14:24	9° 8			8072 May 06 19:56	0°8	
	8071 Jun 03 06:08	$\Pi^{\circ}0$			8072 May 25 23:49	Π°	
morning set	8071 Jun 15 06:30	20° Ⅲ 27'32		morning set	8072 May 27 02:59	1° Ⅱ 56'34	

max. Earth dist.	8072 May 30 20:00	8° Ⅲ 27'19	1.38175 AU	morning set max. Earth dist.	8073 May 07 22:02 8073 May 12 17:09	12° 8 13'19 20° 8 13'49	1.40423 AU
superior conj	8072 Jun 07 01:03	21° ∏ 46′24	-1°13'09	max. Burtii dist.	8073 May 18 07:58	0°II	1.10123710
minimum elong	8072 Jun 07 05:32	22° I 107'46			0075 11243 10 07.50	~ _	
	8072 Jun 11 07:06	0°9		superior conj	8073 May 20 12:06	3° Ⅱ 53'42	-1°41'58
asc. node	8072 Jun 15 00:46	7° 5 21'34		minimum elong	8073 May 20 17:51	4° Ⅱ 19'40	
evening rise	8072 Jun 15 22:42	9° © 09'38		evening rise	8073 May 30 12:45	22° Ⅲ 33'38	
Č	8072 Jun 27 14:14	$0^{\circ}\Omega$		asc. node	8073 Jun 01 21:49	27° I 102'09	
evening max el	8072 Jul 02 09:30	5° Ω 54'00	19°00'33		8073 Jun 03 12:06	0ಂಣ	
retrograde	8072 Jul 11 02:30	10° Ω 12'17		evening max el	8073 Jun 15 14:34	18° © 20'22	18°23'39
evening set	8072 Jul 13 01:11	10° Ω 00'15		retrograde	8073 Jun 23 01:46	22° © 04'19	
desc. node	8072 Jul 19 21:04	6° Ω 45'30		evening set	8073 Jun 25 07:01	21° © 45'25	
inferior conj	8072 Jul 21 08:16	5° Ω 45'20	-0°26'45	inferior conj	8073 Jul 02 18:13	17° © 10'22	1°09'30
minimum elong	8072 Jul 21 07:08	5° Ω 47'18		minimum elong	8073 Jul 02 20:29	17° © 05'44	1°08'35
min. Earth dist.	8072 Jul 24 07:44	3° Ω 41'52	0.56449 AU	min. Earth dist.	8073 Jul 06 03:31	14° © 25'53	0.58385 AU
morning rise	8072 Jul 29 09:54	0° Ω 52'11		desc. node	8073 Jul 06 18:06	13° © 58'10	
Č	8072 Aug 01 06:45	30° №		morning rise	8073 Jul 10 06:38	11° © 42'04	
direct	8072 Aug 03 17:24	29°\$45'44		direct	8073 Jul 16 08:21	10° © 05'22	
	8072 Aug 06 04:14	$0^{\circ}\Omega$		morning max el	8073 Jul 30 17:47	17° © 48'17	27°09'40
morning max el	8072 Aug 17 22:56	7° Ω 04'51	25°54'39	Ü	8073 Aug 09 21:35	$0^{\circ}\Omega$	
Č	8072 Sep 03 20:57	0° m			8073 Aug 27 08:53	O° Mp	
asc. node	8072 Sep 11 00:15	13° m 19'32		asc. node	8073 Aug 28 21:14	3° m)06'10	
morning set	8072 Sep 14 19:43	21° m 13'00		morning set	8073 Aug 30 04:40	5° m 50'32	
	8072 Sep 18 20:47	0∘ <u>⊽</u>		5 5		4	
	1			superior conj	8073 Sep 06 04:44	21°M)06'52	1°15'56
superior conj	8072 Sep 21 16:55	6° £ 16'22	1°29'53	minimum elong	8073 Sep 06 02:30	20° m 54'28	1°15'34
minimum elong	8072 Sep 21 15:03	6° ₽ 06'02		max. Earth dist.	8073 Sep 06 01:12	20° m/47'16	1.31681 AU
max. Earth dist.	8072 Sep 22 15:00	8° ≏ 18'15			8073 Sep 10 05:15	$0 \circ \overline{\mathbf{v}}$	
evening rise	8072 Sep 28 16:48	21° ≏ 23'51		evening rise	8073 Sep 12 23:44	5° £ 58'46	
Ü	8072 Oct 02 22:54	0° M .		S	8073 Sep 25 13:21	0°M	
desc. node	8072 Oct 15 19:57	22°M22'09		desc. node	8073 Oct 02 17:01	10°M58'43	
	8072 Oct 21 04:20	0° √		evening max el	8073 Oct 12 15:00	22°M39'40	26°35'55
evening max el	8072 Oct 30 13:07	10° ≯ 45′00	27°19'05	retrograde	8073 Oct 26 12:52	29°M46'49	
retrograde	8072 Nov 13 09:12	17° ∡ 757'44		evening set	8073 Nov 02 06:58	27°M53'01	
evening set	8072 Nov 20 11:19	15° х 39′22		min. Earth dist.	8073 Nov 06 04:38	25°M17'48	0.59609 AU
min. Earth dist.	8072 Nov 24 03:39	12° ₹ 50'11	0.61686 AU	inferior conj	8073 Nov 09 09:35	22°M46'57	-4°29'46
inferior conj	8072 Nov 27 04:00	10° ∡ *07'40	-3°24'53	minimum elong	8073 Nov 09 16:49	22°M32'45	4°27'51
minimum elong	8072 Nov 27 10:20			morning rise	8073 Nov 17 05:00	18°M09'28	
morning rise	8072 Dec 04 11:32	5° ∡ 708'15		direct	8073 Nov 19 10:37	17°M51'26	
direct	8072 Dec 06 17:25	4° ∡ 746'42		asc. node	8073 Nov 24 20:45	19° M 44'01	
asc. node	8072 Dec 07 23:45	4° ∡ ¹53'45		morning max el	8073 Nov 27 03:54	21°M39'02	18°14'57
morning max el	8072 Dec 13 16:31	8° ҂ 17'56	17°52'13	· ·	8073 Dec 03 13:51	0° ⊼	
C	8072 Dec 27 19:28	0°ರ		morning set	8073 Dec 12 22:43	16° ∡ ¹46'13	
morning set	8072 Dec 29 10:09	2° る 54'39		•	8073 Dec 19 23:33	0°ප	
•							
superior conj	8073 Jan 09 04:17	22° る 00'03	0°19'12	superior conj	8073 Dec 22 07:51	4° る 17'51	0°52'50
minimum elong	8073 Jan 09 05:59	22° ප 07'21	0°19'05	minimum elong	8073 Dec 22 11:12	4°る33'03	0°52'30
desc. node	8073 Jan 11 19:04	26° る 27'28		desc. node	8073 Dec 29 16:04	17° る 12'45	
	8073 Jan 13 21:47	0° ≈		max. Earth dist.	8073 Dec 29 22:43	17° ප් 41'03	1.41137 AU
max. Earth dist.	8073 Jan 16 12:38	4°≈19'05	1.43057 AU	evening rise	8074 Jan 03 16:57	25° る 36'20	
evening rise	8073 Jan 23 06:56	15° ≈ 08'09			8074 Jan 06 10:21	0° ≈	
	8073 Feb 02 00:46	0° ∀			8074 Jan 26 19:52	0° ∀	
evening max el	8073 Feb 24 02:35	29° ∺ 24'13	21°52'11	evening max el	8074 Feb 06 18:22	13°) €06'13	23°11'27
-	8073 Feb 24 16:59	$0^{\circ}\mathbf{\Upsilon}$		retrograde	8074 Feb 17 03:48	19° ∺ 15'28	
retrograde	8073 Mar 05 08:33	4° Ƴ 52'57		asc. node	8074 Feb 20 19:53	18° ¥ 08'37	
asc. node	8073 Mar 05 22:48	4° Y 51'09		evening set	8074 Feb 22 02:35	17° ₩ 12'16	
evening set	8073 Mar 09 19:47	3° Y 04'40		min. Earth dist.	8074 Feb 27 01:28	11°) 22'45	0.68363 AU
-	8073 Mar 12 17:44	30° ₹ ₩		inferior conj	8074 Feb 27 12:01	10°) 46′23	2°02'23
inferior conj	8073 Mar 15 03:26	26°) 45'45	2°37'29	minimum elong	8074 Feb 27 09:49	10°) 53′59	
minimum elong	8073 Mar 15 01:13	26°) 53′29		morning rise	8074 Mar 04 17:00	4°) (39'50	
min. Earth dist.	8073 Mar 15 04:46	26°) (41'08	0.68351 AU	direct	8074 Mar 09 01:12	2° H 55'25	
morning rise	8073 Mar 20 06:29	20°) (34'11	-	morning max el	8074 Mar 17 14:19	7°) 51'19	21°11'54
direct	8073 Mar 25 04:40	18°) €27'22		desc. node	8074 Mar 27 15:39	20°) €09'28	
morning max el	8073 Apr 03 22:52		22°35'59		8074 Apr 03 13:51	0°Υ	
<i>5</i>	8073 Apr 09 02:28	0°Υ		morning set	8074 Apr 17 13:46	21°Υ15'33	
desc. node	8073 Apr 09 18:42	0° Υ 50'02			8074 Apr 23 01:14	0°8	
	8073 Apr 30 06:07	0°8		max. Earth dist.	8074 Apr 24 19:50		1.42501 AU
	55.5 - 1 P1 55 00.07			Zartir dist.	22		

superior conj	8074 May 02 02:03	15° 8 02'20		superior conj	8075 Apr 12 15:27	25° Y 06'30	-2°11'44
minimum elong	8074 May 02 06:45	15° 8 22'29	2°03'20	minimum elong	8075 Apr 12 15:17	25° Y 05'46	2°11'47
	8074 May 10 14:37	$\Pi^{\circ}0$			8075 Apr 15 15:00	$_{0\circ}$ 8	
evening rise	8074 May 13 13:08	5° Ⅱ 17'11		evening rise	8075 Apr 25 19:10	17° 8 10'05	
asc. node	8074 May 19 18:51	16° Ⅱ 24'32			8075 May 03 07:59	Π $\circ 0$	
	8074 May 28 20:40	0 \circ \odot		asc. node	8075 May 06 15:54	5° Ⅱ 22'40	
evening max el	8074 May 30 01:28	1° © 16'09	18°06'44	evening max el	8075 May 13 14:46	14° Ⅱ 32'52	18°09'01
retrograde	8074 Jun 05 18:27	4°9541'17		retrograde	8075 May 20 00:15	17° Ⅱ 54'05	
evening set	8074 Jun 08 07:09	4°9512'18		evening set	8075 May 22 20:17	17° Ⅱ 12'46	
	8074 Jun 14 06:29	30° Ŗ Ⅱ		inferior conj	8075 May 29 00:11	11° Ⅱ 58'42	2°59'28
inferior conj	8074 Jun 15 00:45	29° Ⅱ 17'08	2°17'39	minimum elong	8075 May 29 02:30	11° Ⅱ 52'29	2°58'55
minimum elong	8074 Jun 15 03:50	29° Ⅱ 09'51	2°16'41	min. Earth dist.	8075 May 31 18:51	9° Ⅱ 00'37	0.62818 AU
min. Earth dist.	8074 Jun 18 06:45	26° Ⅱ 13'51	0.60613 AU	morning rise	8075 Jun 04 07:06	5° Ⅱ 49'49	
morning rise	8074 Jun 21 21:54	23° Ⅲ 23'07		desc. node	8075 Jun 10 12:09	3°Ⅱ18'14	
desc. node	8074 Jun 23 15:08	22° Ⅲ 25′02		direct	8075 Jun 11 01:42	3° Ⅱ 17'13	
direct	8074 Jun 28 11:55	21° Ⅱ 15′02		morning max el	8075 Jun 25 02:29	11° Ⅲ 20′06	27°51'39
morning max el	8074 Jul 12 19:29	29° Ⅱ 12'54	27°49'49		8075 Jul 09 19:32	0ංම	
	8074 Jul 13 14:08	0 \circ \odot			8075 Jul 27 05:02	$0^{\circ}\Omega$	
	8074 Aug 03 20:03	$0^{\circ}\Omega$		morning set	8075 Jul 29 08:17	4° Ω 14'57	
morning set	8074 Aug 14 09:33	20° Ω 13′05		asc. node	8075 Aug 02 15:12	13° Ω 07'56	
asc. node	8074 Aug 15 18:12	23° Ω 03'44		max. Earth dist.	8075 Aug 03 15:39	15° Ω 18'14	1.32366 AU
	8074 Aug 18 23:49	0° m					
max. Earth dist.	8074 Aug 20 10:41	3° m 10'48	1.31787 AU	superior conj	8075 Aug 06 00:15	20° £ 23'34	0°33'52
				minimum elong	8075 Aug 05 22:44	20° Ω 15′24	0°33'27
superior conj	8074 Aug 21 15:46	5° m 50'57	0°57'07		8075 Aug 10 09:54	0° m)	
minimum elong	8074 Aug 21 13:38	5° m 39'12	0°56'39	evening rise	8075 Aug 12 21:34	5° M 22'06	
evening rise	8074 Aug 28 09:57	20° m 39'56			8075 Aug 25 21:20	0∘ ⊽	
	8074 Sep 01 21:55	0∘ 亚		evening max el	8075 Sep 05 20:43	14° ≙ 06'35	23°47'13
desc. node	8074 Sep 19 14:05	28° ♀ 32'53		desc. node	8075 Sep 06 11:10	14° ≏ 40'47	
	8074 Sep 20 19:47	0° M .		retrograde	8075 Sep 19 12:00	20° ≏ 56'14	
evening max el	8074 Sep 24 08:44	3°M42'42	25°21'47	evening set	8075 Sep 24 00:30	20° ≏ 11'28	
retrograde	8074 Oct 08 06:32	10°ML44'29		min. Earth dist.	8075 Sep 30 07:07	17° ≏ 10'09	0.55893 AU
evening set	8074 Oct 14 04:00	9°M24'30		inferior conj	8075 Oct 02 10:22	15° £ 52'56	-5°33'13
min. Earth dist.	8074 Oct 18 20:37	6°ML45'32	0.57577 AU	minimum elong	8075 Oct 02 09:03	15° ≏ 54'57	5°33'09
inferior conj	8074 Oct 21 20:07	4°ML43'42	-5°18'26	morning rise	8075 Oct 10 19:44	11° ≏ 57'24	
minimum elong	8074 Oct 22 01:07	4°ML35'08	5°17'44	direct	8075 Oct 13 14:55	11° ≏ 37'41	
morning rise	8074 Oct 30 00:35	0°M29'12		morning max el	8075 Oct 23 22:19	16° ≙ 28'10	20°05'00
direct	8074 Nov 01 10:24	0°ML11'49		asc. node	8075 Oct 29 14:45	23° ≙ 12'50	
morning max el	8074 Nov 10 06:56	4°M25'44	18°58'48		8075 Nov 02 21:54	0°M	
asc. node	8074 Nov 11 17:45	5°M55'27		morning set	8075 Nov 11 02:22	15°M40'14	
	8074 Nov 26 08:07	0° ∡ 7			8075 Nov 18 02:44	0° ∡ 7	
morning set	8074 Nov 26 21:14	1° х 04'33					
				superior conj	8075 Nov 18 18:47	1° 渘 ¹20'45	1°32'43
superior conj	8074 Dec 05 06:20	17° ∡ ¹29'33	1°17'12	minimum elong	8075 Nov 18 20:55	1° ∡ ³31′24	1°32'42
minimum elong	8074 Dec 05 09:31	17° ∡¹ 44'49	1°16'59	max. Earth dist.	8075 Nov 24 10:42	12° 渘 ¹24'04	1.36866 AU
max. Earth dist.	8074 Dec 12 04:35	0° ට 19'04	1.38987 AU	evening rise	8075 Nov 28 05:49	19° ∡¹ 25'52	
	8074 Dec 12 00:19	0°₹		desc. node	8075 Dec 03 10:06	28° 渘 ³30′40	
evening rise	8074 Dec 16 00:59	7° る 03'29			8075 Dec 04 07:15	0°ප	
desc. node	8074 Dec 16 13:04	7° る 55'13			8075 Dec 24 12:49	0° ≈	
	8074 Dec 30 10:01	0° ≈		evening max el	8076 Jan 02 20:59	10° ≈ 39′20	25°43'38
evening max el	8075 Jan 20 07:52	26° ≈ 51'43	24°30'57	retrograde	8076 Jan 15 06:22	17° ≈ 45′00	
	8075 Jan 23 19:41	0° ℋ		evening set	8076 Jan 21 06:18	15° ≈ 17'07	
retrograde	8075 Jan 31 19:25	3°) 34'45		min. Earth dist.	8076 Jan 25 14:07	10° ≈ 36′22	0.67215 AU
evening set	8075 Feb 06 06:38	1° ₩ 17'59		asc. node	8076 Jan 25 14:01	10° ≈ 36'41	
asc. node	8075 Feb 07 16:56	29° ≈ 56′00		inferior conj	8076 Jan 26 23:22	8° ≈ 50'52	0°27'39
	8075 Feb 07 15:25	30° R ≈		minimum elong	8076 Jan 26 22:40	8° ≈ 53'04	0°27'28
min. Earth dist.	8075 Feb 10 21:23	26° ≈ 02'40	0.67977 AU	morning rise	8076 Feb 01 15:31	2° ≈ 59'09	
inferior conj	8075 Feb 11 19:18	24° ≈ 49′23	1°18'58	direct	8076 Feb 04 22:55	1° ≈ 56'19	
minimum elong	8075 Feb 11 17:35	24° ≈ 55'07	1°18'25	morning max el	8076 Feb 11 19:51	5° ≈ 42'38	19°01'26
morning rise	8075 Feb 17 04:40	18° ≈ 49'16		greatest brilliancy	8076 Feb 25 18:19	24° ≈ 33'58	-0.8m
direct	8075 Feb 20 23:45	17° ≈ 26′48		desc. node	8076 Feb 29 09:33	0°) €08'32	
morning max el	8075 Feb 28 13:12	21° ≈ 42′03	19°59'17		8076 Feb 29 07:20	0° ∀	
	8075 Mar 07 11:36	0° ∀		morning set	8076 Mar 05 16:09	8° 升 18′58	
desc. node	8075 Mar 14 12:36	9° ∺ 58'25			8076 Mar 19 13:41	$0^{\circ}\mathbf{\Upsilon}$	
morning set	8075 Mar 27 12:02	29°) 34′46		max. Earth dist.	8076 Mar 19 21:10	0° Υ 29'23	1.45194 AU
	8075 Mar 27 18:35	0°Υ					
max. Earth dist.	8075 Apr 07 05:25	16° Y 22'35	1.44152 AU	superior conj	8076 Mar 22 06:14	4° Ƴ 14'03	-2°01'06

minimum elong	8076 Mar 21 23:08	3°Υ46'03	2°00'42	desc. node	8077 Feb 15 06:32	20°≈34'11	
evening rise	8076 Apr 06 02:39 8076 Apr 07 06:58	28° Y 04'22 0° ႘			8077 Feb 21 04:35	0° ∺	
asc. node	8076 Apr 22 12:59	23° 8 47'46		superior conj	8077 Mar 01 10:54	13°) €01'08	-1°30'53
evening max el	8076 Apr 26 03:23	28° 8 01'44	18°29'44	minimum elong	8077 Mar 01 01:24	12°) 23′53	1°29'50
	8076 Apr 28 10:19	Π °0		max. Earth dist.	8077 Mar 02 16:39	14°) 57'41	1.45514 AU
retrograde	8076 May 02 14:52	1° Ⅱ 32'45			8077 Mar 12 07:26	$0^{\circ}\Upsilon$	
evening set	8076 May 05 18:10	0° ∏ 37'42		evening rise	8077 Mar 17 11:01	8° Y 04'01	
	8076 May 06 17:04	30°₽ 8		greatest brilliancy	8077 Mar 28 03:21	24° Y 44'30	-0.8m
inferior conj	8076 May 11 12:19	25° 8 06'04	3°19'55		8077 Mar 31 14:49	0° 8	
minimum elong min. Earth dist.	8076 May 11 13:18 8076 May 13 16:05	25° 8 03'08 22° 8 32'39	3°19'43 0.64769 AU	asc. node evening max el	8077 Apr 09 10:03 8077 Apr 09 12:49	11° 8 29'50	19°07'52
morning rise	8076 May 17 07:35	18° 8 50'19	0.04709 AU	retrograde	8077 Apr 16 10:45	15° 8 30'08	19 07 32
direct	8076 May 23 23:28	16° 8 04'57		evening set	8077 Apr 19 21:41	14° 8 20'37	
desc. node	8076 May 27 09:09	16° 8 42'19		inferior conj	8077 Apr 25 09:31	8° 8 32'55	3°23'41
morning max el	8076 Jun 06 12:18	24° 8 01'28	27°18'18	minimum elong	8077 Apr 25 09:12	8° 8 33'58	3°23'35
	8076 Jun 11 20:49	$\Pi^{\circ}0$		min. Earth dist.	8077 Apr 26 21:51	6° 8 36'30	0.66334 AU
	8076 Jul 02 04:42	0 \circ		morning rise	8077 Apr 30 20:18	2° 8 15'08	
morning set	8076 Jul 11 22:12	17° © 48'31			8077 May 04 09:25	30° ₹ Υ	
max. Earth dist.	8076 Jul 16 12:33	27° © 01'08	1.33427 AU	direct	8077 May 07 03:52	29° Y 29'21	
1	8076 Jul 17 23:07	0° Ω		1 1	8077 May 10 02:23	0°8	
asc. node	8076 Jul 19 12:12	3° Ω 14′26		desc. node morning max el	8077 May 14 06:10 8077 May 19 22:39	2° と 10'50 7° と 06'14	26016140
superior conj	8076 Jul 20 04:09	4° Ω 38'40	0°06'45	morning max er	8077 Jun 06 16:27	0°Ⅱ	20 10 46
minimum elong	8076 Jul 20 03:48	4°Ω36'51	0°06'34	morning set	8077 Jun 24 23:48	0°9643'58	
