	061034 07 06 50	00-			0615 4 00 21 26	006	
	8610 May 07 06:50	0° ≈			8615 Apr 08 21:36	0₀ ௐ	
retrograde	8610 May 31 07:28	3°≈09'27			8615 May 19 04:59	0 ° Ω	
desc. node	8610 Jun 10 08:00	2° ≈ 31'47			8615 Jun 29 07:24	0° m y	
	8610 Jun 22 15:57	30°Ŗる			8615 Aug 10 22:57	0∘ ত	
opposition	8610 Jul 10 04:51	23° る 50'28	-1°02'00		8615 Sep 24 09:09	0° M	
greatest brilliancy	8610 Jul 10 06:44	23° る 48'37	-1.3m	evening set	8615 Oct 17 08:26	15°M05'49	
min. Earth dist.	8610 Jul 12 20:45	22° る 47'49	0.67075 AU	C	8615 Nov 09 08:26	0° ∡ ¹	
direct	8610 Aug 20 19:57	13° る 48'06				• •	
direct	8610 Oct 19 07:16	0°≈		conjunction	8615 Dec 03 15:11	15° ∡ ³33'44	0°29'36
				•			
	8610 Dec 12 21:47	0°) €		minimum elong	8615 Dec 03 16:04	15° 🖈 35'09	0°29'47
	8611 Jan 27 05:21	0° Υ		max. Earth dist.	8615 Dec 09 18:45	19° ∡ 28'54	2.67193 AU
	8611 Mar 09 10:53	0°8			8615 Dec 26 07:46	0°ප	
	8611 Apr 17 10:33	Π $\circ 0$		morning rise	8616 Jan 17 02:22	13° る 48'00	
greatest brilliancy	8611 May 16 02:05	22° Ⅲ 35′10	1.2m	desc. node	8616 Jan 30 21:54	22° る 32'33	
asc. node	8611 May 17 15:38	23° Ⅱ 49'32			8616 Feb 11 16:49	0° ≈	
	8611 May 25 10:46	0ಂತಾ			8616 Mar 30 02:04	0° ∀	
evening set	8611 Jun 28 00:18	26° © 27'39			8616 May 16 11:33	0° Y	
5 · • • • • • • • • • • • • • • • • • •	8611 Jul 02 13:01	0°N			8616 Jul 03 09:55	0°8	
	8611 Aug 10 14:47	0° m			8616 Aug 22 20:45	0°II	
	6011 Aug 10 14.47	עווי ט			=	29° ∏ 35'21	
	0611.0 02.05.04	1.70 m. 2.212.4	1000122	retrograde	8616 Nov 12 10:46		1057106
conjunction	8611 Sep 03 05:04	17° m 32'34		opposition	8616 Dec 12 07:13	24° ∏ 40'17	
minimum elong	8611 Sep 03 03:03	17° m 28'53	1°00'29	greatest brilliancy	8616 Dec 12 12:07	24° Ⅲ 37′01	-3.0m
	8611 Sep 20 08:56	0∘ ⊽		min. Earth dist.	8616 Dec 13 11:42	24° Ⅱ 21′20	0.36726 AU
max. Earth dist.	8611 Oct 15 19:05	17° ≏ 58'39	2.49951 AU	asc. node	8617 Jan 06 18:01	19° ∏ 47'52	
morning rise	8611 Oct 31 21:18	29° £ 04'06		direct	8617 Jan 11 03:10	19° Ⅲ 39'58	
	8611 Nov 02 06:05	0°M			8617 Feb 21 22:09	0°ಅ	
	8611 Dec 17 11:14	0° ⊼ ¹			8617 Apr 17 02:14	$0^{\circ}\Omega$	
	8612 Feb 03 06:24	0°ප			8617 Jun 02 18:32	0° m)	
	8612 Mar 25 20:56	0° ≈			8617 Jul 18 18:17	0∘ ত 0°.	
44.						0° m	
desc. node	8612 Apr 27 05:30	16°≈43'39			8617 Sep 03 08:56		
	8612 May 28 14:47	0° ∀			8617 Oct 20 16:29	0° ∡	
retrograde	8612 Jul 08 08:22	8°) €08'24		evening set	8617 Nov 23 13:58	21° х 22'24	
	8612 Aug 14 14:21	30°R ≈			8617 Dec 07 05:48	8°0	
opposition	8612 Aug 15 04:27	29° ≈ 46'41	-3°43'36	desc. node	8617 Dec 17 19:54	6° る 41'55	
greatest brilliancy	8612 Aug 15 23:20	29° ≈ 28'50	-1.6m	max. Earth dist.	8617 Dec 31 02:01	15° る 06'46	2.67697 AU
min. Earth dist.	8612 Aug 21 13:17	27°≈22'07	0.60016 AU				
direct	8612 Sep 25 02:31	19° ≈ 57'01		conjunction	8618 Jan 07 06:32	19° る 41'24	-0°10'43
	8612 Nov 07 04:39	0° ∀		minimum elong	8618 Jan 07 06:12	19° る 40'53	0°10'32
	8613 Jan 01 08:21	0° Υ		behind sun begin	8618 Jan 06 16:07	19°る18'28	0 10 32
	8613 Feb 13 21:47	0° 8		behind sun end	8618 Jan 07 20:17	20° る 03'19	
	8613 Mar 25 18:57	$0^{\circ}\Pi$			8618 Jan 23 09:25	0° ≈	
asc. node	8613 Apr 03 17:18	6° Ⅱ 54'22		morning rise	8618 Feb 19 22:26	17° ≈ 47'39	
	8613 May 03 08:03	0			8618 Mar 10 14:13	0° ∀	
	8613 Jun 10 22:40	$0 {\circ} \Omega$			8618 Apr 24 13:19	0 ° Υ	
	8613 Jul 20 14:33	O° Mp			8618 Jun 07 05:23	$8^{\circ 0}$	
	8613 Aug 30 23:40	0∘ ⊽			8618 Jul 19 17:50	$\Pi^{\circ}0$	
evening set	8613 Aug 31 10:47	0° ჲ 19'40			8618 Aug 30 14:35	0°ಅ	
Č	8613 Oct 13 09:07	0°M.			8618 Oct 12 04:22	$0^{\circ}\Omega$	
				asc. node	8618 Nov 24 17:58	27° Ω 35'26	
conjunction	8613 Oct 24 14:54	7° M 33'17	1°00'44	use. noue	8618 Nov 29 03:16	0° m)	
minimum elong	8613 Oct 24 16:03	7°M35'11	1°00'51	retrograde	8619 Jan 22 07:42	עוי 0 17°11'21	
•				Č			0.44145.411
max. Earth dist.	8613 Nov 15 10:09	21°M59'00	2.61182 AU	min. Earth dist.	8619 Feb 18 07:06	12° Mp 12'02	0.44145 AU
	8613 Nov 27 17:06	0° ∡ 7		greatest brilliancy	8619 Feb 25 03:58	9° m 52'42	-2.5m
morning rise	8613 Dec 12 07:30	9° ∡ 25'39		opposition	8619 Feb 26 17:48	9° ™ 20'30	5°05'40
	8614 Jan 13 16:28	0°₹		direct	8619 Mar 30 18:30	2° My 57'32	
	8614 Mar 03 02:57	0° ≈			8619 Jun 18 15:46	0∘ ত	
desc. node	8614 Mar 15 01:46	7° ≈ 14'55			8619 Aug 11 08:29	0° M	
	8614 Apr 22 13:07	0°)			8619 Sep 30 18:43	0°⊀	
	8614 Jun 17 02:19	$0^{\circ}\mathbf{\Upsilon}$		desc. node	8619 Nov 04 19:50	21° ∡ *22'45	
retrograde	8614 Aug 29 02:21	22° Υ 16'19			8619 Nov 18 18:21	0°る	
opposition	8614 Oct 01 23:34	15° Υ 34'52	-5°45'46	evening set	8619 Dec 29 11:02	0 0 25° る 36'59	
greatest brilliancy	8614 Oct 01 23:34 8614 Oct 03 18:39	13° 7° 34° 32° 14° 97° 8° 14°		Storming Sot	8620 Jan 05 07:15	23 3 0 39 39 0 39	
				may Earth 3:-4			2 62720 411
min. Earth dist.	8614 Oct 10 15:14		0.47350 AU	max. Earth dist.	8620 Jan 23 16:02	11 ≈33.13	2.62729 AU
direct	0.014 NT 00 00 15	70000000					
direct	8614 Nov 08 02:15	7° Υ 22'21			0.00 8	0.50	0040:0:
	8615 Jan 12 02:18	0° 8		conjunction	8620 Feb 12 14:22	25° ≈ 00'30	
asc. node		0° ප 25° ප 01'16		conjunction minimum elong	8620 Feb 12 14:22 8620 Feb 12 13:13	24° ≈ 58'35	
	8615 Jan 12 02:18	0° 8		•			

morning rise	8620 Mar 29 23:21 8620 Apr 03 22:58 8620 May 15 23:43 8620 Jun 25 11:21 8620 Aug 03 22:08 8620 Sep 12 03:11	26°¥31'28 0°Y 0°8 0°I 0°© 0°Ω		desc. node opposition greatest brilliancy min. Earth dist. direct	8625 Jun 26 21:52 8625 Jun 27 00:09 8625 Jun 27 00:15 8625 Jun 28 04:36 8625 Aug 07 09:29 8625 Nov 01 03:16	11°♂07'19 11°♂05'04 11°♂04'58 10°♂36'56 1°♂08'23 0°≈	-0°00'12 -1.3m 0.68060 AU
asc. node	8620 Oct 11 15:06 8620 Oct 22 07:08 8620 Dec 04 13:53 8621 Jan 27 19:25	22°\Omega 10'06 0°\Omega 0°\Omega 0°\Omega 0°\Omega 9°\Omega 26'25			8625 Dec 21 19:19 8626 Feb 04 05:47 8626 Mar 17 05:34 8626 Apr 25 03:57	0°₩ 0°Ψ 0°₩ 0°Ш 26°Ш39'29	
retrograde min. Earth dist.	8621 Mar 08 23:30 8621 Apr 10 20:31	2°M10'42	0.57492 AU	evening set	8626 May 28 22:14 8626 Jun 02 03:22	26° П 39'29	
greatest brilliancy	8621 Apr 16 04:30	0°M06'04	-1.8m	asc. node	8626 Jun 03 09:04	0° 9 58'51	
greatest offinaley	8621 Apr 16 10:42	30°R ≏	-1.0111	asc. node	8626 Jul 10 03:46	0°Ω	
opposition	8621 Apr 17 05:23		4°45'42		0020 341 10 03.10	0 0 C	
direct	8621 May 23 22:54	21° ≏ 21'46		conjunction	8626 Aug 07 17:29	22° Ω 06'59	0°42'54
	8621 Jul 04 12:27	0°M₊		minimum elong	8626 Aug 07 14:12	22° Ω 00'42	0°42'44
	8621 Sep 06 06:55	0°⊀			8626 Aug 18 02:19	0° m	
desc. node	8621 Sep 21 20:56	8° ∡ ³34′26			8626 Sep 27 16:22	0∘ रु	
	8621 Oct 28 22:14	5°0		max. Earth dist.	8626 Sep 27 14:07	29° m 55'58	2.44425 AU
	8621 Dec 16 17:46	0° ≈		morning rise	8626 Oct 11 12:19	9° ჲ 53'08	
	8622 Jan 31 16:45	0° ∀			8626 Nov 09 10:37	0°M₊	
evening set	8622 Feb 04 20:06	2°) 47′22			8626 Dec 24 18:01	0° ∡	
max. Earth dist.	8622 Feb 20 08:54		2.52678 AU		8627 Feb 11 06:10	0° ප	
	8622 Mar 16 02:31	0° Y			8627 Apr 06 16:44	0°≈	
conjunction	8622 Mar 26 06:28	7° Υ 15'53	1907!17	desc. node	8627 May 14 19:32 8627 Jun 23 05:56	16°≈26'37 24°≈08'27	
minimum elong	8622 Mar 26 06:21	7° Υ 15'40		retrograde opposition	8627 Aug 01 01:41	24 ≈08 27 15°≈20'36	-2°41'28
minimum ciong	8622 Apr 26 07:38	0°8	1 0/1/	greatest brilliancy	8627 Aug 01 01:41 8627 Aug 01 11:56	15°≈10'44	
morning rise	8622 May 20 18:55	18° 8 26'55		min. Earth dist.	8627 Aug 06 00:36	13°≈26'00	0.63536 AU
	8622 Jun 04 20:30	0°II		direct	8627 Sep 11 12:19	5°≈19'53	
	8622 Jul 13 09:15	0°©			8627 Nov 24 22:21	0° ∀	
	8622 Aug 20 17:20	$0^{\circ}\Omega$			8628 Jan 12 16:24	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	8622 Aug 29 11:30	6° Ω 48′02			8628 Feb 23 21:52	9° 8	
	8622 Sep 28 18:53	0° т р			8628 Apr 03 07:01	$\Pi^{\circ}0$	
	8622 Nov 08 16:03	0ಂ ಹ		asc. node	8628 Apr 20 08:25	13° Ⅱ 20′02	
	8622 Dec 22 23:49	0°M₊			8628 May 11 12:57	0ංම	
	8623 Feb 13 08:37	0° ∡ ¹			8628 Jun 18 21:02	$0^{\circ}\Omega$	
retrograde	8623 Apr 14 14:49	17°×729'08	0.66000 ATT		8628 Jul 28 05:54	0° M)	
min. Earth dist.	8623 May 22 11:45	8° ∡ 34'02 7° ∡ 31'29	0.66000 AU 2°33'39	evening set	8628 Aug 08 13:34	8° ™ 24'38 0° ≏	
opposition greatest brilliancy	8623 May 25 02:29 8623 May 24 21:09	7° × ³ 1 29	2 33 39 -1.4m		8628 Sep 07 07:35	0 ==	
greatest orimancy	8623 Jun 16 18:30	30°RM	-1,4111	conjunction	8628 Oct 06 06:13	20° £ 17'45	1°06'21
direct	8623 Jul 03 21:05	28°ML07'40		minimum elong	8628 Oct 06 06:39	20° ⊆ 17'43	1°06'25
	8623 Jul 22 05:33	0° ∡ 7			8628 Oct 20 10:37	0° M	
desc. node	8623 Aug 09 22:13	4° ₹ '58'23		max. Earth dist.	8628 Nov 04 11:19	10°ML07'34	2.57354 AU
	8623 Oct 05 03:28	5°0		morning rise	8628 Nov 26 23:34	25°ML00'27	
	8623 Nov 26 15:54	0° ≈			8628 Dec 04 15:24	0° ∡	
	8624 Jan 12 16:09	0° ∀			8629 Jan 20 18:57	0°₹	
_	8624 Feb 25 03:29	0° Υ			8629 Mar 11 00:54	0° ≈	
evening set	8624 Mar 23 08:08	19° Ƴ 47'18		desc. node	8629 Mar 31 16:32	12°≈04'06	
	8624 Apr 06 00:03	0° 8	2 20429 ATT		8629 May 02 23:39	0° ℋ 0° Ƴ	
max. Earth dist.	8624 Apr 13 13:17 8624 May 15 01:18	5° 8 42'48 0° Ⅱ	2.39438 AU	retrograde	8629 Jul 12 05:04 8629 Aug 06 15:23	0° γ 3° Υ 28'58	
	8024 May 13 01.18	υщ		renograde	8629 Aug 30 05:49	3 1 2 6 3 6 30°R ∺	
conjunction	8624 May 23 05:27	6° Ⅲ 23'51	-0°36'56	opposition	8629 Sep 11 07:27	26° ₩ 01'27	-5°11'27
minimum elong	8624 May 23 08:21	6° Ⅱ 29'32		greatest brilliancy	8629 Sep 12 18:53	25° H 29'31	
3	8624 Jun 22 03:35	0ಂ ತಾ		min. Earth dist.	8629 Sep 19 11:35	23°) €05'06	0.52784 AU
asc. node	8624 Jul 16 10:07	19° © 11'17		direct	8629 Oct 20 10:23	16°) € 54'47	
	8624 Jul 30 04:08	$0^{\circ}\Omega$			8629 Dec 07 16:50	$0^{\circ}\mathbf{\Upsilon}$	
morning rise	8624 Aug 03 05:06	3° Ω 09'44			8630 Jan 27 10:10	9° 8	
	8624 Sep 06 23:55	0° mp		asc. node	8630 Mar 08 09:56	28° 8 34'29	
	8624 Oct 17 10:50	0∘ 亚			8630 Mar 10 07:53	0° Ⅱ	
	8624 Nov 29 08:47	0°M₊ 0°. 7			8630 Apr 18 21:29	0.ಲ 0.ಲ	
	8625 Jan 14 21:18 8625 Mar 09 14:52	0°る			8630 May 28 06:15	0° Ω 0° ™	
retrograde	8625 May 17 16:58	0°る 20°る39'12			8630 Jul 07 14:46 8630 Aug 18 15:13	0 ்⊽ ∩ூili	
renograde	3023 Iviay 1 / 10.38	20 039 12			5050 Aug 16 15.15	v ==	

evening set	8630 Sep 30 14:27	29° ჲ 21'29			8635 Aug 13 21:52	0° ©	
844	8630 Oct 01 13:29	0°M			8635 Sep 22 19:53	$0^{\circ}\Omega$	
	8630 Nov 16 04:57	0° ∡ ¹		asc. node	8635 Oct 29 08:53	26° Ω 38'32	
					8635 Nov 03 03:25	0° m y	
conjunction	8630 Nov 18 21:41	1° ∡ ¹44'37	0°43'34		8635 Dec 19 19:05	0∘ ⊽	
minimum elong	8630 Nov 18 22:53	1° ∡ ¹46′34	0°43'45	retrograde	8636 Feb 21 15:27	21° ≏ 47'07	
max. Earth dist.	8630 Nov 30 18:59	9° ∡ 123′55	2.65498 AU	min. Earth dist.	8636 Mar 23 03:37	15° ≏ 22'24	0.52619 AU
	8631 Jan 02 02:27	ರ∘ರ		greatest brilliancy	8636 Mar 29 10:00	13° ≏ 00'43	-2.0m
morning rise	8631 Jan 03 12:56	0°る54'39		opposition	8636 Mar 30 19:43	12° ≏ 28'46	5°18'43
desc. node	8631 Feb 16 13:24	28° る 37'34		direct	8636 May 04 22:40	4° ≏ 46'38	
	8631 Feb 18 18:05	0° ≈			8636 Jul 22 10:36	0°M	
	8631 Apr 07 23:20	0° ∀			8636 Sep 15 19:36	0° ∡	
	8631 May 27 05:20	$0^{\circ}\mathbf{\Upsilon}$		desc. node	8636 Oct 08 09:53	13° ∡ 08'15	
	8631 Jul 18 14:13	0°8			8636 Nov 05 13:54	0°ප	
retrograde	8631 Oct 11 18:44	29° 8 43'58			8636 Dec 23 18:22	0° ≈	
opposition	8631 Nov 11 12:18	24° 8 24'36		evening set	8637 Jan 20 06:45	17° ≈ 49'27	
greatest brilliancy	8631 Nov 12 18:41	24° 8 02'45			8637 Feb 07 14:27	0°) {	
min. Earth dist.	8631 Nov 17 19:41		0.39432 AU	max. Earth dist.	8637 Feb 08 02:55	0° ∺ 20'56	2.57188 AU
direct	8631 Dec 14 00:44	18° 8 19'24			062734 00 00 24	1001/20120	1002120
asc. node	8632 Jan 24 11:08	28° 8 51'06		conjunction	8637 Mar 08 09:24	19°) (39′29	
	8632 Jan 26 22:35	0°¶ 0°¶		minimum elong	8637 Mar 08 08:30	19° ¥ 37'56 0° Ƴ	1 03 26
	8632 Mar 18 02:13 8632 May 01 01:55	0° U		morning rise	8637 Mar 23 03:50 8637 Apr 28 04:00	25° Υ '57'20	
	8632 Jun 13 09:12	0°mp		morning rise	8637 May 03 15:42	0° 8	
	8632 Jul 27 13:33	0∘ ʊ			8637 Jun 12 12:19	0°U	
	8632 Sep 11 01:52	0° ™			8637 Jul 21 08:06	0 .ಪ	
	8632 Oct 27 17:45	0° ⊼ ¹			8637 Aug 28 21:55	0°N	
evening set	8632 Nov 09 06:15	7° × 757'59		asc. node	8637 Sep 15 06:48	13° Ω 22'34	
e venning sec	8632 Dec 13 23:55	0° る		use. noue	8637 Oct 07 05:23	0° my	
max. Earth dist.	8632 Dec 22 08:36		2.68166 AU		8637 Nov 17 13:47	0∘ <u>v</u>	
					8638 Jan 02 09:37	0°M	
conjunction	8632 Dec 24 13:40	6° る 42'20	0°05'13		8638 Mar 06 16:52	0° ∡ ¹	
minimum elong	8632 Dec 24 13:50	6°₹42'36	0°05'25	retrograde	8638 Apr 01 00:08	3° х 50′06	
behind sun begin	8632 Dec 23 20:14	6° ප 14'42			8638 Apr 24 15:25	30°₽MJ	
behind sun end	8632 Dec 25 07:26	7° る 10′29		min. Earth dist.	8638 May 07 02:00	25°M29'16	0.63393 AU
desc. node	8633 Jan 03 10:18	12° る 57'52		opposition	8638 May 11 04:39	23°M51'08	3°29'14
	8633 Jan 30 04:01	0° ≈		greatest brilliancy	8638 May 10 16:58	24°M02'45	-1.5m
morning rise	8633 Feb 06 04:09	4° ≈ 28'59		direct	8638 Jun 18 22:31	14° M 47'52	
	8633 Mar 17 17:15	0° ℋ			8638 Aug 16 15:11	0° ∡ ¹	
	8633 May 02 09:32	0°Υ		desc. node	8638 Aug 26 11:01	4° ∡ °23'39	
	8633 Jun 16 04:25	0°8			8638 Oct 14 20:27	0°る	
	8633 Jul 30 07:51	$\Pi^{\circ}0$			8638 Dec 04 10:25	0° ≈	
	8633 Sep 12 17:17	0°©			8639 Jan 19 21:47	0° ∀	
1	8633 Oct 31 01:09	0° Ω		evening set	8639 Mar 04 04:20	29° ¥ 54'27 0° Ƴ	
asc. node	8633 Dec 11 09:53	17° Ω 29'27		E 41 11 4	8639 Mar 04 07:27		2 44655 ATT
retrograde	8633 Dec 29 12:23 8634 Jan 24 12:51	19° Ω 46'20	0.39342 AU	max. Earth dist.	8639 Mar 18 03:17 8639 Apr 14 06:37	9° Y 57'06 0° と	2.44655 AU
min. Earth dist. greatest brilliancy	8634 Jan 30 06:45	13° Ω 39'23	-2.8m		8039 Apr 14 00.37	0.0	
opposition	8634 Jan 31 05:34	$13^{\circ} \Omega 22'07$	3°29'22	conjunction	8639 Apr 28 11:44	10° 8 44'49	-0°57'20
direct	8634 Mar 02 10:06	$7^{\circ}\Omega_{55'43}$	J 44 44	minimum elong	8639 Apr 28 13:53	10° 8 48'55	
ancet	8634 May 09 19:30	0°m/		minimum crong	8639 May 23 11:50	0°Ⅱ	0 37 20
	8634 Jul 02 00:02	0∘ ಹ			8639 Jun 30 17:34	0°50	
	8634 Aug 20 14:48	0° M		morning rise	8639 Jul 03 10:45	2° © 08'34	
	8634 Oct 08 10:58	0° ∡ 7		asc. node	8639 Aug 03 03:02	26°9518'22	
desc. node	8634 Nov 21 09:13	27° ҂ 16'07			8639 Aug 07 20:11	$0^{\circ}\Omega$	
	8634 Nov 25 17:56	8°0			8639 Sep 15 16:52	0° ™	
evening set	8634 Dec 15 11:01	12° る 24'08			8639 Oct 26 05:10	0∘ ⊽	
	8635 Jan 12 01:43	0° ≈			8639 Dec 08 09:46	0° M	
max. Earth dist.	8635 Jan 14 06:32	1° ≈ 24'57	2.65338 AU		8640 Jan 25 02:01	0° ∡ 7	
					8640 Mar 25 16:55	0°る	
					0.0103.001.004		
conjunction	8635 Jan 29 01:03	10° ≈ 58′28	-0°34'42	retrograde	8640 May 04 10:31	8° る 09'56	
conjunction minimum elong	8635 Jan 29 00:06	10° ≈ 56'55			8640 Jun 09 21:24	30°₹ ⋌ ¹	
minimum elong	8635 Jan 29 00:06 8635 Feb 26 23:15	10° ≈ 56'55 0° 米		opposition	8640 Jun 09 21:24 8640 Jun 13 22:42	30°R ₹ 28° ₹ 23'49	1°00'33
·	8635 Jan 29 00:06 8635 Feb 26 23:15 8635 Mar 14 19:50	10°≈56'55 0°¥ 10°¥37'19		opposition greatest brilliancy	8640 Jun 09 21:24 8640 Jun 13 22:42 8640 Jun 13 22:42	30°R ✓ 28° ✓ 23'49 28° ✓ 23'49	-1.3m
minimum elong	8635 Jan 29 00:06 8635 Feb 26 23:15 8635 Mar 14 19:50 8635 Apr 12 04:46	10°≈56'55 0° X 10° X 37'19 0° Υ		opposition greatest brilliancy min. Earth dist.	8640 Jun 09 21:24 8640 Jun 13 22:42 8640 Jun 13 22:42 8640 Jun 13 15:21	30°R. ✓ 28° ✓ 23'49 28° ✓ 23'49 28° ✓ 31'07	
minimum elong	8635 Jan 29 00:06 8635 Feb 26 23:15 8635 Mar 14 19:50	10°≈56'55 0°¥ 10°¥37'19		opposition greatest brilliancy	8640 Jun 09 21:24 8640 Jun 13 22:42 8640 Jun 13 22:42	30°R ✓ 28° ✓ 23'49 28° ✓ 23'49	-1.3m