behind sun begin	8076 Jul 19 22:43	4° Ω 09'58			8077 Jun 24 14:22	0°ಅ	
behind sun end	8076 Jul 20 08:53	5° Ω 03'47		max. Earth dist.	8077 Jun 28 22:57	8°518'11	1.34965 AU
evening rise	8076 Jul 27 08:42	19° Ω 59'35					
	8076 Aug 01 06:02	0° m/		superior conj	8077 Jul 04 01:00	18° © 29'05	-0°23'24
evening max el	8076 Aug 17 10:12	24° m 21'34	22°08'32	minimum elong	8077 Jul 04 02:20	18° © 35'56	0°23'16
desc. node	8076 Aug 23 08:14	28° m 52'17		asc. node	8077 Jul 06 09:13	23°9519'00	
	8076 Aug 25 22:03	0° ი			8077 Jul 09 14:10	0° Ω 4° Ω 25'57	
retrograde evening set	8076 Aug 30 05:15 8076 Sep 02 06:17	0° £ 43'13 0° £ 22'42		evening rise	8077 Jul 11 17:19 8077 Jul 26 02:01	0°m	
evening set	8076 Sep 02 00:17	0 <u>—</u> 22 ₹2		evening max el	8077 Jul 30 09:17	5° Mp 00'33	20°40'27
min. Earth dist.	8076 Sep 10 15:34	26° Mp 44'12	0.54878 AU	desc. node	8077 Aug 10 05:19	10° Mp 36'26	20 .027
inferior conj	8076 Sep 11 08:18	26° m 20'43		retrograde	8077 Aug 10 17:23	10° m 37'04	
minimum elong	8076 Sep 11 00:09	26° M 32'09	4°55'05	evening set	8077 Aug 12 19:35	10° Mp 26′24	
morning rise	8076 Sep 19 19:35	22° m 32'33		inferior conj	8077 Aug 22 00:56	6° Mp 29′26	-3°27'50
direct	8076 Sep 23 04:04	22° m 07'30		minimum elong	8077 Aug 21 16:00	6° ™ 42'13	3°25'01
morning max el	8076 Oct 05 00:42	27° m/41'59	21°32'32	min. Earth dist.	8077 Aug 23 00:54	5° Mp 55'06	0.54760 AU
1-	8076 Oct 07 07:00	0° ჲ 11° ჲ 21'48		morning rise	8077 Aug 30 12:14	2° Mp 28'43	
asc. node morning set	8076 Oct 15 11:46 8076 Oct 25 11:39	0°M26'31		direct morning max el	8077 Sep 03 12:29 8077 Sep 16 16:54	1° ሙ 54'17 8° ሙ 14'42	23°15'12
morning set	8076 Oct 25 11:37 8076 Oct 25 06:33	0°M		asc. node	8077 Oct 02 08:46	0° £ 09'21	23 13 12
					8077 Oct 02 06:43	0∘ಹ	
superior conj	8076 Nov 01 17:13	15°M40'12	1°40'21	morning set	8077 Oct 09 22:59	15° ≏ 16′38	
minimum elong	8076 Nov 01 18:00	15°M44'16	1°40'26				
max. Earth dist.	8076 Nov 05 22:25	24°M18'21	1.34990 AU	superior conj	8077 Oct 16 22:21	0°M17′29	1°41'02
	8076 Nov 08 19:44	0° ⊼ ¹		minimum elong	8077 Oct 16 21:52	0°M14'55	1°41'06
evening rise	8076 Nov 10 03:55	2° x ⁷ 34'24		F4h Ji-4	8077 Oct 16 19:06	0°M	1 22400 ATT
desc. node	8076 Nov 19 07:10 8076 Nov 26 05:58	18° メ 54'33 0°る		max. Earth dist. evening rise	8077 Oct 19 18:09 8077 Oct 24 15:13	16°M17'50	1.33490 AU
evening max el	8076 Dec 15 10:22	24° පි 23'01	26°42'05	evening rise	8077 Oct 31 21:44	0° ₹	
evening man er	8076 Dec 22 17:10	0°≈	20 .200	desc. node	8077 Nov 06 04:13	9° х 00'13	
retrograde	8076 Dec 28 11:46	1° ≈ 40′06			8077 Nov 20 19:07	0°ರ	
	8077 Jan 02 17:33	30°Rる		evening max el	8077 Nov 27 23:06	7° る 51'26	27°19'10
evening set	8077 Jan 03 23:44	29° る 05'04		retrograde	8077 Dec 11 11:06	15° る 11'21	
min. Earth dist.	8077 Jan 08 01:22	24° ප් 59'04	0.66090 AU	evening set	8077 Dec 18 08:39	12° පි 35'22	
inferior conj	8077 Jan 09 22:12	22° 3 46'46		min. Earth dist.	8077 Dec 22 04:48		0.64611 AU
minimum elong	8077 Jan 09 23:04	22°₹44'12	0~30'28	inferior conj	8077 Dec 24 13:23	6° る 30'47	
asc. node morning rise	8077 Jan 11 11:03 8077 Jan 15 23:21	21°る00'08 17°る05'55		minimum elong asc. node	8077 Dec 24 16:18 8077 Dec 29 08:07	6°る22'54 2°る02'27	1-34-33
direct	8077 Jan 18 20:45	1/20333		morning rise	8077 Dec 31 01:28	1°る02'27	
morning max el	8077 Jan 25 08:47	10 ර 1929 19° රි 48'42	18°19'53	direct	8078 Jan 02 14:49	0°る29'57	
<i>5</i> 52	8077 Feb 02 05:55	0°≈		morning max el	8078 Jan 09 01:24	3° ප 52'47	17°55'15
morning set	8077 Feb 13 21:51	18° ≈ 23'19		morning set	8078 Jan 26 08:50	29° ප 54'06	

JJ.	8078 Jan 26 10:14	0°≈		desc. node	8079 Jan 20 00:29	1° ≈ 52'21	
desc. node	8078 Feb 02 03:31	11° ≈ 10′09		superior conj	8079 Jan 20 13:33	2° ≈ 47'02	-0°04'00
superior conj	8078 Feb 09 00:48	22° ≈ 20'25	-0°48'19	minimum elong	8079 Jan 20 13:10	2°≈45'22	0°03'49
minimum elong	8078 Feb 08 19:13	22 ≈ 20 23 21° ≈ 58'02	0°47'27	behind sun begin	8079 Jan 20 04:13	2°≈07'59	0 03 47
max. Earth dist.	8078 Feb 13 12:21	21°≈27'34	1.45080 AU	behind sun end	8079 Jan 20 22:06	3°≈22'40	
max. Larm dist.	8078 Feb 13 20:35	0° ∀	1.43000710	max. Earth dist.	8079 Jan 27 05:17	13°≈41'03	1.43956 AU
evening rise	8078 Feb 25 02:17	17° ¥ 28'03		evening rise	8079 Feb 04 13:52	26°≈50'36	1.43730710
evening rise	8078 Mar 05 07:29	0°Υ		evening rise	8079 Feb 06 15:07	0° ∀	
greatest brilliancy	8078 Mar 11 19:28	9° Υ 41'20	-0.6m		8079 Feb 27 06:08	0°Υ	
evening max el	8078 Mar 23 17:21	25°Υ14'36	20°01'54	evening max el	8079 Mar 06 16:19	8° Υ 53'12	21°09'11
asc. node	8078 Mar 27 07:07	28°Υ16'20	20 0131	asc. node	8079 Mar 14 04:11	13° Υ 52'01	21 0) 11
retrograde	8078 Mar 31 09:03	29° Y 40'35		retrograde	8079 Mar 15 07:28	13° Y 58'40	
evening set	8078 Apr 04 04:25	28° Υ 16'14		evening set	8079 Mar 19 12:26	12° Υ 19'16	
inferior conj	8078 Apr 09 12:50	22° Υ 14'24	3°14'11	inferior conj	8079 Mar 24 19:47	6° Υ 05'43	2°53'42
minimum elong	8078 Apr 09 11:29	22° Υ 18'59	3°13'58	minimum elong	8079 Mar 24 17:46	6° Υ 12'45	2°53'17
min. Earth dist.	8078 Apr 10 10:39	21° Υ 00'44	0.67458 AU	min. Earth dist.	8079 Mar 25 04:19	5° Υ 36'08	0.68143 AU
morning rise	8078 Apr 14 18:17	15° Y 57′29		morning rise	8079 Mar 29 22:54	29°) 51′36	
direct	8078 Apr 20 14:03	13° Y 21'30			8079 Mar 29 19:11	30°R) €	
desc. node	8078 May 01 03:10	19° Υ 12'47		direct	8079 Apr 04 05:08	27°) 32'43	
morning max el	8078 May 02 08:11	20° Υ 24'10	24°56'27		8079 Apr 10 09:18	0° Υ	
	8078 May 10 13:47	0°8		morning max el	8079 Apr 14 17:26	3° Υ 48'28	23°27'19
	8078 May 30 20:40	0° I		desc. node	8079 Apr 18 00:08	7° Υ 21'54	20 27 19
morning set	8078 Jun 07 08:35	12° ∏ 49'32			8079 May 04 18:24	0°8	
max. Earth dist.	8078 Jun 10 23:31	19° Ⅲ 23'03	1.36917 AU	morning set	8079 May 19 18:53	23° 8 49'40	
	8078 Jun 16 13:53	0.0e			8079 May 23 09:19	0°II	
	0070 0411 10 13.03	ů Č		max. Earth dist.	8079 May 23 19:14	0° I I43'13	1.39129 AU
superior conj	8078 Jun 17 11:50	1°547'10	-0°55'04	man. Darin dist.	0077 May 25 17.11.	0 2 .5 .5	1.57127110
minimum elong	8078 Jun 17 15:11	2°903'37		superior conj	8079 May 31 08:48	14° Ⅱ 23'03	-1°25'56
asc. node	8078 Jun 23 06:14	13° © 17'49		minimum elong	8079 May 31 13:59	14° ∏ 47'12	
evening rise	8078 Jun 25 21:05	18° 5 34'39		viong	8079 Jun 08 12:49	0°9	1 20 22
	8078 Jul 01 17:50	0°N		evening rise	8079 Jun 09 17:06	2°917'05	
evening max el	8078 Jul 12 21:37	16° Ω 22'41	19°31'02	asc. node	8079 Jun 10 03:14	3°506'05	
retrograde	8078 Jul 22 12:47	21° Ω 07'53		evening max el	8079 Jun 25 21:39	28°927'57	18°42'22
evening set	8078 Jul 24 09:18	20° £ 58′04		3	8079 Jun 27 15:18	$0^{\circ}\Omega$	
desc. node	8078 Jul 28 02:23	19° Ω 45'36		retrograde	8079 Jul 04 00:42	2° Ω 29'40	
inferior conj	8078 Aug 02 03:02	16° Ω 52'40	-1°32'14	evening set	8079 Jul 06 01:46	2° Ω 15'17	
minimum elong	8078 Aug 01 22:52	16° Ω 59'21	1°30'43	S	8079 Jul 10 23:58	30° ℝ ூ	
min. Earth dist.	8078 Aug 04 13:21	15° Ω 19'46	0.55591 AU	inferior conj	8079 Jul 14 00:25	27°©52'26	0°17'15
morning rise	8078 Aug 10 09:56	12° Ω 20'32		minimum elong	8079 Jul 14 01:04	27° © 51'12	0°16'53
direct	8078 Aug 15 05:18	11° Ω 28'40		desc. node	8079 Jul 14 23:27	27° © 09'21	
morning max el	8078 Aug 29 05:33	18° Ω 30'01	24°59'57	min. Earth dist.	8079 Jul 17 06:08	25° © 28'52	0.57216 AU
C	8078 Sep 07 19:40	0° m/		morning rise	8079 Jul 21 20:52	22°543'14	
asc. node	8078 Sep 19 05:46	19° m 25'52		direct	8079 Jul 27 12:42	21° © 24'15	
morning set	8078 Sep 24 10:41	0° ₽ 05'39		morning max el	8079 Aug 10 20:52	28° © 55'33	26°30'09
	8078 Sep 24 09:37	0∘ ⊽			8079 Aug 11 22:47	$0^{\circ}\Omega$	
	•				8079 Sep 01 11:41	0° m	
superior conj	8078 Oct 01 07:40	15° ჲ 05'08	1°35'34	asc. node	8079 Sep 06 02:44	9° m 03'02	
minimum elong	8078 Oct 01 06:13	14° ≙ 57'06	1°35'30	morning set	8079 Sep 08 21:05	14° m 48'28	
max. Earth dist.	8078 Oct 02 21:30	18° ≙ 31'53	1.32430 AU				
	8078 Oct 08 07:00	0°M		superior conj	8079 Sep 15 19:07	29° m 56'16	1°24'35
evening rise	8078 Oct 08 12:20	0°M27'28		minimum elong	8079 Sep 15 17:02	29° m 44'45	1°24'19
desc. node	8078 Oct 24 01:16	28°M39'57			8079 Sep 15 19:47	0∘ ⊽	
	8078 Oct 24 21:49	0°⊀		max. Earth dist.	8079 Sep 16 06:01	0° £ 56'39	1.31823 AU
evening max el	8078 Nov 10 09:33	20° ₹ 52'43	27°28'20	evening rise	8079 Sep 22 16:22	14° ≙ 55'09	
retrograde	8078 Nov 24 03:50	28° ₹ 09'41			8079 Sep 30 06:43	0°M₊	
evening set	8078 Dec 01 06:13	25° ∡ ¹41'39		desc. node	8079 Oct 10 22:20	17° M 43'30	
min. Earth dist.	8078 Dec 04 22:42	22° ₹ 39'01	0.62820 AU		8079 Oct 20 10:52	0° ∡ ¹	
inferior conj	8078 Dec 07 18:08	19° ∡ 56′19	-2°44'57	evening max el	8079 Oct 23 15:24	3° ≯ 15′08	27°04'54
minimum elong	8078 Dec 07 23:20	19° ∡ ⁴43'45	2°42'51	retrograde	8079 Nov 06 12:54	10° ∡ ¹26′05	
morning rise	8078 Dec 14 18:29	14° ∡ °46′07		evening set	8079 Nov 13 12:42	8° ∡ 16′57	
asc. node	8078 Dec 16 05:11	14° ∡ ²24'49		min. Earth dist.	8079 Nov 17 06:06	5° ∡ ³35'17	0.60803 AU
direct	8078 Dec 17 02:07	14° ₹ 21'15		inferior conj	8079 Nov 20 09:14	2° ≯ 55'35	-3°53'34
morning max el	8078 Dec 23 18:37	17° ∡ ⁴47'03	17°48'03	minimum elong	8079 Nov 20 16:12	2° ∡ ¹40'44	3°51'19
	8079 Jan 01 13:38	0°ರ			8079 Nov 24 02:19	30°RM₊	
morning set	8079 Jan 08 20:00	12° る 34'11		morning rise	8079 Nov 27 22:02	28°M05'12	
	8079 Jan 18 21:45	0° ≈		direct	8079 Nov 30 03:08	27°M45'40	

asc. node	8079 Dec 03 02:13	28°M22'14			8080 Nov 30 08:59	0° ∡	
	8079 Dec 05 19:26	0° ∡ ¹		morning set	8080 Dec 05 18:17	10° ₹ 09'17	
morning max el	8079 Dec 07 09:09	1° × 23'09	17°59'24				
morning set	8079 Dec 23 00:57	26° ∡ *04'46		superior conj	8080 Dec 14 16:08	27° ₹ 09'18	1°04'17
	8079 Dec 25 03:57	0°ප		minimum elong	8080 Dec 14 19:35	27° × ⁷ 25'19	1°04'00
	9090 I 02 02.54	1.40=277106	0024124	Fauth diat	8080 Dec 16 05:08	0°る 10°る28'38	1 40227 ATT
superior conj minimum elong	8080 Jan 02 03:54 8080 Jan 02 06:35	14°る27'06 14°る38'54	0°34'34 0°34'19	max. Earth dist. desc. node	8080 Dec 22 02:08 8080 Dec 23 18:26	10° 6 28'38	1.40237 AU
desc. node	8080 Jan 02 00:33	14 3 38 34 22° る 37'38	0 3419	evening rise	8080 Dec 25 18:20 8080 Dec 26 08:14	13 32 130	
max. Earth dist.	8080 Jan 09 17:53	27° පි 24'36	1.42278 AU	evening rise	8081 Jan 02 23:40	0°≈	
	8080 Jan 11 07:35	0° ≈			8081 Jan 24 09:03	0°) €	
evening rise	8080 Jan 15 12:55	6° ≈ 49'03		evening max el	8081 Jan 30 01:10	6°) 18′13	23°45'42
	8080 Jan 30 20:29	0° ∀		retrograde	8081 Feb 09 21:53	12°) 42′14	
evening max el	8080 Feb 17 10:25	22° ∺ 34'17	22°25'35	asc. node	8081 Feb 14 22:21	10°) 40′38	
retrograde	8080 Feb 27 04:13	28° ∺ 20'53		evening set	8081 Feb 15 01:55	10° ∺ 33'11	
asc. node	8080 Feb 29 01:16	28°\(\)(03'01		min. Earth dist.	8081 Feb 19 21:14	4°) €58'15	0.68251 AU
evening set	8080 Mar 02 20:07	26° ¥ 26′25	2022142	inferior conj	8081 Feb 20 12:36	4°) €05'52	1°44'59
inferior conj	8080 Mar 08 04:21 8080 Mar 08 02:05	20°\(\mathbf{H}\) 04'11 20°\(\mathbf{H}\) 12'04	2°23'42 2°23'05	minimum elong	8081 Feb 20 10:32 8081 Feb 23 17:39	4°) 12'53 30°R≈	1°44'20
minimum elong min. Earth dist.	8080 Mar 08 02:03	20° X 12'04 20° X 17'06	0.68402 AU	morning rise	8081 Feb 25 17:39 8081 Feb 25 19:08	30 k≈ 28°≈01'54	
morning rise	8080 Mar 13 07:52	13°) 54'23	0.00402710	direct	8081 Mar 01 21:44	26°≈26'47	
direct	8080 Mar 18 00:06	11°) 56'44			8081 Mar 08 21:02	0° ∀	
morning max el	8080 Mar 27 05:26	17° ∺ 20'30	21°59'07	morning max el	8081 Mar 09 23:44	1°) €03'33	20°39'22
desc. node	8080 Apr 03 21:05	26°) 19'48		desc. node	8081 Mar 21 18:02	15°) 52′34	
	8080 Apr 06 15:14	$0^{\circ}\mathbf{\Upsilon}$			8081 Mar 31 09:11	$0^{\circ}\Upsilon$	
	8080 Apr 26 20:33	$0^{\circ}S$		morning set	8081 Apr 08 08:08	12° Y 10'15	
morning set	8080 Apr 29 02:03	3° 8 33'33		max. Earth dist.	8081 Apr 16 23:47	25° Y 52'38	1.43272 AU
max. Earth dist.	8080 May 04 17:48	12° 8 49'43	1.41345 AU		8081 Apr 19 12:36	0°8	
superior conj	8080 May 12 11:28	26° 8 06'57	-1°52'20	superior conj	8081 Apr 23 15:14	6° 8 48'22	-2°09'00
minimum elong	8080 May 12 17:10	26° 8 32'06	1°51'57	minimum elong	8081 Apr 23 18:22	7° 8 01'29	2°08'59
	8080 May 14 15:52	$\Pi^{\circ}0$		evening rise	8081 May 05 18:58	27° 8 47'50	
evening rise	8080 May 23 01:51	15° Ⅱ 24'55		_	8081 May 07 00:55	0°II	
asc. node	8080 May 27 00:14	22° II 39'28		asc. node	8081 May 13 21:18	11° I I52'18	10005125
evening max el	8080 May 31 04:20 8080 Jun 08 05:44	0°9 11°908'29	18°14'05	evening max el retrograde	8081 May 22 18:06 8081 May 29 06:29	24° Ⅱ 14'19 27° Ⅱ 35'52	18°05'25
retrograde	8080 Jun 15 07:35	11 \$08 29 14°\$42'04	16 14 03	evening set	8081 May 31 22:27	27° ∏ 01'42	
evening set	8080 Jun 17 16:08	14°919'07		inferior conj	8081 Jun 07 09:42	21° I 58'04	2°38'20
inferior conj	8080 Jun 24 19:27	9°935'33	1°41'52	minimum elong	8081 Jun 07 12:34	21° ∏ 50′51	
minimum elong	8080 Jun 24 22:20	9° 5 29'17	1°40'49	min. Earth dist.	8081 Jun 10 11:26	18° ∏ 54'34	0.61571 AU
min. Earth dist.	8080 Jun 28 04:47	6°9340'05	0.59326 AU	morning rise	8081 Jun 14 00:35	15° Ⅱ 56'46	
desc. node	8080 Jun 30 20:30	4°9540'17		desc. node	8081 Jun 17 17:31	14° Ⅱ 04'54	
morning rise	8080 Jul 02 01:28	3° 9 55'15		direct	8081 Jun 20 17:30	13° ∏ 37′22	
direct	8080 Jul 08 09:35	2°504'34	25021114	morning max el	8081 Jul 04 22:33	21° Ⅱ 37'38	27°55'18
morning max el	8080 Jul 22 18:23	9° 5 54'30	27°31'14		8081 Jul 12 05:46	0°©	
asc. node	8080 Aug 07 05:59 8080 Aug 22 23:41	0° Ω 28° Ω 54'39		morning set	8081 Jul 31 08:08 8081 Aug 07 07:08	0° Ω 13° Ω 34'57	
morning set	8080 Aug 23 04:32	28° € 34'39 29° € 19'59		asc. node	8081 Aug 07 07:08 8081 Aug 09 20:40	13° Ω 55'41	
morning sec	8080 Aug 23 12:09	0° m)		max. Earth dist.	8081 Aug 13 00:38		1.31980 AU