	8640 Sep 12 05:40 8640 Nov 11 06:58	ರ್ š0		evening set	8645 Sep 12 00:37 8645 Oct 08 15:50	11° ഛ 48'27 0° ጤ	
	8640 Dec 29 23:31 8641 Feb 11 21:47	0° ℋ 0° Ƴ		conjunction	8645 Nov 03 04:06	16° M 59'54	0°55'21
	8641 Mar 24 18:55	9° 8		minimum elong	8645 Nov 03 05:23	17° M 01'59	0°55'30
evening set	8641 Apr 30 08:16	28° 8 07'57		max. Earth dist.	8645 Nov 21 05:07	28°M48'17	2.62949 AU
	8641 May 02 17:32	0° I I			8645 Nov 23 01:17	0° ∡ ¹	
	8641 Jun 09 17:14	0.2 0.2		morning rise	8645 Dec 20 13:38	17° ∡ 42′02	
asc. node	8641 Jun 20 01:02	8° © 11'10			8646 Jan 08 22:51	5°0	
	0641 1 1 00 22 44	220500126	0012127	1 1	8646 Feb 26 00:45	0° ≈ 4° ≈ 23'11	
conjunction minimum elong	8641 Jul 08 23:44 8641 Jul 08 22:15	23°509'26 23°506'30	0°13'37 0°13'24	desc. node	8646 Mar 05 03:53	4°≈23°11 0° ∺	
behind sun begin	8641 Jul 08 05:02	23 \$300 30 22°\$32'36	0 13 24		8646 Apr 16 11:22 8646 Jun 07 21:10	0° Υ	
behind sun end	8641 Jul 09 15:28	23° © 40'24			8646 Aug 13 16:23	%8 0.8	
ociniia sun cha	8641 Jul 17 16:45	0°Ω		retrograde	8646 Sep 12 09:37	4° 8 48'19	
	8641 Aug 25 13:12	0° m)		renograde	8646 Oct 10 19:33	30° R Υ	
max. Earth dist.	8641 Aug 29 04:07	2° m 44'31	2.38966 AU	opposition	8646 Oct 15 05:53	28° Ƴ 36'01	-5°46'59
morning rise	8641 Sep 17 17:07	17° m) 20'47		greatest brilliancy	8646 Oct 17 01:17	28° Ƴ 00'55	-2.4m
	8641 Oct 05 00:41	0∘ ⊽		min. Earth dist.	8646 Oct 23 17:09	25° Y ′53′10	0.44292 AU
	8641 Nov 16 18:03	0° M		direct	8646 Nov 19 20:57	21° Y 04'30	
	8642 Jan 01 07:32	0° ∡ ″			8646 Dec 27 17:41	0° 8	
	8642 Feb 19 23:30	0° ප		asc. node	8647 Feb 10 02:37	24° 8 39'47	
	8642 Apr 21 08:08	0° ≈			8647 Feb 18 05:06	Π°	
desc. node	8642 May 31 10:21	10° ≈ 36′04			8647 Apr 01 21:44	0 _ං වෙ	
retrograde	8642 Jun 08 10:09	10°≈58'33			8647 May 13 00:52	0° N	
opposition	8642 Jul 17 23:36	1°≈49'39			8647 Jun 23 16:42	0° m)	
greatest brilliancy	8642 Jul 18 03:45	1°≈45'36			8647 Aug 05 18:20	0∘ ⊮ 0∘ 亚	
min. Earth dist.	8642 Jul 21 11:06 8642 Jul 22 16:06	0°≈28'08 30°Rठ	0.66084 AU	evening set	8647 Sep 19 11:58 8647 Oct 26 07:50	23°M59'19	
direct	8642 Aug 28 14:33	21°る46'16		evening set	8647 Nov 04 16:01	23 116 39 19 0° √	
uncet	8642 Oct 07 13:59	21° ⊙ 40 10			804/ NOV 04 10.01	0 ^	
	8642 Dec 06 11:17	0°) €		conjunction	8647 Dec 11 17:48	23° х 40'01	0°20'48
	8643 Jan 21 17:42	0° Υ		minimum elong	8647 Dec 11 18:26	23° х 41'02	0°21'01
	8643 Mar 04 06:46	0°8		max. Earth dist.	8647 Dec 14 20:24	25° ∡ ³38'30	2.67785 AU
	8643 Apr 12 09:42	$\Pi^{\circ}0$			8647 Dec 21 17:07	5°0	
asc. node	8643 May 08 01:25	20° Ⅱ 10'37		desc. node	8648 Jan 21 00:24	19° る 13'29	
	8643 May 20 11:40	0 \circ \odot		morning rise	8648 Jan 24 18:09	21° る 35'55	
	8643 Jun 27 15:17	0 $^{\circ}$ Ω			8648 Feb 06 23:40	0° ≈	
evening set	8643 Jul 14 05:07	12° Ω 49'58			8648 Mar 25 00:44	0° ∺	
	8643 Aug 05 18:36	0° т р			8648 May 10 17:00	0°Υ'	
	8643 Sep 15 14:10	0∘ ⊽			8648 Jun 26 05:18	0° B	
	0642 8 16 00-14	00 0 24111	1905117		8648 Aug 12 09:47	0° I 0° ©	
conjunction minimum elong	8643 Sep 16 09:14 8643 Sep 16 08:16	0° ჲ 34'11 0° ჲ 32'26	1°05'17 1°05'16	retrograde	8648 Oct 03 00:14 8648 Nov 30 16:04	୦°୭ 18°907'31	
max. Earth dist.	8643 Oct 24 01:55	0 = 32 20 26° £ 58'49		asc. node	8648 Dec 28 03:59	13°9641'52	
max. Larm dist.	8643 Oct 28 12:01	0°M	2.32137 AO	min. Earth dist.	8648 Dec 28 18:00	13°932'32	0.36697 AU
morning rise	8643 Nov 11 05:35	9° M 17'05		opposition	8648 Dec 30 21:00	12°958'27	0°12'40
8	8643 Dec 12 15:32	0° ∡ 7		greatest brilliancy	8648 Dec 30 20:27	12°958'50	-3.1m
	8644 Jan 29 02:50	ರ°0		direct	8649 Jan 29 01:42	8°906'14	
	8644 Mar 19 14:40	0° ≈			8649 Apr 05 05:15	$0^{\circ}\Omega$	
desc. node	8644 Apr 17 07:41	15° ≈ 45′00			8649 May 26 01:18	0° m ∕	
	8644 May 16 08:15	0° ∀			8649 Jul 12 15:02	0∘ ⊽	
retrograde	8644 Jul 18 08:01	17° ∺ 10′08			8649 Aug 29 01:02	0° M ₊	
opposition	8644 Aug 24 11:15	9° ₩ 05'45			8649 Oct 15 19:20	0° ∡ ¹	
greatest brilliancy	8644 Aug 25 11:58	8°) (42'39		evening set	8649 Dec 01 14:40	29° ∡ 22'56	
min. Earth dist.	8644 Aug 31 13:14	6° ¥ 27'04	0.57640 AU	desc. node	8649 Dec 02 14:12 8649 Dec 07 22:03	0°る 3°る21'40	
direct	8644 Sep 24 21:25 8644 Oct 03 20:59	30°R≈ 29°≈27'02		max. Earth dist.	8650 Jan 05 04:41		2.67090 AU
direct	8644 Oct 13 01:03	29 ≈ 2702 0° H		max. Earm uist.	5050 jan 05 04.41	21 U 1/33	4.07090 AU
	8644 Dec 24 15:02	0° Υ		conjunction	8650 Jan 15 03:10	27° る 39'12	-0°19'51
	8645 Feb 07 16:07	0°8		minimum elong	8650 Jan 15 02:36	27° ප 38'16	
	8645 Mar 20 01:56	0°II		3	8650 Jan 18 18:58	0° ≈	
asc. node	8645 Mar 25 01:15	3° Ⅱ 48'13		morning rise	8650 Feb 28 00:35	26° ≈ 08'31	
	8645 Apr 27 21:48	0ಂತ			8650 Mar 05 20:59	0° ∀	
	8645 Jun 05 17:22	0 $^{\circ}$ Ω			8650 Apr 19 13:23	$0^{\circ}\Upsilon$	
	8645 Jul 15 13:52	0° m p			8650 Jun 01 18:46	0° 8	
	8645 Aug 26 03:07	0∘ ⊽			8650 Jul 13 17:00	Π °0	

	8650 Aug 23 18:33	0°©			8656 Jan 07 16:16	0°) €	
	8650 Oct 04 00:26	0°Ω			8656 Feb 20 07:34	0°Υ	
asc. node	8650 Nov 15 02:20	28° Ω 45'02			8656 Apr 01 04:36	0°8	
use. Houe	8650 Nov 17 01:32	0°m		evening set	8656 Apr 05 02:52	2° 8 58'04	
	8651 Jan 22 00:09	0∘ ⊽		evening sec	8656 May 10 05:08	0°II	
retrograde	8651 Feb 03 02:38	1° ≏ 02'41		max. Earth dist.	8656 May 13 10:20		2.37133 AU
	8651 Feb 14 23:02	30°R, Mp					
min. Earth dist.	8651 Mar 03 04:35	25° m 34'06	0.47177 AU	conjunction	8656 Jun 08 11:27	23° II 02'08	-0°20'10
greatest brilliancy	8651 Mar 10 01:14	23° m 08'11	-2.3m	minimum elong	8656 Jun 08 13:29	23° Ⅱ 06′10	0°20'22
opposition	8651 Mar 11 16:10	22° m 33'25	5°24'39	_	8656 Jun 17 06:36	0°€	
direct	8651 Apr 13 21:18	15° m 39'39		asc. node	8656 Jul 06 17:43	15° 5 24'21	
	8651 Jun 07 05:11	0∘ ত			8656 Jul 25 06:30	$0^{\circ}\Omega$	
	8651 Aug 04 15:12	0° M		morning rise	8656 Aug 20 15:35	20° Ω 29'52	
	8651 Sep 25 08:52	0°⊀			8656 Sep 02 01:53	0°Щ	
desc. node	8651 Oct 25 22:13	18° ∡ ¹22'59			8656 Oct 12 11:57	0∘ ⊽	
	8651 Nov 13 21:33	0°₹			8656 Nov 24 06:18	0°M₊	
	8651 Dec 31 15:38	0° ≈			8657 Jan 09 06:48	0°⊀	
evening set	8652 Jan 06 14:30	3° ≈ 49′26			8657 Mar 01 22:28	0°ಕ	
max. Earth dist.	8652 Jan 29 10:45	18° ≈ 41'59	2.60975 AU	retrograde	8657 May 25 10:51	28° る 17'34	
	8652 Feb 15 11:09	0° ∀		desc. node	8657 Jun 17 00:21	25° る 03'13	
		>/		opposition	8657 Jul 04 12:46	18°る51'26	
conjunction	8652 Feb 21 06:15	3°) ₹53'35		greatest brilliancy	8657 Jul 04 13:34	18°る50'40	-1.3m
minimum elong	8652 Feb 21 05:04	3° 米 51'37 0° Υ	0°54'40	min. Earth dist.	8657 Jul 06 12:44	18° る 04'11	0.67638 AU
marning rise	8652 Mar 30 05:41	0°Υ 6°Υ47'37		direct	8657 Aug 15 01:26 8657 Oct 24 07:22	8°る51'01 0°≈	
morning rise	8652 Apr 08 20:54 8652 May 11 01:50	0 14/3/ 0° と			8657 Dec 16 01:49	0 ≈ 0° ∀	
	8652 Jun 20 07:48	0°II			8658 Jan 30 01:28	0°Υ	
	8652 Jul 29 12:33	0°©			8658 Mar 12 05:25	0°8	
	8652 Sep 06 10:43	0°Ω			8658 Apr 20 05:06	0°II	
asc. node	8652 Oct 01 23:09	19° Ω 23'51		asc. node	8658 May 24 16:34	27° I I12'38	
use. Houe	8652 Oct 16 04:37	0°m		use. Hode	8658 May 28 05:02	0°95	
	8652 Nov 27 11:16	0∘ ⊽		evening set	8658 Jun 14 22:11	14° © 01'22	
	8653 Jan 15 17:08	0°M		<i>3</i>	8658 Jul 05 05:53	$0^{\circ}\Omega$	
retrograde	8653 Mar 17 15:47	19° M 02'39			8658 Aug 13 05:18	0° m)	
min. Earth dist.	8653 Apr 20 17:57	11°M21'33	0.59851 AU		C	•	
greatest brilliancy	8653 Apr 25 11:49	9°M29'23	-1.6m	conjunction	8658 Aug 23 04:27	7° m 29'16	0°54'32
opposition	8653 Apr 26 07:37	9° M 09'50	4°20'13	minimum elong	8658 Aug 23 01:40	7° m 24'05	0°54'26
direct	8653 Jun 02 19:31	0°M32'32			8658 Sep 22 20:25	0∘ ⊽	
	8653 Aug 30 03:01	0° ∡ ¹		max. Earth dist.	8658 Oct 08 18:09	110.0.20154	2.47541 AU
desc. node				man. Bartii dibt.		11 == 20 34	2.4/341 AU
desc. Hode	8653 Sep 11 23:54	6° ∡ ¹43'42		morning rise	8658 Oct 23 10:35	21° £ 37'26	2.4/341 AU
dese. Hode	8653 Sep 11 23:54 8653 Oct 23 11:21	6° ҂ 43'42 0° ठ			8658 Oct 23 10:35 8658 Nov 04 14:41	21° ≏ 37'26 0° ™	2.47341 AU
desc. Hode	•	ි ම°≅			8658 Oct 23 10:35	21° Ω 37′26 0° M 0° x ⁷	2.47341 AU
	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37	0°ಕ 0°≈ 0°¥			8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58	21° ユ 37'26 0° ル 0° メ 0°る	2.4/341 AU
evening set	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46	0°る 0°≈ 0°米 12°¥25'37		morning rise	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55	21° ♀ 37'26 0°ጤ 0°♂ 0°♂ 0°♂	2.4/341 AU
	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13	0°る 0°≈ 0°¥ 12°¥25'37 22°¥21'47	2.49949 AU		8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06	21° ೨ 37′26 0° ル 0° メ 0° モ 0°≈ 17°≈23′38	2.47341 AU
evening set	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46	0°る 0°≈ 0°米 12°¥25'37	2.49949 AU	morning rise desc. node	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54	21° \$\times 37'26 0° \$\mathbb{M}\$ 0° \$\mathscr{A}\$ 0° \$\mathscr{B}\$ 0° \$\infty\$ 17° \$\approx 23'38 0° \$\mathscr{H}\$	2.47341 AU
evening set max. Earth dist.	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55	0°ጜ 0°≈ 0°ዝ 12°H25'37 22°H21'47 0°Υ		morning rise	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51	21° ೨ 37'26 0° ル 0° メ 0° ♂ 0° ※ 17° ≈ 23'38 0° 米 2° 米 29'42	2.47941 AU
evening set max. Earth dist.	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55	0°₹ 0°≈ 0°¥ 12°¥25'37 22°¥21'47 0°Υ	-1°06'21	morning rise desc. node retrograde	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51 8659 Jul 22 04:33	21° ೨ 37'26 0° ル 0° メ 0° ス 0° ス 0° ス 0° ス 0° ス 0° ス 0° ス 0° ス 2° メ 29'42 30°R≈	
evening set max. Earth dist.	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55 8654 Apr 06 10:25 8654 Apr 06 11:02	0°δ 0°≈ 0°₩ 12°₩25'37 22°₩21'47 0°Ψ 18°Ψ48'04 18°Ψ49'11	-1°06'21	morning rise desc. node retrograde opposition	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51 8659 Jul 22 04:33 8659 Aug 09 12:54	21° \$\sim 37'26\$ 0° \$\mathbb{M}\$ 0° \$\tilde{\sigma}\$ 0° \$\tilde{\sigma}\$ 0° \$\tilde{\sigma}\$ 17° \$\approx 23'38\$ 0° \$\tilde{\sigma}\$ 2° \$\tilde{\sigma}\$29'42 30° \$\tilde{\sigma}\$ 23° \$\approx 55'35	-3°17'37
evening set max. Earth dist.	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55 8654 Apr 06 10:25 8654 Apr 06 11:02 8654 Apr 21 13:25	0°δ 0°≈ 0°₩ 12°₩25'37 22°₩21'47 0°Ψ 18°Ψ48'04 18°Ψ49'11 0°႘	-1°06'21	desc. node retrograde opposition greatest brilliancy	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51 8659 Jul 02 04:33 8659 Aug 09 12:54 8659 Aug 10 03:45	21°至37'26 0°肌 0°水 0°る 0°≈ 17°≈23'38 0°升 2°升29'42 30°R≈ 23°≈55'35 23°≈41'23	-3°17'37 -1.5m
evening set max. Earth dist. conjunction minimum elong	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55 8654 Apr 06 10:25 8654 Apr 06 11:02 8654 Apr 21 13:25 8654 May 30 23:51	0°♂ 0°≈ 0°¥ 12°¥25'37 22°¥21'47 0°Y 18°Y48'04 18°Y49'11 0°¥ 0°Ⅱ	-1°06'21	desc. node retrograde opposition greatest brilliancy min. Earth dist.	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51 8659 Jul 02 04:33 8659 Aug 09 12:54 8659 Aug 10 03:45 8659 Aug 15 06:22	21°至37'26 0°M 0°ズ 0°る 0°る 17°≈23'38 0°升 2°升29'42 30°R≈ 23°≈55'35 23°≈41'23 21°≈44'10	-3°17'37
evening set max. Earth dist.	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55 8654 Apr 06 10:25 8654 Apr 06 11:02 8654 Apr 21 13:25 8654 May 30 23:51 8654 Jun 04 07:13	0°₹ 0°≈ 0°¥ 12°¥25'37 22°¥21'47 0°Υ 18°Υ48'04 18°Υ49'11 0° 8 0°Ⅱ 3°Ⅱ20'02	-1°06'21	desc. node retrograde opposition greatest brilliancy	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51 8659 Jul 22 04:33 8659 Aug 09 12:54 8659 Aug 10 03:45 8659 Aug 15 06:22 8659 Sep 19 17:10	21°至37'26 0°肌 0°ズ 0°ጜ 0°ጜ 17°≈23'38 0°升 2°升29'42 30°R≈ 23°≈55'35 23°≈41'23 21°≈44'10 13°≈59'35	-3°17'37 -1.5m
evening set max. Earth dist. conjunction minimum elong	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55 8654 Apr 06 10:25 8654 Apr 06 11:02 8654 Apr 21 13:25 8654 May 30 23:51 8654 Jun 04 07:13 8654 Jul 08 10:06	0°♂ 0°≈ 0°¥ 12°¥25'37 22°¥21'47 0°¥ 18°¥48'04 18°¥49'11 0°¥ 0°Ⅱ 3°Ⅱ20'02 0°孪	-1°06'21	desc. node retrograde opposition greatest brilliancy min. Earth dist.	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51 8659 Jul 22 04:33 8659 Aug 09 12:54 8659 Aug 10 03:45 8659 Aug 15 06:22 8659 Sep 19 17:10 8659 Nov 15 13:24	21°至37'26 0°M 0°ボ 0°ボ 0°る 0°≈ 17°≈23'38 0°升 2°升29'42 30°R≈ 23°≈55'35 23°≈41'23 21°≈44'10 13°≈59'35 0°升	-3°17'37 -1.5m
evening set max. Earth dist. conjunction minimum elong morning rise	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55 8654 Apr 06 10:25 8654 Apr 06 11:02 8654 Apr 21 13:25 8654 May 30 23:51 8654 Jun 04 07:13 8654 Jul 08 10:06 8654 Aug 15 15:39	0°₹ 0°≈ 0°¥ 12°¥25'37 22°¥21'47 0°¥ 18°Y48'04 18°Y49'11 0°₩ 0°Ⅲ 3°Ⅲ20'02 0°%	-1°06'21	desc. node retrograde opposition greatest brilliancy min. Earth dist.	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51 8659 Jul 22 04:33 8659 Aug 09 12:54 8659 Aug 10 03:45 8659 Aug 15 06:22 8659 Sep 19 17:10 8659 Nov 15 13:24 8660 Jan 06 07:51	21°至37'26 0°M 0°ズ 0°云 0°云 0°云 0°云 17°≈23'38 0°升 2°升29'42 30°R≈ 23°≈55'35 23°≈41'23 21°≈44'10 13°≈59'35 0°升 0°Y	-3°17'37 -1.5m
evening set max. Earth dist. conjunction minimum elong	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55 8654 Apr 06 10:25 8654 Apr 06 11:02 8654 Apr 21 13:25 8654 May 30 23:51 8654 Jun 04 07:13 8654 Jul 08 10:06 8654 Aug 15 15:39 8654 Aug 19 21:00	0°♂ 0°≈ 0°¥ 12°¥25'37 22°¥21'47 0°¥ 18°¥48'04 18°¥49'11 0°¥ 0°Ⅱ 3°Ⅱ20'02 0°孪	-1°06'21	desc. node retrograde opposition greatest brilliancy min. Earth dist.	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51 8659 Jul 22 04:33 8659 Aug 09 12:54 8659 Aug 10 03:45 8659 Aug 15 06:22 8659 Sep 19 17:10 8659 Nov 15 13:24	21°至37'26 0°爪 0°ズ 0°云 0°云 0°≈ 17°≈23'38 0°升 2°升29'42 30°R≈ 23°≈55'35 23°≈41'23 21°≈44'10 13°≈59'35 0°升 0°Y 0°႘	-3°17'37 -1.5m
evening set max. Earth dist. conjunction minimum elong morning rise	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55 8654 Apr 06 10:25 8654 Apr 06 11:02 8654 Apr 21 13:25 8654 May 30 23:51 8654 Jun 04 07:13 8654 Jul 08 10:06 8654 Aug 15 15:39	0°ጜ 0°ኡ 12°升25'37 22°升21'47 0°Υ 18°Ƴ48'04 18°Ƴ49'11 0°႘ 0°Ⅱ 3°Ⅱ20'02 0°邱 0°ብ 3°ብ17'35	-1°06'21	desc. node retrograde opposition greatest brilliancy min. Earth dist.	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51 8659 Jul 22 04:33 8659 Aug 09 12:54 8659 Aug 10 03:45 8659 Aug 15 06:22 8659 Sep 19 17:10 8659 Nov 15 13:24 8660 Jan 06 07:51 8660 Feb 18 07:02	21°至37'26 0°M 0°ズ 0°云 0°云 0°云 0°云 17°≈23'38 0°升 2°升29'42 30°R≈ 23°≈55'35 23°≈41'23 21°≈44'10 13°≈59'35 0°升 0°Y	-3°17'37 -1.5m
evening set max. Earth dist. conjunction minimum elong morning rise	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55 8654 Apr 06 10:25 8654 Apr 06 11:02 8654 Apr 21 13:25 8654 May 30 23:51 8654 Jun 04 07:13 8654 Jul 08 10:06 8654 Aug 15 15:39 8654 Aug 19 21:00 8654 Sep 23 14:18	0°₹ 0°₩ 12°₩25'37 22°₩21'47 0°Ψ 18°Ψ48'04 18°Ψ49'11 0°₩ 0°Ⅲ 3°Ⅲ20'02 0°\$ 0°\$ 0°\$ 3°\$\Omega\$17'35	-1°06'21	desc. node retrograde opposition greatest brilliancy min. Earth dist. direct	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51 8659 Jul 22 04:33 8659 Aug 09 12:54 8659 Aug 10 03:45 8659 Aug 15 06:22 8659 Sep 19 17:10 8659 Nov 15 13:24 8660 Jan 06 07:51 8660 Feb 18 07:02 8660 Mar 28 23:02	21°至37'26 0°M 0°ズ 0°る 0°る 0°≈ 17°≈23'38 0°升 2°升29'42 30°R≈ 23°≈55'35 23°≈41'23 21°≈44'10 13°≈59'35 0°升 0°Y 0°႘ 0°Ⅱ	-3°17'37 -1.5m
evening set max. Earth dist. conjunction minimum elong morning rise	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55 8654 Apr 06 10:25 8654 Apr 06 11:02 8654 Apr 21 13:25 8654 May 30 23:51 8654 Jun 04 07:13 8654 Jul 08 10:06 8654 Aug 15 15:39 8654 Aug 19 21:00 8654 Sep 23 14:18 8654 Nov 03 06:15	0°ጜ 0°≈ 0°¥ 12°¥25'37 22°¥21'47 0°℃ 18°Ƴ48'04 18°Ƴ49'11 0°႘ 0°Ⅱ 3°Ⅱ20'02 0°ॐ 0°Ω 3°Ω17'35 0°™ 0°Ω	-1°06'21	desc. node retrograde opposition greatest brilliancy min. Earth dist. direct	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51 8659 Jul 22 04:33 8659 Aug 09 12:54 8659 Aug 10 03:45 8659 Aug 15 06:22 8659 Sep 19 17:10 8659 Nov 15 13:24 8660 Jan 06 07:51 8660 Feb 18 07:02 8660 Mar 28 23:02 8660 Apr 10 18:18	21° 237'26 0° M 0° ズ 0° で 0° で 0° で 0° で 17° ※23'38 0° 米 2° 米29'42 30° R 23° ※55'35 23° ※41'23 21° ※44'10 13° ※59'35 0° 米 0° Y 0° と 0° 用 9° 月56'53	-3°17'37 -1.5m
evening set max. Earth dist. conjunction minimum elong morning rise	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55 8654 Apr 06 10:25 8654 Apr 06 11:02 8654 Apr 21 13:25 8654 May 30 23:51 8654 Jun 04 07:13 8654 Jul 08 10:06 8654 Aug 15 15:39 8654 Aug 19 21:00 8654 Sep 23 14:18 8654 Nov 03 06:15 8654 Dec 16 23:31	0°₹ 0°₩ 12°₩25'37 22°₩21'47 0°Ψ 18°Ψ48'04 18°Ψ49'11 0°₩ 0°Ш 3°Ш20'02 0°ॐ 0°Ω 3°Ω17'35 0°™ 0°Ω	-1°06'21	desc. node retrograde opposition greatest brilliancy min. Earth dist. direct	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51 8659 Jul 22 04:33 8659 Aug 09 12:54 8659 Aug 10 03:45 8659 Aug 15 06:22 8659 Sep 19 17:10 8659 Nov 15 13:24 8660 Jan 06 07:51 8660 Feb 18 07:02 8660 Mar 28 23:02 8660 May 06 08:44	21° 237'26 0° M 0° ズ 0° で 0° で 0° で 17° ≈ 23'38 0° 米 2° 米 29'42 30° R 23° ≈ 55'35 23° ≈ 41'23 21° ≈ 44'10 13° ≈ 59'35 0° 米 0° Y 0° と 0° I 9° I 56'53 0° ©	-3°17'37 -1.5m
evening set max. Earth dist. conjunction minimum elong morning rise asc. node	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55 8654 Apr 06 10:25 8654 Apr 06 11:02 8654 Apr 21 13:25 8654 May 30 23:51 8654 Jun 04 07:13 8654 Jul 08 10:06 8654 Aug 15 15:39 8654 Aug 19 21:00 8654 Sep 23 14:18 8654 Nov 03 06:15 8654 Dec 16 23:31 8655 Feb 04 20:04	0°₹ 0°≈ 0°¥ 12°¥25'37 22°¥21'47 0°Υ 18°Y48'04 18°Y49'11 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$	-1°06'21	desc. node retrograde opposition greatest brilliancy min. Earth dist. direct	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51 8659 Jul 22 04:33 8659 Aug 09 12:54 8659 Aug 10 03:45 8659 Aug 15 06:22 8659 Sep 19 17:10 8659 Nov 15 13:24 8660 Jan 06 07:51 8660 Feb 18 07:02 8660 Mar 28 23:02 8660 May 06 08:44 8660 Jun 13 19:32	21° \$\times 37'26 0° \$\mathbb{M}\$. 0° \$\mathbb{A}\$ 0° \$\mathbb{G}\$ 0° \$\infty\$ 0° \$\mathbb{G}\$ 0° \$\mathbb{M}\$ 2° \$\mathbb{M}\$ 29' 42 30° \$\mathbb{R}\$ 23° \$\infty 55'35 23° \$\infty 41'10 13° \$\infty 59'35 0° \$\mathbb{M}\$	-3°17'37 -1.5m
evening set max. Earth dist. conjunction minimum elong morning rise asc. node	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55 8654 Apr 06 10:25 8654 Apr 06 11:02 8654 Apr 21 13:25 8654 May 30 23:51 8654 Jun 04 07:13 8654 Jul 08 10:06 8654 Aug 15 15:39 8654 Aug 15 15:39 8654 Aug 19 21:00 8654 Sep 23 14:18 8654 Nov 03 06:15 8654 Dec 16 23:31 8655 Feb 04 20:04 8655 Apr 22 06:28 8655 May 31 00:12 8655 Jun 01 19:13	0°云 0°※ 0°升 12°升25'37 22°升21'47 0°Υ 18°Υ48'04 18°Υ49'11 0°႘ 0°Ⅱ 3°Ⅱ20'02 0°⑤ 0°凡 3°Ո17'35 0°№ 0°№ 25°ズ27'57 16°ズ16'05 15°ズ33'10	-1°06′21 1°06′25	desc. node retrograde opposition greatest brilliancy min. Earth dist. direct	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51 8659 Jul 22 04:33 8659 Aug 09 12:54 8659 Aug 10 03:45 8659 Aug 15 06:22 8659 Sep 19 17:10 8659 Nov 15 13:24 8660 Jan 06 07:51 8660 Feb 18 07:02 8660 Mar 28 23:02 8660 Apr 10 18:18 8660 May 06 08:44 8660 Jun 13 19:32 8660 Jul 23 07:02 8660 Aug 21 22:32 8660 Sep 02 11:27	21° \$\sigma 37'26 0° M. 0° \$\tilde{x}\$ 0° \$\tilde{x}\$ 0° \$\tilde{x}\$ 0° \$\tilde{x}\$ 0° \$\tilde{x}\$ 2° \$\tilde{x} 23'38 0° \$\tilde{x}\$ 23° \$\inde{x} 55'35 23° \$\inde{x} 41'23 21° \$\inde{x} 44'10 13° \$\inde{x} 59'35 0° \$\tilde{x}\$ 0° \$\tilde{y}\$ 0° \$\tilde{x}\$ 0° \$\tilde{y}\$ 0° \$\tilde{x}\$ 0° \$\tilde{y}\$ 0° \$\tilde{x}\$ 0° \$\tilde{y}\$ 1° \$\tilde{y}\$ 44'19 0° \$\tilde{x}\$	-3°17'37 -1.5m
evening set max. Earth dist. conjunction minimum elong morning rise asc. node retrograde min. Earth dist. opposition greatest brilliancy	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55 8654 Apr 06 10:25 8654 Apr 06 11:02 8654 Apr 21 13:25 8654 Apr 21 13:25 8654 Jun 04 07:13 8654 Jul 08 10:06 8654 Jul 08 10:06 8654 Aug 15 15:39 8654 Aug 19 21:00 8654 Sep 23 14:18 8654 Nov 03 06:15 8654 Dec 16 23:31 8655 Feb 04 20:04 8655 Apr 22 06:28 8655 May 31 00:12 8655 Jun 01 19:13 8655 Jun 01 16:30	0°云 0°※ 0°升 12°升25'37 22°升21'47 0°Υ 18°Υ48'04 18°Υ49'11 0°႘ 0°Ⅱ 3°Ⅱ20'02 0°ጮ 0°凡 3°Д17'35 0°№ 0°№ 10°¾ 25°¾27'57 16°¾16'05 15°¾33'10 15°¾35'53	-1°06'21 1°06'25 0.66996 AU	desc. node retrograde opposition greatest brilliancy min. Earth dist. direct	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51 8659 Jul 22 04:33 8659 Aug 09 12:54 8659 Aug 10 03:45 8659 Aug 15 06:22 8659 Sep 19 17:10 8659 Nov 15 13:24 8660 Jan 06 07:51 8660 Feb 18 07:02 8660 Mar 28 23:02 8660 May 06 08:44 8660 Jun 13 19:32 8660 Jul 23 07:02 8660 Aug 21 22:32	21° \$\sim 37'26 0° \$\mathbb{N}\$. 0° \$\stacksquare\tau^2 30° \$\text{R}\$ 2° \$\cdot 23' \$\text{R}\$ 23° \$\text{R}\$ 23° \$\text{R}\$ 23° \$\text{R}\$ 23° \$\text{R}\$ 23° \$\text{R}\$ 23° \$\text{R}\$ 21° \$\text{R}\$ 41'23 21° \$\text{R}\$ 41'10 13° \$\text{R}\$ 9° \$\text{R}\$ 0° \$\text{V}\$ 0° \$\text{V}\$ 0° \$\text{U}\$ 0° \$\text{U}\$ 0° \$\text{U}\$ 0° \$\text{U}\$ 0° \$\text{U}\$ 0° \$\text{U}\$ 11° \$\text{U}\$ 44'19	-3°17'37 -1.5m
evening set max. Earth dist. conjunction minimum elong morning rise asc. node retrograde min. Earth dist. opposition greatest brilliancy direct	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55 8654 Apr 06 10:25 8654 Apr 06 11:02 8654 Apr 21 13:25 8654 May 30 23:51 8654 Jun 04 07:13 8654 Jul 08 10:06 8654 Aug 15 15:39 8654 Aug 19 21:00 8654 Sep 23 14:18 8654 Nov 03 06:15 8654 Dec 16 23:31 8655 Feb 04 20:04 8655 Apr 22 06:28 8655 May 31 00:12 8655 Jun 01 19:13 8655 Jun 01 16:30 8655 Jul 12 00:35	0°ጜ 0°ቚ 0°ዅ 12°ዅ25'37 22°ዅ21'47 0°Ƴ 18°ዅ48'04 18°ዅ49'11 0°ጜ 0°ጤ 3°ጤ20'02 0°ጭ 0°ጤ 0°ጁ 0°ጤ 0°ጁ 25°ጁ'27'57 16°ጁ'16'05 15°ጁ'33'53 6°ጁ'00'04	-1°06'21 1°06'25 0.66996 AU 1°59'54	desc. node retrograde opposition greatest brilliancy min. Earth dist. direct asc. node	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51 8659 Jul 22 04:33 8659 Aug 09 12:54 8659 Aug 10 03:45 8659 Aug 10 03:45 8659 Aug 15 06:22 8659 Sep 19 17:10 8659 Nov 15 13:24 8660 Jan 06 07:51 8660 Feb 18 07:02 8660 Mar 28 23:02 8660 Apr 10 18:18 8660 May 06 08:44 8660 Jun 13 19:32 8660 Jul 23 07:02 8660 Aug 21 22:32 8660 Sep 02 11:27 8660 Oct 15 16:31	21° \$\alpha 37'26 0° \$\mathbb{\text{N}}\$ 0° \$\mathbb{\text{N}}\$ 0° \$\mathbb{\text{N}}\$ 0° \$\mathbb{\text{N}}\$ 0° \$\mathbb{\text{N}}\$ 2° \$\mathbb{\text{N}} 29'42 30° \$\mathbb{\text{R}}\$ 23° \$\infty 55'35 23° \$\infty 44'10 13° \$\infty 59'35 0° \$\mathbb{\text{N}}\$ 0° \$\mathbb{\text{N}}\$ 0° \$\mathbb{\text{N}}\$ 0° \$\mathbb{\text{N}}\$ 0° \$\mathbb{\text{N}}\$ 0° \$\mathbb{\text{N}}\$ 21° \$\mathbb{\text{N}} 44'19 0° \$\mathbb{\text{L}}\$ 0° \$\mathbb{\text{N}}\$	-3°17'37 -1.5m 0.61717 AU
evening set max. Earth dist. conjunction minimum elong morning rise asc. node retrograde min. Earth dist. opposition greatest brilliancy	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55 8654 Apr 06 10:25 8654 Apr 06 11:02 8654 Apr 21 13:25 8654 May 30 23:51 8654 Jun 04 07:13 8654 Jul 08 10:06 8654 Aug 15 15:39 8654 Aug 19 21:00 8654 Sep 23 14:18 8654 Nov 03 06:15 8654 Dec 16 23:31 8655 Feb 04 20:04 8655 Apr 22 06:28 8655 May 31 00:12 8655 Jun 01 19:13 8655 Jun 01 16:30 8655 Jul 12 00:35 8655 Jul 31 01:07	0°ጜ 0°₩ 12°₩25'37 22°₩21'47 0°Ψ 18°Ψ48'04 18°Ψ49'11 0°₩ 0°Ⅲ 3°Ⅲ20'02 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 15°\$ 27'57 16°\$ 16'05 15°\$ 33'10 15°\$ 35'53 6°\$00'04 7°\$ 59'44	-1°06'21 1°06'25 0.66996 AU 1°59'54	desc. node retrograde opposition greatest brilliancy min. Earth dist. direct asc. node evening set	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51 8659 Jul 22 04:33 8659 Aug 09 12:54 8659 Aug 10 03:45 8659 Aug 10 03:45 8659 Aug 15 06:22 8659 Sep 19 17:10 8659 Nov 15 13:24 8660 Jan 06 07:51 8660 Feb 18 07:02 8660 Mar 28 23:02 8660 Apr 10 18:18 8660 May 06 08:44 8660 Jun 13 19:32 8660 Jul 23 07:02 8660 Aug 21 22:32 8660 Sep 02 11:27 8660 Oct 16 23:37	21° \$\times 37'26 0° \$\mathbb{\text{N}}\$ 0° \$\mathbb{\text{S}}\$ 0° \$\mathbb{\text{S}}\$ 0° \$\mathbb{\text{S}}\$ 0° \$\mathbb{\text{S}}\$ 2° \$\mathbb{\text{S}} 29'42 30° \$\mathbb{\text{R}} \text{28} \text{29'42} 30° \$\mathbb{\text{R}} \text{23} \text{24'10} 13° \$\text{8} 44'10 13° \$\text{8} 59'35 0° \$\mathbb{\text{H}}\$ 0° \$\mathbb{\text{T}}\$ 0° \$\mathbb{\text{S}}\$ 0° \$\mathbb{\text{C}}\$ 0° \$\mathbb{\text{C}}\$ 0° \$\mathbb{\text{D}}\$ 0° \$\mathbb{\text{M}}\$	-3°17'37 -1.5m 0.61717 AU
evening set max. Earth dist. conjunction minimum elong morning rise asc. node retrograde min. Earth dist. opposition greatest brilliancy direct	8653 Oct 23 11:21 8653 Dec 11 20:10 8654 Jan 26 23:37 8654 Feb 14 06:46 8654 Feb 28 14:13 8654 Mar 11 09:55 8654 Apr 06 10:25 8654 Apr 06 11:02 8654 Apr 21 13:25 8654 May 30 23:51 8654 Jun 04 07:13 8654 Jul 08 10:06 8654 Aug 15 15:39 8654 Aug 19 21:00 8654 Sep 23 14:18 8654 Nov 03 06:15 8654 Dec 16 23:31 8655 Feb 04 20:04 8655 Apr 22 06:28 8655 May 31 00:12 8655 Jun 01 19:13 8655 Jun 01 16:30 8655 Jul 12 00:35	0°ጜ 0°ቚ 0°ዅ 12°ዅ25'37 22°ዅ21'47 0°Ƴ 18°ዅ48'04 18°ዅ49'11 0°ጜ 0°ጤ 3°ጤ20'02 0°ጭ 0°ጤ 0°ጁ 0°ጤ 0°ጁ 25°ጁ'27'57 16°ጁ'16'05 15°ጁ'33'53 6°ጁ'00'04	-1°06'21 1°06'25 0.66996 AU 1°59'54	desc. node retrograde opposition greatest brilliancy min. Earth dist. direct asc. node	8658 Oct 23 10:35 8658 Nov 04 14:41 8658 Dec 19 19:06 8659 Feb 05 18:58 8659 Mar 30 06:55 8659 May 04 22:06 8659 Jun 10 20:54 8659 Jul 02 05:51 8659 Jul 22 04:33 8659 Aug 09 12:54 8659 Aug 10 03:45 8659 Aug 10 03:45 8659 Aug 15 06:22 8659 Sep 19 17:10 8659 Nov 15 13:24 8660 Jan 06 07:51 8660 Feb 18 07:02 8660 Mar 28 23:02 8660 Apr 10 18:18 8660 May 06 08:44 8660 Jun 13 19:32 8660 Jul 23 07:02 8660 Aug 21 22:32 8660 Sep 02 11:27 8660 Oct 15 16:31	21° \$\times 37'26 0° \$\mathbb{\text{N}}\$ 0° \$\mathbb{\text{S}}\$ 0° \$\mathbb{\text{S}}\$ 0° \$\mathbb{\text{S}}\$ 0° \$\mathbb{\text{S}}\$ 23° \$\mathbb{\text{S}} 23'38 0° \$\mathbb{\text{R}}\$ 23° \$\mathbb{\text{S}} 55'35 23° \$\mathbb{\text{S}} 41'23 21° \$\mathbb{\text{S}} 44'10 13° \$\mathbb{\text{S}} 59'35 0° \$\mathbb{\text{H}}\$ 0° \$\mathbb{\text{N}}\$ 0° \$\mathbb{\text{U}}\$ 0° \$\mathbb{\text{U}}\$ 0° \$\mathbb{\text{M}}\$	-3°17'37 -1.5m 0.61717 AU

	8660 Nov 29 21:51	0° ∡ 7		retrograde	8666 Jan 12 11:38	6° m 15'49	
morning rise	8660 Dec 05 21:30	3° х 52'55		min. Earth dist.	8666 Feb 07 18:11	1° mp 36'57	0.41827 AU
morning rise	8661 Jan 15 21:49	0° 궁		mm. Earth dist.	8666 Feb 12 19:06	30°R Ω	0.11027710
	8661 Mar 05 14:54	0° ≈		greatest brilliancy	8666 Feb 14 08:48	29° Ω 29'20	-2.6m
desc. node	8661 Mar 21 18:37	9° ≈ 39'58		opposition	8666 Feb 15 18:23	29° Ω 02'09	4°36'24
desc. Hode	8661 Apr 25 22:04	0° ∺		direct	8666 Mar 18 20:58	23° Ω 05'09	4 30 24
	8661 Jun 24 00:01	0° Υ		direct	8666 Apr 22 22:26	0°m)	
retrograde	8661 Aug 18 20:53	14° Υ 14'58			8666 Jun 24 01:35	0∘ ত	
opposition	8661 Sep 22 14:14	7° Υ 11'34	5°34'16		8666 Aug 14 15:38	0°M	
• •	•	6° Υ 36'10			8666 Oct 03 07:38	0° ⊼ ¹	
greatest brilliancy min. Earth dist.	8661 Sep 24 06:37	6 7 36 10 4° Υ 12'51	0.49826 AU	desc. node		0 x . 24° x 05'59	
IIIII. Eartii dist.	8661 Oct 01 03:15		0.49820 AU	desc. node	8666 Nov 11 12:00	24 x・03 39	
J:	8661 Oct 16 06:01	30° ₹			8666 Nov 20 23:48		
direct	8661 Oct 30 16:24	28° 升 31'47		evening set	8666 Dec 23 10:34	20°る24'40	
	8661 Nov 14 11:42	0° Υ		F 4 F	8667 Jan 07 10:50	0°≈	2 (2004 177
i	8662 Jan 18 21:05	0°8		max. Earth dist.	8667 Jan 19 16:48	/°≈54'02	2.63994 AU
asc. node	8662 Feb 26 19:32	26° 8 35'11			066771 06 06 22	100 20125	00.40145
	8662 Mar 03 12:37	0°II		conjunction	8667 Feb 06 06:33	19° ≈ 22'25	
	8662 Apr 12 19:38	0ಂಣ		minimum elong	8667 Feb 06 05:27	19° ≈ 20'37	0°42'36
	8662 May 22 15:05	0 $^{\circ}$ Ω			8667 Feb 22 07:40	0° ∀	
	8662 Jul 02 07:41	0° m ∕		morning rise	8667 Mar 23 20:10	19° ¥ 57'37	
	8662 Aug 13 14:50	0∘ ত			8667 Apr 07 09:11	0° Y	
	8662 Sep 26 18:05	0° M .			8667 May 19 16:10	9° 8	
evening set	8662 Oct 10 08:03	9°M00'00			8667 Jun 29 10:32	Π \circ 0	
	8662 Nov 11 12:47	0° ∡ ¹			8667 Aug 08 03:57	0 \circ ∞	
					8667 Sep 16 15:18	$0^{\circ}\Omega$	
conjunction	8662 Nov 27 10:18	10° ҂ 13'44	0°35'35	asc. node	8667 Oct 19 17:27	24° Ω 36'46	
minimum elong	8662 Nov 27 11:21	10° ∡ 15'24	0°35'47		8667 Oct 27 04:05	0° m ∕	
max. Earth dist.	8662 Dec 06 02:49	15° ∡ ¹47'18	2.66541 AU		8667 Dec 10 09:32	0∘ ⊽	
	8662 Dec 28 10:35	0°ರ			8668 Feb 11 09:30	0° M	
morning rise	8663 Jan 11 08:10	8° る 48'27		retrograde	8668 Mar 02 03:57	2°M34'40	
desc. node	8663 Feb 06 14:30	25° る 23'29		C	8668 Mar 20 23:27	30° ₽ Ω	
	8663 Feb 13 21:59	0° ≈		min. Earth dist.	8668 Apr 03 00:13	25° ≏ 40'33	0.55395 AU
	8663 Apr 02 15:22	0°) €		opposition	8668 Apr 09 23:16	22° ≏ 59'32	5°02'17
	8663 May 20 17:59	$0^{\circ}\Upsilon$		greatest brilliancy	8668 Apr 08 18:21	23° Ω 27'31	-1.9m
	8663 Jul 09 04:35	0°8		direct	8668 May 15 23:35	14° £ 55'26	1.711
	8663 Sep 02 05:31	0°II			8668 Jul 12 09:31	0°M	
retrograde	8663 Oct 29 21:53	16° Ⅱ 25'46			8668 Sep 09 15:45	0° ⊼ 7	
opposition	8663 Nov 28 22:16	11° II 26'19	-3°25'04	desc. node	8668 Sep 28 13:01	10° √ 40'05	
greatest brilliancy	8663 Nov 29 13:52	11° II 15'40		dese. Hode	8668 Oct 31 10:43	0°る。	
min. Earth dist.	8663 Dec 02 16:24		0.37547 AU		8668 Dec 19 00:20	0° ≈	
direct	8663 Dec 29 19:12	6° I I03'21	0.57547 AC	evening set	8669 Jan 29 00:08	0 ∞ 26° ≈ 40'48	
asc. node	8664 Jan 14 19:23	7° Ⅱ 48'06		evening set	8669 Feb 02 23:12	20 ≈ 40 48	
asc. node	8664 Mar 06 08:37	್ರಿ ಗ 4800		max. Earth dist.	8669 Feb 14 22:23		2.54767 AU
		0° U		max. Earth dist.	8009 Feb 14 22.23	8 AUS 23	2.34/0/ AU
	8664 Apr 23 01:20 8664 Jun 06 21:13	0° m)		conjunction	9660 Mar 19 06:55	29° ¥ 51'37	1906126
		0∘ ⊽		,	8669 Mar 18 06:55	29 X 51 37 29° X 50'43	
	8664 Jul 21 22:25			minimum elong	8669 Mar 18 06:25	29° π 30'43 0° Υ	1 06 26
	8664 Sep 05 23:24	0° M 0° ∡ 7			8669 Mar 18 11:40		
	8664 Oct 22 23:00				8669 Apr 28 20:39	0°8	
evening set	8664 Nov 17 12:16	16° ⊀ 10'33		morning rise	8669 May 10 11:34	8° 8 40'21	
	8664 Dec 09 08:47	0°る			8669 Jun 07 13:25	0° I I	
desc. node	8664 Dec 24 12:05	9° る 35'37	•		8669 Jul 16 05:28	0° ©	
max. Earth dist.	8664 Dec 27 10:05	11° 6 26'42	2.68010 AU		8669 Aug 23 15:41	0° Ω	
		. —		asc. node	8669 Sep 05 13:31	9° € 59'55	
conjunction	8665 Jan 01 10:08	14° る 37'20			8669 Oct 01 18:40	0° m)	
minimum elong	8665 Jan 01 10:00	14° る 37'07	0°03'59		8669 Nov 11 18:35	0∘ ⊽	
behind sun begin	8664 Dec 31 16:01	14° る 08'33			8669 Dec 26 12:08	0° ™	
behind sun end	8665 Jan 02 03:59	15° る 05'42			8670 Feb 19 08:20	0° ∡	
	8665 Jan 25 12:39	0° ≈		retrograde	8670 Apr 08 21:07	12° х 13′53	
morning rise	8665 Feb 13 23:50	12° ≈ 30′59		min. Earth dist.	8670 May 15 23:06	3° ∡ 33'28	0.64958 AU
	8665 Mar 12 21:34	0° ∀		opposition	8670 May 19 05:53	2° ҂ 14'53	2°57'18
	8665 Apr 27 04:28	0 ° $\mathbf{\gamma}$		greatest brilliancy	8670 May 18 22:02	2° ҂ 22'43	-1.4m
	8665 Jun 10 08:05	9° 8			8670 May 24 23:32	30°RM	
	8665 Jul 23 12:06	$\Pi^{\circ}0$		direct	8670 Jun 27 13:45	22°M59'49	
	8665 Sep 04 06:20	0ංම			8670 Aug 04 01:59	0° ∡ ¹	
	8665 Oct 18 10:58	$0^{\circ}\Omega$		desc. node	8670 Aug 16 14:11	4° ∡ °33'53	
asc. node	8665 Dec 01 19:28	25° Ω 22'28			8670 Oct 08 13:48	5°0	
	8665 Dec 12 19:06	0° m)			8670 Nov 29 06:13	0° ≈	

evening set max. Earth dist.	8671 Jan 15 02:17 8671 Feb 27 14:20 8671 Mar 15 05:20 8671 Mar 31 13:27 8671 Apr 09 13:11	0° ℋ 0° ♈ 11° ♈ 15'23 23° ♈ 16'47 0° ႘	2.41707 AU	max. Earth dist. morning rise	8675 Oct 23 18:03 8675 Oct 31 11:59 8675 Nov 20 23:24 8675 Dec 07 20:46 8676 Jan 24 01:51	0°M 5°M15'14 18°M55'56 0°ズ 0°る	2.55384 AU
conjunction minimum elong	8671 May 12 11:14 8671 May 12 14:03 8671 May 18 16:46	25° 8 09'26 25° 8 14'54 0° П		desc. node	8676 Mar 13 17:42 8676 Apr 07 09:07 8676 May 07 04:39 8676 Jul 28 23:02	0°≈ 14°≈05'21 0° X 26° X 41'37	40.4045
morning rise asc. node	8671 Jun 25 20:44 8671 Jul 21 05:04 8671 Jul 24 11:35 8671 Aug 02 21:44	0°© 20°©01'19 22°©35'52 0° Ω		opposition greatest brilliancy min. Earth dist. direct	8676 Sep 03 07:28 8676 Sep 04 14:12 8676 Sep 11 00:38 8676 Oct 13 01:22	18°\\$56'25 18°\\$28'10 16°\\$06'36 9°\\$33'03	
	8671 Sep 10 16:49 8671 Oct 21 02:50 8671 Dec 03 01:13 8672 Jan 18 21:11	0° ₹ 0° ™ 0° ™		asc. node	8676 Dec 15 07:46 8677 Jan 31 22:38 8677 Mar 14 02:36 8677 Mar 15 10:55	0°Υ 0°Β 0°Π 1°Π00'58	
retrograde opposition greatest brilliancy	8672 Mar 14 10:32 8672 May 12 01:07 8672 Jun 21 10:33 8672 Jun 21 10:55	0°る 15°る50'00 6°る10'04 6°る09'42	0°25'04 -1.3m		8677 Apr 22 07:22 8677 May 31 09:07 8677 Jul 10 10:44 8677 Aug 21 04:43	0ం రా 0ంటి 0ం రు 0ంతు	
min. Earth dist. desc. node	8672 Jun 21 22:55 8672 Jul 03 14:12 8672 Jul 08 09:43 8672 Aug 01 14:53	5°る57'48 1°る33'19 30°Rダ 26°ダ17'20	0.68179 AU	evening set	8677 Sep 22 20:09 8677 Oct 03 21:13 8677 Nov 12 07:12	22° £ 32'19 0° M 26° M 03'17	0°48'48
	8672 Aug 28 00:11 8672 Nov 04 19:25 8672 Dec 24 15:28 8673 Feb 06 22:05	る。 ※○ Y°0 Y°0		minimum elong max. Earth dist. morning rise	8677 Nov 12 08:28 8677 Nov 18 08:55 8677 Nov 26 19:00 8677 Dec 28 15:14	26°M05'21 0°⊀ 5°⊀26'52 25°⊀49'17	0°48'59 2.64464 AU
evening set	8673 Mar 19 21:56 8673 Apr 27 21:05 8673 May 16 00:55 8673 Jun 04 20:51	0° ႘ 0° ႘ 0° ႘ 14° Ц 17'30		desc. node	8678 Jan 04 05:25 8678 Feb 21 00:38 8678 Feb 23 05:49 8678 Apr 10 17:00	0°ප් 0°≈ 1°≈22'45 0°¥	
asc. node	8673 Jun 10 10:26 8673 Jul 12 20:26	4°€24'46 0°Ω		retrograde	8678 May 31 01:42 8678 Jul 25 23:09 8678 Sep 28 07:56	0°Υ 0°႘ 18°႘43'52	
conjunction minimum elong max. Earth dist.	8673 Jul 26 00:07 8673 Jul 25 21:08 8673 Aug 20 17:00 8673 Sep 16 22:00	10° \(\Omega\) 15'49 10° \(\Omega\) 10'02 0° mp 20° mp 19'28		opposition greatest brilliancy min. Earth dist. direct	8678 Oct 29 23:24 8678 Oct 31 14:04 8678 Nov 06 14:42 8678 Dec 02 22:56	10° 8 43'40 6° 8 17'16	-5°25'09 -2.6m 0.41448 AU
morning rise	8673 Sep 30 04:33 8673 Oct 01 15:34 8673 Nov 11 20:31 8673 Dec 27 04:20	0° Ω 1° Ω 03'14 0° ጤ 0° ጾ		asc. node	8679 Jan 31 12:24 8679 Feb 07 03:25 8679 Mar 25 00:29 8679 May 06 10:38	26°႘10'37 0°Ⅲ 0°ᢒ 0°Ω	
desc. node retrograde	8674 Feb 14 00:22 8674 Apr 11 03:31 8674 May 21 12:09 8674 Jun 16 18:50	0°る 0°≈ 15°≈14'39 18°≈55'41			8679 Jun 17 20:42 8679 Jul 31 10:51 8679 Sep 14 13:05 8679 Oct 30 22:44	0° ጥ 0° ጥ 0° ጥ	
opposition greatest brilliancy min. Earth dist.	8674 Jul 25 22:37 8674 Jul 26 05:55 8674 Jul 30 05:32 8674 Sep 01 21:43	9°≈57'53 9°≈50'48 8°≈17'59 30°₹♂	-2°15'15 -1.4m 0.64803 AU	evening set	8679 Nov 03 22:44 8679 Dec 17 02:07 8679 Dec 19 16:37	2° メ 33'29 0°る 1°る39'07	0°11'43
direct	8674 Sep 05 11:26 8674 Sep 09 02:14 8674 Nov 29 09:29 8675 Jan 16 00:17	29°♂55'04 0°≈ 0°升 0°Υ		minimum elong behind sun begin behind sun end max. Earth dist.	8679 Dec 19 16:59 8679 Dec 19 04:30 8679 Dec 20 05:29 8679 Dec 19 21:18	1° ි 39'42 1° ි 519'53 1° ි 59'30 1° ි 546'31	0°11'56 2.68100 AU
asc. node	8675 Feb 26 23:24 8675 Apr 07 06:13 8675 Apr 28 09:50 8675 May 15 10:25	0°႘ 0°Ⅲ 16°Ⅲ34'35 0°ᢒ		desc. node morning rise	8680 Jan 11 02:19 8680 Feb 01 10:07 8680 Feb 02 07:14 8680 Mar 20 01:43	15° ් 52'19 29° ් 526'21 0° ක 0° ාූ	
evening set	8675 Jun 22 15:57 8675 Jul 29 12:02 8675 Jul 31 21:15 8675 Sep 10 18:56	0° N 28° N 12'31 0° M 0° Ω			8680 May 05 03:59 8680 Jun 19 15:21 8680 Aug 03 20:50 8680 Sep 19 07:18	γ°0 Β°0 Π°0 0°5	
conjunction minimum elong	8675 Sep 28 13:32 8675 Sep 28 13:28	12° ♀ 35'44 12° ♀ 35'38		retrograde asc. node	8680 Nov 14 21:04 8680 Dec 17 13:19 8680 Dec 18 11:23	0°Ω 6°Ω45'45 6°Ω45'23	