max. Earth dist.	8080 Aug 29 16:18		1.31673 AU		Č		
				superior conj	8081 Aug 14 17:03	29° Ω 25′02	0°47'46
superior conj	8080 Aug 30 06:50	14° m 44'44	1°08'31	minimum elong	8081 Aug 14 15:07	29° Ω 14′26	0°47'20
minimum elong	8080 Aug 30 04:35	14° m/32'15	1°08'06		8081 Aug 14 23:25	0° m/y	
evening rise	8080 Sep 06 00:59	29° m 33'38		evening rise	8081 Aug 21 12:05	14° Mp 16'41 0° <u>Ω</u>	
	8080 Sep 06 05:55 8080 Sep 22 14:41	0° II r 0° ত		desc. node	8081 Aug 29 07:19 8081 Sep 13 16:29	0° 11 22° 1 57'14	
desc. node	8080 Sep 26 19:24	5°M55'57		evening max el	8081 Sep 15 10.29 8081 Sep 16 05:02	25° ⊆ 33'09	24°43'09
evening max el	8080 Sep 20 17:24 8080 Oct 04 14:09	14°M48'32	26°07'50	c.ciiiig iiida ci	8081 Sep 21 21:07	0°M	2. 1507
retrograde	8080 Oct 18 12:26	21°M52'58		retrograde	8081 Sep 30 00:45	2°M30'25	
evening set	8080 Oct 24 23:16	20°M13'09		evening set	8081 Oct 05 09:42	1°M25'50	
min. Earth dist.	8080 Oct 29 03:10	17°ML38'27	0.58721 AU		8081 Oct 08 09:57	30° ₹ Ω	
inferior conj	8080 Nov 01 07:07	15°ML18'10		min. Earth dist.	8081 Oct 10 16:07	28° ≏ 39'44	0.56806 AU
minimum elong	8080 Nov 01 13:53	15°M05'36	4°51'54	inferior conj	8081 Oct 13 09:02	26° £ 55'23	
morning rise	8080 Nov 09 06:47	10°M50'07		minimum elong	8081 Oct 13 11:48	26° £ 50'56	5°29'46
direct	8080 Nov 11 13:35	10°M32'40		morning rise	8081 Oct 21 16:05	22° Ω 49'52	
asc. node morning max el	8080 Nov 18 23:15 8080 Nov 19 17:23	13°M48'38 14°M30'32	18°30'53	direct morning max el	8081 Oct 24 05:33 8081 Nov 02 15:48	22° £ 31'41 26° £ 59'30	19°24'11
morning max er	0000 NUV 17 17.23	14 11630 32	10 30 33	morning max ei	0001 NUV UZ 13.48	20 == 3930	17 44 11

	8081 Nov 05 10:28	0° M .		morning max el	8082 Oct 16 01:42	8° ≏ 41'24	20°39'52
asc. node	8081 Nov 05 20:15	0°M30'09		asc. node	8082 Oct 23 17:15	18° ≏ 10'46	
morning set	8081 Nov 19 20:01	24°M36'27			8082 Oct 30 11:56	0° M	
	8081 Nov 22 12:28	0°⊀		morning set	8082 Nov 04 03:12	9° ™ 17'14	
superior conj	8081 Nov 27 21:11	10° ∡ ³39'41	1°24'48	superior conj	8082 Nov 11 14:22	24°M44'17	1°36'52
minimum elong	8081 Nov 27 24:00	10° ₹ 53'22	1°24'40	minimum elong	8082 Nov 11 15:56	24°M52'15	1°36'53
max. Earth dist.	8081 Dec 04 08:00	22° ₹ 52'35	1.38073 AU		8082 Nov 14 04:57	0° ∡	
evening rise	8081 Dec 08 01:31	29° х 33′48		max. Earth dist.	8082 Nov 16 15:45	4° ∡ °49'17	1.36028 AU
	8081 Dec 08 07:29	0°₹		evening rise	8082 Nov 20 14:10	12° ₰ 16'39	
desc. node	8081 Dec 10 15:28	4° る 01'45		desc. node	8082 Nov 27 12:31	24° ∡ ³32'38	
	8081 Dec 27 07:48	0° ≈			8082 Nov 30 19:35	8°0	
evening max el	8082 Jan 12 14:21	20° ≈ 04'41	25°03'02		8082 Dec 22 10:59	0° ≈	
retrograde	8082 Jan 24 11:30	26° ≈ 58'16		evening max el	8082 Dec 26 03:21	3° ≈ 50'39	26°10'34
evening set	8082 Jan 30 04:18	24°≈36′09		retrograde	8083 Jan 07 20:19	11°≈03'06	
asc. node	8082 Feb 01 19:27	21°≈54'39	0.68806.433	evening set	8083 Jan 14 01:36	8°≈31'16	0.66500.433
min. Earth dist.	8082 Feb 03 15:57	19° ≈ 35'47	0.67706 AU	min. Earth dist.	8083 Jan 18 06:35	4°≈05'30	0.66780 AU
inferior conj	8082 Feb 04 18:44	18°≈08'04	0°58'08	inferior conj	8083 Jan 19 20:51	2°≈07'30	0°03'37
minimum elong	8082 Feb 04 17:23	18°≈12'30	0°57'42	minimum elong	8083 Jan 19 20:45	2°≈07'49	0°03'42
morning rise	8082 Feb 10 06:44	12°≈11'32		transit middle	8083 Jan 19 20:45 8083 Jan 19 17:58	2°≈07'49	0°03'42
direct	8082 Feb 13 20:42	10°≈57'47	19°32'46	transit begin transit end	8083 Jan 19 17:38 8083 Jan 19 23:32	2°≈16'26 1°≈59'13	
morning max el	8082 Feb 21 02:05 8082 Mar 04 16:29	14°≈58'50 0°) €	19 32 40	asc. node	8083 Jan 19 25.32 8083 Jan 19 16:32	1 ≈3913 2°≈20'52	
greatest brilliancy	8082 Mar 05 20:42	0 X 1° ¥ 43'45	-0.7m	asc. node	8083 Jan 21 15:16	2 ≈20 32 30°Rる	
desc. node	8082 Mar 08 14:59	5°\(\frac{4}{5}\)	-0.7111	morning rise	8083 Jan 25 16:36	30 kG 26° る 20'20	
morning set	8082 Mar 18 05:45	20° ₩ 30'54		direct	8083 Jan 28 19:26	25°る25'07	
morning set	8082 Mar 24 08:39	0° Υ		morning max el	8083 Feb 04 11:47	29° る 02'53	18°41'44
max. Earth dist.	8082 Mar 30 12:43	9° Υ 41'05	1.44678 AU	morning max cr	8083 Feb 05 09:55	0°≈	10 41 44
man. Darvir alov.	0002111111 30 12.13	7 1 11 00	1.1.10,0110	desc. node	8083 Feb 23 11:57	26°≈08'03	
superior conj	8082 Apr 03 18:08	16° Ƴ 24'59	-2°09'44	morning set	8083 Feb 25 19:15	29° ≈ 45'11	
minimum elong	8082 Apr 03 14:56	16° Ƴ 12'08		<i>5 5 1 1 1 1 1 1 1 1 1 1</i>	8083 Feb 25 23:01	0°) €	
	8082 Apr 12 02:23	0°8		max. Earth dist.	8083 Mar 13 06:07		1.45414 AU
evening rise	8082 Apr 17 15:49	9° 8 16'07					
•	8082 Apr 30 08:17	$\Pi^{\circ}0$		superior conj	8083 Mar 14 02:29	25° ¥ 17'52	-1°50'25
asc. node	8082 Apr 30 18:22	0° Ⅲ 37′10		minimum elong	8083 Mar 13 17:29	24°) 42'34	1°49'41
evening max el	8082 May 06 07:22	7° Ⅱ 36′18	18°15'37		8083 Mar 17 02:23	$0^{\circ}\Upsilon$	
retrograde	8082 May 12 16:42	11° Ⅱ 00′25		evening rise	8083 Mar 29 13:16	19° Ƴ 45'59	
evening set	8082 May 15 15:46	10° Ⅱ 13′23			8083 Apr 04 22:28	9° 8	
inferior conj	8082 May 21 15:01	4° Ⅱ 51′23	3°10'28	greatest brilliancy	8083 Apr 06 02:06	1° 8 50'10	-0.9m
minimum elong	8082 May 21 16:48	4° Ⅱ 46′23	3°10'05	asc. node	8083 Apr 17 15:28	18° 8 45'25	
min. Earth dist.	8082 May 24 03:26	2° Ⅱ 01'58	0.63679 AU	evening max el	8083 Apr 19 18:51	21° 8 08'06	18°43'55
	8082 May 26 03:10	30° ₹ 8		retrograde	8083 Apr 26 10:01	24° 8 47'33	
morning rise	8082 May 27 16:35	28° 8 38'37		evening set	8083 Apr 29 16:22	23° 8 46'36	
direct	8082 Jun 03 10:38	25° 8 59'21		inferior conj	8083 May 05 07:26	18° 8 07'59	
desc. node	8082 Jun 04 14:34	26° 8 03'41		minimum elong	8083 May 05 07:51	18° 8 06'43	3°23'12
	8082 Jun 12 19:43	0°II		min. Earth dist.	8083 May 07 04:39	15° 8 48'54	0.65477 AU
morning max el	8082 Jun 17 07:20	4° Ⅱ 01'12	27°41'37	morning rise	8083 May 10 22:40	11° 8 50'37	
	8082 Jul 06 19:10	0°©		direct	8083 May 17 11:28	9° 8 03'29	
morning set	8082 Jul 22 02:31	27° © 25'52		desc. node	8083 May 22 11:34	10° 8 24'18	26055100
Earth diet	8082 Jul 23 09:14 8082 Jul 27 02:49	0° Ω 7° Ω 4314€	1 22757 ATT	morning max el	8083 May 30 17:46	16° 8 54'25 0° Ⅱ	26°55'08
max. Earth dist. asc. node	8082 Jul 27 02:49 8082 Jul 27 17:38	7° Ω 42'46 9° Ω 01'06	1.32757 AU		8083 Jun 10 14:44 8083 Jun 29 16:08	0₀© 0∘П	
asc. node	6062 Jul 2/ 17.36	9 8601 00		morning set	8083 Jul 05 11:41	0	
superior conj	8082 Jul 29 23:50	13° Ω 50'41	0°22'49	max. Earth dist.	8083 Jul 09 19:17	10 \$344 34 19°\$13'22	1.34019 AU
minimum elong	8082 Jul 29 22:45	13° Ω 44'52	0°22'28	max. Earth dist.	0003 Jul 09 19.17	19 31322	1.54019 AO
evening rise	8082 Aug 05 23:44	28° £ 57′29	0 22 26	superior conj	8083 Jul 14 01:03	27° © 55'49	-0°05'45
evening rise	8082 Aug 06 11:31	0°m)		minimum elong	8083 Jul 14 01:22		0°05'49
	8082 Aug 23 13:41	0° ت		behind sun begin	8083 Jul 13 20:01	27° 9 29'34	3 33 13
evening max el	8082 Aug 28 16:18	o — 5° Ω 47'50	23°04'42	behind sun end	8083 Jul 14 06:42	28°\$25'24	
desc. node	8082 Aug 31 13:35	8° ₽ 19'38		asc. node	8083 Jul 14 14:39	29° © 07'01	
retrograde	8082 Sep 11 00:57	12° £ 28'37			8083 Jul 15 00:44	0°Ω	
evening set	8082 Sep 14 21:53	11° £ 55'47		evening rise	8083 Jul 21 10:02	13° Ω 30'29	
min. Earth dist.	8082 Sep 22 01:08	8° ≏ 40'18	0.55365 AU	<i>3</i>	8083 Jul 29 19:32	0° m)	
inferior conj	8082 Sep 23 15:25	7° £ 44'51		evening max el	8083 Aug 10 09:00	16° Mp 09'06	21°29'10
minimum elong	8082 Sep 23 10:50	7° ჲ 51'30		desc. node	8083 Aug 18 10:40	21°m)31'21	
morning rise	8082 Oct 02 01:54	3° ₽ 54'49		retrograde	8083 Aug 22 15:05	22° m 13'35	
direct	8082 Oct 05 02:15	3° ≏ 33'21		evening set	8083 Aug 25 03:55	21° m 58'54	

	0002 0 02 00 22	100% 00141	100 4100		0004 4 04 07 42	20 m 07146	
inferior conj	8083 Sep 03 09:22	18° Mp 00'41		desc. node	8084 Aug 04 07:43	2° Mp 07'46	
minimum elong	8083 Sep 02 23:57	18° m) 13'52			8084 Aug 10 00:12	30°R Ω	
min. Earth dist.	8083 Sep 03 09:59	17° m 59'48	0.54708 AU	inferior conj	8084 Aug 13 04:20	28° Ω 11'31	
morning rise	8083 Sep 11 20:55	14° Mp 09'24		minimum elong	8084 Aug 12 21:03	28° Ω 22'20	
direct	8083 Sep 15 11:30	13° m 41'10		min. Earth dist.	8084 Aug 14 20:34	27° Ω 11'47	0.55001 AU
morning max el	8083 Sep 27 23:15	19° m 36'02	22°14'54	morning rise	8084 Aug 21 14:26	23° Ω 59'07	
	8083 Oct 06 12:07	0∘ ত		direct	8084 Aug 25 22:44	23° Ω 18′09	
asc. node	8083 Oct 10 14:14	6° £ 37′00		morning max el	8084 Sep 08 12:52	29° Ω 57'21	24°00'23
morning set	8083 Oct 19 13:31	24° ≙ 05'08			8084 Sep 08 14:00	0° m)	
	8083 Oct 22 08:24	0° M ₊		asc. node	8084 Sep 26 11:13	25° m/38'00	
					8084 Sep 28 17:18	0∘ ⊽	
superior conj	8083 Oct 26 15:58	9° M .12'04	1°41'26	morning set	8084 Oct 03 01:13	8° ≏ 55'29	
minimum elong	8083 Oct 26 16:12	9°ML13'15	1°41'31	3			
max. Earth dist.	8083 Oct 30 06:21	16°ML42'18	1.34299 AU	superior conj	8084 Oct 09 23:10	23° £ 54'47	1°39'26
evening rise	8083 Nov 03 18:18	25°M40'59	1.542)) 110	minimum elong	8084 Oct 09 22:13	23° ⊆ 49'42	1°39'27
evening rise	8083 Nov 06 00:34	0° ₹		max. Earth dist.	8084 Oct 12 05:37	28° - 48'27	1.32986 AU
daga mada		14° ∡ 749'13		max. Earm dist.	8084 Oct 12 03:37 8084 Oct 12 19:01	0°M	1.32900 AU
desc. node	8083 Nov 14 09:34						
	8083 Nov 24 06:00	0°る		evening rise	8084 Oct 17 10:13	9° M 37'14	
evening max el	8083 Dec 08 16:32	17° る 28'53	27°00'56		8084 Oct 28 09:37	0° ∡ ¹	
retrograde	8083 Dec 21 23:28	24° る 48'49		desc. node	8084 Oct 31 06:36	4° ∡ ¹45'10	
evening set	8083 Dec 28 15:45	22° る 12'30			8084 Nov 19 08:46	0°₹	
min. Earth dist.	8084 Jan 01 14:53	18° る 20'56	0.65496 AU	evening max el	8084 Nov 20 04:49	0°る48'33	27°26'55
inferior conj	8084 Jan 03 16:45	15° る 59'00	-0°57'53	retrograde	8084 Dec 03 20:04	8° ට 07'18	
minimum elong	8084 Jan 03 18:26	15° පි 54'11	0°57'01	evening set	8084 Dec 10 20:14	5° る 33'53	
asc. node	8084 Jan 06 13:36	12°る54'03		min. Earth dist.	8084 Dec 14 14:40	2°る14'34	0.63884 AU
morning rise	8084 Jan 09 22:20	10°る23'34			8084 Dec 16 18:57	30°R <i>⊀</i> 7	
direct	8084 Jan 12 15:56	9° ට 43'06		inferior conj	8084 Dec 17 03:54	29° ∡ ³36'45	-2°04'52
morning max el	8084 Jan 19 02:37	13° ⋜ 08'48	18°07'14	minimum elong	8084 Dec 17 07:47	29° х 26'43	2°03'09
morning max or	8084 Jan 31 03:26	0°≈	10 07 11	asc. node	8084 Dec 23 10:38	24° × ⁷ 27'23	2 03 07
morning set	8084 Feb 06 13:40	10°≈27'03		morning rise	8084 Dec 23 21:03	24°×16'07	
desc. node	8084 Feb 10 08:55	10 ≈27 03 16°≈38'13		direct	8084 Dec 26 07:40	23° x ⁷ 46'32	
desc. Hode		0° \					17940155
	8084 Feb 18 16:55	0°π		morning max el	8085 Jan 01 19:50	27° ₹ 09'39	17°49'55
	000451 01 00 10	40)/12/24	1010110		8085 Jan 04 08:13	0°る	
superior conj	8084 Feb 21 08:48	4° ★ 12'34		morning set	8085 Jan 18 11:50	22° る 30'29	
minimum elong	8084 Feb 21 00:25	3° ∺ 39'33			8085 Jan 22 21:28	0° ≈	
max. Earth dist.	8084 Feb 24 01:33	8° ∺ 27'08	1.45416 AU	desc. node	8085 Jan 27 05:54	7°≈17'21	
evening rise	8084 Mar 08 13:02	29° ∺ 26′14					
	8084 Mar 08 21:45	0 ° Υ		superior conj	8085 Jan 31 07:26	13° ≈ 57'55	-0°29'10
greatest brilliancy	8084 Mar 21 05:53	18° Ƴ 56'58	-0.7m	minimum elong	8085 Jan 31 04:11	13° ≈ 44'42	0°28'36
	8084 Mar 29 00:53	$_{0\circ}$ 8		max. Earth dist.	8085 Feb 05 20:33	22° ≈ 52'43	1.44689 AU
evening max el	8084 Apr 02 02:22	4° 8 44'23	19°29'05		8085 Feb 10 09:07	0° ∀	
asc. node	8084 Apr 03 12:33	6° 8 05'18		evening rise	8085 Feb 16 00:54	8°) 45′22	
retrograde	8084 Apr 09 07:06	8° 8 50'23		S	8085 Mar 02 04:08	$_0$ ° γ	
evening set	8084 Apr 12 21:27	7° 8 34'46		evening max el	8085 Mar 16 04:39	18° Ƴ 22'50	20°29'05
inferior conj	8084 Apr 18 07:32	1° 8 41'04	3°21'04	asc. node	8085 Mar 21 09:37	22° Y 23'32	
minimum elong	8084 Apr 18 06:44	1° 8 43'43	3°20'57	retrograde	8085 Mar 24 05:33	23°\cdot\04'26	
min. Earth dist.	8084 Apr 19 13:39	0° 8 02'06		evening set	8085 Mar 28 04:56	23° Y 33'38	
iiiii. Eartii tiist.	-	0 3 02 00 30° ₹ Υ	0.00809 AU	=			3°06'42
	8084 Apr 19 14:18	25° Υ 23'21		inferior conj	8085 Apr 02 12:39	15° Y $32'29$	3°06'24
morning rise	8084 Apr 23 15:40			minimum elong	8085 Apr 02 10:58		
direct	8084 Apr 29 18:39	22° Y 40′17		min. Earth dist.	8085 Apr 03 04:41	14° Y 31'49	0.67815 AU
desc. node	8084 May 08 08:34	26° Y 35′24		morning rise	8085 Apr 07 16:47	9° Y 10′59	
morning max el	8084 May 12 03:37	0° 8 04'39	25°44'14	direct	8085 Apr 13 07:02	6° Ƴ 41'29	
	8084 May 12 01:47	$_{0\circ}$ 8		morning max el	8085 Apr 24 12:35	13° Y 24'33	24°18'53
	8084 Jun 03 12:43	Π $^{\circ}0$		desc. node	8085 Apr 25 05:34	14° Ƴ 08'14	
morning set	8084 Jun 17 06:41	23° Ⅱ 19'46			8085 May 07 22:42	9° 8	
	8084 Jun 20 20:30	0 \circ \odot			8085 May 27 08:56	$\Pi^{\circ}0$	
max. Earth dist.	8084 Jun 21 00:37	0° © 19'37	1.35747 AU	morning set	8085 May 30 06:30	4° Ⅱ 58'17	
				max. Earth dist.	8085 Jun 02 22:15	11° Ⅱ 26'35	1.37845 AU
superior conj	8084 Jun 26 18:01	11°533'03	-0°36'45				
minimum elong	8084 Jun 26 20:11	11°943'59		superior conj	8085 Jun 09 23:26	24° ∏ 34'02	-1°08'27
asc. node	8084 Jun 30 11:40	11°909'17	3 30 27	minimum elong	8085 Jun 10 03:38		1°07'55
		19 \$309 17 27°\$49'22		mminum ciong	8085 Jun 12 18:38	24 ப 34 13	1 0/33
evening rise	8084 Jul 04 16:50			000 m-J-			
	8084 Jul 05 18:28	0° Ω	20000122	asc. node	8085 Jun 17 08:40	9°503'49	
evening max el	8084 Jul 22 13:46	27° Ω 05'39	20°08'32	evening rise	8085 Jun 18 17:39	11°5547'23	
	8084 Jul 26 02:09	0° m)			8085 Jun 28 14:45	0°N	
retrograde	8084 Aug 02 04:20	2° Mp 19'34		evening max el	8085 Jul 05 07:24	8° Ω 46'05	19°07'46
evening set	8084 Aug 04 02:22	2° Mp 10'04		retrograde	8085 Jul 14 05:51	13° Ω 11′03	

	0005 Il 16 02.46	120 0 50144			0007 I.m. 27 02.17	249655125	
evening set	8085 Jul 16 03:46	12° £ 59'44		retrograde	8086 Jun 26 02:17	24°955'25	
desc. node	8085 Jul 22 04:47	10° £ 21′00	0042127	evening set	8086 Jun 28 06:21	24°937'50	0056140