min. Earth dist.	8681 Jan 13 00:41	2°Ω25'05	0.37793 AU		8686 Mar 06 17:20	0°Υ	
opposition	8681 Jan 18 00:30	1°Ω00'08	2°15'40	max. Earth dist.	8686 Mar 09 22:52	2° Υ 18'07	2.47056 AU
greatest brilliancy	8681 Jan 17 12:27	1° Ω 08'43		max. Earth dist.	8686 Apr 16 19:34	0°8	2.17030710
8	8681 Jan 21 14:02	30°Rூ	2,14,122				
direct	8681 Feb 16 14:38	25°954'24		conjunction	8686 Apr 18 11:25	1° 8 14'35	-1°02'30
	8681 Mar 14 09:28	$0^{\circ}\Omega$		minimum elong	8686 Apr 18 12:54	1° 8 17'21	
	8681 May 16 22:41	0° m)		· ·	8686 May 26 03:45	0° I I	
	8681 Jul 06 00:49	0∘ ⊽		morning rise	8686 Jun 20 04:44	19° Ⅲ 32'48	
	8681 Aug 23 12:54	0° M .		•	8686 Jul 03 11:45	0°©	
	8681 Oct 10 20:33	0°⊀		asc. node	8686 Aug 10 04:49	29°539'08	
	8681 Nov 27 21:52	8°0			8686 Aug 10 15:29	$0^{\circ}\Omega$	
desc. node	8681 Nov 28 00:56	0° ට 04'48			8686 Sep 18 12:05	0° m ∤	
evening set	8681 Dec 09 12:49	7° る 18'53			8686 Oct 29 00:19	0∘ ত	
max. Earth dist.	8682 Jan 10 09:34	27° る 33'53	2.66228 AU		8686 Dec 11 07:26	0° M	
	8682 Jan 14 04:40	0° ≈			8687 Jan 28 14:18	0°⊀	
					8687 Apr 05 19:36	0° ප	
conjunction	8682 Jan 23 00:41	5° ≈ 41'18	-0°28'41	retrograde	8687 Apr 29 20:30	3° る 16'49	
minimum elong	8682 Jan 22 23:52	5° ≈ 39'59	0°28'29		8687 May 22 04:12	30°₹ ⋌ 7	
	8682 Mar 01 04:57	0° ∀		min. Earth dist.	8687 Jun 08 09:25	23° ҂ 49'48	0.67687 AU
morning rise	8682 Mar 08 07:57	4°) 44'12		opposition	8687 Jun 09 08:58	23° ҂ 26′19	1°25'16
	8682 Apr 14 15:52	$0^{\circ}\Upsilon$		greatest brilliancy	8687 Jun 09 08:04	23° ≯ 27'13	-1.3m
	8682 May 27 12:46	0°8		direct	8687 Jul 19 23:49	13° ≯ 45'15	
	8682 Jul 07 23:34	$\Pi^{\circ}0$		desc. node	8687 Jul 21 03:08	13° ∡ ⁴45'43	
	8682 Aug 17 10:58	0°©			8687 Sep 19 01:03	0°⋜	
	8682 Sep 26 20:04	$0^{\circ}\Omega$			8687 Nov 15 08:48	0° ≈	
asc. node	8682 Nov 05 10:24	28° Ω 16'38			8688 Jan 02 14:46	0° ∀	
	8682 Nov 07 23:03	0° m)			8688 Feb 15 11:24	0° Υ	
. 1	8682 Dec 27 17:23	0° ™		. ,	8688 Mar 27 09:43	0°8	
retrograde	8683 Feb 13 23:58	13° £ 43'45	0.50005.444	evening set	8688 Apr 18 21:07	17° 8 09'12	
min. Earth dist.	8683 Mar 15 09:43	7° £ 43'25	0.50235 AU		8688 May 05 09:44	0°¶ 0°∏	
greatest brilliancy	8683 Mar 21 23:31	5° ≙ 18'03 4° ≙ 43'53	-2.1m		8688 Jun 12 10:19	0-50	
opposition	8683 Mar 23 12:18 8683 Apr 06 22:50	4° ≥≥ 43°33	5-26-22	conjunction	8688 Jun 25 11:49	10° © 21'04	0001111
direct	8683 Apr 26 19:35	27° Mp 21'53		minimum elong	8688 Jun 25 11:57	10 \$21 04 10°\$21'20	
direct	8683 May 17 23:31	0° ʊ		behind sun begin	8688 Jun 24 05:36	9° 9 21'15	0 01 23
	8683 Jul 28 03:25	0°M		behind sun end	8688 Jun 26 18:17	11° © 21'23	
	8683 Sep 19 17:41	0° ⊼ ¹		asc. node	8688 Jun 27 02:02	11°536'43	
desc. node	8683 Oct 16 01:41	15° ∡ ³33'28		use. Houe	8688 Jul 20 09:38	0°Ω	
dese. Hode	8683 Nov 08 22:44	0°る		max. Earth dist.	8688 Jul 30 09:20		2.37026 AU
	8683 Dec 26 23:18	0° ≈		man. Barar alov.	8688 Aug 28 04:38	0° m)	2.5 / 020 110
evening set	8684 Jan 14 21:23	12°≈11'58		morning rise	8688 Sep 05 23:35	6° m 38'57	
max. Earth dist.	8684 Feb 04 13:03	25° ≈ 47'33	2.58981 AU	C	8688 Oct 07 14:08	0∘ <u>⊽</u>	
	8684 Feb 10 20:18	0°) €			8688 Nov 19 06:08	0°M	
					8689 Jan 03 21:38	0° ∡ ¹	
conjunction	8684 Mar 01 06:10	13°) €08'48	-1°00'20		8689 Feb 23 03:33	0°ರ	
minimum elong	8684 Mar 01 05:06	13°) €06'59	1°00'16		8689 Apr 29 05:06	0° ≈	
	8684 Mar 25 13:00	$0^{\circ}\Upsilon$		retrograde	8689 Jun 02 09:38	6° ≈ 00'59	
morning rise	8684 Apr 19 10:46	17° Ƴ 45'47		desc. node	8689 Jun 07 02:41	5° ≈ 52'46	
	8684 May 06 05:35	9° 8			8689 Jul 03 14:04	30°Rる	
	8684 Jun 15 06:55	$\Pi^{\circ}0$		opposition	8689 Jul 12 04:35	26° පි 44'00	-1°12'43
	8684 Jul 24 06:51	0 \circ \odot		greatest brilliancy	8689 Jul 12 06:58	26° පි 41'41	-1.3m
	8684 Aug 31 23:53	$0^{\circ}\Omega$		min. Earth dist.	8689 Jul 14 23:59	25° る 37'53	0.66901 AU
asc. node	8684 Sep 22 08:39	16° Ω 22'53		direct	8689 Aug 22 18:37	16° る 41'25	
	8684 Oct 10 10:16	0° m ∕			8689 Oct 14 17:52	0° ≈	
	8684 Nov 21 00:49	0∘ ಹ			8689 Dec 09 23:33	0° ∀	
	8685 Jan 06 18:55	0°M			8690 Jan 24 17:22	0° Υ	
retrograde	8685 Mar 25 23:58	28°M08'55			8690 Mar 07 03:43	8°0	
min. Earth dist.	8685 Apr 30 04:50	20°M.05'02	0.61922 AU		8690 Apr 15 05:49	0°II	
opposition	8685 May 04 23:20	18°M11'23	3°51'27	greatest brilliancy	8690 Apr 24 01:36	6° Ⅱ 55'06	1.2m
greatest brilliancy	8685 May 04 08:15	18°M26'23	-1.6m	asc. node	8690 May 15 02:32	23° II 31'22	
direct	8685 Jun 12 04:16	9°M19'03			8690 May 23 06:56	0° ©	
	8685 Aug 21 21:59	0°⊀ 7			8690 Jun 30 08:50	0° N	
desc. node	8685 Sep 02 02:37	5° ⊀ 24'45		evening set	8690 Jul 01 15:34	0° Ω 59'58	
	8685 Oct 17 18:51	0°る 0°≈			8690 Aug 08 09:18	0° т р	
	8685 Dec 06 20:51	0° ∺		conjunction	9600 Cam 06 07:07	210m 20111	100202
evening set	8686 Jan 22 06:11 8686 Feb 24 04:47	0° X 22° X 34'06		minimum elong	8690 Sep 06 07:07 8690 Sep 06 05:20	21° m/28'11 21° m/24'56	1°02'02 1°02'00
evening set	50001CU 24 U4.4/	22 八 3400		minimum ciong	3070 Sep 00 03.20	21 Hy2430	1 02 00

	8690 Sep 18 01:29	0∘ ⊽		opposition	8695 Dec 17 06:40	29° Ⅱ 27'14	-1°28'14
max. Earth dist.	8690 Oct 18 02:23	21° ≏ 13'42	2.50488 AU	greatest brilliancy	8695 Dec 17 09:35	29° Ⅱ 25'18	-3.1m
	8690 Oct 30 20:11	0° M		min. Earth dist.	8695 Dec 17 20:28	29° Ⅱ 18′07	0.36617 AU
morning rise	8690 Nov 03 09:38	2°M25'40		asc. node	8696 Jan 05 05:13	25° Ⅱ 16′07	
	8690 Dec 14 22:20	0° ∡ ¹		direct	8696 Jan 15 20:08	24° Ⅱ 30'31	
	8691 Jan 31 12:48	8°0			8696 Feb 14 12:58	0ංම	
	8691 Mar 23 16:14	0° ≈			8696 Apr 13 09:10	$0^{\circ}\Omega$	
desc. node	8691 Apr 25 00:21	17° ≈ 04'29			8696 May 30 18:14	0° m	
	8691 May 23 19:24	0° ∀			8696 Jul 15 23:57	0∘ ⊽	
retrograde	8691 Jul 11 18:32	11°)(12'12			8696 Aug 31 17:14	0°M₊	
opposition	8691 Aug 18 10:24	2°) 53′43			8696 Oct 18 02:17	0° ∡ ¹	
greatest brilliancy	8691 Aug 19 06:35	2°) 34'37		evening set	8696 Nov 25 15:00	24° ∡ 16′22	
min. Earth dist.	8691 Aug 24 21:49		0.59569 AU		8696 Dec 04 16:49	0°ප	
	8691 Aug 26 02:39	30° R ≈		desc. node	8696 Dec 14 14:22	6° ට 15'20	
direct	8691 Sep 28 04:50	23°≈05'48		max. Earth dist.	8697 Jan 01 11:15	17° る 35'40	2.67612 AU
	8691 Nov 02 03:27	0°) €					
	8691 Dec 30 06:29	0° Υ		conjunction	8697 Jan 09 06:12	22° る 33'23	
	8692 Feb 12 08:08	0° B		minimum elong	8697 Jan 09 05:48	22°る32'45	0°13'12
,	8692 Mar 23 10:01	0°П		behind sun begin	8697 Jan 08 19:15	22°る15'57	
asc. node	8692 Apr 01 02:37	6° Ⅱ 42'01		behind sun end	8697 Jan 09 16:20	22° る 49'33	
	8692 May 01 01:03	0° ©			8697 Jan 20 21:30	0° ≈	
	8692 Jun 08 16:06	0° N		morning rise	8697 Feb 21 22:19	20°≈42'21	
	8692 Jul 18 07:23	0° m			8697 Mar 08 03:01	0° ∀ 0° Υ	
avanina aat	8692 Aug 28 15:18	0° ჲ 3° ჲ 57'12			8697 Apr 22 02:12	0°8	
evening set	8692 Sep 03 05:34 8692 Oct 10 23:10	0°M			8697 Jun 04 17:31 8697 Jul 17 04:06	0°II	
	8692 Oct 10 23:10	U-IIL				0ം ತಾ	
conjunction	8692 Oct 26 23:23	10°M44'57	0°59'23		8697 Aug 27 21:05 8697 Oct 09 01:43	0° U	
minimum elong	8692 Oct 27 00:34	10°M46'57	0°59'30	asc. node	8697 Nov 22 04:30	28° Ω 37'24	
max. Earth dist.	8692 Nov 16 23:21	24°M36'57	2.61541 AU	asc. nouc	8697 Nov 24 13:39	0° m)	
max. Earth dist.	8692 Nov 25 05:28	24 11 6 30 37 0° √ 1	2.01341 AU	retrograde	8698 Jan 25 04:39	21° Mp 16'24	
morning rise	8692 Dec 14 09:12	12° × 722'11		min. Earth dist.	8698 Feb 21 06:48	16° m) 12'04	0.44715 AU
morning rise	8693 Jan 11 02:52	0°る		greatest brilliancy	8698 Feb 28 04:30	13° m 50'58	-2.4m
	8693 Feb 28 10:06	0° ≈		opposition	8698 Mar 01 18:55	13° M) 17'56	5°13'21
desc. node	8693 Mar 11 20:30	6°≈57'58		direct	8698 Apr 03 02:04	6° Mp 48'52	0 10 21
	8693 Apr 19 12:42	0° ∀			8698 Jun 14 13:23	0∘ ಹ	
	8693 Jun 12 23:54	0° Υ			8698 Aug 08 06:27	0° M .	
retrograde	8693 Sep 01 03:27	25° Y ′54'26			8698 Sep 28 00:10	0° ∡ ¹	
opposition	8693 Oct 04 21:08	19° Y 18'16	-5°46'58	desc. node	8698 Nov 01 14:14	21° ₹ '01'22	
greatest brilliancy	8693 Oct 06 16:36	18° Y 41'40	-2.3m		8698 Nov 16 03:38	0°ರ	
min. Earth dist.	8693 Oct 13 14:04	16° Ƴ 23'51	0.46747 AU	evening set	8698 Dec 31 11:47	28° පි 31'06	
direct	8693 Nov 10 16:55	11° Y 13'15			8699 Jan 02 19:19	0° ≈	
	8694 Jan 07 19:43	0°8		max. Earth dist.	8699 Jan 25 07:04	14° ≈ 33'01	2.62434 AU
asc. node	8694 Feb 17 03:25	25° 8 20'58					
	8694 Feb 23 20:28	Π $^{\circ}0$		conjunction	8699 Feb 14 16:57	28° ≈ 00'53	-0°50'06
	8694 Apr 06 05:59	0 \circ \odot		minimum elong	8699 Feb 14 15:47	27° ≈ 58'55	0°49'57
	8694 May 16 16:27	0 ° Ω			8699 Feb 17 16:25	0° ∀	
	8694 Jun 26 19:52	0° m)		morning rise	8699 Apr 02 06:43	29°) 45′32	
	8694 Aug 08 11:29	0∘ ⊽			8699 Apr 02 15:00	0° Υ	
	8694 Sep 21 21:19	0° M			8699 May 14 16:46	0°₽	
evening set	8694 Oct 19 14:40	18° ™ 11'58			8699 Jun 24 04:40	Π °0	
	8694 Nov 06 20:11	0° ∡ ¹			8699 Aug 02 14:53	0°©	
				_	8699 Sep 10 18:08	0°N	
conjunction	8694 Dec 05 16:27	18° ₹ 28'41		asc. node	8699 Oct 10 01:11	22° Ω 06'06	
minimum elong	8694 Dec 05 17:16	18° ₹ 29'59			8699 Oct 20 17:55	0° m)	
max. Earth dist.	8694 Dec 11 06:37	22° 尽 02'19	2.67342 AU		8699 Dec 02 14:06	0∘ ™	
mannin	8694 Dec 23 19:07	0°る 160 ス 27126		ratra an- 1-	8700 Jan 23 13:51	0°M	
morning rise	8695 Jan 19 00:35	16°る37'36		retrograde	8700 Mar 12 04:15	12°M40'47	0.57061 ATT
desc. node	8695 Jan 27 16:54	22°る07'20 0°≈		min. Earth dist.	8700 Apr 14 07:03	5°M 19'34	0.57961 AU
	8695 Feb 09 03:34 8695 Mar 28 11:23	0° ∺		greatest brilliancy opposition	8700 Apr 19 12:06 8700 Apr 20 11:55	3°M17'15 2°M53'54	-1.7m 4°39'44
	8695 May 14 17:22	0° Υ 0° Υ		оррознин	8700 Apr 20 11:33 8700 Apr 28 04:41	2°11633°34 30°R Ω	+ JJ 44
	8695 Jul 01 07:42	0° ∀		direct	8700 Apr 28 04:41 8700 May 27 08:11	30° ₹ 24° £ 30'31	
	8695 Aug 19 19:45	0°II		ancet	8700 Jun 28 14:57	0°M 0°M	
	8695 Oct 21 14:18	0.ಂ ೧ H			8700 Sep 03 22:33	0° ∡ 7	
retrograde	8695 Nov 17 11:21	4° © 22'45		desc. node	8700 Sep 19 15:44	8° ∡ 731'38	
- 5 5	8695 Dec 15 04:57	30°RⅡ		2000. 11000	8700 Oct 27 02:44	0°る	
					02.11		

	9700 D 15 04.02	0900			9705 D 22 04-20	00.7	
	8700 Dec 15 04:02	0° ≈			8705 Dec 23 04:30	0° ∡ 7	
	8701 Jan 30 06:48	0° ∀			8706 Feb 09 10:06	0°ප	
evening set	8701 Feb 08 02:34	5°) € 56'49			8706 Apr 04 00:57	0° ≈	
max. Earth dist.	8701 Feb 23 11:37		2.52182 AU	desc. node	8706 May 12 14:46	17°≈25'27	
	8701 Mar 14 19:19	0 ° $\mathbf{\Upsilon}$		retrograde	8706 Jun 26 10:53	27° ≈ 03'07	
				opposition	8706 Aug 04 03:25	18° ≈ 17'43	
conjunction	8701 Mar 29 19:55	10° Ƴ 44'44		greatest brilliancy	8706 Aug 04 14:41	18° ≈ 06′52	-1.5m
minimum elong	8701 Mar 29 19:59	10° Ƴ 44'51	1°07'23	min. Earth dist.	8706 Aug 09 05:04	16° ≈ 20′25	0.63226 AU
	8701 Apr 25 02:23	9° 8		direct	8706 Sep 14 11:58	8° ≈ 17'37	
morning rise	8701 May 24 22:14	22° 8 30'40			8706 Nov 22 06:25	0° ℋ	
	8701 Jun 03 16:21	Π $^{\circ}0$			8707 Jan 10 23:54	0 ° $\mathbf{\Upsilon}$	
	8701 Jul 12 05:20	0°€			8707 Feb 22 12:50	9° 8	
	8701 Aug 19 12:38	$0^{\circ}\Omega$			8707 Apr 03 01:06	Π $^{\circ}$ 0	
asc. node	8701 Aug 27 22:45	6° £ 33'05		asc. node	8707 Apr 19 19:21	13° Ⅱ 04'43	
	8701 Sep 27 12:09	0° m p			8707 May 11 08:01	0° ©	
	8701 Nov 07 05:27	0∘ ত			8707 Jun 18 15:44	$0^{\circ}\Omega$	
	8701 Dec 21 05:05	0°M,			8707 Jul 27 23:19	0° m)	
	8702 Feb 10 09:51	0° ₹		evening set	8707 Aug 13 18:34	12° m/28'00	
retrograde	8702 Apr 17 14:49	20° ₹ 22'51			8707 Sep 06 23:13	0∘ ಹ	
min. Earth dist.	8702 May 25 14:43	11° ×7 24'41	0.66203 AU			-	
opposition	8702 May 28 02:06	10° × ⁷ 25'24	2°24'04	conjunction	8707 Oct 10 22:01	23° ≏ 47'00	1°05'50
greatest brilliancy	8702 May 27 21:23	10° × 23° 24° 10° × 30'06	-1.4m	minimum elong	8707 Oct 10 22:38	23° ⊆ 48'03	1°05'54
direct	8702 Jul 06 22:15	0° ₹ 59'55	-1.4111	minimum clong	8707 Oct 10 22:38 8707 Oct 20 00:17	0°M	1 03 34
		6° ₹ 10'51		max. Earth dist.	8707 Oct 20 00:17 8707 Nov 08 08:43		2.57807 AU
desc. node	8702 Aug 07 17:00	0° 궁					2.37807 AU
	8702 Oct 02 16:29			morning rise	8707 Dec 01 05:44	28°M07'11	
	8702 Nov 24 21:17	0° ≈			8707 Dec 04 02:59	0° ∡ ¹	
	8703 Jan 11 04:15	0°) €			8708 Jan 20 03:49	6°0	
	8703 Feb 23 19:29	0°Υ			8708 Mar 09 04:39	0° ≈	
evening set	8703 Mar 28 05:18	23° Y 36'11		desc. node	8708 Mar 29 11:20	11° ≈ 56'39	
	8703 Apr 05 18:33	0° 8			8708 Apr 30 13:11	0° ∺	
max. Earth dist.	8703 Apr 20 01:16	10° 8 49'27	2.38945 AU		8708 Jul 04 15:47	0° Y	
	8703 May 14 21:14	$\Pi^{\circ}0$		retrograde	8708 Aug 10 09:22	6° Y 50′03	
					8708 Sep 13 07:56	30° ₹ ₩	
conjunction	8703 May 28 18:40	10° Ⅱ 52'50		opposition	8708 Sep 14 21:18	29° ∺ 26'43	
minimum elong	8703 May 28 21:27	10° Ⅱ 58′20	0°33'22	greatest brilliancy	8708 Sep 16 09:43	28° ¥ 53'59	-2.0m
	8703 Jun 22 00:03	0		min. Earth dist.	8708 Sep 23 03:07	26°) 29'48	0.52240 AU
asc. node	8703 Jul 15 19:38	18° © 49'55		direct	8708 Oct 23 18:55	20°) 24'49	
	8703 Jul 30 00:15	$0 {\circ} \Omega$			8708 Dec 03 06:02	0 ° Υ	
morning rise	8703 Aug 09 02:42	7° Ω 54'03			8709 Jan 25 08:58	9° 8	
	8703 Sep 06 18:44	O° Mp		asc. node	8709 Mar 06 20:49	28° 8 36'34	
	8703 Oct 17 03:17	0० ऌ			8709 Mar 08 17:57	$\Pi^{\circ}0$	
	8703 Nov 28 21:23	0° M ₊			8709 Apr 17 11:33	0° ©	
	8704 Jan 14 02:33	0° ∡ ¹			8709 May 26 21:36	$0^{\circ}\Omega$	
	8704 Mar 06 21:05	0°రె			8709 Jul 06 05:56	0° m)	
retrograde	8704 May 20 16:49	23° る 26'45			8709 Aug 17 05:23	0° ح	
desc. node	8704 Jun 24 16:46	15° る 56'27			8709 Sep 30 02:23	0° M	
opposition	8704 Jun 29 22:05	13° る 53'58	-0°10'47	evening set	8709 Oct 04 00:29	2°MJ37'19	
greatest brilliancy	8704 Jun 29 22:17	13° る 53'46		Ü	8709 Nov 14 16:40	0° ∡ ¹	
min. Earth dist.	8704 Jul 01 05:46	13° る 22'37					
direct	8704 Aug 10 07:20	3°₹56'29		conjunction	8709 Nov 22 01:47	4° ∡ 746'10	0°41'19
	8704 Oct 29 16:07	0° ≈		minimum elong	8709 Nov 22 02:57	4° х 48′02	
	8704 Dec 20 02:46	0°) €		max. Earth dist.	8709 Dec 03 06:02		2.65718 AU
	8705 Feb 02 20:08	0° Υ		max. Earth dist.	8709 Dec 31 13:05	0°ਰ 0°ਰ	2.03/10/10
	8705 Mar 15 23:24	0°8		morning rise	8710 Jan 06 12:58	3° ਰ 47'59	
	8705 Apr 23 23:26	0°II		desc. node	8710 Feb 14 06:56	28°る12'49	
	8705 May 31 23:18	0°©		desc. Hode	8710 Feb 17 03:19	28 O1249 0°≈	
aga mada	•	0°936'21				0 ≈ 0° ∺	
asc. node	8705 Jun 01 17:38 8705 Jun 02 17:21	1°93621			8710 Apr 06 05:35 8710 May 25 04:21	0° Υ	
evening set					· · · · · · · · · · · · · · · · · · ·	0°8	
	8705 Jul 08 23:13	0 ° Ω			8710 Jul 15 15:53		
	9705 A 12 00 55	200 02 512 5	0046111		8710 Sep 19 15:10	0°Ⅱ 4°Ⅱ	
conjunction	8705 Aug 12 08:55	26° £ 35'37		retrograde	8710 Oct 16 16:17	4° Ⅱ 09'59	
minimum elong	8705 Aug 12 05:41	26° Ω 29'28	0°46'01	•.•	8710 Nov 12 09:01	30°R 8	402.120
	8705 Aug 16 20:34	0° m/		opposition	8710 Nov 16 05:33	28° 8 55'13	
	8705 Sep 26 08:49	0∘ ʊ	a 45055 :==	greatest brilliancy	8710 Nov 17 09:03	28° 8 35'36	
max. Earth dist.	8705 Oct 01 12:39	3° £ 42'59	2.45053 AU	min. Earth dist.	8710 Nov 22 01:56		0.39000 AU
morning rise	8705 Oct 15 10:05	13° ≏ 36'08		direct	8710 Dec 18 11:16	22° 8 58'36	
	8705 Nov 08 00:38	0° M			8711 Jan 20 14:06	Π °0	

asc. node	8711 Jan 22 20:38	0° П 54'29		minimum elong	8716 Mar 11 16:49	22°) 53′37	1°04'29
	8711 Mar 16 12:13	0ං ව			8716 Mar 21 20:07	$0^{\circ}\mathbf{\Upsilon}$	
	8711 Apr 30 03:20	$0^{\circ}\Omega$		morning rise	8716 May 01 23:02	29° Ƴ 41'03	
	8711 Jun 12 16:15	0° m p			8716 May 02 09:18	9° 8	
	8711 Jul 26 22:53	0∘ ত			8716 Jun 11 06:31	Π $^{\circ}0$	
	8711 Sep 10 12:02	0° M,			8716 Jul 20 02:10	0ංම	
	8711 Oct 27 04:16	0° ∡ ¹			8716 Aug 27 15:02	$0^{\circ}\Omega$	
evening set	8711 Nov 13 08:31	10° ₹ 55'18		asc. node	8716 Sep 13 15:12	13° Ω 07'23	
	8711 Dec 13 10:45	0°ಕ			8716 Oct 05 20:15	0° m	
max. Earth dist.	8711 Dec 25 22:22	7° る 54'55	2.68155 AU		8716 Nov 15 23:52	0∘ ত	
					8716 Dec 31 07:10	0° M.	
conjunction	8711 Dec 28 14:02	9° ප 35'53	0°02'27		8717 Feb 28 09:25	0° ∡ ¹	
minimum elong	8711 Dec 28 14:07	9° ප 36'00	0°02'40	retrograde	8717 Apr 04 00:32	6° ⊀ ¹48'54	
behind sun begin	8711 Dec 27 19:50	9° る 07'02			8717 May 06 04:38	30°₽ M L	
behind sun end	8711 Dec 29 08:23	10°る04'59		min. Earth dist.	8717 May 10 06:52	28°M24'15	0.63723 AU
desc. node	8712 Jan 02 03:57	12° る 30'18		opposition	8717 May 14 05:54	26°M49'35	3°20'31
	8712 Jan 29 15:14	0° ≈		greatest brilliancy	8717 May 13 19:06	27°ML00'20	-1.5m
morning rise	8712 Feb 10 03:56	7° ≈ 22'58		direct	8717 Jun 22 02:19	17° M 44'10	
C	8712 Mar 16 04:31	0° ∀			8717 Aug 12 19:07	0° ∡ ¹	
	8712 Apr 30 20:03	$0^{\circ}\Upsilon$		desc. node	8717 Aug 24 05:42	4° √ 51'55	
	8712 Jun 14 12:53	0°8			8717 Oct 12 18:24	0°ठ	
	8712 Jul 28 11:55	0°II			8717 Dec 02 18:44	0° ≈	
	8712 Sep 10 11:27	0°ಅ			8718 Jan 18 11:26	0°) €	
	8712 Oct 27 09:26	$0^{\circ}\Omega$			8718 Mar 03 00:33	0° Υ	
asc. node	8712 Dec 09 20:46	20° Ω 29'09		evening set	8718 Mar 07 16:07	3° Υ 19'00	
retrograde	8713 Jan 02 18:06	24° Ω 22'45		max. Earth dist.	8718 Mar 22 01:16	13° Y 42′28	2.44093 AU
min. Earth dist.	8713 Jan 28 17:50	19° Ω 58'24	0.39757 AU	max. Earth dist.	8718 Apr 13 01:56	0°8	2.440/3/10
opposition	8713 Feb 04 19:11	17° Ω 49'27	3°49'10		6/16 Apr 13 01.30	00	
greatest brilliancy	8713 Feb 04 19:11 8713 Feb 03 17:22	17° 00 4927		conjunction	8718 May 02 12:48	14° 8 43'36	0°55'16
direct	8713 Mar 07 01:47	12° Ω 17'51	-2.0111	minimum elong	8718 May 02 12:48	14° 8 48'04	
direct	8713 May 06 00:07	0° mp		minimum ciong	8718 May 22 08:17	0° I	0 33 23
	•	0∘ ত بالا				0°©	
	8713 Jun 29 17:44	0°M		marning rise	8718 Jun 29 14:07 8718 Jul 08 08:02	0 6° © 54'18	
	8713 Aug 18 18:08			morning rise			
11-	8713 Oct 06 18:25	0°⊀ ⁷ 26°∗ 7 52122		asc. node	8718 Aug 01 12:40	25°958'20	
desc. node	8713 Nov 19 03:41	26° ₹ 52'22			8718 Aug 06 15:53	0° N	
	8713 Nov 24 03:48	0°る			8718 Sep 14 10:46	0° ™	
evening set	8713 Dec 18 11:46	15° る 18'05			8718 Oct 24 20:06	0∘ 亚	
and the	8714 Jan 10 13:25	0° ≈	2 (5000 177		8718 Dec 06 19:47	0° M ₊	
max. Earth dist.	8714 Jan 16 17:29	3°≈58'07	2.65089 AU		8719 Jan 23 01:12	0° ⊼	
	051451 01 00 44	100 5001	0025100		8719 Mar 22 06:35	0°る	
conjunction	8714 Feb 01 02:44	13°≈56′24		retrograde	8719 May 08 10:17	10°පි59'45	
minimum elong	8714 Feb 01 01:44	13°≈54'46	0°36'56	opposition	8719 Jun 17 21:16	1°る14'31	0°50'05
	8714 Feb 25 12:24	0°) (greatest brilliancy	8719 Jun 17 21:23	1° ろ 14'24	-1.3m
morning rise	8714 Mar 18 00:36	13°) (45′04		min. Earth dist.	8719 Jun 17 17:12	1°る18'33	0.68092 AU
	8714 Apr 10 18:56	0° Υ			8719 Jun 21 00:27	30°R. ✓	
	8714 May 23 08:40	0°B		desc. node	8719 Jul 12 06:08	23° ∡ 11'36	
	8714 Jul 03 10:44	$\Pi^{\circ}0$		direct	8719 Jul 28 20:01	21° ∡ 26′38	
	8714 Aug 12 11:43	0°©			8719 Sep 08 18:30	0°ರ	
	8714 Sep 21 07:14	0 \circ Ω			8719 Nov 10 05:16	0° ≈	
asc. node	8714 Oct 27 19:33	26° Ω 47'16			8719 Dec 29 09:37	0° ∀	
	8714 Nov 01 08:04	0° m p			8720 Feb 11 13:26	0°Υ	
	8714 Dec 17 00:10	0∘ ⊽			8720 Mar 23 13:48	0°B	
retrograde	8715 Feb 25 00:22	25° ≏ 15'34			8720 May 01 14:09	$\Pi^{\circ}0$	
min. Earth dist.	8715 Mar 27 19:04	18° ≏ 44'32	0.53151 AU	evening set	8720 May 04 17:09	2° Ⅱ 26'51	
greatest brilliancy	8715 Apr 02 22:29	16° ≏ 24'45	-2.0m		8720 Jun 08 14:22	0ංම	
opposition	8715 Apr 04 07:17	15° ≏ 53'28	5°16'00	asc. node	8720 Jun 18 11:37	7° 9 50'18	
direct	8715 May 09 13:13	8° ≏ 07'06					
	8715 Jul 20 09:50	0°M₊		conjunction	8720 Jul 13 18:06	27° © 47'57	0°18'03
	8715 Sep 14 18:52	0° ∡ ¹		minimum elong	8720 Jul 13 16:10	27° 5 44'09	0°17'48
desc. node	8715 Oct 07 04:42	12° ₹ 55'44			8720 Jul 16 13:22	$0^{\circ}\Omega$	
	8715 Nov 04 20:51	0° ට			8720 Aug 24 08:20	0° m	
	8715 Dec 23 05:35	0° ≈		max. Earth dist.	8720 Sep 03 17:31	7° m 50'55	2.39482 AU
evening set	8716 Jan 24 09:37	20° ≈ 49'57		morning rise	8720 Sep 21 23:56	21°M 25'58	
	8716 Feb 07 04:39	0°) €			8720 Oct 03 17:30	0∘ ত	
max. Earth dist.	8716 Feb 11 23:18	3°) 12′30	2.56728 AU		8720 Nov 15 07:41	0°M₊	
					8720 Dec 30 16:22	0° ∡ ¹	
conjunction	8716 Mar 11 17:38	22°) 55′02	-1°04'31		8721 Feb 17 22:27	0°₹	

	9721 A 17 00:45	0° ≈			9726 M 11 10.52	00.0	
1 1	8721 Apr 17 09:45	* -			8726 May 11 10:52	0° N	
desc. node	8721 May 29 04:51	12°≈49'28			8726 Jun 22 04:32	0° m)	
retrograde	8721 Jun 11 13:06	13°≈50'15	104011.7		8726 Aug 04 06:27	0∘ 亚	
opposition	8721 Jul 20 23:48	4° ≈ 43'18			8726 Sep 17 23:46	0° M ₊	
greatest brilliancy	8721 Jul 21 04:38	4°≈38'35		evening set	8726 Oct 29 11:32	27° M 00'04	
min. Earth dist.	8721 Jul 24 14:26	3°≈18'43	0.65868 AU		8726 Nov 03 03:27	0° ∡ ¹	
	8721 Aug 02 12:12	30°Rる					
direct	8721 Aug 31 13:33	24°る39'54		conjunction	8726 Dec 14 18:01	26° ∡ ³33′03	0°18'10
	8721 Oct 02 00:51	0° ≈		minimum elong	8726 Dec 14 18:34	26° ∡ ³33'57	0°18'23
	8721 Dec 04 09:26	0° ∀		max. Earth dist.	8726 Dec 17 08:56		2.67868 AU
	8722 Jan 20 04:44	0° Y			8726 Dec 20 04:22	0°ಕ	
	8722 Mar 02 23:05	0°8		desc. node	8727 Jan 18 18:50	18° る 47'02	
	8722 Apr 11 04:28	$\Pi^{\circ}0$		morning rise	8727 Jan 27 16:33	24° る 26'17	
asc. node	8722 May 06 11:09	19° Ⅱ 51'22			8727 Feb 05 10:40	0° ≈	
	8722 May 19 07:18	0 \circ			8727 Mar 24 10:45	0° ℋ	
	8722 Jun 26 10:41	$0 {\circ} \Omega$			8727 May 10 00:27	$0^{\circ}\Upsilon$	
evening set	8722 Jul 18 17:18	17° Ω 13′23			8727 Jun 25 07:14	9° 8	
	8722 Aug 04 12:56	0° m			8727 Aug 10 23:23	$\Pi^{\circ}0$	
	8722 Sep 14 06:48	0∘ ত			8727 Sep 29 19:52	$0 \circ \mathfrak{S}$	
				retrograde	8727 Dec 06 13:18	23° © 08'28	
conjunction	8722 Sep 20 07:11	4° ≙ 18'33	1°05'57	asc. node	8727 Dec 27 13:12	20° © 20'47	
minimum elong	8722 Sep 20 06:27	4° ♀ 17'14	1°05'57	min. Earth dist.	8728 Jan 03 06:18	18° 5 37'18	0.36834 AU
max. Earth dist.	8722 Oct 27 04:53	0°ML04'08	2.53274 AU	opposition	8728 Jan 05 23:02	17° 9 53'33	0°43'41
	8722 Oct 27 02:28	0° M ₊		greatest brilliancy	8728 Jan 05 20:34	17° © 55'14	-3.1m
morning rise	8722 Nov 14 15:25	12°MJ31'55		direct	8728 Feb 04 06:13	12° © 59'58	
S	8722 Dec 11 03:14	0° ∡ ¹			8728 Apr 01 02:08	$0^{\circ}\Omega$	
	8723 Jan 27 10:34	0°ප			8728 May 23 17:11	0° m/p	
	8723 Mar 18 14:06	0° ≈			8728 Jul 10 17:57	0∘ ⊽	
desc. node	8723 Apr 16 01:41	15° ≈ 51'04			8728 Aug 27 08:16	0° M ₊	
desc. Hode	8723 May 14 00:34	0° ₩			8728 Oct 14 04:38	0° ⊼ ¹	
retrograde	8723 Jul 22 19:37	20° ₩ 17'48			8728 Dec 01 00:58	0∘ਤ	
opposition	8723 Aug 28 18:52	12°\(\)1748	1026132	evening set	8728 Dec 01 00:38	2°る14'08	
greatest brilliancy	8723 Aug 29 20:51	12 X 10 33		desc. node	8728 Dec 04 14:08 8728 Dec 05 17:05	2°る56'37	
min. Earth dist.	•	9° H 36'03	0.57186 AU	max. Earth dist.	8729 Jan 07 14:08	23° る 47'21	2.66954 AU
	8723 Sep 04 23:08 8723 Oct 08 00:57	9 X 36 03 2° X 40′15	0.37180 AU	max. Earm dist.	8729 Jan 17 07:05	23 3 4721 0° ≈	2.00934 AU
direct		2 π4013 0° Υ			8/29 Jan 1/ 0/.03	0 ≈	
	8723 Dec 23 05:39	0.8 0.1			9720 I 19 02-07	0°≈30'31	0922127
	8724 Feb 07 00:48			conjunction	8729 Jan 18 02:07		
	8724 Mar 18 16:30	0°II		minimum elong	8729 Jan 18 01:28	0°≈29'28	0°22'15
asc. node	8724 Mar 23 11:48	3° Ⅱ 39'46		morning rise	8729 Mar 03 00:50	29°≈04'53	
	8724 Apr 26 14:27	0° ©			8729 Mar 04 10:14	0°) €	
	8724 Jun 04 10:20	0° N			8729 Apr 18 03:13	0° Υ	
	8724 Jul 14 06:06	0° m)			8729 May 31 08:23	0.8	
	8724 Aug 24 18:06	0∘ 亚			8729 Jul 12 05:25	0°Щ	
evening set	8724 Sep 15 15:55	15° ≙ 17'26			8729 Aug 22 04:15	0°©	
	8724 Oct 07 05:24	0° M ₊			8729 Oct 02 04:09	0 $^{\circ}\Omega$	
				asc. node	8729 Nov 13 12:09	29° Ω 20′30	
conjunction	8724 Nov 06 11:12	20°ML08'05			8729 Nov 14 12:24	0° m ∕	
minimum elong	8724 Nov 06 12:30	20°M_10'13	0°53'46		8730 Jan 10 11:35	0∘ ত	
	8724 Nov 21 13:26	0° ∡ ¹		retrograde	8730 Feb 06 19:43	4° £ 58'44	
max. Earth dist.	8724 Nov 23 17:12	1° ₹ ′24'04	2.63264 AU		8730 Mar 05 08:47	30°R, Mp	
morning rise	8724 Dec 23 15:11	20° ₹ 38′00		min. Earth dist.	8730 Mar 07 03:38	29° m 23'21	0.47780 AU
	8725 Jan 07 09:23	0° ප		greatest brilliancy	8730 Mar 13 22:37	26° Mp 57'35	-2.3m
	8725 Feb 24 08:39	0° ≈		opposition	8730 Mar 15 13:22	26° Mg 22'35	5°27'37
desc. node	8725 Mar 02 22:15	4° ≈ 03'13		direct	8730 Apr 18 00:00	19° m 22'50	
	8725 Apr 14 13:33	0° ℋ			8730 Jun 02 13:30	0∘ ত	
	8725 Jun 05 07:41	$0^{\circ}\Upsilon$			8730 Aug 02 07:06	0° M	
	8725 Aug 06 11:11	9° 8			8730 Sep 23 12:11	0° ∡ ¹	
retrograde	8725 Sep 16 20:02	8° 8 42'57		desc. node	8730 Oct 23 17:38	18° ∡ 105′50	
opposition	8725 Oct 19 10:30	2° 8 36'24	-5°43'07		8730 Nov 12 05:54	0° ප	
greatest brilliancy	8725 Oct 21 05:29	2° 8 02'07	-2.5m		8730 Dec 30 03:12	0° ≈	
	8725 Oct 27 15:59	30° ŖƳ		evening set	8731 Jan 09 15:17	6° ≈ 44'46	
min. Earth dist.	8725 Oct 27 20:22	29° Ƴ 56'38	0.43742 AU	max. Earth dist.	8731 Feb 01 03:29	21° ≈ 25'48	2.60632 AU
direct	8725 Nov 23 19:11	25° Ƴ 13'27			8731 Feb 14 01:13	0°) €	
	8725 Dec 20 18:22	8° 0					
asc. node	8726 Feb 08 13:31	25° 8 21'45		conjunction	8731 Feb 24 09:45	6° ¥ 57'29	-0°56'28
	8726 Feb 15 18:50	$\Pi^{\circ}0$		minimum elong	8731 Feb 24 08:36	6° ¥ 55'32	0°56'21
		0ංම		3	8731 Mar 29 21:42	0° Y	
	8726 Mar 31 02:35	0-99			0/31 Wiai 29 21.42	0 1	

morning rise	8731 Apr 13 06:47	10° Y 08'55		opposition	8736 Jul 07 11:44	21° る 42'47	-0°47'02
	8731 May 10 19:14	$_{0\circ}$ 8		greatest brilliancy	8736 Jul 07 12:49	21° る 41'42	-1.3m
	8731 Jun 20 01:54	$\Pi^{\circ}0$		min. Earth dist.	8736 Jul 09 14:44	20°る52'31	0.67521 AU
	8731 Jul 29 06:28	0ංම		direct	8736 Aug 18 00:01	11° ප් 42'02	
	8731 Sep 06 03:15	$0^{\circ}\Omega$			8736 Oct 21 07:41	0° ≈	
asc. node	8731 Oct 01 10:27	19° Ω 17'32			8736 Dec 14 06:21	0°) €	
asc. node	8731 Oct 15 17:46	0° Mp			8737 Jan 28 14:54	0° Υ	
		-					
	8731 Nov 26 16:31	0∘ 亚			8737 Mar 10 23:15	8°0	
	8732 Jan 13 19:31	0° M ₊			8737 Apr 19 01:11	0°II	
retrograde	8732 Mar 20 18:41	22°M12'24		asc. node	8737 May 23 03:37	26° ∏ 53'19	
min. Earth dist.	8732 Apr 24 01:51	14°M26'53	0.60262 AU		8737 May 27 01:52	0 \circ \odot	
opposition	8732 Apr 29 12:14	12°M18'05	4°12'56	evening set	8737 Jun 19 14:55	18° © 37'30	
greatest brilliancy	8732 Apr 28 17:23	12°M36'42	-1.6m		8737 Jul 04 02:19	$0 {\circ} \mathcal{N}$	
direct	8732 Jun 06 03:17	3°M37'57			8737 Aug 12 00:26	0° m	
	8732 Aug 27 10:19	0° ∡ ¹					
desc. node	8732 Sep 09 18:33	6° ҂ 749'48		conjunction	8737 Aug 27 11:14	11° Mp 35'52	0°56'45
	8732 Oct 21 13:37	0°ರ		minimum elong	8737 Aug 27 08:40	11° m)31'07	
	8732 Dec 10 05:42	0° ≈			8737 Sep 21 13:33	0∘ ⊽	
	8733 Jan 25 13:22	0° ₩		max. Earth dist.	8737 Oct 12 08:34	ა _ 14° ჲ 49'21	2.48105 AU
evening set		15° ¥ 39'49				25° Ω 06'04	2.46103 AU
Č	8733 Feb 17 14:43		2 40 402 4 11	morning rise	8737 Oct 27 02:22		
max. Earth dist.	8733 Mar 03 21:42	25° ∺ 37'16	2.49403 AU		8737 Nov 03 05:20	0° M .	
	8733 Mar 10 02:31	$\mathbf{\gamma}_{0}$			8737 Dec 18 06:30	0° ∡ ″	
					8738 Feb 04 01:00	0°ಕ	
conjunction	8733 Apr 10 03:09	22° Y 26′24	-1°05'42		8738 Mar 27 23:11	0° ≈	
minimum elong	8733 Apr 10 03:58	22° Ƴ 27'54	1°05'47	desc. node	8738 May 02 17:05	17° ≈ 57'05	
	8733 Apr 20 07:53	$_{0\circ}$ 8			8738 Jun 02 19:49	0° ∀	
	8733 May 29 19:24	$\Pi^{\circ}0$		retrograde	8738 Jul 05 13:54	5° 升 29′29	
morning rise	8733 Jun 08 17:03	7° Ⅱ 40'27		•	8738 Aug 04 10:49	30°R≈	
Ü	8733 Jul 07 05:57	0ංම		opposition	8738 Aug 12 17:08	26°≈58'10	-3°27'28
	8733 Aug 14 10:56	$0^{\circ}\Omega$		greatest brilliancy	8738 Aug 13 09:09	26°≈42'52	
asc. node	8733 Aug 18 06:50	2° Ω 59'23		min. Earth dist.	8738 Aug 18 13:17	24° ≈ 44'18	0.61317 AU
asc. node		0° m		direct	8738 Sep 22 18:26	17°≈03'40	0.01317 AC
	8733 Sep 22 07:58	0∘ ⊽		direct	•		
	8733 Nov 01 20:39				8738 Nov 11 23:01	0° ∀	
	8733 Dec 15 07:26	0° M ₊			8739 Jan 04 10:22	0° Υ	
	8734 Feb 02 09:39	0° ∡ ¹			8739 Feb 16 19:29	0° 8	
retrograde	8734 Apr 25 05:37	28° ∡ ¹20'07			8739 Mar 28 15:40	$\Pi^{\circ}0$	
min. Earth dist.	8734 Jun 03 02:05	19° ₹ 05'49	0.67144 AU	asc. node	8739 Apr 10 04:07	9° Ⅱ 42'08	
opposition	8734 Jun 04 18:08	18° ∡ ¹25'51	1°49'50		8739 May 06 03:04	0	
greatest brilliancy	8734 Jun 04 15:51	18° ∡ ¹28'08	-1.3m		8739 Jun 13 14:09	$0 {\circ} \Omega$	
direct	8734 Jul 15 01:25	8° ∡ 751'25			8739 Jul 23 00:56	O° My	
desc. node	8734 Jul 28 19:08	9° ∡ ¹55'22		evening set	8739 Aug 26 20:40	25° m 29'36	
	8734 Sep 24 20:51	0°రె		-	8739 Sep 02 03:54	0∘ ত	
	8734 Nov 19 06:44	0° ≈			8739 Oct 15 07:12	0°M	
	8735 Jan 06 04:02	0°) €				•	
	8735 Feb 18 23:55	$0^{\circ}\Upsilon$		conjunction	8739 Oct 21 10:03	4°M08'31	1°02'41
	8735 Mar 31 23:38	0.8 0.1		minimum elong	8739 Oct 21 11:05	4°M10'16	1°02'48
avanina aat		6° 8 54'28					2.59965 AU
evening set	8735 Apr 10 02:54			max. Earth dist.	8739 Nov 14 16:30		2.39903 AU
F d F :	8735 May 10 01:33	0°Ⅱ 11°Ⅲ2056	2.26920 433	· ·	8739 Nov 29 10:35	0°×7	
max. Earth dist.	8735 May 24 22:01	11° 11 38'56	2.36828 AU	morning rise	8739 Dec 10 00:12	6° ₹ 51'13	
					8740 Jan 15 08:13	0° ට	
conjunction	8735 Jun 14 03:42	27° Ⅱ 38'12			8740 Mar 03 21:23	0° ≈	
minimum elong	8735 Jun 14 05:22	27° Ⅱ 41'30	0°16'01	desc. node	8740 Mar 19 13:04	9° ≈ 25′12	
behind sun begin	8735 Jun 14 01:11	27° Ⅱ 33'15			8740 Apr 23 18:52	0° ℋ	
behind sun end	8735 Jun 14 09:32	27° Ⅱ 49'46			8740 Jun 20 03:35	0 ° Υ	
	8735 Jun 17 03:18	0ංම		retrograde	8740 Aug 22 18:08	17° Ƴ 44'09	
asc. node	8735 Jul 06 03:31	15° © 03'12		opposition	8740 Sep 26 08:09	10° Ƴ 45'44	-5°37'57
	8735 Jul 25 02:35	$0^{\circ}\Omega$		greatest brilliancy	8740 Sep 28 01:22	10° Ƴ 09'52	
morning rise	8735 Aug 26 08:43	25° Ω 02'32		min. Earth dist.	8740 Oct 04 23:32	7° Υ 46'40	0.49223 AU
	8735 Sep 01 20:32	0° Mp		direct	8740 Oct 04 23:32 8740 Nov 03 04:26	2° Υ 12'22	J. 17223 AU
	8735 Oct 12 04:19	0∘ ⊽		uncet		0°8	
				000 m-J-	8741 Jan 16 07:36		
	8735 Nov 23 19:15	0° M 0°. ₹		asc. node	8741 Feb 25 04:22	26° 8 43'56	
	8736 Jan 08 13:43	0° ∡ ¹			8741 Mar 01 17:41	0° Ⅱ	
	8736 Feb 28 13:29	0°ප			8741 Apr 11 06:34	0°95	
	8736 May 14 12:17	0° ≈			8741 May 21 04:12	$0^{\circ}\Omega$	
retrograde	8736 May 28 12:03	1° ≈ 07'20			8741 Jun 30 21:22	0° m	
	8736 Jun 10 18:17	30°₹₹			8741 Aug 12 04:16	0∘ ত	
desc. node	8736 Jun 14 19:07	29° る 12'22			8741 Sep 25 06:54	0° M	