inferior conj	8085 Jul 24 13:44	8° Ω 47'23		inferior conj	8086 Jul 05 20:28	20°505'56	0°56'40
minimum elong	8085 Jul 24 11:51	8° Ω 50'34	0°42'50	minimum elong	8086 Jul 05 22:24	20° © 02'03	0°55'50
min. Earth dist.	8085 Jul 27 10:17	6° £ 51'33	0.56200 AU	min. Earth dist.	8086 Jul 09 05:15	17° © 26'09	0.58071 AU
morning rise	8085 Aug 01 16:55	3° Ω 59'51		desc. node	8086 Jul 09 01:51	17° © 32'37	
direct	8085 Aug 06 21:17	2° Ω 57'32		morning rise	8086 Jul 13 11:02	14°5642'09	
morning max el	8085 Aug 21 01:46	10° Ω 12'12	25°41'14	direct	8086 Jul 19 10:17	13°©10'11	
	8085 Sep 05 02:18	0° mp		morning max el	8086 Aug 02 19:45	20°©50'33	27°00'31
asc. node	8085 Sep 13 08:11	15° m 03'54			8086 Aug 10 18:05	$0 {\circ} \Omega$	
morning set	8085 Sep 17 12:33	23° m 42'15			8086 Aug 28 20:19	0° m	
	8085 Sep 20 10:26	0∘ ⊽		asc. node	8086 Aug 31 05:09	4° Mp 47′52	
				morning set	8086 Sep 01 21:56	8° № 20'54	
superior conj	8085 Sep 24 09:35	8° ≏ 44'15	1°31'33				
minimum elong	8085 Sep 24 07:49	8° ≏ 34'28	1°31'25	superior conj	8086 Sep 08 21:21	23° Mp 34'35	1°18'21
max. Earth dist.	8085 Sep 25 11:46	11° ≏ 08'25	1.32116 AU	minimum elong	8086 Sep 08 19:09	23° M 22'20	1°18'02
evening rise	8085 Oct 01 10:34	23° ≙ 55'16		max. Earth dist.	8086 Sep 08 21:35	23°M 35'52	1.31701 AU
	8085 Oct 04 10:16	0° M .			8086 Sep 11 18:59	0∘ ত	
desc. node	8085 Oct 18 03:38	24°MJ10'59		evening rise	8086 Sep 15 16:49	8° £ 27'53	
	8085 Oct 22 02:46	0° ∡ ¹			8086 Sep 26 19:52	0°M,	
evening max el	8085 Nov 02 13:46	13° ∡ ³35′06	27°22'33	desc. node	8086 Oct 05 00:42	12°M54'40	
retrograde	8085 Nov 16 09:20	20° ∡ ¹48'46		evening max el	8086 Oct 15 16:38	25°M36'18	26°44'28
evening set	8085 Nov 23 11:51	18° × ⁷ 27'29			8086 Oct 21 05:52	0° ∡ 7	
min. Earth dist.	8085 Nov 27 04:01	15° × ⁷ 35'13	0.61991 AU	retrograde	8086 Oct 29 14:28	2° ×7 44'41	
inferior conj	8085 Nov 30 03:16	12° × 752'12		evening set	8086 Nov 05 10:28	0° √ 146′28	
minimum elong	8085 Nov 30 09:20	12° × 32 12	3°12'09	evening set	8086 Nov 06 17:09	30°RM	
morning rise	8085 Nov 30 05:20 8085 Dec 07 08:58	7° × ⁷ 49'54	3 12 07	min. Earth dist.	8086 Nov 09 06:35	28°M10'11	0.59918 AU
direct	8085 Dec 07 08:38	7° × ⁷ 27'34		inferior conj	8086 Nov 12 11:24	25°M36'23	
asc. node	8085 Dec 10 07:40	7° × ⁷ 29'41			8086 Nov 12 11:24 8086 Nov 12 18:38	25°M21'50	
			17950121	minimum elong		20°M55'38	4 10 39
morning max el	8085 Dec 16 12:17	10° ₹ 56'57	1/*50/31	morning rise	8086 Nov 20 05:12		
	8085 Dec 29 04:36	0°る		direct	8086 Nov 22 10:29	20°M37'21	
morning set	8086 Jan 01 07:18	5° る 34'16		asc. node	8086 Nov 27 04:42	22°M05'59	10010116
				morning max el	8086 Nov 30 00:37	24°M21'58	18°10'16
superior conj	8086 Jan 12 07:14	24° ප් 56'09	0°13'21		8086 Dec 04 15:16	0° ∡	
minimum elong	8086 Jan 12 08:28	25° る 01'25	0°13'18	morning set	8086 Dec 15 18:03	19° ∡ 20′27	
behind sun begin	8086 Jan 12 03:35	24° ප් 40'35			8086 Dec 21 10:35	0°る	
behind sun end	8086 Jan 12 13:20	25° る 22'12					
desc. node	8086 Jan 14 02:51	28° る 01'05		superior conj	8086 Dec 25 07:30	7° る 04'27	0°48'18
	8086 Jan 15 07:11	0° ≈		minimum elong	8086 Dec 25 10:45	7° る 19'02	0°48'00
max. Earth dist.	8086 Jan 19 12:20	6° ≈ 56'58	1.43308 AU	desc. node	8086 Dec 31 23:49	18° る 46'10	
evening rise	8086 Jan 26 15:47	18° ≈ 19′26		max. Earth dist.	8087 Jan 01 22:58	20° る 24'14	1.41440 AU
	8086 Feb 03 06:57	0° ℋ		evening rise	8087 Jan 06 22:44	28° る 39'07	
	8086 Feb 25 03:37	0 ° Υ			8087 Jan 07 18:46	0° ≈	
evening max el	8086 Feb 27 01:25	2° Y 02′19	21°40'47		8087 Jan 27 21:25	0° ∀	
retrograde	8086 Mar 08 03:27	7° Y 25′04		evening max el	8087 Feb 09 17:40	15°) 43′35	22°59'32
asc. node	8086 Mar 08 06:41	7° Ƴ 24'58		retrograde	8087 Feb 19 23:10	21°) 47'25	
evening set	8086 Mar 12 13:02	5° Ƴ 38'59		asc. node	8087 Feb 23 03:47	20°) 56′29	
	8086 Mar 17 09:23	30° ₹ ₩		evening set	8087 Feb 24 20:07	19°) (46′27	
inferior conj	8086 Mar 17 20:32	29°) 21′16	2°42'05	inferior conj	8087 Mar 02 05:11	13°) €21'17	2°08'19
minimum elong	8086 Mar 17 18:21	29°) 28′52	2°41'33	minimum elong	8087 Mar 02 02:57	13°) 29′01	2°07'39
min. Earth dist.	8086 Mar 17 23:40	29° ∺ 10′22	0.68309 AU	min. Earth dist.	8087 Mar 01 20:23	13°) 51′44	0.68383 AU
morning rise	8086 Mar 22 23:31	23° ₩ 09'03		morning rise	8087 Mar 07 09:42	7°) 13'47	
direct	8086 Mar 27 23:46	20° ¥ 59'06		direct	8087 Mar 11 19:55	5° ¥ 25'58	
morning max el	8086 Apr 06 22:42	26° ¥ 52'16	22°49'12	morning max el	8087 Mar 20 13:10	10°) 29′04	21°23'47
3	8086 Apr 09 20:23	$0^{\circ}\Upsilon$		desc. node	8087 Mar 29 23:29	21°) (54'01	
desc. node	8086 Apr 12 02:32	2° Υ 40'04			8087 Apr 04 18:17	0°Υ	
acce. node	8086 May 01 12:52	0°8		morning set	8087 Apr 21 01:14	24° Υ 39'15	
morning set	8086 May 11 05:42	15° 8 26'59			8087 Apr 24 09:39	0° 8	
max. Earth dist.	8086 May 15 19:04	23° 8 06'42	1.40091 AU	max. Earth dist.	8087 Apr 27 20:24	5° 8 36'41	1.42211 AU
max. Darm UISt.		0°II	1.70071 AU	max. Earth tist.	000 / Apr 2/ 20.24	5 03041	1.72211 AU
	8086 May 19 18:04	υц		gunorior co	9097 May 05 06-26	100 20704	2000157
	909CM 22 12 14	(OTT 4011 C	1027150	superior conj	8087 May 05 06:36	18° 8 07'04	
superior conj	8086 May 23 13:14	6° Ⅱ 49'16		minimum elong	8087 May 05 11:41	18° ႘ 29'02	2 00 44
minimum elong	8086 May 23 18:53	7° Ⅱ 15'03	1 3/23	avanisi-	8087 May 12 00:27	0° Ⅱ ∞ποει52	
evening rise	8086 Jun 02 09:26	25° Ⅱ 16'49		evening rise	8087 May 16 12:07	8° Ⅱ 06'52	
asc. node	8086 Jun 04 05:41	28° Ⅱ 46'38		asc. node	8087 May 22 02:44	18° Ⅱ 12'07	
	8086 Jun 04 21:15	0°95	10007140		8087 May 29 12:13	30 00 0	10000102
evening max el	8086 Jun 18 11:17	21° © 07'13	18~27.49	evening max el	8087 Jun 01 21:36	3° © 59'25	18~08.02

retrograde	8087 Jun 08 16:34	7° © 26'14		evening max el	8088 May 15 10:48	17° Ⅱ 13'27	18007'31
evening set	8087 Jun 11 04:10	6°958'57		retrograde	8088 May 21 20:40	20° I I34'10	16 0/31
•	8087 Jun 11 04:10 8087 Jun 18 00:11	0 \$3837 2°\$06'51	2°09'05	-	8088 May 24 15:41	20 ∏ 34 10 19° ∏ 54'43	
inferior conj				evening set	,		2054124
minimum elong	8087 Jun 18 03:16	1°959'42	2°08'04	inferior conj	8088 May 30 21:22	14° ∏ 43'21	2°54'34
	8087 Jun 20 06:45	30°R∏		minimum elong	8088 May 30 23:51	14° Ⅲ 36'48	2°53'57
min. Earth dist.	8087 Jun 21 07:22	29° ∏ 04'42	0.60280 AU	min. Earth dist.	8088 Jun 02 18:01	11° ∏ 43'12	0.62505 AU
morning rise	8087 Jun 24 23:37	26° Ⅱ 15'58		morning rise	8088 Jun 06 06:17	8° Ⅱ 36′15	
desc. node	8087 Jun 25 22:55	25° Ⅱ 42'01		desc. node	8088 Jun 11 19:58	6° Ⅱ 11'10	
direct	8087 Jul 01 12:23	24° Ⅱ 12'05		direct	8088 Jun 13 00:45	6° Ⅱ 06'39	
	8087 Jul 13 13:24	0		morning max el	8088 Jun 27 02:39	14° Ⅱ 09'01	27°53'42
morning max el	8087 Jul 15 20:24	2° © 08'24	27°46'10		8088 Jul 09 21:26	0	
	8087 Aug 05 03:26	$0 {\circ} \Omega$			8088 Jul 27 16:21	$0 { m ^o} \Omega$	
morning set	8087 Aug 17 03:34	22° Ω 45'47		morning set	8088 Jul 31 03:23	6° Ω 51′06	
asc. node	8087 Aug 18 02:08	24° Ω 43'48		asc. node	8088 Aug 03 23:07	14° Ω 47'07	
	8087 Aug 20 13:23	0° m		max. Earth dist.	8088 Aug 05 13:16	18° Ω 10'55	1.32251 AU
max. Earth dist.	8087 Aug 23 07:20	6° Mp 00′10	1.31741 AU				
				superior conj	8088 Aug 07 17:40	22° Ω 54'42	0°37'40
superior conj	8087 Aug 24 08:39	8° m) 19'55	1°00'15	minimum elong	8088 Aug 07 16:02	22° Ω 45'47	0°37'14
minimum elong	8087 Aug 24 06:28	8° mp 07'53	0°59'49	Č	8088 Aug 10 23:25	0° m p	
evening rise	8087 Aug 31 02:42	23° m 08'21		evening rise	8088 Aug 14 14:15	7° mp 50'56	
e vennig 115e	8087 Sep 03 09:20	0∘ ʊ		evening rise	8088 Aug 26 01:04	0∘ ⊽	
	8087 Sep 21 09:10	0°M		desc. node	8088 Sep 07 18:55	0 — 17° Ω 02'27	
desc. node	8087 Sep 21 05:10 8087 Sep 21 21:48	0°M39'32		evening max el	8088 Sep 08 00:18	17° ⊆ 0227	24°01'59
	•	6°M46'54	25024121	-	-	24° £ 07'20	24 01 39
evening max el	8087 Sep 27 11:41		25°34'31	retrograde	8088 Sep 21 17:05		
retrograde	8087 Oct 11 09:55	13°M49'41		evening set	8088 Sep 26 11:06	23° Ω 17'47	0.56100.177
evening set	8087 Oct 17 11:10	12°M24'31		min. Earth dist.	8088 Oct 02 10:58	20° Ω 20'54	0.56108 AU
min. Earth dist.	8087 Oct 21 23:55	9°M47'10	0.57859 AU	inferior conj	8088 Oct 04 18:11	18° ≙ 56'27	
inferior conj	8087 Oct 25 00:57	7° M 40'03		minimum elong	8088 Oct 04 18:00	18° ≏ 56'44	5°33'59
minimum elong	8087 Oct 25 06:35		5°11'59	morning rise	8088 Oct 13 03:02	14° ≏ 58'31	
morning rise	8087 Nov 02 04:19	3°M22'06		direct	8088 Oct 15 20:38	14° ≏ 39'14	
direct	8087 Nov 04 13:08	3°M04'49		morning max el	8088 Oct 25 22:24	19° ≏ 23'43	19°53'46
morning max el	8087 Nov 13 05:10	7° ™ 14'30	18°50'54	asc. node	8088 Oct 30 22:43	25° ≏ 14'21	
asc. node	8087 Nov 14 01:43	8°M06'05			8088 Nov 03 02:47	0°M₊	
	8087 Nov 27 19:08	0° ∡ ¹		morning set	8088 Nov 12 19:45	18° ™ 09'25	
mamina aat	000731 30 1534	20.725145				00.7	
morning set	8087 Nov 29 15:24	3° ∡ ³35'45			8088 Nov 18 15:22	0° ∡ ¹	
morning set		3° X '35'45			8088 Nov 18 15:22	0° × '	
superior conj	8087 Nov 29 13:24 8087 Dec 08 03:34	20° ₹ 09'14	1°14'04	superior conj	8088 Nov 18 15:22 8088 Nov 20 14:15		1°30'54
			1°14'04 1°13'50	superior conj minimum elong			1°30'54 1°30'50
superior conj	8087 Dec 08 03:34	20° 尽 09'14			8088 Nov 20 14:15	3° ⊀ ³55'13	
superior conj	8087 Dec 08 03:34 8087 Dec 08 06:51	20° 尽 09'14 20° 尽 24'51		minimum elong	8088 Nov 20 14:15 8088 Nov 20 16:34	3° х 55′13 4° х 06′45	1°30'50
superior conj minimum elong	8087 Dec 08 03:34 8087 Dec 08 06:51 8087 Dec 13 11:05	20° メ 09'14 20° メ 24'51 0°る	1°13'50	minimum elong max. Earth dist.	8088 Nov 20 14:15 8088 Nov 20 16:34 8088 Nov 26 11:15	3° ₹ 55'13 4° ₹ 06'45 15° ₹ 18'13	1°30'50
superior conj minimum elong max. Earth dist.	8087 Dec 08 03:34 8087 Dec 08 06:51 8087 Dec 13 11:05 8087 Dec 15 05:16	20° 🗷 09'14 20° 🗷 24'51 0° ठ 3° ठ08'34	1°13'50	minimum elong max. Earth dist. evening rise	8088 Nov 20 14:15 8088 Nov 20 16:34 8088 Nov 26 11:15 8088 Nov 30 05:32	3° ₹ 55'13 4° ₹ 06'45 15° ₹ 18'13 22° ₹ 12'41	1°30'50
superior conj minimum elong max. Earth dist. desc. node	8087 Dec 08 03:34 8087 Dec 08 06:51 8087 Dec 13 11:05 8087 Dec 15 05:16 8087 Dec 18 20:49	20° 🗷 09'14 20° 🗷 24'51 0° る 3° る08'34 9° る29'17	1°13'50	minimum elong max. Earth dist. evening rise	8088 Nov 20 14:15 8088 Nov 20 16:34 8088 Nov 26 11:15 8088 Nov 30 05:32 8088 Dec 04 17:50	3° ₹55'13 4° ₹06'45 15° ₹18'13 22° ₹12'41 0° ₹05'54	1°30'50
superior conj minimum elong max. Earth dist. desc. node	8087 Dec 08 03:34 8087 Dec 08 06:51 8087 Dec 13 11:05 8087 Dec 15 05:16 8087 Dec 18 20:49 8087 Dec 19 03:34	20° \$709'14 20° \$724'51 0° 당 3° 당08'34 9° 당29'17 9° 당58'04	1°13'50 1.39310 AU	minimum elong max. Earth dist. evening rise	8088 Nov 20 14:15 8088 Nov 20 16:34 8088 Nov 26 11:15 8088 Nov 30 05:32 8088 Dec 04 17:50 8088 Dec 04 16:27	3° \$755'13 4° \$706'45 15° \$718'13 22° \$712'41 0° 당05'54 0° 당	1°30'50 1.37172 AU
superior conj minimum elong max. Earth dist. desc. node evening rise	8087 Dec 08 03:34 8087 Dec 08 06:51 8087 Dec 13 11:05 8087 Dec 15 05:16 8087 Dec 18 20:49 8087 Dec 19 03:34 8087 Dec 31 15:55	20° \$\frac{1}{2}09'14 20° \$\frac{1}{2}24'51 0° පි 3° පි08'34 9° පි29'17 9° පි58'04 0° ක	1°13'50 1.39310 AU	minimum elong max. Earth dist. evening rise desc. node	8088 Nov 20 14:15 8088 Nov 20 16:34 8088 Nov 26 11:15 8088 Nov 30 05:32 8088 Dec 04 17:50 8088 Dec 04 16:27 8088 Dec 24 12:21	3°₹55'13 4°₹06'45 15°₹18'13 22°₹12'41 0°♂05'54 0°♂	1°30'50 1.37172 AU
superior conj minimum elong max. Earth dist. desc. node evening rise evening max el	8087 Dec 08 03:34 8087 Dec 08 06:51 8087 Dec 13 11:05 8087 Dec 15 05:16 8087 Dec 18 20:49 8087 Dec 19 03:34 8087 Dec 31 15:55 8088 Jan 23 07:30 8088 Jan 23 20:08	20° 🗷 09'14 20° 🗷 24'51 0° उ 3° उ08'34 9° उ29'17 9° उ58'04 0° ≈ 29° ≈ 29'07	1°13'50 1.39310 AU	minimum elong max. Earth dist. evening rise desc. node	8088 Nov 20 14:15 8088 Nov 20 16:34 8088 Nov 26 11:15 8088 Nov 30 05:32 8088 Dec 04 17:50 8088 Dec 04 16:27 8088 Dec 24 12:21 8089 Jan 04 20:42 8089 Jan 17 03:01	3° ₹55'13 4° ₹06'45 15° ₹18'13 22° ₹12'41 0° ₹05'54 0° ₹ 0° ≈ 13° ≈16'52	1°30'50 1.37172 AU
superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	8087 Dec 08 03:34 8087 Dec 08 06:51 8087 Dec 13 11:05 8087 Dec 15 05:16 8087 Dec 18 20:49 8087 Dec 19 03:34 8087 Dec 31 15:55 8088 Jan 23 07:30 8088 Jan 23 20:08 8088 Feb 03 15:24	20° 🗷 09'14 20° 🗷 24'51 0° उ 3° उ08'34 9° उ29'17 9° उ58'04 0° ≈ 29° ≈ 29'07 0° 升 6° 升 07'35	1°13'50 1.39310 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	8088 Nov 20 14:15 8088 Nov 20 16:34 8088 Nov 26 11:15 8088 Nov 30 05:32 8088 Dec 04 17:50 8088 Dec 04 16:27 8088 Dec 24 12:21 8089 Jan 04 20:42 8089 Jan 17 03:01 8089 Jan 23 01:07	3° ₹55'13 4° ₹06'45 15° ₹18'13 22° ₹12'41 0° ₹05'54 0° ₹ 0° ₹ 13° ≈16'52 20° ≈19'30 17° ≈53'05	1°30'50 1.37172 AU
superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set	8087 Dec 08 03:34 8087 Dec 08 06:51 8087 Dec 13 11:05 8087 Dec 15 05:16 8087 Dec 18 20:49 8087 Dec 19 03:34 8087 Dec 31 15:55 8088 Jan 23 07:30 8088 Jan 23 20:08 8088 Feb 03 15:24 8088 Feb 09 00:42	20° 🗷 09'14 20° 🗷 24'51 0° उ 3° उ08'34 9° उ29'17 9° उ58'04 0° ≈ 29° ≈ 29'07 0° 升 6° 升 07'35 3° 升 52'50	1°13'50 1.39310 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node	8088 Nov 20 14:15 8088 Nov 20 16:34 8088 Nov 26 11:15 8088 Nov 30 05:32 8088 Dec 04 17:50 8088 Dec 04 16:27 8088 Dec 24 12:21 8089 Jan 04 20:42 8089 Jan 17 03:01 8089 Jan 23 01:07 8089 Jan 26 21:58	3° ₹55'13 4° ₹06'45 15° ₹18'13 22° ₹12'41 0° ₹05'54 0° ₹ 0° ₹ 13° ≈16'52 20° ≈19'30 17° ≈53'05 13° ≈44'50	1°30'50 1.37172 AU 25°33'30
superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	8087 Dec 08 03:34 8087 Dec 08 06:51 8087 Dec 13 11:05 8087 Dec 15 05:16 8087 Dec 18 20:49 8087 Dec 19 03:34 8087 Dec 31 15:55 8088 Jan 23 07:30 8088 Jan 23 20:08 8088 Feb 03 15:24 8088 Feb 09 00:42 8088 Feb 10 00:53	20° ₹09'14 20° ₹24'51 0° ₹ 3° ₹08'34 9° ₹29'17 9° ₹58'04 0° ≈ 29° ≈29'07 0° ¥ 6° ¥07'35 3° ¥52'50 2° ¥56'48	1°13'50 1.39310 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist.	8088 Nov 20 14:15 8088 Nov 20 16:34 8088 Nov 26 11:15 8088 Nov 30 05:32 8088 Dec 04 17:50 8088 Dec 04 16:27 8088 Dec 24 12:21 8089 Jan 04 20:42 8089 Jan 17 03:01 8089 Jan 23 01:07 8089 Jan 26 21:58 8089 Jan 27 09:56	3° ₹55'13 4° ₹06'45 15° ₹18'13 22° ₹12'41 0° ₹05'54 0° ₹ 0° ≈ 13° ≈16'52 20° ≈19'30 17° ≈53'05 13° ≈44'50 13° ≈07'14	1°30'50 1.37172 AU 25°33'30 0.67357 AU
superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node	8087 Dec 08 03:34 8087 Dec 08 06:51 8087 Dec 13 11:05 8087 Dec 15 05:16 8087 Dec 18 20:49 8087 Dec 19 03:34 8087 Dec 31 15:55 8088 Jan 23 07:30 8088 Jan 23 20:08 8088 Feb 03 15:24 8088 Feb 09 00:42 8088 Feb 10 00:53 8088 Feb 12 13:57	20° ₹09'14 20° ₹24'51 0° ♂ 3° ♂08'34 9° ♂29'17 9° ♂58'04 0° ≈ 29° ≈29'07 0° 升 6° 升07'35 3° 升52'50 2° 升56'48 30° R≈	1°13'50 1.39310 AU 24°19'22	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj	8088 Nov 20 14:15 8088 Nov 20 16:34 8088 Nov 26 11:15 8088 Nov 30 05:32 8088 Dec 04 17:50 8088 Dec 04 16:27 8088 Dec 24 12:21 8089 Jan 04 20:42 8089 Jan 17 03:01 8089 Jan 23 01:07 8089 Jan 26 21:58 8089 Jan 27 09:56 8089 Jan 28 17:29	3° ₹55'13 4° ₹06'45 15° ₹18'13 22° ₹12'41 0° ₹05'54 0° ₹ 13° ≈16'52 20° ≈19'30 17° ≈53'05 13° ≈44'50 13° ≈07'14 11° ≈26'15	1°30'50 1.37172 AU 25°33'30 0.67357 AU 0°35'56
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1	morning max el	8089 Jun 09 12:18		27°25'21	minimum elong	8090 Apr 28 03:44	_	3°23'55
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Max. Earth dist Max		8089 Jul 03 12:41	0		morning rise	8090 May 03 15:43	4° 8 53'55	
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	8091 Mar 06 13:43	0°Υ		behind sun begin	8092 Jan 23 10:19	5° ≈ 14'15	
greatest brilliancy	8091 Mar 14 20:52	12° Υ 28'29	-0.6m	behind sun end	8092 Jan 24 00:54	6°≈14'46	
evening max el	8091 Mar 26 14:58	27° Υ 52'42	19°52'54	max. Earth dist.	8092 Jan 30 04:21	16°≈14'52	1.44162 AU
e vennig man er	8091 Mar 28 22:56	0°8	1, 020.	evening rise	8092 Feb 07 23:59	0°) €05'22	102110
asc. node	8091 Mar 29 15:02	0° 8 30'14			8092 Feb 07 22:36	0° ∀	
retrograde	8091 Apr 03 03:42	2° 8 13'23			8092 Feb 28 06:32	0°Υ	
evening set	8091 Apr 06 21:41	0° 8 51'22		evening max el	8092 Mar 08 14:47	11° Y 31'22	20°58'28
C	8091 Apr 07 22:35	30° ₹ Υ		asc. node	8092 Mar 15 12:08	16° Ƴ 17'41	
inferior conj	8091 Apr 12 06:27	24° Y 51'32	3°16'22	retrograde	8092 Mar 17 02:09	16° Ƴ 30'34	
minimum elong	8091 Apr 12 05:13	24° Y 55'39	3°16'10	evening set	8092 Mar 21 05:37	14° Ƴ 53′28	
min. Earth dist.	8091 Apr 13 06:23	23° Y 31'11	0.67319 AU	inferior conj	8092 Mar 26 13:00		2°57'27
morning rise	8091 Apr 17 12:29	18° Ƴ 34'15		minimum elong	8092 Mar 26 11:03	8° Y 48'23	2°57'03
direct	8091 Apr 23 10:09	15° Y 56′09		min. Earth dist.	8092 Mar 26 23:29	8° Ƴ 05′24	0.68072 AU
desc. node	8091 May 03 10:57	21° Y 15'11		morning rise	8092 Mar 31 16:16	2° Y 27'01	
morning max el	8091 May 05 08:25	23° ℃ 05'11	25°09'10	direct	8092 Apr 06 00:38	0° Y 05′06	
	8091 May 11 11:00	0°8		morning max el	8092 Apr 16 17:28		23°40'42
	8091 Jun 01 04:37	$\Pi^{\circ}0$		desc. node	8092 Apr 19 07:55	9° Y 15′23	
morning set	8091 Jun 10 10:04	15° ∏ 45'11			8092 May 04 23:25	0°8	
max. Earth dist.	8091 Jun 14 01:22	22° Ⅱ 23'29	1.36606 AU	morning set	8092 May 22 00:05	26° 8 56'02	
	8091 Jun 18 01:35	0ං ව			8092 May 23 19:01	0°П	
	0001 1 00 00 55	40.000.000	0050115	max. Earth dist.	8092 May 25 21:09	3° Ⅱ 38'37	1.38796 AU
superior conj	8091 Jun 20 08:55	4°930'29			0000 1 00 00 15	170 T 12124	1001100
minimum elong	8091 Jun 20 11:58	4°945'31	0°49'51	superior conj	8092 Jun 02 08:15	17° Ⅱ 13'34	
asc. node	8091 Jun 25 14:06	14°958'25		minimum elong	8092 Jun 02 13:12	17° Ⅱ 36'51 0° ©	1°20′52
evening rise	8091 Jun 28 15:18 8091 Jul 03 02:38	21° © 09'28 0° Ω		aca mada	8092 Jun 08 23:55 8092 Jun 11 11:08	0°39 4°3948'48	
evening max el	8091 Jul 03 02:38 8091 Jul 15 20:28	19° Ω 17'58	19°40'04	asc. node evening rise	8092 Jun 11 11:08 8092 Jun 11 12:41	4°956'25	
retrograde	8091 Jul 25 17:41	24°Ω10'25	19 40 04	evening rise	8092 Jun 26 13:31	4 9 3023	
evening set	8091 Jul 27 14:07	24°Ω00'54		evening max el	8092 Jun 27 19:00	1° Ω 17'32	18°48'17
desc. node	8091 Jul 30 10:10	23°Ω12'29		retrograde	8092 Jul 06 02:41	5° Ω 24'39	10 40 17
inferior conj	8091 Aug 05 10:19	19° Ω 57'42	-1°50'01	evening set	8092 Jul 08 02:51	5° Ω 11'11	
minimum elong	8091 Aug 05 05:17	20°Ω05'34		inferior conj	8092 Jul 16 04:29		0°02'04
min. Earth dist.	8091 Aug 07 16:27	18° Ω 33'08	0.55412 AU	minimum elong	8092 Jul 16 04:33	0°Ω51'07	
morning rise	8091 Aug 13 18:12	15° Ω 30'52		transit middle	8092 Jul 16 04:33	0° Ω 51'07	0°01'54
direct	8091 Aug 18 10:38	14° £ 42′03		transit begin	8092 Jul 16 00:53	0° Ω 57'47	
morning max el	8091 Sep 01 08:45	21° Ω 38'17	24°44'52	transit end	8092 Jul 16 08:14	0° Ω 44'26	
	8091 Sep 08 16:13	0° m		desc. node	8092 Jul 16 07:13	0° Ω 46′16	
asc. node	8091 Sep 21 13:38	21° m 10'44			8092 Jul 17 08:34	30° ₹ 5	
	8091 Sep 25 22:20	0∘ ত		min. Earth dist.	8092 Jul 19 08:25	28° © 34'20	0.56936 AU
morning set	8091 Sep 27 03:21	2° ഫ 33′20		morning rise	8092 Jul 24 02:50	25° 5 47'38	
				direct	8092 Jul 29 15:54	24° © 33'05	
superior conj	8091 Oct 04 00:29	17° ≏ 32'30			8092 Aug 10 18:05	$0 {\circ} \Omega$	
minimum elong	8091 Oct 03 23:09	17° ≏ 25'11	1°36'43	morning max el	8092 Aug 12 23:14	2° Ω 00′23	26°18'20
max. Earth dist.	8091 Oct 05 18:27	21° ≙ 21'09	1.32557 AU		8092 Sep 01 20:27	0° m	
	8091 Oct 09 19:52	0° M		asc. node	8092 Sep 07 10:37	10° m 45'31	
evening rise	8091 Oct 11 06:38	2°M59'27		morning set	8092 Sep 10 14:05	17° m 17'46	
desc. node	8091 Oct 26 09:00	0° ₹ 24'42			8092 Sep 16 09:47	0∘ ⊽	
avanina ma1	8091 Oct 26 02:47 8091 Nov 13 09:42	0° ҂ 23° ҂ 38'23	27020102	gunorier ee	8092 Sep 17 11:46	20 0 22155	1°26'35
evening max el			21°29'03	superior conj	*		
retrograde	8091 Nov 22 13:37 8091 Nov 27 03:27	0°궁 0°궁56'13		minimum elong max. Earth dist.	8092 Sep 17 09:45 8092 Sep 18 02:30	2° £ 12'47 3° £ 45'27	1°26'22 1.31884 AU
renograde	8091 Nov 27 03:27 8091 Dec 01 11:50	0 03013 30°R <i>≯</i> 7		evening rise	8092 Sep 18 02:30 8092 Sep 24 09:51	17° £ 25'31	1.31004 AU
evening set	8091 Dec 01 11:30 8091 Dec 04 05:25	28° ₹ 26'28		evening rise	8092 Sep 30 16:39	0° ™	
min. Earth dist.	8091 Dec 07 03:23 8091 Dec 07 22:17	25° × 19'40	0.63099 AU	desc. node	8092 Oct 12 06:04	19°M34'54	
inferior conj	8091 Dec 10 16:11	22° × ¹ 37'48		dese. Hode	8092 Oct 12 00:04 8092 Oct 19 23:35	0° ⊼ 7	
minimum elong	8091 Dec 10 10:11	22° × ³ 7 40		evening max el	8092 Oct 25 16:34	6° ⋌ ¹08'14	27°10'36
morning rise	8091 Dec 17 14:39	17° × 124'47	- · 	retrograde	8092 Nov 08 13:41	13° √ 19'42	
asc. node	8091 Dec 18 13:07	17° ∡ *08'19		evening set	8092 Nov 15 14:26	11° √ 07'14	
direct	8091 Dec 19 22:54	16° ₹ 58'52		min. Earth dist.	8092 Nov 19 07:20	8° ≯ 23'07	0.61115 AU
morning max el	8091 Dec 26 14:07	20° х 23′51	17°47'58	inferior conj	8092 Nov 22 09:35	5° ∡ ′42′08	
-	8092 Jan 02 18:54	0°ರ		minimum elong	8092 Nov 22 16:21	5° ∡ °27'23	
morning set	8092 Jan 11 18:36	15° る 17'20		morning rise	8092 Nov 29 20:34	0° ∡ ¹48'26	
	8092 Jan 20 07:19	0° ≈		direct	8092 Dec 02 01:51	0° ≯ 28'16	
desc. node	8092 Jan 22 08:13	3° ≈ 25'30		asc. node	8092 Dec 04 10:08	0° ≯ 51'41	
				morning max el	8092 Dec 09 05:17	4° ҂ 03'27	17°56'27
superior conj	8092 Jan 23 18:41	5° ≈ 49'01		morning set	8092 Dec 24 21:19	28° ∡ ′41'54	
minimum elong	8092 Jan 23 17:37	5° ≈ 44'32	0°10'11		8092 Dec 25 14:22	0°ಕ	

superior conj	8093 Jan 04 05:23	17° る 18'38	0°29'15	minimum elong	8093 Dec 17 18:09	0° ろ 08'36	1°00'03
minimum elong	8093 Jan 04 07:46	17° る 29'01	0°29'02		8093 Dec 17 16:17	0°る	1 00 05
desc. node	8093 Jan 08 05:12	24° ට 10'37		max. Earth dist.	8093 Dec 25 02:55	· <u> </u>	1.40559 AU
max. Earth dist.	8093 Jan 11 17:52	0°≈04'28	1.42562 AU	desc. node	8093 Dec 26 02:12	14° る 55'20	
	8093 Jan 11 16:47	0° ≈		evening rise	8093 Dec 29 12:40	20° る 41'30	
evening rise	8093 Jan 17 20:37	9° ≈ 56'56		C	8094 Jan 04 07:17	0° ≈	
	8093 Jan 31 01:27	0° ∀			8094 Jan 25 06:08	0° ∀	
evening max el	8093 Feb 19 09:36	25°) 12′05	22°13'50	evening max el	8094 Feb 02 00:41	8°) 55′28	23°33'47
	8093 Feb 25 13:18	$0^{\circ}\mathbf{\Upsilon}$		retrograde	8094 Feb 12 17:26	15°) 14′23	
retrograde	8093 Feb 28 23:12	0° Ƴ 52'19		asc. node	8094 Feb 17 06:19	13° ¥ 34′01	
asc. node	8093 Mar 02 09:13	0° Ƴ 42'06		evening set	8094 Feb 17 19:40	13°) €07'16	
	8093 Mar 04 03:01	30° ₹ ₩		min. Earth dist.	8094 Feb 22 16:11	7°) €27'19	0.68298 AU
evening set	8093 Mar 05 13:27	29° ∺ 00'01		inferior conj	8094 Feb 23 05:53	6°) 40′24	1°51'24
inferior conj	8093 Mar 10 21:27	22°) 38′56	2°28'49	minimum elong	8094 Feb 23 03:46	6°) 47'40	1°50'45
minimum elong	8093 Mar 10 19:11	22°) 46′48	2°28'13	morning rise	8094 Feb 28 11:50	0°) 35′35	
min. Earth dist.	8093 Mar 10 19:30	22°) 45'45	0.68394 AU		8094 Mar 01 07:51	30°R≈	
morning rise	8093 Mar 16 00:46	16° ∺ 28'32		direct	8094 Mar 04 16:22	28°≈57'14	
direct	8093 Mar 20 19:06	14° ₩ 27'35			8094 Mar 08 07:03	0° ∀	
morning max el	8093 Mar 30 04:48	19° ¥ 58'39	22°11'50	morning max el	8094 Mar 12 22:07	3°) (40'23	20°50'30
desc. node	8093 Apr 06 04:53	28°) €06'41		desc. node	8094 Mar 24 01:50	17°) (34'57	
	8093 Apr 07 15:46	0° Υ			8094 Apr 01 15:10	0°Υ 15° Ω 26110	
	8093 Apr 28 04:19	0° と 6° と 51'17		morning set	8094 Apr 11 20:38 8094 Apr 20 00:13	15° Υ 36'19 28° Υ 33'56	1 42010 ATT
morning set max. Earth dist.	8093 May 02 11:25 8093 May 07 19:13	15° 8 38'15	1.41028 AU	max. Earth dist.	1	28~1/33/36 0° と	1.43010 AU
max. Earm dist.	8093 May 07 19.13	13 03813	1.41028 AU		8094 Apr 20 21:22	0.0	
superior conj	8093 May 15 13:59	29° 8 06'00	-1°48'50	superior conj	8094 Apr 26 21:23	9° 8 57'14	-2°07'21
minimum elong	8093 May 15 19:45	29° 8 31'42	1°48'23	minimum elong	8094 Apr 27 01:10	10° 8 13'12	2°07'18
S	8093 May 16 02:05	0° I I		Č	8094 May 08 09:59	0°II	
evening rise	8093 May 25 23:24	18° Ⅱ 10′13		evening rise	8094 May 08 19:11	0° Ⅱ 40'55	
asc. node	8093 May 29 08:11	24° Ⅱ 25'03		asc. node	8094 May 16 05:15	13° ∐ 41'47	
	8093 Jun 01 10:31	0ංම		evening max el	8094 May 25 14:08	26° Ⅱ 56′26	18°05'31
evening max el	8093 Jun 11 02:10	13° © 53'35	18°17'01		8094 May 30 04:20	0 \circ \odot	
retrograde	8093 Jun 18 07:00	17° © 30'25		retrograde	8094 Jun 01 03:55	0°9519'02	
evening set	8093 Jun 20 14:25	17° © 08'56			8094 Jun 03 03:58	30° Ŗ Ⅱ	
inferior conj	8093 Jun 27 20:25	12° © 28'17	1°30'53	evening set	8094 Jun 03 18:45	29° Ⅱ 46'43	
minimum elong	8093 Jun 27 23:08	12° © 22'30	1°29'51	inferior conj	8094 Jun 10 08:07		2°31'22
min. Earth dist.	8093 Jul 01 05:58	9° 5 36'15	0.58994 AU	minimum elong	8094 Jun 10 11:06	24° Ⅲ 38'38	2°30'31
desc. node	8093 Jul 03 04:18	8° 5 08'32		min. Earth dist.	8094 Jun 13 11:25	21° Ⅱ 42'08	0.61235 AU
morning rise	8093 Jul 05 04:42	6°€52'03		morning rise	8094 Jun 17 01:10	18° Ⅱ 46'57	
direct	8093 Jul 11 10:46	5° © 06'16		desc. node	8094 Jun 20 01:20	17° Ⅱ 12'00	
morning max el	8093 Jul 25 19:48	12° © 53'43	27°24'28	direct	8094 Jun 23 17:11	16° Ⅲ 31′26	
	8093 Aug 08 08:37	0 ° Ω		morning max el	8094 Jul 07 23:14	24° ∏ 30′59	27°54'11
asc. node	8093 Aug 25 07:35	0° m/35'28			8094 Jul 12 22:44	0°©	
. ,	8093 Aug 25 00:46	0° M)		. ,	8094 Aug 01 17:26	0°Ω	
morning set	8093 Aug 25 22:06	1° m 51'28		morning set	8094 Aug 10 01:34	16° Ω 09'27	
	0002 0 01 22.22	170 m 12110	1011116	asc. node	8094 Aug 12 04:35	20° Ω 35'37	1 2100C AII
superior conj minimum elong	8093 Sep 01 23:33 8093 Sep 01 21:18	17° Mp 13'10 17° Mp 00'39	1°11'16 1°10'53	max. Earth dist.	8094 Aug 15 21:46 8094 Aug 16 13:10	28 8 6 33 39	1.31906 AU
max. Earth dist.	8093 Sep 01 21:18 8093 Sep 01 12:53	16° Mp 14'00	1.31667 AU		8094 Aug 10 13.10	עוו ט	
max. Latur dist.	8093 Sep 07 12:59	0° ⊽	1.51007 AC	superior conj	8094 Aug 17 10:07	1° m 55'04	0°51'13
evening rise	8093 Sep 07 10:55 8093 Sep 08 17:55	ა _ 2° ჲ 02'55		minimum elong	8094 Aug 17 10:07	1° mg 43'59	0°50'46
e vennig rise	8093 Sep 23 16:57	0°ML		evening rise	8094 Aug 24 04:47	16° mp 45'35	0 20 10
desc. node	8093 Sep 29 03:11	7°ML56'21		evening rise	8094 Aug 30 16:30	0∘ ⊽	
evening max el	8093 Oct 07 16:30	17° M 49'14	26°18'17	desc. node	8094 Sep 16 00:16	25° ♀ 09'51	
retrograde	8093 Oct 21 14:36	24°M54'24		evening max el	8094 Sep 19 08:16	28° ≏ 39'41	24°56'56
evening set	8093 Oct 28 04:17	23°M09'33		5	8094 Sep 20 19:26	0°M	-
min. Earth dist.	8093 Nov 01 05:43	20°M35'04	0.59031 AU	retrograde	8094 Oct 03 04:46	5° ™ 38'43	
inferior conj	8093 Nov 04 10:14	18° M .10'50	-4°45'25	evening set	8094 Oct 08 18:26	4°M28'41	
minimum elong	8093 Nov 04 17:15	17°M57'33	4°43'46	min. Earth dist.	8094 Oct 13 19:35	1°M45'29	0.57069 AU
morning rise	8093 Nov 12 08:29	13°M39'25			8094 Oct 16 11:57	30° ₹ Ω	
direct	8093 Nov 14 14:48	13°ML21'48		inferior conj	8094 Oct 16 15:08	29° ≏ 54'44	-5°26'46
asc. node	8093 Nov 21 07:10	16°M05'26		minimum elong	8094 Oct 16 18:48	29° ≏ 48'43	5°26'23
morning max el	8093 Nov 22 14:42	17° M 15'49	18°24'51	morning rise	8094 Oct 24 21:25	25° ≏ 46'16	
	8093 Dec 01 16:37	0° ⊼		direct	8094 Oct 27 09:31	25° ≏ 28'25	
morning set	8093 Dec 08 13:06	12° ∡ ′42′19		morning max el	8094 Nov 05 14:47	29° Ω 51'05	19°14'52
			4000	_	8094 Nov 05 18:30	0°M	
superior conj	8093 Dec 17 14:43	29° ₹ 52'45	1~00'22	asc. node	8094 Nov 08 04:10	2°M36'25	