evening set	8741 Oct 13 15:35	12° M .09'16			8746 Jun 28 02:22	I I°0	
	8741 Nov 10 00:54	0° ∡ ¹			8746 Aug 06 19:03	0ಂತ	
					8746 Sep 15 04:19	$0^{\circ}\Omega$	
conjunction	8741 Nov 30 12:21	13° ∡ 10′12	0°33'11	asc. node	8746 Oct 18 03:02	24° Ω 37'16	
minimum elong	8741 Nov 30 13:20	13° ∡ 11'46	0°33'23		8746 Oct 25 12:10	0° m	
max. Earth dist.	8741 Dec 08 12:08	18° ∡ 16'45	2.66727 AU		8746 Dec 08 03:35	0∘ ⊽	
	8741 Dec 26 22:01	0°ප			8747 Feb 03 12:46	0°M	
morning rise	8742 Jan 14 06:46	11° る 38'23		retrograde	8747 Mar 06 10:08	5°M56'37	
desc. node	8742 Feb 04 09:13	24°る58'20			8747 Apr 04 17:16	30°₽ ₽	
	8742 Feb 12 08:27	0° ≈		min. Earth dist.	8747 Apr 07 12:42	28° £ 56'56	0.55902 AU
	8742 Mar 31 23:48	0° ℋ		greatest brilliancy	8747 Apr 13 04:20	26° £ 45'40	-1.8m
	8742 May 18 21:42	0 ° $\mathbf{\gamma}$		opposition	8747 Apr 14 08:17	26° £ 18'33	4°57'28
	8742 Jul 06 20:33	0°8		direct	8747 May 20 11:54	18° ≙ 10'45	
	8742 Aug 29 01:13	$\Pi^{\circ}0$			8747 Jul 09 06:05	0°M	
retrograde	8742 Nov 03 20:45	21° Ⅲ 03'55			8747 Sep 08 10:04	0° ∡ ¹	
opposition	8742 Dec 03 19:21	16° Ⅱ 06'52	-3°00'27	desc. node	8747 Sep 27 07:12	10° ∡ ³32'59	
greatest brilliancy	8742 Dec 04 07:49	15° Ⅱ 58'26	-3.0m		8747 Oct 30 15:26	0°ರ	
min. Earth dist.	8742 Dec 07 00:02	15° Ⅱ 15'11	0.37278 AU		8747 Dec 18 10:13	0° ≈	
direct	8743 Jan 03 07:50	10° Ⅱ 50′26		evening set	8748 Feb 02 05:08	29° ≈ 47'30	
asc. node	8743 Jan 13 06:09	11° Ⅱ 31′09		C	8748 Feb 02 12:36	0° ∀	
	8743 Mar 03 13:29	0ಂತಾ		max. Earth dist.	8748 Feb 18 23:23	11°)(07'11	2.54302 AU
	8743 Apr 21 18:34	$0^{\circ}\Omega$			8748 Mar 17 03:44	$_{0}$ ° γ	
	8743 Jun 06 00:26	0° m)			0,101,141 1, 05.11	•	
	8743 Jul 21 05:35	0∘ ಹ		conjunction	8748 Mar 21 17:50	3° Y 14'54	-1°06'57
	8743 Sep 05 08:20	0° m		minimum elong	8748 Mar 21 17:27	3° Υ 14'13	
	8743 Oct 22 08:57	0° ⊼ ¹		minimum clong	8748 Apr 27 14:34	0° 8	1 0037
evening set	8743 Oct 22 08:37 8743 Nov 21 14:00	19° ∡ 106'24		morning rise	8748 May 14 10:33	12° 8 34'26	
evening set	8743 Dec 08 19:39	19 メ ・06 24		morning rise	•	0° Ⅱ	
desc. node	8743 Dec 08 19.39 8743 Dec 23 06:23	0 3 9° る 08'57			8748 Jun 06 08:24 8748 Jul 15 00:35	0°©	
			2.67966 AU			0° U	
max. Earth dist.	8743 Dec 30 22:23	14-0004/	2.07900 AU	1-	8748 Aug 22 09:55	0° δ ι 9° Ω 45'48	
	0744 1 07 10 00	170=2000	0006156	asc. node	8748 Sep 03 23:55		
conjunction	8744 Jan 05 10:09	17° る 30'06			8748 Sep 30 10:46	0° m	
minimum elong	8744 Jan 05 09:56	17° る 29'46	0°06'43		8748 Nov 10 06:26	0∘ 亚	
behind sun begin	8744 Jan 04 17:00	17° る 02'51			8748 Dec 24 14:24	0°M	
behind sun end	8744 Jan 06 02:53	17° පි 56'41			8749 Feb 15 17:50	0° ∡ 7	
	8744 Jan 25 00:18	0°≈		retrograde	8749 Apr 11 20:53	15° √ 11'13	0.65015.171
morning rise	8744 Feb 17 23:35	15°≈25'13		min. Earth dist.	8749 May 19 02:36		0.65217 AU
	8744 Mar 11 09:37	0° ∀		opposition	8749 May 22 06:23	5° ≯ 12'06	2°47'58
	8744 Apr 25 16:14	0° Υ		greatest brilliancy	8749 May 21 23:16	5° √ 19'12	-1.4m
	8744 Jun 08 18:33	0°B			8749 Jun 05 10:13	30°RM₊	
	8744 Jul 21 19:53	$\Pi^{\circ}0$		direct	8749 Jun 30 16:49	25°M55'06	
	8744 Sep 02 08:34	0°€			8749 Jul 28 13:26	0°⊀	
	8744 Oct 15 22:46	$0 {\circ} \Omega$		desc. node	8749 Aug 14 08:31	5° ≯ 25'22	
asc. node	8744 Nov 30 06:18	27° Ω 00'54			8749 Oct 06 06:02	0°ರ	
	8744 Dec 06 11:46	O° m			8749 Nov 27 12:00	0° ≈	
retrograde	8745 Jan 16 13:02	10° m 34'40			8750 Jan 13 14:11	0° ℋ	
min. Earth dist.	8745 Feb 11 20:29	5° m 51'54	0.42350 AU		8750 Feb 26 05:59	0 ° $\mathbf{\Upsilon}$	
greatest brilliancy	8745 Feb 18 13:37	3°Mp41'11	-2.6m	evening set	8750 Mar 18 23:23	14° Y 56'29	
opposition	8745 Feb 20 00:41	3° Mp 12′28	4°48'49	max. Earth dist.	8750 Apr 05 06:13	27° Ƴ 43'12	2.41166 AU
	8745 Mar 02 15:46	30° R Ω			8750 Apr 08 07:18	9° 8	
direct	8745 Mar 23 09:33	27° Ω 09'24					
	8745 Apr 14 01:00	O° My		conjunction	8750 May 16 20:13	29° 8 28'31	-0°44'10
	8745 Jun 21 09:46	0∘ ত		minimum elong	8750 May 16 23:05	29° 8 34'06	0°44'19
		000					
	8745 Aug 12 15:47	0° M ₊			8750 May 17 12:25	Π $^{\circ}0$	
	8745 Aug 12 15:47 8745 Oct 01 13:34	0° ⊪ 0° ⊀			8750 May 17 12:25 8750 Jun 24 16:58	0ಂ ತಾ 0∘∏	
desc. node	-			asc. node			
desc. node	8745 Oct 01 13:34	0°⊀		asc. node morning rise	8750 Jun 24 16:58	0ಂತ	
desc. node evening set	8745 Oct 01 13:34 8745 Nov 09 05:49	0° ⊀ 23° ⊀ 43′08			8750 Jun 24 16:58 8750 Jul 22 21:16	0° ടെ 22° ട്ട 15'27	
	8745 Oct 01 13:34 8745 Nov 09 05:49 8745 Nov 19 08:56	0°♂ 23°♂43'08 0°♂			8750 Jun 24 16:58 8750 Jul 22 21:16 8750 Jul 26 04:31	0°95 22°9515'27 24°951'25	
	8745 Oct 01 13:34 8745 Nov 09 05:49 8745 Nov 19 08:56 8745 Dec 26 11:26	0°♂ 23°♂43'08 0°♂ 23°♂19'27 0°≈	2.63726 AU		8750 Jun 24 16:58 8750 Jul 22 21:16 8750 Jul 26 04:31 8750 Aug 01 17:36	0°© 22°©15'27 24°©51'25 0°Ω	
evening set	8745 Oct 01 13:34 8745 Nov 09 05:49 8745 Nov 19 08:56 8745 Dec 26 11:26 8746 Jan 05 22:23	0°♂ 23°♂43'08 0°♂ 23°♂19'27 0°≈	2.63726 AU		8750 Jun 24 16:58 8750 Jul 22 21:16 8750 Jul 26 04:31 8750 Aug 01 17:36 8750 Sep 09 11:20	0°© 22°©15'27 24°©51'25 0° N 0° M	
evening set	8745 Oct 01 13:34 8745 Nov 09 05:49 8745 Nov 19 08:56 8745 Dec 26 11:26 8746 Jan 05 22:23	0°♂ 23°♂43'08 0°♂ 23°♂19'27 0°≈			8750 Jun 24 16:58 8750 Jul 22 21:16 8750 Jul 26 04:31 8750 Aug 01 17:36 8750 Sep 09 11:20 8750 Oct 19 18:49	0°5 22°515'27 24°551'25 0°N 0°M 0° D	
evening set max. Earth dist.	8745 Oct 01 13:34 8745 Nov 09 05:49 8745 Nov 19 08:56 8745 Dec 26 11:26 8746 Jan 05 22:23 8746 Jan 22 04:14	0° ₹ 23° ₹ 43'08 0° ₹ 23° ₹ 19'27 0° ≈ 10° ≈ 28'30	-0°44'58		8750 Jun 24 16:58 8750 Jul 22 21:16 8750 Jul 26 04:31 8750 Aug 01 17:36 8750 Sep 09 11:20 8750 Oct 19 18:49 8750 Dec 01 12:55	0°55 22°515'27 24°551'25 0°N 0°M 0°A 0°M	
evening set max. Earth dist. conjunction	8745 Oct 01 13:34 8745 Nov 09 05:49 8745 Nov 19 08:56 8745 Dec 26 11:26 8746 Jan 05 22:23 8746 Jan 22 04:14 8746 Feb 09 08:33	0° ₹ 23° ₹43'08 0° ₹ 23° ₹19'27 0° ≈ 10° ≈28'30 22° ≈21'49	-0°44'58		8750 Jun 24 16:58 8750 Jul 22 21:16 8750 Jul 26 04:31 8750 Aug 01 17:36 8750 Sep 09 11:20 8750 Oct 19 18:49 8750 Dec 01 12:55 8751 Jan 17 00:23	0°55 22°515'27 24°551'25 0°80 0°10 0°10 0°11 0°11	
evening set max. Earth dist. conjunction	8745 Oct 01 13:34 8745 Nov 09 05:49 8745 Nov 19 08:56 8745 Dec 26 11:26 8746 Jan 05 22:23 8746 Jan 22 04:14 8746 Feb 09 08:33 8746 Feb 09 07:26	0° ₹ 23° ₹43'08 0° ₹ 23° ₹319'27 0° ≈ 10° ≈28'30 22° ≈21'49 22° ≈19'59	-0°44'58	morning rise	8750 Jun 24 16:58 8750 Jul 22 21:16 8750 Jul 26 04:31 8750 Aug 01 17:36 8750 Sep 09 11:20 8750 Oct 19 18:49 8750 Dec 01 12:55 8751 Jan 17 00:23 8751 Mar 12 06:51	0°55 22°515'27 24°551'25 0°8 0°10 0°10 0°10 0°17 0°17	0°14'28
evening set max. Earth dist. conjunction minimum elong	8745 Oct 01 13:34 8745 Nov 09 05:49 8745 Nov 19 08:56 8745 Dec 26 11:26 8746 Jan 05 22:23 8746 Jan 22 04:14 8746 Feb 09 08:33 8746 Feb 09 07:26 8746 Feb 20 21:12 8746 Mar 27 01:49	0°♂ 23°♂43'08 0°♂ 23°♂19'27 0°≈ 10°≈28'30 22°≈21'49 22°≈19'59 0°∺	-0°44'58	morning rise	8750 Jun 24 16:58 8750 Jul 22 21:16 8750 Jul 26 04:31 8750 Aug 01 17:36 8750 Sep 09 11:20 8750 Oct 19 18:49 8750 Dec 01 12:55 8751 Jan 17 00:23 8751 Mar 12 06:51 8751 May 16 00:15	0°5 22°515'27 24°551'25 0°10 0°10 0°10 0°3 0°15 18°538'34	0°14'28 -1.3m
evening set max. Earth dist. conjunction minimum elong	8745 Oct 01 13:34 8745 Nov 09 05:49 8745 Nov 19 08:56 8745 Dec 26 11:26 8746 Jan 05 22:23 8746 Jan 22 04:14 8746 Feb 09 08:33 8746 Feb 09 07:26 8746 Feb 20 21:12	0°♂ 23°♂43'08 0°♂ 23°♂19'27 0°≈ 10°≈28'30 22°≈21'49 22°≈19'59 0°升 23°升08'14	-0°44'58	morning rise retrograde opposition	8750 Jun 24 16:58 8750 Jul 22 21:16 8750 Jul 26 04:31 8750 Aug 01 17:36 8750 Sep 09 11:20 8750 Oct 19 18:49 8750 Dec 01 12:55 8751 Jan 17 00:23 8751 Mar 12 06:51 8751 May 16 00:15 8751 Jun 25 08:32	0°5 22°515'27 24°551'25 0°れ 0°か 0°ふ 0°ぶ 0°3 18°538'34 8°559'40	

1 1-	9751 I-1 02 09.52	(0 Z 15107			975 (Nov. 15, 12,01	200 m 07142	0046144
desc. node	8751 Jul 02 08:52	6°る15'07		conjunction	8756 Nov 15 13:01	29°M07'42	0°46'44
	8751 Jul 24 15:43	30°R. ✓		minimum elong	8756 Nov 15 14:17	29° M .09'45	0°46'54
direct	8751 Aug 05 13:51	29° ₰ 06'05			8756 Nov 16 21:13	0° ∡ ¹	
	8751 Aug 18 02:52	o°ප		max. Earth dist.	8756 Nov 29 07:26	8° ∡ ′02′19	2.64728 AU
	8751 Nov 03 12:27	0° ≈		morning rise	8756 Dec 31 16:16	28° х¹ 43'32	
	8751 Dec 23 23:44	0° ∀			8757 Jan 02 16:30	0° ප	
	8752 Feb 06 12:38	$0^{\circ}\mathbf{\Upsilon}$			8757 Feb 19 09:55	0° ≈	
	8752 Mar 18 15:44	0° ႘		desc. node	8757 Feb 20 23:24	0° ≈ 58'27	
	8752 Apr 26 16:31	0°II		***************************************	8757 Apr 08 22:26	0° ∀	
avanina aat	•	18° ∏ 57′26			•	0° Υ	
evening set	8752 May 20 18:16				8757 May 28 21:24		
•	8752 Jun 03 16:45	0°©			8757 Jul 22 07:14	0°8	
asc. node	8752 Jun 08 18:47	4° © 01'55		retrograde	8757 Oct 03 02:06	22° 8 54'12	
	8752 Jul 11 15:53	$0^{\circ}\Omega$		opposition	8757 Nov 03 11:00	17° 8 17'47	
				greatest brilliancy	8757 Nov 04 23:51	16° 8 50'06	-2.7m
conjunction	8752 Jul 30 19:35	14° Ω 55'37	0°35'26	min. Earth dist.	8757 Nov 10 19:08	15° 8 06'09	0.40928 AU
minimum elong	8752 Jul 30 16:25	14° Ω 49′28	0°35'13	direct	8757 Dec 07 03:45	10° 8 42'20	
•	8752 Aug 19 11:18	0°m		asc. node	8758 Jan 29 22:04	27° 8 26'58	
max. Earth dist.	8752 Sep 21 11:26		2.42534 AU		8758 Feb 03 14:20	0°II	
max. Earth dist.	8752 Sep 28 21:02	0° 잔	2.42334 110		8758 Mar 22 21:10	0°©	
	*					0° U	
morning rise	8752 Oct 05 17:22	4° £ 56'24			8758 May 04 16:42		
	8752 Nov 10 10:27	0°M₊			8758 Jun 16 06:25	0° m)	
	8752 Dec 25 14:26	0°⊀			8758 Jul 29 21:54	0∘ ⊽	
	8753 Feb 12 02:57	0°る			8758 Sep 13 00:24	0° M ₊	
	8753 Apr 08 04:10	0° ≈			8758 Oct 29 10:01	0° ∡ 7	
desc. node	8753 May 19 07:25	16° ≈ 38'18		evening set	8758 Nov 07 01:53	5° ∡ ³32′08	
retrograde	8753 Jun 19 22:17	21° ≈ 48'13		•	8758 Dec 15 13:26	0°ರ	
opposition	8753 Jul 28 23:26	12°≈52'29	-2°25'36				
greatest brilliancy	8753 Jul 29 07:34	12°≈44'35		conjunction	8758 Dec 22 17:02	4° ට 32'06	0°09'00
				•		4°る32'33	
min. Earth dist.	8753 Aug 02 09:00	11°≈10'01	0.64537 AU	minimum elong	8758 Dec 22 17:19		0°09'13
direct	8753 Sep 08 10:57	2°≈50'07		behind sun begin	8758 Dec 22 01:56	4° ට 8'11	
	8753 Nov 27 01:08	0° ∀		behind sun end	8758 Dec 23 08:42	4° ප 56'56	
	8754 Jan 14 09:48	0 ° $\mathbf{\gamma}$		max. Earth dist.	8758 Dec 22 10:53	4° る 22'21	2.68134 AU
	8754 Feb 25 15:16	9° 8		desc. node	8759 Jan 08 20:18	15° る 24'42	
	8754 Apr 06 00:50	$\Pi^{\circ}0$			8759 Jan 31 18:38	0° ≈	
asc. node	8754 Apr 26 20:06	16° Ⅱ 16'56		morning rise	8759 Feb 04 09:15	2° ≈ 18′09	
	8754 May 14 05:52	0°ಅ			8759 Mar 19 12:51	0° ∀	
	8754 Jun 21 10:57	$0^{\circ}\Omega$			8759 May 04 13:50	0° Υ	
					•		
	8754 Jul 30 15:00	0° m			8759 Jun 18 22:07	0° 8	
evening set	8754 Aug 02 21:48	2° m 27'49			8759 Aug 02 21:04	0°П	
	8754 Sep 09 10:57	0∘ ত			8759 Sep 17 15:02	0	
					8759 Nov 09 05:14	0 $^{\circ}$ Ω	
conjunction	8754 Oct 02 09:00	16° ≏ 13'14	1°06'49	asc. node	8759 Dec 17 22:16	11° Ω 22'16	
minimum elong	8754 Oct 02 09:07	16° ♀ 13'27	1°06'52	retrograde	8759 Dec 23 00:46	11° Ω 33'24	
•	8754 Oct 22 08:07	0°M		min. Earth dist.	8760 Jan 18 08:01	7° Ω 14'14	0.38087 AU
max. Earth dist.	8754 Nov 03 13:11		2.55886 AU	opposition	8760 Jan 23 19:42	5° Ω 39'33	2°41'11
morning rise	8754 Nov 24 07:36	22°MJ06'41	2.55000710	greatest brilliancy	8760 Jan 23 04:24	5° Ω 50'35	-2.9m
morning rise					8760 Feb 22 10:58		-2.9111
	8754 Dec 06 08:38	0° ∡		direct		0° Ω 29'56	
	8755 Jan 22 10:40	0°る			8760 May 14 00:16	0° m)	
	8755 Mar 12 20:27	0° ≈			8760 Jul 03 23:08	0∘ ⊽	
desc. node	8755 Apr 06 03:55	14° ≈ 02'16			8760 Aug 21 18:03	0° M ₊	
	8755 May 05 12:43	0° ∀			8760 Oct 09 04:49	0° ⊼ ¹	
retrograde	8755 Aug 02 13:07	29°) 55'19		desc. node	8760 Nov 25 19:42	29° ∡ ¹40'32	
opposition	8755 Sep 07 18:14	22°) 13′45	-4°57'04		8760 Nov 26 08:07	ი∘ჳ	
greatest brilliancy	8755 Sep 09 02:07	21°) (44'30		evening set	8760 Dec 12 13:10	10° ට 11'52	
min. Earth dist.	8755 Sep 15 13:45	19°) 22'34		evening set	8761 Jan 12 16:27	0° ≈	
	•		U.JTJJJ MU	may Forth di-t			2 66022 411
direct	8755 Oct 17 08:04	12°) 54′09		max. Earth dist.	8761 Jan 12 19:40	0° ≈ 05'10	2.66023 AU
	8755 Dec 13 04:12	0° Υ					
	8756 Jan 31 03:02	0°8		conjunction	8761 Jan 26 01:31	8° ≈ 36'53	
	8756 Mar 12 15:25	$\Pi^{\circ}0$		minimum elong	8761 Jan 26 00:39	8° ≈ 35'29	0°31'01
asc. node	8756 Mar 13 21:53	0° Ⅲ 57′12			8761 Feb 27 17:59	0°)	
	8756 Apr 20 23:17	0 \circ \odot		morning rise	8761 Mar 11 11:04	7°) 47′33	
	8756 May 30 01:48	$0^{\circ}\Omega$		-	8761 Apr 13 05:45	0° Υ	
	8756 Jul 09 02:54	0° m			8761 May 26 02:57	0°8	
	8756 Aug 19 19:43	0∘ ಹ			8761 Jul 06 13:28	0°II	
evening set	8756 Sep 26 08:51	0 — 25° Ω 53'42			8761 Aug 15 23:38	0°©	
evening set	*					0° U	
	8756 Oct 02 10:49	0° M ₊		1	8761 Sep 25 05:23		
				asc. node	8761 Nov 03 21:40	28° Ω 34'24	

	8761 Nov 05 23:13	0° m			8767 Feb 14 03:02	0° Υ	
	8761 Dec 24 01:18	0∘ ত الله			8767 Mar 27 04:25	0°8	
retrograde	8761 Dec 24 01:18 8762 Feb 17 10:28	0 == 17° £ 20'37		evening set	8767 Apr 24 01:04	21° 8 16'39	
min. Earth dist.	8762 Mar 19 03:19	11° ⊆ 2037	0.50787 AU	evening set	8767 May 05 06:08	0° Ⅱ	
greatest brilliancy	8762 Mar 25 14:25	8° Ω 49'44	-2.1m		8767 Jun 12 07:12	0° ©	
opposition	8762 Mar 27 02:37	8° £ 15'53	5°25'37	asc. node	8767 Jun 26 13:12	11° © 17'42	
direct	8762 Apr 30 13:10	0° ⊆ 49'14	3 23 31	use. Hode	0707 Juli 20 15.12	11 317 42	
uncer	8762 Jul 25 11:29	0° ™		conjunction	8767 Jul 01 05:40	15° © 00'23	0°03'26
	8762 Sep 17 18:47	0° ⊼ 7		minimum elong	8767 Jul 01 05:16	14°959'35	0°03'13
desc. node	8762 Oct 13 20:28	15° √ 18'22		behind sun begin	8767 Jun 29 23:06	13° © 59'54	0 00 10
acse. noue	8762 Nov 07 06:11	0°る		behind sun end	8767 Jul 02 11:26	15° © 59'14	
	8762 Dec 25 10:30	0° ≈			8767 Jul 20 05:56	$0^{\circ}\Omega$	
evening set	8763 Jan 17 23:18	15°≈10'17		max. Earth dist.	8767 Aug 11 18:08		2.37371 AU
max. Earth dist.	8763 Feb 07 06:25		2.58560 AU		8767 Aug 27 23:23	0° m)	
	8763 Feb 09 10:10	0°) €		morning rise	8767 Sep 11 11:12	10° m 57'07	
				C	8767 Oct 07 06:29	0∘ ⊽	
conjunction	8763 Mar 05 12:39	16° ∺ 20'01	-1°01'41		8767 Nov 18 19:06	0°M	
minimum elong	8763 Mar 05 11:39	16° ∺ 18'18	1°01'36		8768 Jan 03 05:23	0° ∡ ¹	
	8763 Mar 25 04:48	0 ° Υ			8768 Feb 21 23:35	o°ප	
morning rise	8763 Apr 24 02:22	21° Y 21'08			8768 Apr 23 22:13	0° ≈	
-	8763 May 05 22:36	0°8		desc. node	8768 Jun 04 21:34	8° ≈ 51'45	
	8763 Jun 15 00:29	$\Pi^{\circ}0$		retrograde	8768 Jun 05 10:53	8° ≈ 51'52	
	8763 Jul 24 00:18	0°€			8768 Jul 14 03:53	30°Ŗ⋜	
	8763 Aug 31 16:20	$0^{\circ}\Omega$		opposition	8768 Jul 15 03:54	29° る 36'28	-1°23'22
asc. node	8763 Sep 21 17:12	16° Ω 09'55		greatest brilliancy	8768 Jul 15 06:47	29° る 33'39	-1.3m
	8763 Oct 10 00:16	o° mp		min. Earth dist.	8768 Jul 18 02:11	28° පි 27'31	0.66740 AU
	8763 Nov 20 09:17	0∘ ⊽		direct	8768 Aug 25 17:46	19° ට 33'43	
	8764 Jan 05 11:20	0°M			8768 Oct 10 18:10	0° ≈	
	8764 Mar 15 11:36	0° ∡ ¹			8768 Dec 08 00:28	0° ∀	
retrograde	8764 Mar 28 23:56	1° ∡ 10'46			8769 Jan 23 05:12	$0^{\circ}\Upsilon$	
•	8764 Apr 10 23:00	30°RM₊			8769 Mar 05 20:23	0°8	
min. Earth dist.	8764 May 03 09:55	23°Mo3'14	0.62292 AU		8769 Apr 14 00:49	$\Pi^{\circ}0$	
greatest brilliancy	8764 May 07 11:12	21°M26'38	-1.5m	asc. node	8769 May 13 12:36	23° Ⅲ 12′06	
opposition	8764 May 08 01:20	21°M12'36	3°43'20		8769 May 22 02:50	0°5	
direct	8764 Jun 15 09:30	12° ™ 17'54			8769 Jun 29 04:32	$0^{\circ}\Omega$	
	8764 Aug 18 16:42	0° ∡ ¹		evening set	8769 Jul 06 06:27	5° Ω 31'16	
desc. node	8764 Aug 30 21:38	5° ∡ ¹42'26			8769 Aug 07 03:56	o° m y	
	8764 Oct 15 18:42	8°0					
	8764 Dec 05 05:34	0° ≈		conjunction	8769 Sep 10 09:04	25° m 22'32	1°03'21
	8765 Jan 20 19:44	0° ℋ		minimum elong	8769 Sep 10 07:33	25° m) 19'47	1°03'18
evening set	8765 Feb 27 14:13	25° ¥ 52'55			8769 Sep 16 18:21	0∘ ⊽	
	8765 Mar 05 10:06	0 ° Υ		max. Earth dist.	8769 Oct 21 08:24	24° ≏ 25'41	2.51028 AU
max. Earth dist.	8765 Mar 13 11:13	5° Ƴ 44'16	2.46492 AU		8769 Oct 29 10:41	0°M	
	8765 Apr 15 14:20	0°8		morning rise	8769 Nov 06 22:07	5°M46'37	
					8769 Dec 13 09:51	0° ∡	
conjunction	8765 Apr 22 08:09	5° 8 03'18	-1°01'04		8770 Jan 29 19:46	5°0	
minimum elong	8765 Apr 22 09:50	5° 8 06'28	1°01'11		8770 Mar 21 13:08	0° ≈	
	8765 May 24 23:30	Π °0		desc. node	8770 Apr 22 18:21	17° ≈ 19'45	
morning rise	8765 Jun 24 21:33	24° Ⅱ 09'43			8770 May 19 17:18	0° ∀	
	8765 Jul 02 07:34	0 \circ ∞		retrograde	8770 Jul 15 03:02	14°) (15′25	
asc. node	8765 Aug 08 14:09	29° 5 20'19		opposition	8770 Aug 21 15:51	5°) 59'43	-4°02'05
	8765 Aug 09 10:25	$0 {\circ} \Omega$		greatest brilliancy	8770 Aug 22 13:14	5°) 39′30	
	8765 Sep 17 05:13	O° m y		min. Earth dist.	8770 Aug 28 05:58	3°) €30'31	0.59154 AU
	8765 Oct 27 14:27	0∘ ⊽			8770 Sep 07 11:56	30° ₹ ≈	
	8765 Dec 09 16:11	0°M		direct	8770 Oct 01 07:51	26° ≈ 13'43	
	8766 Jan 26 10:10	0° ∡ 7			8770 Oct 26 12:35	0° ∀	
	8766 Mar 30 01:01	0°ප			8770 Dec 28 03:46	0° Υ	
retrograde	8766 May 02 19:11	6° る 07'47			8771 Feb 10 19:03	0°8	
	8766 Jun 02 18:41	30°R <i>≯</i>			8771 Mar 23 01:48	$\Pi^{\circ}0$	
min. Earth dist.	8766 Jun 11 11:00	26° ≯ 38′28	0.67802 AU	asc. node	8771 Mar 31 12:51	6° Ⅱ 30′10	
opposition	8766 Jun 12 07:36	26° ⊀ 17'58	1°15'00		8771 Apr 30 18:38	0	
greatest brilliancy	8766 Jun 12 06:58	26° ≯ 18'35	-1.3m		8771 Jun 08 09:48	0 $^{\circ}\Omega$	
desc. node	8766 Jul 18 22:21	16° ∡ °41'53			8771 Jul 18 00:16	0° m)	
direct	8766 Jul 23 00:21	16° ∡ 35'45			8771 Aug 28 06:50	0∘ ⊽	
	8766 Sep 15 10:57	0°る		evening set	8771 Sep 07 23:43	7° Ω 33'15	
	8766 Nov 13 09:02	0° ≈			8771 Oct 10 13:09	0°M₊	
	8767 Jan 01 01:12	0°) €					