morning set	8094 Nov 22 13:46 8094 Nov 24 00:32	27° ™ .06'33 0° ҂ ¹		morning set	8095 Oct 31 21:10 8095 Nov 06 20:16	0° ጤ 11° ጤ 45'56	
		_					
superior conj	8094 Nov 30 17:34	13° ∡ 16'57	1°22'15	superior conj	8095 Nov 14 09:11	27°M17'28	1°35'31
minimum elong	8094 Nov 30 20:32	13° 🗷 31'16	1°22'05	minimum elong	8095 Nov 14 10:57	27°M26'25 0°⊀	1°35'32
max. Earth dist.	8094 Dec 07 08:40 8094 Dec 09 17:48	25°♂44'10 0°る	1.38391 AU	max. Earth dist.	8095 Nov 15 17:25 8095 Nov 19 15:40	0° x ¹ 7° x ¹43'20	1.36314 AU
evening rise	8094 Dec 09 17:48 8094 Dec 11 02:45	0 0 2° る 24'34		evening rise	8095 Nov 23 12:46	15° × 00'53	1.30314 AU
desc. node	8094 Dec 12 23:13	5° る 36'12		desc. node	8095 Nov 29 20:15	26°×709'04	
dese. node	8094 Dec 28 11:45	0°≈		dese. node	8095 Dec 02 03:33	0°ප	
evening max el	8095 Jan 15 13:54	22° ≈ 41'35	24°51'58		8095 Dec 23 03:44	0° ≈	
retrograde	8095 Jan 27 07:48	29° ≈ 31'50		evening max el	8095 Dec 29 02:55	6° ≈ 28'35	26°01'27
evening set	8095 Feb 01 22:40	27° ≈ 11'28		retrograde	8096 Jan 10 17:26	13° ≈ 39'05	
asc. node	8095 Feb 04 03:24	24° ≈ 59′27		evening set	8096 Jan 16 20:50	11° ≈ 08′33	
min. Earth dist.	8095 Feb 06 11:20	22° ≈ 05'55	0.67809 AU	min. Earth dist.	8096 Jan 21 02:46	6° ≈ 37'31	0.66940 AU
inferior conj	8095 Feb 07 12:27	20° ≈ 43′02	1°05'44	asc. node	8096 Jan 22 00:26	5° ≈ 30'11	
minimum elong	8095 Feb 07 10:58	20° ≈ 47'57	1°05'16	inferior conj	8096 Jan 22 15:17	4° ≈ 43'43	0°12'23
morning rise	8095 Feb 12 23:30	14° ≈ 45′16		minimum elong	8096 Jan 22 14:58	4° ≈ 44'44	0°12'22
direct	8095 Feb 16 15:12	13° ≈ 28′35		transit middle	8096 Jan 22 14:58	4° ≈ 44'44	0°12'22
morning max el	8095 Feb 23 23:16	17°≈34'20	19°41'42	transit begin	8096 Jan 22 13:09	4°≈50'25	
	8095 Mar 05 19:44	0° ∀		transit end	8096 Jan 22 16:47	4°≈39'03	
greatest brilliancy	8095 Mar 08 17:25	4°) 12′29	-0.6m		8096 Jan 26 22:09	30°Rる	
desc. node	8095 Mar 10 22:46	7°) (30'01		morning rise	8096 Jan 28 09:44	28°る54'52	
morning set	8095 Mar 21 17:54	23° ¥ 54'45 0° Ƴ		direct	8096 Jan 31 14:06	27° る 57'05	
Earth diet	8095 Mar 25 16:21	12° Υ 15'32	1.44506 AU		8096 Feb 05 11:59	0° ≈ 1° ≈ 37'42	18°48'15
max. Earth dist.	8095 Apr 02 11:55	12 1332	1.44300 AU	morning max el desc. node	8096 Feb 07 07:57 8096 Feb 25 19:43	1 ≈3742 27°≈44'59	16 46 13
superior conj	8095 Apr 07 03:50	19° Ƴ 42'53	-2°10'53	desc. Hode	8096 Feb 27 06:18	27 ≈ 44 39	
minimum elong	8095 Apr 07 03:30 8095 Apr 07 01:43	19° Υ 34'23		morning set	8096 Feb 29 03:48	2°) 57'54	
minimum ciong	8095 Apr 13 11:03	0° 8	2 10 33	max. Earth dist.	8096 Mar 15 04:42		1.45356 AU
evening rise	8095 Apr 20 19:18	12° 8 17'43		max. Earth dist.	0000 11111 10 01.12	20 7(2) 07	1.13330710
	8095 May 01 10:50	0°II		superior conj	8096 Mar 16 14:09	28°) (40'23	-1°54'37
asc. node	8095 May 03 02:20	2° ∏ 31′29		minimum elong	8096 Mar 16 05:42	28°) €07'10	
evening max el	8095 May 09 03:25	10° Ⅱ 16′21	18°12'58	Č	8096 Mar 17 10:26	$0^{\circ}\mathbf{Y}$	
retrograde	8095 May 15 12:41	13° Ⅱ 39'17		evening rise	8096 Mar 31 20:15	22° Y 56'03	
evening set	8095 May 18 10:38	12° Ⅱ 54'19			8096 Apr 05 05:17	0°8	
inferior conj	8095 May 24 11:26	7° Ⅱ 35′05	3°06'52	greatest brilliancy	8096 Apr 07 04:56	3° 8 11'54	-0.9m
minimum elong	8095 May 24 13:25	7° Ⅱ 29'36	3°06'27	asc. node	8096 Apr 18 23:23	20° 8 45'53	
min. Earth dist.	8095 May 27 02:06	4° Ⅱ 42'11	0.63381 AU	evening max el	8096 Apr 21 15:18	23° 8 47'04	18°38'35
morning rise	8095 May 30 14:49	1° Ⅱ 23′26		retrograde	8096 Apr 28 05:01	27° 8 23'15	
	8095 Jun 01 17:28	30° ₹8		evening set	8096 May 01 10:17	26° 8 24'25	
direct	8095 Jun 06 09:08	28° 8 46'14		inferior conj	8096 May 07 02:22		3°22'23
desc. node	8095 Jun 06 22:22	28° 8 47'12		minimum elong	8096 May 07 02:59	20° 8 46'26	3°22'14
	8095 Jun 11 09:07	0° П	27045151	min. Earth dist.	8096 May 09 01:55	18° 8 23'52	0.65240 AU
morning max el	8095 Jun 20 07:28	6°Ⅱ48'57 0° ©	2/°45′51	morning rise	8096 May 12 18:57	14° 8 31'21	
morning set	8095 Jul 08 00:16 8095 Jul 24 22:11	0°Ω04'28		direct desc. node	8096 May 19 08:57 8096 May 23 19:23	11° 8 44'31 12° 8 48'02	
morning set	8095 Jul 24 22:11 8095 Jul 24 21:18	0°Ω		morning max el	8096 Jun 01 17:41	19° 8 37'51	27°03'45
max. Earth dist.	8095 Jul 30 00:59	10° Ω 37'41	1.32609 AU	morning max ci	8096 Jun 10 13:41	0°Ⅱ	27 03 43
asc. node	8095 Jul 30 01:34	10° Ω 40'46	1.52007 110		8096 Jun 30 01:26	0°50	
use. Houe	00,000.	10 00 10 10		morning set	8096 Jul 07 09:03	13° © 28'16	
superior conj	8095 Aug 01 17:32	16° Ω 23'18	0°26'52	max. Earth dist.	8096 Jul 11 18:53		1.33797 AU
minimum elong	8095 Aug 01 16:18	16° Ω 16'34	0°26'29				
	8095 Aug 08 00:12	0° m		superior conj	8096 Jul 15 19:42	0° Ω 31′50	-0°01'13
evening rise	8095 Aug 08 16:27	1°₩26'58		minimum elong	8096 Jul 15 19:46	0° Ω 32'13	0°01'20
	8095 Aug 24 08:30	0∘ ত		behind sun begin	8096 Jul 15 14:09	0° Ω 02'45	
evening max el	8095 Aug 31 19:35	8° ≏ 57'03	23°19'34	behind sun end	8096 Jul 16 01:23	1° Ω 01'44	
desc. node	8095 Sep 02 21:21	10° ≏ 49'22		asc. node	8096 Jul 15 22:34	0° Ω 46'54	
retrograde	8095 Sep 14 06:58	15° ≏ 41'28			8096 Jul 15 13:38	0 $^{\circ}\Omega$	
evening set	8095 Sep 18 09:19	15° Ω 04'45		evening rise	8096 Jul 23 03:01	16° Ω 01'21	
min. Earth dist.	8095 Sep 25 05:04		0.55534 AU		8096 Jul 30 02:48	0° m	
inferior conj	8095 Sep 27 00:11	10° £ 51'12		evening max el	8096 Aug 12 11:00	19° m 15'35	21°42'44
minimum elong	8095 Sep 26 20:44	10° £ 56'16	5~28′37	desc. node	8096 Aug 19 18:27	24° m 23'08	
morning rise	8095 Oct 05 10:20	6° £ 59'33		retrograde	8096 Aug 24 21:59	25° m 26'23	
direct	8095 Oct 08 08:46	6° £ 38'47	20027115	evening set	8096 Aug 27 14:42	25° Mp 09'58	1027100
morning max el asc. node	8095 Oct 19 02:39 8095 Oct 26 01:09	11° ♀ 40'40 20° ♀ 09'15	20°27'15	inferior conj minimum elong	8096 Sep 05 19:16 8096 Sep 05 10:09	21° mp 10'48 21° mp 23'34	
use. Houe	5075 OCI 20 01.09	20 ==0913		mmmum ciong	0070 Sep 03 10.09	41 III 13 34	サンサンサ

min. Earth dist.	8096 Sep 05 13:47	21° mp 18'28	0.54745 AU	minimum elong	8097 Aug 16 05:09	1° m 32'00	2°54'47
morning rise	8096 Sep 14 06:43	17° mp 21'00	0.0 17 10 110	min. Earth dist.	8097 Aug 17 23:51	0° mp 29'31	0.54895 AU
direct	8096 Sep 17 19:07	16° m 53'57			8097 Aug 18 20:24	30°R Ω	
morning max el	8096 Sep 30 01:47	22° m 41'50	21°59'47	morning rise	8097 Aug 24 23:44	27° Ω 12′29	
C	8096 Oct 06 09:54	$0 \circ \overline{\mathbf{v}}$		direct	8097 Aug 29 05:12	26° Ω 33'58	
asc. node	8096 Oct 11 22:08	8° ≏ 29'42			8097 Sep 07 21:02	0° m y	
morning set	8096 Oct 21 06:15	26° £ 33′27		morning max el	8097 Sep 11 16:07	3° m 06'37	23°44'36
-	8096 Oct 22 21:24	0°M		asc. node	8097 Sep 28 19:06	27° m 26'13	
					8097 Sep 30 03:29	0∘ ত	
superior conj	8096 Oct 28 09:42	11°M42'30	1°41'10	morning set	8097 Oct 05 17:52	11° ഫ 23'59	
minimum elong	8096 Oct 28 10:07	11° M 44'43	1°41'16				
max. Earth dist.	8096 Nov 01 05:11	19°M36'32	1.34534 AU	superior conj	8097 Oct 12 16:13	26° ≙ 23'34	1°40'06
evening rise	8096 Nov 05 14:50	28°M19'59		minimum elong	8097 Oct 12 15:26	26° £ 19'22	1°40'09
	8096 Nov 06 11:43	0°⊀			8097 Oct 14 08:24	0°M₊	
desc. node	8096 Nov 15 17:17	16° ≯ 28'27		max. Earth dist.	8097 Oct 15 03:18	1°M40'52	1.33155 AU
	8096 Nov 24 08:52	0°る		evening rise	8097 Oct 20 05:12	12°M12'05	
evening max el	8096 Dec 10 16:12	20° る 09'02	26°54'49		8097 Oct 29 17:42	0°⊀	
retrograde	8096 Dec 23 21:21	27° る 28'07		desc. node	8097 Nov 02 14:21	6° ∡ 28'14	
evening set	8096 Dec 30 12:08	24° る 52'14			8097 Nov 19 17:54	0° ろ	
min. Earth dist.	8097 Jan 03 12:10	20°₹55'33	0.65712 AU	evening max el	8097 Nov 23 04:44	3° る 32'14	27°24'47
inferior conj	8097 Jan 05 12:14	18° る 36'54		retrograde	8097 Dec 06 18:51	10° ප් 51'13	
minimum elong	8097 Jan 05 13:38	18° る 32'53	0°47'23	evening set	8097 Dec 13 18:14	8° る 16'46	
asc. node	8097 Jan 07 21:29	15°る58'36		min. Earth dist.	8097 Dec 17 13:15	4°る53'00	0.64149 AU
morning rise	8097 Jan 11 16:13	12° る 59'25		inferior conj	8097 Dec 20 00:52	2°る16'57	
direct	8097 Jan 14 11:07	12°る16'56	10011117	minimum elong	8097 Dec 20 04:25	2°る07'40	1°52'51
morning max el	8097 Jan 20 22:07	15°₹43'41	18°11'17	,	8097 Dec 22 07:09	30°R ₹	
. ,	8097 Jan 31 09:16	0°≈		asc. node	8097 Dec 25 18:32	27° 🖈 20'02	
morning set	8097 Feb 08 17:44	13°≈26'47		morning rise	8097 Dec 26 16:13	26° ₹ 53'58	
desc. node	8097 Feb 11 16:39	18°≈13'35 0°) €		direct	8097 Dec 29 03:46	26° ₹ 22'57	17°51'21
	8097 Feb 19 01:09	0 X		morning max el	8098 Jan 04 15:10 8098 Jan 04 20:53	29°♂45'40 0°る	1/ 3121
superior conj	8097 Feb 23 19:28	7°) 31′28	1°20'01	morning set	8098 Jan 21 12:04	0 3 25° る 19'00	
minimum elong	8097 Feb 23 10:34	6°\(\frac{1}{3128}\)		morning set	8098 Jan 24 06:26	23 ℃ 1900	
max. Earth dist.	8097 Feb 26 00:09		1.45470 AU	desc. node	8098 Jan 29 13:36	0 ~ 8° ≈ 51'28	
max. Latur dist.	8097 Mar 10 05:00	0°Υ	1.43470 AO	dese. Hode	0070 Jan 27 15.50	0 ~31 20	
evening rise	8097 Mar 10 03:00 8097 Mar 11 22:50	2°Υ42'46		superior conj	8098 Feb 03 14:44	17° ≈ 06'43	-0°35'58
greatest brilliancy	8097 Mar 23 23:26	21°Υ16'59	-0.7m	minimum elong	8098 Feb 03 10:39	16°≈50'14	
8	8097 Mar 29 22:53	0°8	****	max. Earth dist.	8098 Feb 08 19:33	25°≈26'02	1.44842 AU
evening max el	8097 Apr 04 23:32	7° 8 23'24	19°21'20		8098 Feb 11 17:06	0°) €	
asc. node	8097 Apr 05 20:27	8° 8 14'15		evening rise	8098 Feb 19 11:32	12°) €02'38	
retrograde	8097 Apr 12 01:43	11° 8 24'37		S	8098 Mar 03 08:38	$0^{\circ}\mathbf{\Upsilon}$	
evening set	8097 Apr 15 14:52	10° 8 11'06		evening max el	8098 Mar 19 02:37	21° Y 01'40	20°19'20
inferior conj	8097 Apr 21 01:31	4° 8 19'31	3°22'15	asc. node	8098 Mar 23 17:32	24° Y 43'00	
minimum elong	8097 Apr 21 00:52	4° 8 21'36	3°22'08	retrograde	8098 Mar 27 00:09	25° Ƴ 37'37	
min. Earth dist.	8097 Apr 22 09:48	2° 8 34'20	0.66693 AU	evening set	8098 Mar 30 22:08	24° Y 09'00	
	8097 Apr 24 12:14	30° ₹Ƴ		inferior conj	8098 Apr 05 06:03	18° Ƴ 03'47	3°09'35
morning rise	8097 Apr 26 10:31	28° Ƴ 01'48		minimum elong	8098 Apr 05 04:28	18° Y 09'10	3°09'18
direct	8097 May 02 15:12	25° Ƴ 17'33		min. Earth dist.	8098 Apr 06 00:03	17° Y 02′25	0.67700 AU
desc. node	8097 May 10 16:21	28° Y 44'53		morning rise	8098 Apr 10 10:35	11° Y 47'40	
	8097 May 12 05:02	$_{0\circ}$ 8		direct	8098 Apr 16 02:47	9° Ƴ 15'51	
morning max el	8097 May 15 03:39	2° 8 46'26	25°55'58	morning max el	8098 Apr 27 12:48	16° Y 05'51	24°32'09
	8097 Jun 04 18:36	Π $^{\circ}0$		desc. node	8098 Apr 27 13:19	16° Ƴ 07'10	
morning set	8097 Jun 20 06:27	26° Ⅱ 11'02			8098 May 09 00:11	0°8	
	8097 Jun 22 07:35	0 \circ \odot			8098 May 28 17:35	$\Pi^{\circ}0$	
max. Earth dist.	8097 Jun 24 01:56	3° 5 21'33	1.35463 AU	morning set	8098 Jun 02 09:30	7° ∏ 59'11	
	0000		0001:	max. Earth dist.	8098 Jun 06 00:37	14° Ⅱ 27'45	1.37519 AU
superior conj	8097 Jun 29 14:06	14° © 14'09				_	
minimum elong	8097 Jun 29 15:58	14°523'38	0°31'43	superior conj	8098 Jun 12 21:29	27° II 21'16	
asc. node	8097 Jul 02 19:34	20°950'18		minimum elong	8098 Jun 13 01:23	27° Ⅱ 40′10	1°03'12
evening rise	8097 Jul 07 10:30	0° Ω 23'16		,	8098 Jun 14 06:08	0°95	
	8097 Jul 07 05:59	0° N		asc. node	8098 Jun 19 16:35	10°546'29	
i- 1	8097 Jul 25 11:22	0° Mp	20010121	evening rise	8098 Jun 21 12:26	14°925'12	
evening max el	8097 Jul 25 13:46	0°Mp05'57	20°19'21	ovening me1	8098 Jun 29 18:29	0° Ω	10015127
retrograde	8097 Aug 05 10:27	5° ™ 27'47		evening max el	8098 Jul 08 05:33	11° Ω 39'40	19°15'27
desc. node	2007 Aug 06 15:22	50 mm 2 /102		retrograda	2002 Int 17 00:41	160 0 1 1124	
avaning got	8097 Aug 06 15:32	5° Mp 24'02		retrograde	8098 Jul 17 09:41	16° Ω 11'34	
evening set inferior conj	8097 Aug 06 15:32 8097 Aug 07 09:41 8097 Aug 16 13:07	5° Mp 24'02 5° Mp 17'59 1° Mp 20'21	-2°57'29	retrograde evening set desc. node	8098 Jul 17 09:41 8098 Jul 19 06:58 8098 Jul 24 12:37	16° Ω 11'34 16° Ω 00'52 13° Ω 55'33	

inferior conj	8098 Jul 27 19:44	11° Ω 51'00	1000'20	inferior conj	8099 Jul 08 23:13	23° © 03'00	0°43'10
minimum elong	8098 Jul 27 17:04	11° Ω 55'26	0°59'35	minimum elong	8099 Jul 08 23:13 8099 Jul 09 00:45	23° © 00'00	0°42'28
min. Earth dist.	8098 Jul 27 17:04 8098 Jul 30 13:00	10°Ω03'02	0.55971 AU	desc. node	8099 Jul 11 09:40	23 300 00 21° 5 09'03	0 42 28
morning rise	8098 Aug 05 00:20	7° Ω 08'57	0.339/1 AU	min. Earth dist.	8099 Jul 11 09:40 8099 Jul 12 07:14	21 3 09 03 20° 2 28'25	0.57765 AU
=	=	6°Ω10'32					0.37703 AU
direct	8098 Aug 10 01:32	13°Ω20'41	25927115	morning rise	8099 Jul 16 15:53	17° © 44'03 16° © 16'38	
morning max el	8098 Aug 24 04:48		25-27-15	direct	8099 Jul 22 12:37		26950126
,	8098 Sep 06 05:52	0° Mp		morning max el	8099 Aug 05 21:50	23°954'12	26°50'36
asc. node	8098 Sep 15 16:05	16° Mp 48'41			8099 Aug 11 10:36	0° Q	
morning set	8098 Sep 20 05:23	26° To 11'32			8099 Aug 30 07:03	0° m	
	8098 Sep 21 23:52	0∘ ⊽		asc. node	8099 Sep 02 13:05	6° Mp 30'15	
		_		morning set	8099 Sep 04 15:10	10° m 51'37	
superior conj	8098 Sep 27 02:19	11° ≏ 12'21	1°33'06				
minimum elong	8098 Sep 27 00:38	11° ≏ 03'08	1°32'59	superior conj	8099 Sep 11 14:01	26° Mg 03'00	1°20'42
max. Earth dist.	8098 Sep 28 08:34	13° ≏ 58'36	1.32215 AU	minimum elong	8099 Sep 11 11:51	25° m 50'58	1°20'23
evening rise	8098 Oct 04 04:29	26° ≏ 27'06		max. Earth dist.	8099 Sep 11 17:57	26° Mp 24'47	1.31730 AU
	8098 Oct 05 22:06	0°M₊			8099 Sep 13 08:48	0∘ ⊽	
desc. node	8098 Oct 20 11:27	25° ™ 59'22		evening rise	8099 Sep 18 10:01	10° ≙ 57'56	
	8098 Oct 23 03:25	0° ∡			8099 Sep 28 03:27	0° M	
evening max el	8098 Nov 05 14:15	16° ≯ 24'11	27°25'17	desc. node	8099 Oct 07 08:33	14°M50'26	
retrograde	8098 Nov 19 09:21	23° ∡ ³39′03		evening max el	8099 Oct 18 18:10	28°M32'40	26°52'20
evening set	8098 Nov 26 12:03	21° ∡ 15′07			8099 Oct 20 08:52	0° ∡ ¹	
min. Earth dist.	8098 Nov 30 04:11	18° ∡ 19'30	0.62285 AU	retrograde	8099 Nov 01 15:59	5° ∡ ¹42'13	
inferior conj	8098 Dec 03 02:13	15° ∡ ³36'17	-3°03'56	evening set	8099 Nov 08 13:32	3° ∡ ³39'55	
minimum elong	8098 Dec 03 07:59	15° ∡ ¹22'47	3°01'43	min. Earth dist.	8099 Nov 12 08:26	1° ∡ °02′06	0.60223 AU
morning rise	8098 Dec 10 06:03	10° ∡ ³31'14			8099 Nov 13 15:16	30°RM₊	
direct	8098 Dec 12 12:44	10° ∡ '08'04		inferior conj	8099 Nov 15 12:51	28°M25'49	-4°11'20
asc. node	8098 Dec 12 15:34	10° ≯ °08'08		minimum elong	8099 Nov 15 20:03	28°M11'03	4°09'11
morning max el	8098 Dec 19 08:01	13° ∡ 35'56	17°49'16	morning rise	8099 Nov 23 04:57	23°M41'45	. 0, 11
morning man vi	8098 Dec 30 12:56	0°る	1, 1, 10	direct	8099 Nov 25 10:03	23°M23'07	
morning set	8099 Jan 04 04:50	。3 8° る 15'19		asc. node	8099 Nov 29 12:36	24°M30'36	
morning set	0077 Jan 04 04.50	6 0 13 17		morning max el	8099 Dec 02 21:14	27°M05'07	18°06'06
superior conj	8099 Jan 15 10:45	27° る 54'30	0°07'18	morning max ci	8099 Dec 05 11:32	0° ⊼ ¹	10 00 00
minimum elong	8099 Jan 15 10:43	27° る 57'29	0°07'20	morning set	8099 Dec 03 11:32 8099 Dec 18 13:42	21° ∡ ¹56′25	
•		27° る 23'56	0 07 20	morning set		21 メ ・3023	
behind sun begin	8099 Jan 15 03:33 8099 Jan 15 19:23	27 3 23 30 28° 3 30'58			8099 Dec 22 21:25	0.0	
behind sun end		28° る 30'38			9000 D 29 07-42	00=52122	0942124
desc. node	8099 Jan 16 10:35			superior conj	8099 Dec 28 07:42	9° る 53'23	0°43'34
P 4 P	8099 Jan 16 16:32	0° ≈	1 10515 177	minimum elong	8099 Dec 28 10:47	10°る07'09	0°43'16
max. Earth dist.	8099 Jan 22 11:55	9° ≈ 34'31	1.43547 AU	desc. node	8100 Jan 03 07:35	20°る20'23	
evening rise	8099 Jan 30 01:02	21°≈32'25		max. Earth dist.	8100 Jan 04 23:08		1.41738 AU
	8099 Feb 04 13:25	0°) €			8100 Jan 09 03:14	0° ≈	
	8099 Feb 25 20:16	0° Υ		evening rise	8100 Jan 10 05:06	1° ≈ 44'28	
evening max el	8099 Mar 02 00:09		21°29'32		8100 Jan 28 23:55	0° ∀	
retrograde	8099 Mar 10 22:20	9° Y 57'45		evening max el	8100 Feb 12 17:01	18° ¥ 22'08	22°47'35
asc. node	8099 Mar 10 14:37	9° Y 57'14		retrograde	8100 Feb 22 18:29	24° ∺ 20′10	
evening set	8099 Mar 15 06:16	8° Y 13'58		asc. node	8100 Feb 25 11:43	23°) 43′01	
inferior conj	8099 Mar 20 13:41	1° Ƴ 57'34	2°46'25	evening set	8100 Feb 27 13:37	22° ∺ 21'30	
minimum elong	8099 Mar 20 11:33	2° Y ′04'59	2°45'56	inferior conj	8100 Mar 04 22:22	15° ¥ 57'14	2°13'58
min. Earth dist.	8099 Mar 20 18:40	1° Y 40'14	0.68261 AU	minimum elong	8100 Mar 04 20:06	16° 米 05′04	2°13'21
	8099 Mar 21 23:48	30°Ŗ ℋ		min. Earth dist.	8100 Mar 04 15:20	16° ∺ 21'36	0.68400 AU
morning rise		> (010011111 01 10.20		
direct	8099 Mar 25 16:39	25°) 44′39		morning rise	8100 Mar 10 02:29	9°) 48'49	
direct	8099 Mar 25 16:39 8099 Mar 30 18:58	23°) €31'33		morning rise direct		9° 光 48'49 7° 光 57'34	
morning max el			23°02'27	-	8100 Mar 10 02:29		21°35'53
	8099 Mar 30 18:58	23°) €31'33	23°02'27	direct	8100 Mar 10 02:29 8100 Mar 14 14:46	7°) 57'34	21°35'53
	8099 Mar 30 18:58 8099 Apr 09 22:38	23°) (31'33 29°) (32'47	23°02'27	direct morning max el	8100 Mar 10 02:29 8100 Mar 14 14:46 8100 Mar 23 12:11	7° ¥ 57'34 13° ¥ 07'50	21°35'53
morning max el	8099 Mar 30 18:58 8099 Apr 09 22:38 8099 Apr 10 09:19	23°¥31'33 29°¥32'47 0° Y	23°02'27	direct morning max el	8100 Mar 10 02:29 8100 Mar 14 14:46 8100 Mar 23 12:11 8100 Apr 01 07:13	7°¥57'34 13°¥07'50 23°¥39'43	21°35'53
morning max el	8099 Mar 30 18:58 8099 Apr 09 22:38 8099 Apr 10 09:19 8099 Apr 14 10:16	23°¥31'33 29°¥32'47 0° ° 4° ° Y31'19	23°02'27	direct morning max el desc. node	8100 Mar 10 02:29 8100 Mar 14 14:46 8100 Mar 23 12:11 8100 Apr 01 07:13 8100 Apr 05 21:41	7°¥57'34 13°¥07'50 23°¥39'43 0°Υ	21°35'53
morning max el desc. node	8099 Mar 30 18:58 8099 Apr 09 22:38 8099 Apr 10 09:19 8099 Apr 14 10:16 8099 May 02 19:05	23°\;31'33 29°\;32'47 0°\? 4°\?31'19 0°\;8	23°02'27 1.39758 AU	direct morning max el desc. node	8100 Mar 10 02:29 8100 Mar 14 14:46 8100 Mar 23 12:11 8100 Apr 01 07:13 8100 Apr 05 21:41 8100 Apr 24 12:13	7°¥57'34 13°¥07'50 23°¥39'43 0°Y 28°Y02'16 0°8	21°35'53 1.41917 AU
morning max el desc. node morning set	8099 Mar 30 18:58 8099 Apr 09 22:38 8099 Apr 10 09:19 8099 Apr 14 10:16 8099 May 02 19:05 8099 May 14 12:42	23°\dagger31'33 29°\dagger32'47 0°\dagger 4°\dagger31'19 0°\dagger3 18°\dagger33'19		direct morning max el desc. node morning set	8100 Mar 10 02:29 8100 Mar 14 14:46 8100 Mar 23 12:11 8100 Apr 01 07:13 8100 Apr 05 21:41 8100 Apr 24 12:13 8100 Apr 25 17:44	7°¥57'34 13°¥07'50 23°¥39'43 0°Y 28°Y02'16 0°8	
morning max el desc. node morning set	8099 Mar 30 18:58 8099 Apr 09 22:38 8099 Apr 10 09:19 8099 Apr 14 10:16 8099 May 02 19:05 8099 May 14 12:42 8099 May 18 20:56	23°\;31'33 29°\;32'47 0°\;4°\;731'19 0°\;8'\;39'19 26°\;800'36		direct morning max el desc. node morning set	8100 Mar 10 02:29 8100 Mar 14 14:46 8100 Mar 23 12:11 8100 Apr 01 07:13 8100 Apr 05 21:41 8100 Apr 24 12:13 8100 Apr 25 17:44 8100 Apr 30 21:04	7°¥57'34 13°¥07'50 23°¥39'43 0°Y 28°Y02'16 0°8	1.41917 AU
morning max el desc. node morning set max. Earth dist.	8099 Mar 30 18:58 8099 Apr 09 22:38 8099 Apr 10 09:19 8099 Apr 14 10:16 8099 May 02 19:05 8099 May 14 12:42 8099 May 18 20:56 8099 May 21 03:57	23°\;31'33 29°\;32'47 0°\;4°\;731'19 0°\;8'\;39'19 26°\;800'36	1.39758 AU	direct morning max el desc. node morning set max. Earth dist. superior conj	8100 Mar 10 02:29 8100 Mar 14 14:46 8100 Mar 23 12:11 8100 Apr 01 07:13 8100 Apr 05 21:41 8100 Apr 24 12:13 8100 Apr 25 17:44 8100 Apr 30 21:04 8100 May 08 10:36	7°¥57'34 13°¥07'50 23°¥39'43 0°Y 28°Y02'16 0°₩ 8°₩21'30	1.41917 AU -1°58'07
morning max el desc. node morning set max. Earth dist.	8099 Mar 30 18:58 8099 Apr 09 22:38 8099 Apr 10 09:19 8099 Apr 14 10:16 8099 May 02 19:05 8099 May 14 12:42 8099 May 18 20:56 8099 May 21 03:57 8099 May 26 13:54	23°\dagger331'33 29°\dagger32'47 0°\dagger 4°\dagger31'19 0°\dagger 18°\dagger39'19 26°\dagger300'36 0°\dagger	1.39758 AU -1°33'47	direct morning max el desc. node morning set max. Earth dist.	8100 Mar 10 02:29 8100 Mar 14 14:46 8100 Mar 23 12:11 8100 Apr 01 07:13 8100 Apr 05 21:41 8100 Apr 24 12:13 8100 Apr 25 17:44 8100 Apr 30 21:04 8100 May 08 10:36 8100 May 08 15:59	7°\\$57'34 13°\\$07'50 23°\\$39'43 0°\\$' 28°\\$02'16 0°\\$8 8°\\$21'30 21°\\$10'58 21°\\$34'23	1.41917 AU -1°58'07
morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8099 Mar 30 18:58 8099 Apr 09 22:38 8099 Apr 10 09:19 8099 Apr 14 10:16 8099 May 02 19:05 8099 May 14 12:42 8099 May 18 20:56 8099 May 21 03:57	23° ₭31'33 29° ₭32'47 0° ♀ 4° ♀31'19 0° ௧ 18° ₴39'19 26° ₴00'36 0° Ⅱ 9° Ⅱ43'58	1.39758 AU -1°33'47	direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8100 Mar 10 02:29 8100 Mar 14 14:46 8100 Mar 23 12:11 8100 Apr 01 07:13 8100 Apr 05 21:41 8100 Apr 24 12:13 8100 Apr 25 17:44 8100 Apr 30 21:04 8100 May 08 10:36 8100 May 08 15:59 8100 May 13 10:19	7°\\$57'34 13°\\$07'50 23°\\$39'43 0°\\$ 28°\\$02'16 0°\\$ 8°\\$21'30 21°\\$10'58 21°\\$34'23 0°\\$I	1.41917 AU -1°58'07
morning max el desc. node morning set max. Earth dist.	8099 Mar 30 18:58 8099 Apr 09 22:38 8099 Apr 10 09:19 8099 Apr 14 10:16 8099 May 02 19:05 8099 May 14 12:42 8099 May 18 20:56 8099 May 21 03:57 8099 May 26 13:54 8099 May 26 19:25 8099 Jun 05 05:49	23° ★31'33 29° ★32'47 0° ♀ 4° ♀31'19 0° ௧ 18° ௧39'19 26° ௧00'36 0° Ⅱ 9° Ⅱ43'58 10° Ⅱ09'21 27° Ⅱ59'35	1.39758 AU -1°33'47	direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	8100 Mar 10 02:29 8100 Mar 14 14:46 8100 Mar 23 12:11 8100 Apr 01 07:13 8100 Apr 05 21:41 8100 Apr 24 12:13 8100 Apr 25 17:44 8100 Apr 30 21:04 8100 May 08 10:36 8100 May 08 15:59 8100 May 13 10:19 8100 May 19 10:42	7°\\$57'34 13°\\$07'50 23°\\$39'43 0°\\$ 28°\\$02'16 0°\\$ 8°\\$21'30 21°\\$34'23 0°\\$ 10°\\$155'53	1.41917 AU -1°58'07
morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	8099 Mar 30 18:58 8099 Apr 09 22:38 8099 Apr 10 09:19 8099 Apr 14 10:16 8099 May 02 19:05 8099 May 14 12:42 8099 May 18 20:56 8099 May 21 03:57 8099 May 26 13:54 8099 May 26 19:25 8099 Jun 05 05:49 8099 Jun 06 07:01	23° X 31'33 29° X 32'47 0° Y 4° Y 31'19 0° 8 18° 8 39'19 26° 8 00'36 0° Π 9° Π 43'58 10° Π 09'21 27° Π 59'35 0° \$\mathref{S}\$	1.39758 AU -1°33'47	direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	8100 Mar 10 02:29 8100 Mar 14 14:46 8100 Mar 23 12:11 8100 Apr 01 07:13 8100 Apr 05 21:41 8100 Apr 24 12:13 8100 Apr 25 17:44 8100 Apr 30 21:04 8100 May 08 10:36 8100 May 08 15:59 8100 May 13 10:19 8100 May 19 10:42 8100 May 24 10:42	7°\\$57'34 13°\\$07'50 23°\\$39'43 0°\\$ 28°\\$02'16 0°\\$ 8°\\$21'30 21°\\$34'23 0°\\$ 10°\\$155'53 20°\\$100'03	1.41917 AU -1°58'07
morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	8099 Mar 30 18:58 8099 Apr 09 22:38 8099 Apr 10 09:19 8099 Apr 14 10:16 8099 May 02 19:05 8099 May 14 12:42 8099 May 18 20:56 8099 May 21 03:57 8099 May 26 13:54 8099 May 26 19:25 8099 Jun 05 05:49 8099 Jun 06 07:01 8099 Jun 06 13:39	23° X 31'33 29° X 32'47 0° Y 4° Y 31'19 0° 8 18° 8 39'19 26° 8 00'36 0° Π 9° Π 43'58 10° Π 09'21 27° Π 59'35 0° 9 0° 931'36	1.39758 AU -1°33'47 1°33'14	direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	8100 Mar 10 02:29 8100 Mar 14 14:46 8100 Mar 23 12:11 8100 Apr 01 07:13 8100 Apr 05 21:41 8100 Apr 24 12:13 8100 Apr 25 17:44 8100 Apr 30 21:04 8100 May 08 10:36 8100 May 08 15:59 8100 May 13 10:19 8100 May 19 10:42 8100 May 24 10:42 8100 May 30 10:29	7°\\$57'34 13°\\$07'50 23°\\$39'43 0°\\$ 28°\\$02'16 0°\\$ 8°\\$21'30 21°\\$10'58 21°\\$34'23 0°\\$ 10°\\$I\$55'53 20°\\$I00'03 0°\\$	1.41917 AU -1°58'07 1°57'51
morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	8099 Mar 30 18:58 8099 Apr 09 22:38 8099 Apr 10 09:19 8099 Apr 14 10:16 8099 May 02 19:05 8099 May 14 12:42 8099 May 18 20:56 8099 May 21 03:57 8099 May 26 13:54 8099 May 26 19:25 8099 Jun 05 05:49 8099 Jun 06 07:01 8099 Jun 06 13:39 8099 Jun 21 08:10	23° X 31'33 29° X 32'47 0° Y 4° Y 31'19 0° 8 18° 8 39'19 26° 8 00'36 0° Π 9° Π 43'58 10° Π 09'21 27° Π 59'35 0° 9 0° 931'36 23° 955'24	1.39758 AU -1°33'47	direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	8100 Mar 10 02:29 8100 Mar 14 14:46 8100 Mar 23 12:11 8100 Apr 01 07:13 8100 Apr 05 21:41 8100 Apr 24 12:13 8100 Apr 25 17:44 8100 Apr 30 21:04 8100 May 08 10:36 8100 May 08 15:59 8100 May 13 10:19 8100 May 13 10:19 8100 May 14 10:42 8100 May 24 10:42 8100 May 30 10:29 8100 Jun 04 17:48	7°\\$57'34 13°\\$07'50 23°\\$39'43 0°\\$' 28°\\$02'16 0°\\$' 8°\\$21'30 21°\\$34'23 0°\\$\\$10°\\$55'53 20°\\$\\$100'03 0°\\$\\$6°\\$24'48	1.41917 AU -1°58'07
morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	8099 Mar 30 18:58 8099 Apr 09 22:38 8099 Apr 10 09:19 8099 Apr 14 10:16 8099 May 02 19:05 8099 May 14 12:42 8099 May 18 20:56 8099 May 21 03:57 8099 May 26 13:54 8099 May 26 19:25 8099 Jun 05 05:49 8099 Jun 06 07:01 8099 Jun 06 13:39	23° X 31'33 29° X 32'47 0° Y 4° Y 31'19 0° 8 18° 8 39'19 26° 8 00'36 0° Π 9° Π 43'58 10° Π 09'21 27° Π 59'35 0° 9 0° 931'36	1.39758 AU -1°33'47 1°33'14	direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	8100 Mar 10 02:29 8100 Mar 14 14:46 8100 Mar 23 12:11 8100 Apr 01 07:13 8100 Apr 05 21:41 8100 Apr 24 12:13 8100 Apr 25 17:44 8100 Apr 30 21:04 8100 May 08 10:36 8100 May 08 15:59 8100 May 13 10:19 8100 May 19 10:42 8100 May 24 10:42 8100 May 30 10:29	7°\\$57'34 13°\\$07'50 23°\\$39'43 0°\\$ 28°\\$02'16 0°\\$ 8°\\$21'30 21°\\$10'58 21°\\$34'23 0°\\$ 10°\\$I\$55'53 20°\\$I00'03 0°\\$	1.41917 AU -1°58'07 1°57'51

	0100 7 00 00 50	40055155	1050150		010134 00 11 15	220 T 20102	
inferior conj	8100 Jun 20 23:59	4°957'55	1°59'52	evening set	8101 May 28 11:15	22° I I38'03	20.4014.4
minimum elong	8100 Jun 21 03:02	4°950'59	1°58'50	inferior conj	8101 Jun 03 18:48	17° Ⅱ 29'23	2°49'11
min. Earth dist.	8100 Jun 24 08:11	1°957'31	0.59944 AU	minimum elong	8101 Jun 03 21:26	17° Ⅱ 22'32	
	8100 Jun 26 19:41	30°RⅡ		min. Earth dist.	8101 Jun 06 17:20	14° Ⅲ 27'40	0.62182 AU
morning rise	8100 Jun 28 01:43	29° Ⅱ 10'30		morning rise	8101 Jun 10 05:46	11° ∏ 24'12	
desc. node	8100 Jun 28 06:42	29° ∏ 03′03		desc. node	8101 Jun 15 03:43	9° ∏ 08'32	
direct	8100 Jul 04 13:03	27° Ⅱ 11'03		direct	8101 Jun 16 23:54	8° Ⅱ 57'58	
	8100 Jul 12 17:36	0_{\circ} වෙ		morning max el	8101 Jul 01 02:55	16° ∏ 59'40	27°55'03
morning max el	8100 Jul 18 21:25	5° © 05'29	27°41'46		8101 Jul 11 21:19	$0 {\circ} \mathfrak{S}$	
	8100 Aug 06 09:35	$0^{\circ}\Omega$			8101 Jul 30 03:00	0 $^{\circ}\Omega$	
morning set	8100 Aug 19 21:29	25° Ω 19'12		morning set	8101 Aug 03 22:17	9° Ω 27'42	
asc. node	8100 Aug 20 10:05	26° Ω 25'07		asc. node	8101 Aug 07 07:03	16° Ω 27'39	
	8100 Aug 22 02:36	0° ™		max. Earth dist.	8101 Aug 09 10:47	21° Ω 04'30	1.32145 AU
max. Earth dist.	8100 Aug 26 03:58	8° m 50'42	1.31704 AU				
				superior conj	8101 Aug 11 10:58	25° Ω 26′29	0°41'23
superior conj	8100 Aug 27 01:32	10° m 49'53	1°03'20	minimum elong	8101 Aug 11 09:13	25° Ω 16′54	0°40'57
minimum elong	8100 Aug 26 23:19	10° Mp37′38	1°02'53		8101 Aug 13 12:52	O° Mp	
evening rise	8100 Sep 02 19:31	25° m/38'08		evening rise	8101 Aug 18 06:55	10° m 20'49	
	8100 Sep 04 21:09	0∘ ⊽			8101 Aug 28 06:31	0∘ ⊽	
	8100 Sep 22 03:21	0° M		desc. node	8101 Sep 11 02:43	19° ≙ 22'48	
desc. node	8100 Sep 24 05:38	2°M45'47		evening max el	8101 Sep 12 03:54	20° £ 25'17	24°16'39
evening max el	8100 Sep 30 14:35	9° ™ 51'40	25°46'46	retrograde	8101 Sep 25 21:51	27° ₽ 19'03	
retrograde	8100 Oct 14 13:01	16°M55'04		evening set	8101 Sep 30 21:20	26° ≏ 24'22	
evening set	8100 Oct 20 17:50	15° M 24'44		min. Earth dist.	8101 Oct 06 14:45	23° ≏ 31'38	0.56342 AU