conjunction	8771 Oct 31 07:58	13°M56'41			8776 Oct 07 00:12	0° Ω 29° Ω 32'11	
minimum elong max. Earth dist.	8771 Oct 31 09:13 8771 Nov 20 15:16	13°M58'45	0°58'02 2.61889 AU	asc. node	8776 Nov 20 13:34 8776 Nov 21 08:01	0° m	
max. Earth dist.	8771 Nov 20 13:10 8771 Nov 24 17:51	27 llG1917 0° √	2.01889 AU	retrograde	8777 Jan 29 01:23	25° Mp 24'45	
morning rise	8771 Dec 18 11:28	15° ₹ 19'34		min. Earth dist.	8777 Feb 25 09:14	20° m 13'46	0.45317 AU
morning rise	8772 Jan 10 13:18	0° ਰ		greatest brilliancy	8777 Mar 04 06:02	17° m 51'46	-2.4m
	8772 Feb 27 17:21	0° ≈		opposition	8777 Mar 05 20:55	-•	5°19'55
desc. node	8772 Mar 09 14:38	6° ≈ 39'43		direct	8777 Apr 07 10:21	10° mp 42'21	
	8772 Apr 17 12:53	0° ∀			8777 Jun 11 02:52	0∘ <u>⊽</u>	
	8772 Jun 10 01:58	$0^{\circ}\mathbf{\Upsilon}$			8777 Aug 06 02:55	0°M	
retrograde	8772 Sep 05 07:50	29° Ƴ 36'48			8777 Sep 26 05:17	0°⊀	
opposition	8772 Oct 08 20:47	23° Y 06'10	-5°46'49	desc. node	8777 Oct 30 09:06	20° х 40′58	
greatest brilliancy	8772 Oct 10 16:35	22° Y 29'42	-2.3m		8777 Nov 14 12:50	5°0	
min. Earth dist.	8772 Oct 17 14:14	20° Ƴ 13′08	0.46179 AU		8778 Jan 01 07:16	0° ≈	
direct	8772 Nov 14 11:18	15° Y 08'35		evening set	8778 Jan 03 12:15	1° ≈ 24'49	
	8773 Jan 04 02:12	0° 8		max. Earth dist.	8778 Jan 27 19:58	17° ≈ 09'33	2.62121 AU
asc. node	8773 Feb 15 14:32	25° 8 45'48			8778 Feb 16 06:35	0° ∀	
	8773 Feb 21 19:39	0°Щ					
	8773 Apr 04 14:52	0ංම ව		conjunction	8778 Feb 17 19:19	1° ₩ 01'16	
	8773 May 15 04:48	0° N		minimum elong	8778 Feb 17 18:09	0°) 59'19	0°51'53
	8773 Jun 25 09:12	0° m)			8778 Apr 01 06:53	0° Υ	
	8773 Aug 07 00:41	0∘ ™		morning rise	8778 Apr 05 14:14	3°Y00'31 0° ∀	
evening set	8773 Sep 20 09:54 8773 Oct 22 19:40	0° ጤ 21° ጤ 15'17			8778 May 13 09:51 8778 Jun 22 22:13	0°U	
evening set	8773 Nov 05 08:12	21 llG1317 0° √ 7			8778 Aug 01 08:03	0°©	
	0773 NOV 03 00.12	• ^			8778 Sep 09 09:37	0°Ω	
conjunction	8773 Dec 08 17:28	21° х 22'45	0°24'31	asc. node	8778 Oct 08 11:54	22° Ω 02'04	
minimum elong	8773 Dec 08 18:13	21° × ⁷ 23'56	0°24'44	use. noue	8778 Oct 19 05:24	0° my	
max. Earth dist.	8773 Dec 13 16:15		2.67463 AU		8778 Nov 30 15:50	0∘ <u>⊽</u>	
	8773 Dec 22 06:43	0°ರ			8779 Jan 19 21:57	0°M	
morning rise	8774 Jan 21 23:24	19° る 27'50		retrograde	8779 Mar 15 08:13	15°M56'32	
desc. node	8774 Jan 25 11:12	21° る 40'32		min. Earth dist.	8779 Apr 17 16:47	8°M30'57	0.58421 AU
	8774 Feb 07 14:34	0° ≈		opposition	8779 Apr 23 18:56	6°M07'39	4°33'17
	8774 Mar 26 20:54	0° ∀		greatest brilliancy	8779 Apr 22 20:05	6°M30'04	-1.7m
	8774 May 12 23:22	0°Υ			8779 May 12 01:36	30°Ŗ Ω	
	8774 Jun 29 06:01	0.8		direct	8779 May 30 19:09	27° £ 41'06	
	8774 Aug 16 22:24	0°II			8779 Jun 20 01:35	0°M.	
rotro aro do	8774 Oct 13 00:53 8774 Nov 22 14:10	0°© 9°©19′59		desc. node	8779 Sep 01 11:11	0°⊀ 8°⊀31'12	
retrograde opposition	8774 Dec 22 09:27	9 \$31939 4°\$22'18	0°57'13	desc. node	8779 Sep 17 10:07 8779 Oct 25 06:11	0°る	
greatest brilliancy	8774 Dec 22 09:27 8774 Dec 22 10:51	4°921'22	-3.1m		8779 Dec 13 13:46	0°≈	
min. Earth dist.	8774 Dec 22 10:31	4°922'48	0.36588 AU		8780 Jan 28 20:24	0° ∀	
asc. node	8775 Jan 03 14:46	1°922'00	0.50500710	evening set	8780 Feb 11 08:50	9° ₩ 06'48	
	8775 Jan 11 20:23	30°RⅡ		max. Earth dist.	8780 Feb 26 15:47	19°) ₹36'53	2.51666 AU
direct	8775 Jan 20 20:49	29° Ⅱ 27'42			8780 Mar 12 11:36	$0^{\circ}\mathbf{\Upsilon}$	
	8775 Jan 29 21:11	0ංම					
	8775 Apr 11 10:34	$0^{\circ}\Omega$		conjunction	8780 Apr 01 09:37	14° Y 15'29	-1°07'13
	8775 May 29 17:04	0° m		minimum elong	8780 Apr 01 09:51	14° Y 15'55	1°07'16
	8775 Jul 15 05:55	0∘ ಹ			8780 Apr 22 20:30	0°8	
	8775 Aug 31 02:05	0°M		morning rise	8780 May 28 03:13	26° 8 39'30	
	8775 Oct 17 12:35	0° ∡ 7			8780 Jun 01 11:33	0°Ⅱ	
evening set	8775 Nov 29 14:56	27° ₹ 07'41			8780 Jul 10 00:49	0° ©	
desc. node	8775 Dec 04 04:14 8775 Dec 13 08:56	0°중 5°중48'21		asa mada	8780 Aug 17 07:33	0° Ω 6° Ω 15'42	
max. Earth dist.	8776 Jan 04 23:31		2.67510 AU	asc. node	8780 Aug 25 08:26 8780 Sep 25 05:18	0°M)	
max. Earth dist.	8//0 Jan 04 23.31	20 00039	2.07310 AU		8780 Nov 04 19:02	0° ت	
conjunction	8776 Jan 13 05:19	25° る 23'52	-0°16'05		8780 Dec 18 11:07	0° m	
minimum elong	8776 Jan 13 04:50	25° ♂ 23'06			8781 Feb 06 15:54	0° ⊼ ¹	
behind sun begin	8776 Jan 13 02:53	25° る 19'59		retrograde	8781 Apr 19 13:21	23° ҂ 17'30	
behind sun end	8776 Jan 13 06:47	25° පි 26'13		min. Earth dist.	8781 May 27 17:10	14° √ 16'44	0.66405 AU
	8776 Jan 20 09:59	0° ≈		opposition	8781 May 30 01:38	13° ∡ 20′25	2°14'14
morning rise	8776 Feb 25 22:19	23° ≈ 36'44		greatest brilliancy	8781 May 29 21:30	13° ₹ 24'32	-1.4m
	8776 Mar 06 16:20	0° ∀		direct	8781 Jul 09 00:51	3° ≯ 53′21	
	8776 Apr 20 15:41	0° Y		desc. node	8781 Aug 04 10:48	7° ∡ ³35′04	
	8776 Jun 03 06:15	0°8			8781 Sep 29 01:47	0°₹	
	8776 Jul 15 14:53	0°Щ			8781 Nov 22 01:35	0° ≈	
	8776 Aug 26 04:03	0ං ව			8782 Jan 08 16:01	0°) €	

		00					
	8782 Feb 21 11:29	$0^{\circ}\Upsilon$		morning rise	8786 Dec 03 10:12	1° ≯ 10′05	
evening set	8782 Mar 31 02:04	27° Y 24'35			8787 Jan 17 13:20	0°₹	
	8782 Apr 03 13:06	9° 8			8787 Mar 07 09:29	0° ≈	
max. Earth dist.	8782 Apr 24 22:11	16° 8 14'14	2.38448 AU	desc. node	8787 Mar 27 05:27	11° ≈ 45'54	
	8782 May 12 17:06	$\Pi^{\circ}0$			8787 Apr 28 05:34	0° ∀	
	,				8787 Jun 29 02:18	0°Υ	
conjunction	8782 Jun 01 08:11	15° Ⅱ 23'04	0°20'17	retrograde	8787 Aug 14 02:52	10° Υ 12'37	
·	8782 Jun 01 10:48	15° П 28'13		•	•	2° Υ 53'44	5022152
minimum elong			0 29 28	opposition	8787 Sep 18 11:54		
	8782 Jun 19 20:14	0° ©		greatest brilliancy	8787 Sep 20 01:30	2° Υ 20'10	-2.0m
asc. node	8782 Jul 13 04:58	18° 5 29'03			8787 Sep 26 15:35	30° ₹	
	8782 Jul 27 19:51	$0^{\circ}\Omega$		min. Earth dist.	8787 Sep 26 20:59	29°) 55′20	0.51659 AU
morning rise	8782 Aug 13 00:28	12° Ω 39'26		direct	8787 Oct 27 05:04	23°) € 57'03	
	8782 Sep 04 12:51	0° m			8787 Nov 27 13:58	0 ° \mathbf{Y}	
	8782 Oct 14 19:03	0∘ ত			8788 Jan 23 04:16	0°8	
	8782 Nov 26 09:25	0°M		asc. node	8788 Mar 04 05:20	28° 8 37'59	
	8783 Jan 11 07:42	0° ∡ 7			8788 Mar 06 02:02	0°II	
	8783 Mar 04 06:03	⊙ੰਤ			8788 Apr 15 00:07	0₀ ⊙ T	
. 1					•		
retrograde	8783 May 23 16:43	26° る 17'22			8788 May 24 11:49	$0^{\circ}\Omega$	
desc. node	8783 Jun 22 11:08	20° る 43'04			8788 Jul 03 20:23	0° ™	
opposition	8783 Jul 02 20:48	16° ⋜ 45'54	-0°21'32		8788 Aug 14 19:23	0∘ ⊽	
greatest brilliancy	8783 Jul 02 21:07	16° る 45'34	-1.3m		8788 Sep 27 15:34	0°M₊	
min. Earth dist.	8783 Jul 04 07:24	16° る 11'41	0.67938 AU	evening set	8788 Oct 06 10:01	5° ™ 51'25	
direct	8783 Aug 13 06:52	6° る 47'59			8788 Nov 12 04:58	0° ∡ ¹	
	8783 Oct 26 23:51	0° ≈					
	8783 Dec 18 08:28	0° ∀		conjunction	8788 Nov 24 05:02	7° ∡ ¹45'12	0°39'02
	8784 Feb 01 09:46	0° Υ		v	8788 Nov 24 06:09	7° 🖍 43°12	0°39'15
				minimum elong			
	8784 Mar 13 17:08	0° 8		max. Earth dist.	8788 Dec 04 15:56		2.65941 AU
	8784 Apr 21 19:13	$\Pi^{\circ}0$			8788 Dec 29 00:28	0°る	
	8784 May 29 19:42	0		morning rise	8789 Jan 08 12:14	6° る 38'58	
asc. node	8784 May 30 04:33	0° ॐ 17'32		desc. node	8789 Feb 11 01:27	27° る 48'10	
evening set	8784 Jun 06 10:23	6° © 02'01			8789 Feb 14 13:25	0° ≈	
	8784 Jul 06 19:06	$0^{\circ}\Omega$			8789 Apr 03 13:00	0°) €	
	8784 Aug 14 15:01	0° m			8789 May 22 05:27	0° Y	
	Ü	ì			8789 Jul 11 23:25	0° ႘	
conjunction	8784 Aug 15 20:30	0° m 55'54	0.40,08		8789 Sep 10 11:12	0°II	
minimum elong	Č			retrograde	8789 Oct 20 11:05	8° П 35'12	
minimum elong	8784 Aug 15 17:19	0° Mp 49'53	0°48'59	Č			4012100
	8784 Sep 24 01:13	0∘ ⊽		opposition	8789 Nov 19 22:23	3° Ⅱ 24'46	
max. Earth dist.	8784 Oct 04 13:20	7° ჲ 33'29	2.45636 AU	greatest brilliancy	8789 Nov 20 22:45	3° Ⅱ 07'32	
morning rise	8784 Oct 18 05:40	17° ≏ 15'12		min. Earth dist.	8789 Nov 25 07:59	1° Ⅱ 53'42	0.38591 AU
	8784 Nov 05 14:24	0°M₊			8789 Dec 02 17:09	30°₽ ႘	
	8784 Dec 20 14:46	0° ∡ ¹		direct	8789 Dec 21 18:39	27° 8 36'39	
	8785 Feb 06 14:11	0°ප			8790 Jan 09 12:54	$\Pi^{\circ}0$	
	8785 Mar 31 11:38	0° ≈		asc. node	8790 Jan 20 07:09	3° Ⅱ 15'30	
desc. node	8785 May 09 09:38	18° ≈ 17'12			8790 Mar 12 17:44	0 ಹ	
dese. Hode	8785 Jun 26 11:42	0° ∀			8790 Apr 27 03:10	$0^{\circ}\Omega$	
. 1					•		
retrograde	8785 Jun 28 16:59	0°) €01'47			8790 Jun 09 22:27	0° m y	
	8785 Jun 30 21:46	30°R≈			8790 Jul 24 07:43	0∘ ⊽	
opposition	8785 Aug 06 06:41	21° ≈ 18′50	-3°01'43		8790 Sep 07 22:01	0°M₊	
greatest brilliancy	8785 Aug 06 18:56	21° ≈ 07'02	-1.5m		8790 Oct 24 14:56	0° ∡ ¹	
min. Earth dist.	8785 Aug 11 11:13	19° ≈ 18'56	0.62875 AU	evening set	8790 Nov 15 10:51	13° ∡ 52′06	
direct	8785 Sep 16 13:25	11° ≈ 19'58			8790 Dec 10 22:00	8°0	
	8785 Nov 18 06:58	0° ∀		max. Earth dist.	8790 Dec 27 11:09	10° ට 29'17	2.68155 AU
	8786 Jan 08 04:39	0° Y		desc. node	8790 Dec 29 22:49	12° る 03'56	
	8786 Feb 20 02:04	0°8				0	
	8786 Mar 31 18:06	0°II		conjunction	8790 Dec 30 13:48	12° る 27'42	0000120
1				•			
asc. node	8786 Apr 17 05:21	12° ∏ 49'17		minimum elong	8790 Dec 30 13:48	12° る 27'41	0°00'06
	8786 May 09 02:35	0°©		behind sun begin	8790 Dec 29 19:53	11° ろ 59'16	
	8786 Jun 16 10:27	$0 ^{\circ} \Omega$		behind sun end	8790 Dec 31 07:43	12° る 56'06	
	8786 Jul 25 17:09	0° m			8791 Jan 27 03:01	0° ≈	
evening set	8786 Aug 16 20:41	16° Mp 24′20		morning rise	8791 Feb 12 02:50	10° ≈ 14'44	
	8786 Sep 04 15:29	0∘ ত			8791 Mar 14 16:25	0° ∀	
	•				8791 Apr 29 07:17	$0^{\circ}\Upsilon$	
conjunction	8786 Oct 13 11:19	27° ≏ 10'26	1°05'09		8791 Jun 12 22:14	0°8	
minimum elong	8786 Oct 13 11:19		1°05'15		8791 Jul 26 17:25	0°II	
mmmum ciong			1 03 13				
ne at 44	8786 Oct 17 14:36	0°M	2.50222.177		8791 Sep 08 08:36	0° ©	
max. Earth dist.	8786 Nov 10 06:08		2.58233 AU		8791 Oct 24 04:40	0°N	
	8786 Dec 01 15:09	0°⊀		asc. node	8791 Dec 08 08:08	23° Ω 04'09	

retrograde	8792 Jan 07 00:57	28° Ω 54'14		max. Earth dist.	8797 Mar 25 01:58		2.43539 AU
min. Earth dist.	8792 Feb 01 22:21	24° Ω 27'53			8797 Apr 10 20:28	9° 8	
greatest brilliancy	8792 Feb 08 02:49	22° Ω 33'55			070734 05 16 04	100 🗸 10100	0052155
opposition	8792 Feb 09 07:10	22°Ω12'00 16°Ω34'54	4°07'08	conjunction	8797 May 05 16:04	18° 8 48'22	
direct	8792 Mar 10 18:19	0° m		minimum elong	8797 May 05 18:34	18° 8 53'10 0° Ⅱ	0°53′04
	8792 Apr 30 15:24 8792 Jun 26 09:36	0∘ ʊ ∩ım			8797 May 20 04:15 8797 Jun 27 10:37	0°9	
	8792 Aug 15 20:55	0° m		morning rise	8797 Jul 12 04:44	11° 9 38'56	
	8792 Aug 13 20:33 8792 Oct 04 01:43	0° ⊼ ¹		asc. node	8797 Jul 12 04:44 8797 Jul 29 23:18	25° © 39'32	
desc. node	8792 Nov 15 21:44	26° ₹ 127'56		asc. node	8797 Aug 04 11:58	0°Ω	
dese. Hode	8792 Nov 21 13:48	0°る			8797 Sep 12 05:23	0° m	
evening set	8792 Dec 20 12:08	ා ප් 18° ප් 10'51			8797 Oct 22 12:00	0∘ ರ ೧.ಗ	
e venning see	8793 Jan 08 01:34	0° ≈			8797 Dec 04 07:03	o° m .	
max. Earth dist.	8793 Jan 18 03:04		2.64860 AU		8798 Jan 20 02:34	0° ⊼ ¹	
man. Darun uibu	0775 0411 10 05.01	0.0201.	2.0.000110		8798 Mar 17 11:43	°ਨ	
conjunction	8793 Feb 03 03:43	16° ≈ 52'18	-0°39'28	retrograde	8798 May 10 08:19	13° る 48'41	
minimum elong	8793 Feb 03 02:40	16° ≈ 50'36		opposition	8798 Jun 19 19:23	4° る 04'20	0°39'38
· ·	8793 Feb 23 02:18	0°) €		greatest brilliancy	8798 Jun 19 19:35	4° ට 04'08	-1.3m
morning rise	8793 Mar 20 04:25	16°) 50′07		min. Earth dist.	8798 Jun 19 18:12	4° る 05'30	0.68128 AU
C	8793 Apr 08 10:00	$0^{\circ}\mathbf{Y}$			8798 Jun 30 10:42	30°R. ✓	
	8793 May 21 00:17	9° 8		desc. node	8798 Jul 09 01:13	27° х 16′02	
	8793 Jul 01 02:12	$\Pi^{\circ}0$		direct	8798 Jul 30 20:19	24° ₹ 15′28	
	8793 Aug 10 02:12	0 \circ \odot			8798 Sep 02 08:45	5°0	
	8793 Sep 18 19:14	$0^{\circ}\Omega$			8798 Nov 07 01:37	0° ≈	
asc. node	8793 Oct 25 05:10	26° Ω 52′18			8798 Dec 26 18:40	0° ∀	
	8793 Oct 29 13:53	0° ™			8799 Feb 09 04:08	0 ° $\mathbf{\Upsilon}$	
	8793 Dec 13 10:18	0∘ ⊽			8799 Mar 22 07:36	9° 8	
retrograde	8794 Feb 27 07:34	28° ≏ 42'49			8799 Apr 30 09:34	$\Pi^{\circ}0$	
min. Earth dist.	8794 Mar 30 09:10	22° ≏ 06'04	0.53689 AU	evening set	8799 May 09 06:02	6° Ⅱ 56'19	
greatest brilliancy	8794 Apr 05 10:21	19° ≏ 47'38	-1.9m		8799 Jun 07 10:20	0 \circ \odot	
opposition	8794 Apr 06 18:20	19° ≙ 17'02	5°12'35	asc. node	8799 Jun 16 20:33	7° 5 28'28	
direct	8794 May 12 04:09	11° ≏ 26'36			8799 Jul 15 08:59	$0^{\circ}\Omega$	
	8794 Jul 16 02:48	0°M₊					
	8794 Sep 11 16:44	0° ∡ 7		conjunction	8799 Jul 18 15:13	2° Ω 33'25	
desc. node	8794 Oct 03 22:47	12° ₹ 43'42		minimum elong	8799 Jul 18 12:52	2° Ω 28'48	0°22'17
	8794 Nov 02 03:08	% ප		T	8799 Aug 23 02:50	0° Т р	2 400 CT + XX
	8794 Dec 20 16:25	0° ≈		max. Earth dist.	8799 Sep 09 00:47	12° Mp 45'47	2.40067 AU
evening set	8795 Jan 26 13:08	23°≈51'47		morning rise	8799 Sep 26 05:43	25° m 29'27	
Earth diet	8795 Feb 04 18:46	0°) (2.56204 ATT		8799 Oct 02 10:05	0∘ w	
max. Earth dist.	8795 Feb 13 19:46	0°π04′20	2.56304 AU		8799 Nov 13 21:33 8799 Dec 29 01:57	0° M 0° <i>⊀</i>	
conjunction	8795 Mar 15 02:00	26°) 10'44	1005'25		8800 Feb 15 23:11	0°중	
minimum elong	8795 Mar 15 02:00 8795 Mar 15 01:18	26° \ 09'31			8800 Apr 12 22:28	0°≈	
minimum ciong	8795 Mar 20 12:43	20 γ (0931	1 03 23	desc. node	8800 May 26 00:04	0 ∞ 14° ≈ 45'47	
	8795 May 01 03:37	0° 8		retrograde	8800 Jun 13 14:22	16°≈41'02	
morning rise	8795 May 05 17:38	3° 8 23'15		opposition	8800 Jul 22 23:20	7°≈35'50	-1°59'38
morning rise	8795 Jun 10 01:42	0°Ⅱ		greatest brilliancy	8800 Jul 23 04:51	7°≈30'28	-1.4m
	8795 Jul 18 21:20	0 . ಅ		min. Earth dist.	8800 Jul 26 16:54	6°≈08'28	0.65653 AU
	8795 Aug 26 09:13	$0^{\circ}\Omega$			8800 Aug 14 01:47	30°₹₹	
asc. node	8795 Sep 12 01:27	12° Ω 53'45		direct	8800 Sep 02 12:57	27° る 32'40	
	8795 Oct 04 12:04	0° m			8800 Sep 23 07:27	0° ≈	
	8795 Nov 14 10:56	0∘ ⊽			8800 Dec 01 05:41	0°) €	
	8795 Dec 29 06:43	0° M			8801 Jan 17 15:17	0 ° $\mathbf{\Upsilon}$	
	8796 Feb 23 13:10	0° ∡ ¹			8801 Feb 28 15:14	9° 8	
retrograde	8796 Apr 05 23:55	9° ∡ 747'49			8801 Apr 08 23:05	$\Pi^{\circ}0$	
min. Earth dist.	8796 May 12 10:54	1° ≯ 20′02	0.64032 AU	asc. node	8801 May 03 20:56	19° Ⅲ 32'40	
	8796 May 15 19:18	30°RM			8801 May 17 02:39	0ಂತಿ	
opposition	8796 May 16 07:08	29°M48'13	3°11'38		8801 Jun 24 05:37	$0^{\circ}\Omega$	
greatest brilliancy	8796 May 15 21:11	29°M58'07	-1.5m	evening set	8801 Jul 22 07:10	21° Ω 40'17	
direct	8796 Jun 24 07:13	20°M40'33			8801 Aug 02 06:39	0° т р	
	8796 Aug 07 09:03	0° ∡ 7			8801 Sep 11 22:47	0∘ ⊽	
desc. node	8796 Aug 21 00:32	5° ₹ 26'38			0001.0	00 - 5	100677
	8796 Oct 09 14:16	5°0		conjunction	8801 Sep 23 06:23	8° ₾ 05'39	1°06'27
	8796 Nov 30 01:52	0° ∞		minimum elong	8801 Sep 23 05:54	8° Ω 04'48	1°06'28
	8797 Jan 16 00:05	0° Υ 0° Υ		more Postle 11 /	8801 Oct 24 16:24	0°M	2 52012 411
evening set	8797 Feb 28 16:41 8797 Mar 10 06:44	6° Υ 50'31		max. Earth dist. morning rise	8801 Oct 29 06:35 8801 Nov 17 01:43	3°M08'01 15°M47'58	2.53813 AU
evening set	0/9/19141 10 00.44	0 13031		morning rise	0001 NUV 1/ U1.43	13 1164/38	