min. Earth dist.	8100 Oct 25 03:08	12°M48'40	0.58153 AU	inferior conj	8101 Oct 09 01:38	22° ≏ 00'05	-5°33'38
inferior conj	8100 Oct 28 05:25	10° M 36'36	-5°06'34	minimum elong	8101 Oct 09 02:34	21° ≏ 58'38	
minimum elong	8100 Oct 28 11:32	10°M25'41	5°05'27	morning rise	8101 Oct 17 09:56	17° £ 59'36	
morning rise	8100 Nov 05 07:34	6°M15'04	0 00 27	direct	8101 Oct 20 02:02	17° Ω 40'44	
direct	8100 Nov 07 15:32	5°M57'49		morning max el	8101 Oct 29 22:12	22° ₽ 19'10	19°42'55
morning max el	8100 Nov 16 03:10	10°M03'19	18°43'26	asc. node	8101 Nov 03 06:37	27° £ 17'47	19 .200
asc. node	8100 Nov 16 09:37	10°M19'03	10 43 20	use. Houe	8101 Nov 05 00:37	0°M	
use. Houe	8100 Nov 29 05:21	0° ⊼		morning set	8101 Nov 16 13:11	20°M39'35	
morning set	8100 Dec 02 09:44	6° ∡ 708'18		morning set	8101 Nov 21 03:46	0° ⊼	
morning set	0100 Dec 02 07.44	0 % 00 10			01011101 21 05.40	0 %	
superior coni	8100 Dec 11 01:08	22° ₹ 50'37	1°10'45	superior coni	8101 Nov 24 09:53	6° ∡ 731'01	1°28'52
superior conj	8100 Dec 11 01:08 8100 Dec 11 04:30	22° ⊀ 50'37 23° ≮ 06'30	1°10'45 1°10'28	superior conj	8101 Nov 24 09:53 8101 Nov 24 12:23	6° ⊀ ³31'01 6° ≮ ³43'23	1°28'52 1°28'47
superior conj minimum elong	8100 Dec 11 04:30	23° ₹ 06'30	1°10'45 1°10'28	minimum elong	8101 Nov 24 12:23	6° ∡ ¹43'23	1°28'47
minimum elong	8100 Dec 11 04:30 8100 Dec 14 21:52	23°メ06'30 0°る	1°10'28	minimum elong max. Earth dist.	8101 Nov 24 12:23 8101 Nov 30 11:54	6° х 43′23 18° х 12′42	
minimum elong max. Earth dist.	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02	23° メ 06'30 0°る 5°る58'27		minimum elong	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36	6° ₹43'23 18° ₹12'42 25° ₹01'05	1°28'47
minimum elong max. Earth dist. desc. node	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37	23° 🗷 06'30 0° る 5° る58'27 11° る04'10	1°10'28	minimum elong max. Earth dist. evening rise	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51	6°メ43'23 18°メ12'42 25°メ01'05 0°る	1°28'47
minimum elong max. Earth dist.	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37 8100 Dec 22 06:39	23°メ06'30 0°る 5°る58'27 11°る04'10 12°る54'41	1°10'28	minimum elong max. Earth dist.	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51 8101 Dec 08 01:39	6°メ43'23 18°メ12'42 25°メ01'05 0°उ 1°उ41'55	1°28'47
minimum elong max. Earth dist. desc. node	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37 8100 Dec 22 06:39 8101 Jan 01 22:10	23°×06'30 0°る 5°る58'27 11°る04'10 12°る54'41 0°≈	1°10'28	minimum elong max. Earth dist. evening rise desc. node	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51 8101 Dec 08 01:39 8101 Dec 26 13:16	6°¾43'23 18°¾12'42 25°¾01'05 0°♂ 1°♂41'55 0°≈	1°28'47 1.37485 AU
minimum elong max. Earth dist. desc. node evening rise	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37 8100 Dec 22 06:39 8101 Jan 01 22:10 8101 Jan 24 06:07	23° 水06'30 0° で 5° です58'27 11° で504'10 12° です54'41 0° ※ 0° 米	1°10'28 1.39637 AU	minimum elong max. Earth dist. evening rise	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51 8101 Dec 08 01:39	6°メ43'23 18°メ12'42 25°メ01'05 0°उ 1°उ41'55	1°28'47
minimum elong max. Earth dist. desc. node evening rise evening max el	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37 8100 Dec 22 06:39 8101 Jan 01 22:10 8101 Jan 24 06:07 8101 Jan 26 07:10	23°メ06'30 0°उ 5°उ58'27 11°उ04'10 12°उ54'41 0°≈ 0°升 2°升07'20	1°10'28	minimum elong max. Earth dist. evening rise desc. node	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51 8101 Dec 08 01:39 8101 Dec 26 13:16	6°¾43'23 18°¾12'42 25°¾01'05 0°♂ 1°♂41'55 0°≈	1°28'47 1.37485 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37 8100 Dec 22 06:39 8101 Jan 01 22:10 8101 Jan 24 06:07 8101 Jan 26 07:10 8101 Feb 06 11:14	23°×06'30 0°る 5°る58'27 11°る04'10 12°る54'41 0°≈ 0°米 2°米07'20 8°米40'49	1°10'28 1.39637 AU	minimum elong max. Earth dist. evening rise desc. node	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51 8101 Dec 08 01:39 8101 Dec 26 13:16	6°¾43'23 18°¾12'42 25°¾01'05 0°♂ 1°♂41'55 0°≈	1°28'47 1.37485 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37 8100 Dec 22 06:39 8101 Jan 01 22:10 8101 Jan 24 06:07 8101 Jan 26 07:10 8101 Feb 06 11:14 8101 Feb 11 18:39	23°×06'30 0°る 5°る58'27 11°る04'10 12°る54'41 0°≈ 0°米 2°米07'20 8°米40'49 6°米28'06	1°10'28 1.39637 AU	minimum elong max. Earth dist. evening rise desc. node	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51 8101 Dec 08 01:39 8101 Dec 26 13:16	6°¾43'23 18°¾12'42 25°¾01'05 0°♂ 1°♂41'55 0°≈	1°28'47 1.37485 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37 8100 Dec 22 06:39 8101 Jan 01 22:10 8101 Jan 24 06:07 8101 Jan 26 07:10 8101 Feb 06 11:14 8101 Feb 11 18:39 8101 Feb 12 08:47	23°×06'30 0°る 5°る58'27 11°る04'10 12°る54'41 0°≈ 0°米 2°米07'20 8°米40'49 6°米28'06 5°米56'28	1°10'28 1.39637 AU 24°07'39	minimum elong max. Earth dist. evening rise desc. node	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51 8101 Dec 08 01:39 8101 Dec 26 13:16	6°¾43'23 18°¾12'42 25°¾01'05 0°♂ 1°♂41'55 0°≈	1°28'47 1.37485 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist.	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37 8100 Dec 22 06:39 8101 Jan 01 22:10 8101 Jan 24 06:07 8101 Jan 26 07:10 8101 Feb 06 11:14 8101 Feb 11 18:39 8101 Feb 12 08:47 8101 Feb 16 11:45	23°×06'30 0°る 5°る58'27 11°る04'10 12°る54'41 0°≈ 0°米 2°米07'20 8°米40'49 6°米28'06 5°米56'28 1°米02'30	1°10'28 1.39637 AU 24°07'39 0.68140 AU	minimum elong max. Earth dist. evening rise desc. node	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51 8101 Dec 08 01:39 8101 Dec 26 13:16	6°¾43'23 18°¾12'42 25°¾01'05 0°♂ 1°♂41'55 0°≈	1°28'47 1.37485 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37 8100 Dec 22 06:39 8101 Jan 01 22:10 8101 Jan 24 06:07 8101 Jan 26 07:10 8101 Feb 06 11:14 8101 Feb 11 18:39 8101 Feb 12 08:47 8101 Feb 16 11:45 8101 Feb 17 06:15	23°×06'30 0°る 5°る58'27 11°る04'10 12°る54'41 0°≈ 0°米 2°米07'20 8°米40'49 6°米28'06 5°米56'28 1°米02'30 29°≈59'57	1°10'28 1.39637 AU 24°07'39 0.68140 AU 1°33'03	minimum elong max. Earth dist. evening rise desc. node	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51 8101 Dec 08 01:39 8101 Dec 26 13:16	6°¾43'23 18°¾12'42 25°¾01'05 0°♂ 1°♂41'55 0°≈	1°28'47 1.37485 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist.	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37 8100 Dec 22 06:39 8101 Jan 01 22:10 8101 Jan 24 06:07 8101 Jan 26 07:10 8101 Feb 06 11:14 8101 Feb 11 18:39 8101 Feb 12 08:47 8101 Feb 16 11:45 8101 Feb 17 06:15 8101 Feb 17 04:20	23°×706'30 0°さ 5°さ58'27 11°さ04'10 12°さ54'41 0°≈ 0°米 2°米07'20 8°米40'49 6°米28'06 5°米56'28 1°米02'30 29°≈59'57 0°米06'27	1°10'28 1.39637 AU 24°07'39 0.68140 AU 1°33'03	minimum elong max. Earth dist. evening rise desc. node	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51 8101 Dec 08 01:39 8101 Dec 26 13:16	6°¾43'23 18°¾12'42 25°¾01'05 0°♂ 1°♂41'55 0°≈	1°28'47 1.37485 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37 8100 Dec 22 06:39 8101 Jan 01 22:10 8101 Jan 24 06:07 8101 Jan 26 07:10 8101 Feb 06 11:14 8101 Feb 11 18:39 8101 Feb 12 08:47 8101 Feb 16 11:45 8101 Feb 17 06:15 8101 Feb 17 04:20 8101 Feb 17 06:14	23°×706'30 0°さ 5°さ58'27 11°さ04'10 12°さ54'41 0°≈ 0°米 2°米07'20 8°米40'49 6°米28'06 5°米56'28 1°米02'30 29°≈59'57 0°米06'27 30°R≈	1°10'28 1.39637 AU 24°07'39 0.68140 AU 1°33'03	minimum elong max. Earth dist. evening rise desc. node	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51 8101 Dec 08 01:39 8101 Dec 26 13:16	6°¾43'23 18°¾12'42 25°¾01'05 0°♂ 1°♂41'55 0°≈	1°28'47 1.37485 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37 8100 Dec 22 06:39 8101 Jan 01 22:10 8101 Jan 24 06:07 8101 Jan 26 07:10 8101 Feb 06 11:14 8101 Feb 11 18:39 8101 Feb 12 08:47 8101 Feb 16 11:45 8101 Feb 17 06:15 8101 Feb 17 06:15 8101 Feb 17 06:14 8101 Feb 17 06:14 8101 Feb 22 14:03	23°×706'30 0°さ 5°さ58'27 11°さ04'10 12°さ54'41 0°≈ 0°米 2°米07'20 8°米40'49 6°光28'06 5°米56'28 1°米02'30 29°≈59'57 0°米06'27 30°R≈ 23°≈57'39	1°10'28 1.39637 AU 24°07'39 0.68140 AU 1°33'03	minimum elong max. Earth dist. evening rise desc. node	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51 8101 Dec 08 01:39 8101 Dec 26 13:16	6°¾43'23 18°¾12'42 25°¾01'05 0°♂ 1°♂41'55 0°≈	1°28'47 1.37485 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37 8100 Dec 22 06:39 8101 Jan 01 22:10 8101 Jan 24 06:07 8101 Jan 26 07:10 8101 Feb 06 11:14 8101 Feb 11 18:39 8101 Feb 12 08:47 8101 Feb 16 11:45 8101 Feb 17 06:15 8101 Feb 17 06:14 8101 Feb 17 06:14 8101 Feb 22 14:03 8101 Feb 26 13:01	23°×706'30 0°で 5°で 58'27 11°で 604'10 12°で 554'41 0°≈ 0° 米 2° 米 607'20 8° 米 40'49 6° 光 28'06 5° 米 56'28 1° 米 02'30 29°≈ 59'57 0° 米 06'27 30° R≈ 23°≈ 57'39 22°≈ 28'35	1°10'28 1.39637 AU 24°07'39 0.68140 AU 1°33'03 1°32'26	minimum elong max. Earth dist. evening rise desc. node	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51 8101 Dec 08 01:39 8101 Dec 26 13:16	6°¾43'23 18°¾12'42 25°¾01'05 0°♂ 1°♂41'55 0°≈	1°28'47 1.37485 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37 8100 Dec 22 06:39 8101 Jan 01 22:10 8101 Jan 24 06:07 8101 Jan 26 07:10 8101 Feb 06 11:14 8101 Feb 11 18:39 8101 Feb 12 08:47 8101 Feb 16 11:45 8101 Feb 17 06:15 8101 Feb 17 06:15 8101 Feb 17 06:14 8101 Feb 17 06:14 8101 Feb 22 14:03 8101 Feb 26 13:01 8101 Mar 06 08:37	23°×706'30 0°で 5°で 58'27 11°で 604'10 12°で 554'41 0°≈ 0° 米 2° 米 607'20 8° 米 40'49 6° 光 28'06 5° 米 56'28 1° 米 02'30 29°≈ 59'57 0° 米 06'27 30° R≈ 23°≈ 57'39 22°≈ 28'35 26°≈ 54'29	1°10'28 1.39637 AU 24°07'39 0.68140 AU 1°33'03 1°32'26	minimum elong max. Earth dist. evening rise desc. node	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51 8101 Dec 08 01:39 8101 Dec 26 13:16	6°¾43'23 18°¾12'42 25°¾01'05 0°♂ 1°♂41'55 0°≈	1°28'47 1.37485 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37 8100 Dec 22 06:39 8101 Jan 01 22:10 8101 Jan 24 06:07 8101 Jan 26 07:10 8101 Feb 06 11:14 8101 Feb 11 18:39 8101 Feb 12 08:47 8101 Feb 16 11:45 8101 Feb 17 06:15 8101 Feb 17 06:15 8101 Feb 17 06:14 8101 Feb 22 14:03 8101 Feb 26 13:01 8101 Mar 06 08:37 8101 Mar 09 04:47	23°×706'30 0°ろ 5°ろ58'27 11°ろ04'10 12°ろ54'41 0°≈ 0°米 2°米07'20 8°米40'49 6°光28'06 5°光56'28 1°米02'30 29°≈59'57 0°米06'27 30°R≈ 23°≈57'39 22°≈28'35 26°≈54'29 0°米	1°10'28 1.39637 AU 24°07'39 0.68140 AU 1°33'03 1°32'26	minimum elong max. Earth dist. evening rise desc. node	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51 8101 Dec 08 01:39 8101 Dec 26 13:16	6°¾43'23 18°¾12'42 25°¾01'05 0°♂ 1°♂41'55 0°≈	1°28'47 1.37485 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37 8100 Dec 22 06:39 8101 Jan 01 22:10 8101 Jan 24 06:07 8101 Jan 26 07:10 8101 Feb 06 11:14 8101 Feb 11 18:39 8101 Feb 12 08:47 8101 Feb 16 11:45 8101 Feb 17 06:15 8101 Feb 17 06:15 8101 Feb 17 06:14 8101 Feb 22 14:03 8101 Feb 26 13:01 8101 Mar 06 08:37 8101 Mar 09 04:47 8101 Mar 19 04:10	23°×706'30 0°ろ 5°ろ58'27 11°ろ04'10 12°ろ54'41 0°≈ 0°米 2°米07'20 8°米40'49 6°升28'06 5°升56'28 1°升02'30 29°≈59'57 0°米06'27 30°R≈ 23°≈57'39 22°≈28'35 26°≈54'29 0°米 13°米20'31	1°10'28 1.39637 AU 24°07'39 0.68140 AU 1°33'03 1°32'26	minimum elong max. Earth dist. evening rise desc. node	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51 8101 Dec 08 01:39 8101 Dec 26 13:16	6°¾43'23 18°¾12'42 25°¾01'05 0°♂ 1°♂41'55 0°≈	1°28'47 1.37485 AU
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minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37 8100 Dec 22 06:39 8101 Jan 01 22:10 8101 Jan 24 06:07 8101 Jan 26 07:10 8101 Feb 06 11:14 8101 Feb 11 18:39 8101 Feb 12 08:47 8101 Feb 16 11:45 8101 Feb 17 06:15 8101 Feb 17 06:15 8101 Feb 17 06:14 8101 Feb 22 14:03 8101 Feb 26 13:01 8101 Mar 06 08:37 8101 Mar 19 04:10 8101 Mar 30 08:40 8101 Apr 03 13:36	23°×06'30 0°る 5°る58'27 11°る04'10 12°る54'41 0°≈ 0° H 2° H07'20 8° H40'49 6° H28'06 5° H56'28 1° H02'30 29°≈59'57 0° H06'27 30° R≈ 23°≈57'39 22°≈28'35 26°≈54'29 0° H 13° H20'31 0° Y 6° Y27'31	1°10'28 1.39637 AU 24°07'39 0.68140 AU 1°33'03 1°32'26 20°19'22	minimum elong max. Earth dist. evening rise desc. node	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51 8101 Dec 08 01:39 8101 Dec 26 13:16	6°¾43'23 18°₰12'42 25°₰01'05 0°♂ 1°♂41'55 0°≈	1°28'47 1.37485 AU
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minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	8100 Dec 11 04:30 8100 Dec 14 21:52 8100 Dec 18 06:02 8100 Dec 21 04:37 8100 Dec 22 06:39 8101 Jan 01 22:10 8101 Jan 24 06:07 8101 Jan 26 07:10 8101 Feb 06 11:14 8101 Feb 11 18:39 8101 Feb 12 08:47 8101 Feb 17 06:15 8101 Feb 17 06:15 8101 Feb 17 06:14 8101 Feb 22 14:03 8101 Feb 26 13:01 8101 Mar 06 08:37 8101 Mar 09 04:47 8101 Mar 19 04:10 8101 Apr 13 04:43 8101 Apr 13 04:43 8101 Apr 19 07:27 8101 Apr 19 09:10 8101 May 01 22:38 8101 May 05 22:15	23°\$\tilde{\$706'30}\$ 0°\$\tilde{\$5\tilde{\$58'27}\$} 11°\$\tilde{\$54'41}\$ 0°\$\tilde{\$0'\$\tilde{\$5'\$}} 0°\$\tilde{\$40'720}\$ 8°\$\tilde{\$40'720}\$ 8°\$\tilde{\$40'720}\$ 8°\$\tilde{\$40'720}\$ 8°\$\tilde{\$40'720}\$ 8°\$\tilde{\$40'720}\$ 29°\$\tilde{\$5'\$}\tilde{\$5'\$}\tilde{\$5'\$}\tilde{\$5'28}\$ 1°\$\tilde{\$40'27}\$ 30°\$\tilde{\$28'\$}\tilde{\$30'857'39}\$ 22°\$\tilde{\$28'35\$} 26°\$\tilde{\$5'4'29}\$ 0°\$\tilde{\$13'\$}\tilde{\$42'9\$} 13°\$\tilde{\$42'9\$} 13°\$\tilde{\$42'9\$} 10°\$\tilde{\$41'17\$} 23°\$\tilde{\$41'17\$} 23°\$\tilde{\$40'12}\$ 0°\$\tilde{\$11'}\$	1°10'28 1.39637 AU 24°07'39 0.68140 AU 1°33'03 1°32'26 20°19'22 1.43726 AU -2°11'03	minimum elong max. Earth dist. evening rise desc. node	8101 Nov 24 12:23 8101 Nov 30 11:54 8101 Dec 04 05:36 8101 Dec 07 01:51 8101 Dec 08 01:39 8101 Dec 26 13:16	6°¾43'23 18°₰12'42 25°₰01'05 0°♂ 1°♂41'55 0°≈	1°28'47 1.37485 AU