	8801 Dec 08 14:43 8802 Jan 24 18:31	% ව°0 ව		greatest brilliancy direct	8807 Jan 09 17:34 8807 Feb 08 06:11	22°©45'52 17°©47'15	-3.0m
	8802 Mar 15 14:39	0° ≈			8807 Mar 27 04:07	$0^{\circ}\Omega$	
desc. node	8802 Apr 12 20:38	15°≈55'18			8807 May 21 05:58	0° т р	
. 1	8802 May 09 23:23	0°) {			8807 Jul 08 19:34	0∘ 亚	
retrograde	8802 Jul 25 06:16	23° \ 26'32 15° \ 28'33	1021125		8807 Aug 25 14:45 8807 Oct 12 13:30	0° M 0° <i>⊀</i>	
opposition greatest brilliancy	8802 Aug 31 02:56 8802 Sep 01 06:07	15° X 2833			8807 Nov 29 11:23	0°중	
min. Earth dist.	8802 Sep 07 00:07	12°) (45'59	0.56723 AU	desc. node	8807 Dec 03 11:28	2° ප 31'10	
direct	8802 Oct 10 06:12	5° X 55'16	0.50725710	evening set	8807 Dec 07 14:47	5° そ 07'33	
	8802 Dec 19 15:44	0° Υ		max. Earth dist.	8808 Jan 10 02:44	26° る 22'19	2.66788 AU
	8803 Feb 04 08:19	0°8			8808 Jan 15 18:50	0°≈	
	8803 Mar 17 06:43	Π $^{\circ}0$					
asc. node	8803 Mar 21 22:57	3° Ⅱ 33'03		conjunction	8808 Jan 21 02:46	3° ≈ 25'12	-0°25'04
	8803 Apr 25 07:08	0 \circ \odot		minimum elong	8808 Jan 21 02:03	3° ≈ 24'03	0°24'52
	8803 Jun 03 03:27	$0^{\circ}\Omega$			8808 Mar 01 23:02	0° ∀	
	8803 Jul 12 22:28	0° ™		morning rise	8808 Mar 05 03:11	2°) €05'43	
	8803 Aug 23 09:01	0∘ ⊽			8808 Apr 15 16:38	0° Υ	
evening set	8803 Sep 19 07:01	18° Ω 45'53			8808 May 28 21:51	0° B	
	8803 Oct 05 18:44	0°M₊			8808 Jul 09 18:11	0° I I	
agnismation	8803 Nov 09 18:11	220M 16126	0051145		8808 Aug 19 15:07	0°€ 0°©	
conjunction minimum elong	8803 Nov 09 18:11 8803 Nov 09 19:29	23°M16'26 23°M18'33		asc. node	8808 Sep 29 10:23 8808 Nov 10 23:12	0°87 29° Ω 50'01	
minimum ciong	8803 Nov 09 19.29 8803 Nov 20 01:15	25 IIC1633	0 31 33	asc. Houe	8808 Nov 10 25:12	0° Mp	
max. Earth dist.	8803 Nov 26 09:22	4° ∡ ¹06'55	2.63565 AU		8809 Jan 03 03:15	0∘ ಹ ೧.1%	
morning rise	8803 Dec 26 16:43	23° ∡ °34'21	2.03202110	retrograde	8809 Feb 09 09:09	ა — 8° ჲ 46'28	
	8804 Jan 05 19:42	0°る		min. Earth dist.	8809 Mar 10 00:22	3° ഫ 04'30	0.48345 AU
	8804 Feb 22 16:44	0° ≈		greatest brilliancy	8809 Mar 16 17:06	0° £ 39'13	-2.2m
desc. node	8804 Feb 28 16:04	3° ≈ 41'51		opposition	8809 Mar 18 07:42	0° ჲ 04'04	5°29'27
	8804 Apr 11 16:43	0°) €			8809 Mar 18 12:10	30°R Mp	
	8804 Jun 01 21:30	0° Y		direct	8809 Apr 20 21:55	22° m 59'07	
	8804 Jul 31 01:03	9° 8			8809 May 26 23:06	0∘ ত	
retrograde	8804 Sep 20 09:30	12° 8 41'04			8809 Jul 29 21:30	0°M₊	
opposition	8804 Oct 22 16:58	6° 8 40'31			8809 Sep 20 15:10	0°⊀	
greatest brilliancy	8804 Oct 24 11:14	6° 8 07'10		desc. node	8809 Oct 20 11:54	17° ∡ 747′20	
min. Earth dist.	8804 Oct 30 22:35	4° 8 05'23	0.43171 AU		8809 Nov 09 14:08	ව°00	
direct	8804 Nov 17 20:44 8804 Nov 26 19:39	30°₹ Υ 29° Υ 26'12		avanina aat	8809 Dec 27 14:41	0° ≈ 9° ≈ 41'29	
direct	8804 Nov 26 19:39 8804 Dec 05 18:06	0° 8		evening set max. Earth dist.	8810 Jan 11 16:52 8810 Feb 02 17:14		2.60238 AU
asc. node	8805 Feb 05 23:34	26° 8 10'21		max. Lartii dist.	8810 Feb 11 15:04	0° H	2.00236 AC
use. Houe	8805 Feb 12 03:03	0°II			0010100 11 13.01	٠,٨	
	8805 Mar 28 05:12	0ಂತಾ		conjunction	8810 Feb 26 14:52	10°) 04'44	-0°58'05
	8805 May 08 19:40	$0^{\circ}\Omega$		minimum elong	8810 Feb 26 13:44	10°) 02′50	0°58'00
	8805 Jun 19 15:41	0° m)		_	8810 Mar 27 13:17	$0^{\circ}\mathbf{\Upsilon}$	
	8805 Aug 01 18:12	0∘ ত		morning rise	8810 Apr 15 19:29	13° Y 36'37	
	8805 Sep 15 11:21	0° M			8810 May 08 11:56	9° 8	
evening set	8805 Oct 31 15:37	0° ₹ 01'30			8810 Jun 17 19:07	$\Pi^{\circ}0$	
	8805 Oct 31 14:41	0° ∡			8810 Jul 26 23:33	0ංම	
		-		_	8810 Sep 03 19:19	$0^{\circ}\Omega$	
conjunction	8805 Dec 16 18:48	29° 🗷 27'18	0°15'29	asc. node	8810 Sep 28 19:10	19° Ω 06'22	
minimum elong	8805 Dec 16 19:16	29° х 28′04 29° х 23′44	0°15'43		8810 Oct 13 07:08	0 ் ऌ 0° மி	
behind sun begin behind sun end	8805 Dec 16 16:33 8805 Dec 16 22:00	29° x '23'44 29° x '32'24			8810 Nov 23 23:20 8811 Jan 10 04:42	0°M	
belling sun end	8805 Dec 17 15:24	0°る		retrograde	8811 Mar 23 19:34	25°M17'58	
max. Earth dist.	8805 Dec 17 13:24 8805 Dec 18 19:34	0°る44'44	2.67940 AU	min. Earth dist.	8811 Apr 27 08:19	17°M28'50	0.60674 AU
desc. node	8806 Jan 15 12:36	18° る 19'47		opposition	8811 May 02 16:00	15°M22'43	4°05'22
morning rise	8806 Jan 29 15:40	27° る 18'09		greatest brilliancy	8811 May 01 22:11	15°M40'19	-1.6m
-	8806 Feb 02 21:32	0° ≈		direct	8811 Jun 09 11:10	6°M39'51	
	8806 Mar 21 20:58	0°) €			8811 Aug 24 14:51	0°⊀	
	8806 May 07 08:43	0 ° Υ		desc. node	8811 Sep 07 13:14	6° ₰ 757'46	
	8806 Jun 22 11:04	9° 8			8811 Oct 19 15:34	ರ°0	
	8806 Aug 07 17:11	0°Щ			8811 Dec 08 15:15	0° ≈	
_	8806 Sep 25 06:34	0°©			8812 Jan 24 03:19	0° ∀	
retrograde	8806 Dec 10 05:44	28°503'31		evening set	8812 Feb 20 22:20	18°) € 53'06	2 400 40 : **
asc. node	8806 Dec 24 23:31	26°537'19	0.26000 477	max. Earth dist.	8812 Mar 06 02:52	28°) 48'21	2.48849 AU
min. Earth dist.	8807 Jan 06 15:12	23°536'47	0.36980 AU		8812 Mar 07 19:25	0° Y	
opposition	8807 Jan 09 22:26	22° © 42'32	1°13'38				

a a minumation	9912 Apr. 12 20:40	26° Y 06′12	1904152	morning rise	8816 Oct 29 17:53	28° £ 34'25	
conjunction	8812 Apr 12 20:40			morning rise			
minimum elong	8812 Apr 12 21:42	26° Y 08′05	1°04′58		8816 Oct 31 19:41	0°M 0°. ₹	
	8812 Apr 18 02:39	8°0			8816 Dec 15 17:34	0° ∡ ¹	
	8812 May 27 15:05	0°II			8817 Feb 01 06:56	0°る	
morning rise	8812 Jun 12 05:35	12° Ⅱ 06'44			8817 Mar 24 16:51	0° ≈	
	8812 Jul 05 01:37	0ಂ ತಾ		desc. node	8817 Apr 29 10:47	18° ≈ 24'03	
	8812 Aug 12 05:47	$0^{\circ}\Omega$			8817 May 27 01:21	0° ∀	
asc. node	8812 Aug 15 15:21	2° Ω 39'27		retrograde	8817 Jul 07 20:14	8°) 30′02	
greatest brilliancy	8812 Sep 13 11:22	24° Ω 59'08	1.2m	opposition	8817 Aug 14 21:23	0° ∺ 01'14	-3°36'59
	8812 Sep 20 01:04	0° m			8817 Aug 14 22:40	30°R≈	
	8812 Oct 30 10:39	0∘ ত		greatest brilliancy	8817 Aug 15 14:30	29° ≈ 44'54	-1.6m
	8812 Dec 12 15:33	0°M		min. Earth dist.	8817 Aug 20 20:44	27° ≈ 44'41	0.60941 AU
	8813 Jan 30 02:02	0° ∡ ¹		direct	8817 Sep 24 21:30	20° ≈ 08′18	
	8813 Apr 13 03:10	8°0			8817 Nov 06 19:49	0° ∀	
retrograde	8813 Apr 27 03:37	1° る 11'25			8818 Jan 01 11:41	0 ° Υ	
	8813 May 10 12:43	30°Ŗ ⋌ ¹			8818 Feb 14 07:37	0°8	
min. Earth dist.	8813 Jun 05 04:06	21° ₹ ′54'38	0.67312 AU		8818 Mar 26 07:59	$\Pi^{\circ}0$	
opposition	8813 Jun 06 17:03	21° ∡ 17'50	1°39'43	asc. node	8818 Apr 07 13:42	9° Ⅲ 27'42	
greatest brilliancy	8813 Jun 06 15:11	21° √ 19'41	-1.3m		8818 May 03 20:55	0ಂಣ	
direct	8813 Jul 17 03:18	11° √ 41'57			8818 Jun 11 08:02	$0^{\circ}\Omega$	
desc. node	8813 Jul 25 14:11	12° ∡ 06'49			8818 Jul 20 17:57	0° m/y	
	8813 Sep 20 19:32	0°る		evening set	8818 Aug 29 18:31	29° m 15'25	
	8813 Nov 16 09:17	0° ≈		evening sec	8818 Aug 30 19:29	0° ⊡	
	8814 Jan 03 15:28	0°) €			8818 Oct 12 21:06	0°M	
	8814 Feb 16 16:08	0° Υ			0010 001 12 21.00	o liu	
	8814 Mar 29 18:46	0°8		conjunction	8818 Oct 23 21:01	7°M26'20	1°01'31
evening set	8814 Apr 13 03:08	10° 8 51'27		minimum elong	8818 Oct 23 22:07	7°M28'12	1°01'38
evening set	•	0° Ⅱ		_			
Fault die	8814 May 07 22:18	0°Ⅱ 24°Ⅱ08'04	2.26602.411	max. Earth dist.	8818 Nov 16 11:12	23°ML08'09 0°⊀	2.60354 AU
max. Earth dist.	8814 Jun 07 14:40		2.36603 AU		8818 Nov 26 22:36		
	8814 Jun 15 00:27	0ං වෙ		morning rise	8818 Dec 12 03:54	9° ∡ 752'12	
	00144 17 00 00	2001.4155	0011101		8819 Jan 12 17:58	0°ප	
conjunction	8814 Jun 17 20:33	2°914'55			8819 Mar 02 03:19	0° ≈	
minimum elong	8814 Jun 17 21:47	2° © 17'22	0°11'36	desc. node	8819 Mar 17 06:45	9° ≈ 09'41	
behind sun begin	8814 Jun 17 00:30	1° © 35'12			8819 Apr 21 15:57	0° ∀	
behind sun end	8814 Jun 18 19:05	2° © 59'34			8819 Jun 16 15:20	0° Υ	
asc. node	8814 Jul 03 14:28	14°5643'25		retrograde	8819 Aug 26 17:12	21° Y 16'57	
	8814 Jul 22 23:04	$0^{\circ}\Omega$		opposition	8819 Sep 30 03:11	14° Ƴ 23'35	
morning rise	8814 Aug 30 02:07	29° Ω 34'42		greatest brilliancy	8819 Oct 01 21:19	13° Ƴ 47'17	
	8814 Aug 30 15:23	O° My		min. Earth dist.	8819 Oct 08 20:44		0.48662 AU
	8814 Oct 09 20:39	0∘ ⊽		direct	8819 Nov 06 19:36	5° Y 56′21	
	8814 Nov 21 08:01	0° M .			8820 Jan 13 13:08		
					0020 Jan 13 13.00	0°8	
	8815 Jan 05 20:40	0°⊀		asc. node	8820 Feb 23 15:19	0° と 26° と 57'53	
		್×°0 ರ°≷		asc. node			
	8815 Jan 05 20:40			asc. node	8820 Feb 23 15:19	26° 8 57'53	
retrograde	8815 Jan 05 20:40 8815 Feb 25 06:17	0°ප		asc. node	8820 Feb 23 15:19 8820 Feb 27 22:00	26° ႘ 57'53 0°Ⅲ	
retrograde desc. node	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00	ි ©°≅		asc. node	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37	26° ႘ 57'53 0°Ⅲ 0°໑	
•	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56	0°る 0°≈ 3°≈57'36		asc. node	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34	26° 8 57'53 0°Ⅲ 0°ᢒ 0°ብ	
•	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47	0°る 0°≈ 3°≈57'36 3°≈01'45	-0°57'42	asc. node	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09	26° 8 57'53 0°Ⅲ 0°ℱ 0°Ω 0°Ω	
desc. node	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43	0°ర 0°≈ 3°≈57'36 3°≈01'45 30°Rర		asc. node	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31	26°₩57'53 0°Ⅲ 0°ॐ 0°№ 0°№	
desc. node opposition	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43 8815 Jul 10 10:48	0° පි 0° ≈ 3° ≈ 57'36 3° ≈ 01'45 30° R පි 24° පි34'27 24° පි33'02			8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31 8820 Sep 22 19:22	26°♥57'53 0°Ⅲ 0°☞ 0°ℳ 0°啉 0°┅	
desc. node opposition greatest brilliancy min. Earth dist.	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43 8815 Jul 10 10:48 8815 Jul 10 12:15 8815 Jul 12 16:51	0°ට 0°≈ 3°≈57'36 3°≈01'45 30°Rට 24°ට34'27 24°ට33'02 23°ට41'15	-1.3m		8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31 8820 Sep 22 19:22 8820 Oct 15 22:42	26°857'53 0°∏ 0°© 0°Ω 0°™ 0°™ 15°™18'06	
desc. node opposition greatest brilliancy	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43 8815 Jul 10 10:48 8815 Jul 10 12:15 8815 Jul 12 16:51 8815 Aug 21 00:17	0°ට 0°≈ 3°≈57'36 3°≈01'45 30°Rට 24°ට34'27 24°ට33'02 23°ට41'15 14°ට33'23	-1.3m	evening set	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31 8820 Sep 22 19:22 8820 Oct 15 22:42 8820 Nov 07 12:35	26°\\$57'53 0° II 0° © 0° N 0° M 0° M 0° M 15° M 18'06 0° ⊀	0°30'42
desc. node opposition greatest brilliancy min. Earth dist.	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43 8815 Jul 10 10:48 8815 Jul 10 12:15 8815 Jul 12 16:51 8815 Aug 21 00:17 8815 Oct 18 01:35	0°ට 0°≈ 3°≈57'36 3°≈01'45 30°Rට 24°ට34'27 24°ට33'02 23°ට41'15 14°ට33'23 0°≈	-1.3m	evening set	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31 8820 Sep 22 19:22 8820 Oct 15 22:42 8820 Nov 07 12:35	26°\\$57'53 0° II 0° © 0° N 0° M 0° <u>P</u> 0° M 15° M 18'06 0° ✓ 16° ✓ 07'38	0°30'42 0°30'55
desc. node opposition greatest brilliancy min. Earth dist.	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43 8815 Jul 10 10:48 8815 Jul 10 12:15 8815 Jul 12 16:51 8815 Aug 21 00:17 8815 Oct 18 01:35 8815 Dec 12 09:42	0°る 0°≈ 3°≈57'36 3°≈01'45 30°Rる 24°33'02 23°341'15 14°333'23 0°≈ 0°∺	-1.3m	evening set conjunction minimum elong	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31 8820 Sep 22 19:22 8820 Oct 15 22:42 8820 Nov 07 12:35 8820 Dec 02 14:38 8820 Dec 02 15:34	26° 857'53 0° ¶ 0° ₽ 0° ₽ 0° № 15° № 18'06 0° ₹ 16° ₹ 07'38 16° ₹ 09'06	0°30'55
desc. node opposition greatest brilliancy min. Earth dist.	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43 8815 Jul 10 10:48 8815 Jul 10 12:15 8815 Jul 12 16:51 8815 Aug 21 00:17 8815 Oct 18 01:35 8815 Dec 12 09:42 8816 Jan 27 03:40	0°♂ 0°≈ 3°≈57'36 3°≈01'45 30°₹♂ 24°♂34'27 24°♂33'02 23°♂41'15 14°♂33'23 0°≈ 0°升 0°쒸	-1.3m	evening set	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31 8820 Sep 22 19:22 8820 Oct 15 22:42 8820 Dec 02 14:38 8820 Dec 02 15:34 8820 Dec 09 21:29	26° 857'53 0° ¶ 0° № 0° № 0° № 15° № 18'06 0° ₹ 16° ₹ 07'38 16° ₹ 09'06 20° ₹ 46'53	
desc. node opposition greatest brilliancy min. Earth dist.	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43 8815 Jul 10 10:48 8815 Jul 10 12:15 8815 Jul 12 16:51 8815 Aug 21 00:17 8815 Oct 18 01:35 8815 Dec 12 09:42 8816 Jan 27 03:40 8816 Mar 08 16:28	0°る 0°≈ 3°≈57'36 3°≈01'45 30°Rる 24°334'27 24°33'02 23°34'1'15 14°333'23 0°≈ 0°升 0°Y 0°Y	-1.3m	evening set conjunction minimum elong max. Earth dist.	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31 8820 Sep 22 19:22 8820 Oct 15 22:42 8820 Nov 07 12:35 8820 Dec 02 14:38 8820 Dec 02 15:34 8820 Dec 09 21:29 8820 Dec 24 09:04	26°\S57'53 0°II 0°© 0°Ω 0°ID 0°ID 15°ID 18'06 0°\$\sqrt{2} 16°\$\sqrt{2}09'06 20°\$\sqrt{2}46'53 0°\S	0°30'55
desc. node opposition greatest brilliancy min. Earth dist. direct	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43 8815 Jul 10 10:48 8815 Jul 10 12:15 8815 Jul 12 16:51 8815 Aug 21 00:17 8815 Oct 18 01:35 8815 Dec 12 09:42 8816 Jan 27 03:40 8816 Mar 08 16:28 8816 Apr 16 20:38	0°る 0°≈ 3°≈57'36 3°≈01'45 30°Rる 24°334'27 24°333'02 23°341'15 14°333'23 0°≈ 0°升 0°भ 0°भ 0°भ	-1.3m	evening set conjunction minimum elong max. Earth dist. morning rise	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31 8820 Sep 22 19:22 8820 Oct 15 22:42 8820 Nov 07 12:35 8820 Dec 02 14:38 8820 Dec 02 15:34 8820 Dec 09 21:29 8820 Dec 24 09:04 8821 Jan 16 06:17	26°と57'53 0°用 0°の 0°の 0°か 0°へ 0°か 15°M18'06 0°ズ 16°ズ07'38 16°ズ09'06 20°ズ46'53 0°云 14°云30'30	0°30'55
desc. node opposition greatest brilliancy min. Earth dist.	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43 8815 Jul 10 10:48 8815 Jul 10 12:15 8815 Jul 12 16:51 8815 Aug 21 00:17 8815 Oct 18 01:35 8815 Dec 12 09:42 8816 Jan 27 03:40 8816 Mar 08 16:28 8816 May 20 13:50	0°る 0°≈ 3°≈57'36 3°≈01'45 30°₹3 24°₹33'02 23°₹41'15 14°₹33'23 0°≈ 0°¥ 0°Y 0°B 0°Ⅱ 26°Ⅱ33'28	-1.3m	evening set conjunction minimum elong max. Earth dist.	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31 8820 Sep 22 19:22 8820 Oct 15 22:42 8820 Nov 07 12:35 8820 Dec 02 14:38 8820 Dec 02 15:34 8820 Dec 09 21:29 8820 Dec 24 09:04 8821 Jan 16 06:17 8821 Feb 01 03:24	26°857'53 0°II 0°© 0°IO 0°ID 0°ID 15°ID 18'06 0° ズ 16° ズ 07'38 16° ズ 09'06 20° ズ 46'53 0°ID 14°IS 30'30 24°IS 32'52	0°30'55
desc. node opposition greatest brilliancy min. Earth dist. direct	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43 8815 Jul 10 10:48 8815 Jul 10 12:15 8815 Jul 12 16:51 8815 Aug 21 00:17 8815 Oct 18 01:35 8815 Dec 12 09:42 8816 Jan 27 03:40 8816 Mar 08 16:28 8816 Apr 16 20:38 8816 May 20 13:50 8816 May 24 22:08	0°る 0°≈ 3°≈57'36 3°≈01'45 30°₨ 24°♂34'27 24°♂33'02 23°♂41'15 14°♂33'23 0°≈ 0°升 0°Y 0°Ы 0°П 26°П33'28	-1.3m	evening set conjunction minimum elong max. Earth dist. morning rise	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31 8820 Sep 22 19:22 8820 Oct 15 22:42 8820 Nov 07 12:35 8820 Dec 02 14:38 8820 Dec 02 15:34 8820 Dec 09 21:29 8820 Dec 24 09:04 8821 Jan 16 06:17 8821 Feb 01 03:24 8821 Feb 09 18:33	26°\S57'53 0°\II 0°\S 0°\L 0°\M 0°\M 15°\M\18'06 0°\\$\s^1 16°\\$\s^107'38 16°\\$\s^109'06 20°\\$\\$\46'53 0°\S 14°\S30'30 24°\S32'52 0°\\$\\$	0°30'55
desc. node opposition greatest brilliancy min. Earth dist. direct	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43 8815 Jul 10 10:48 8815 Jul 10 12:15 8815 Jul 12 16:51 8815 Aug 21 00:17 8815 Oct 18 01:35 8815 Dec 12 09:42 8816 Jan 27 03:40 8816 Mar 08 16:28 8816 Apr 16 20:38 8816 May 20 13:50 8816 May 24 22:08 8816 Jun 23 07:40	0°る 0°≈ 3°≈57'36 3°≈01'45 30°₨ 24°♂34'27 24°♂33'02 23°♂41'15 14°♂33'23 0°≈ 0°升 0°Y 0°Ы 0°П 26°П33'28 0°© 23°©14'19	-1.3m	evening set conjunction minimum elong max. Earth dist. morning rise	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31 8820 Sep 22 19:22 8820 Oct 15 22:42 8820 Nov 07 12:35 8820 Dec 02 14:38 8820 Dec 02 15:34 8820 Dec 09 21:29 8820 Dec 24 09:04 8821 Jan 16 06:17 8821 Feb 01 03:24 8821 Feb 09 18:33 8821 Mar 29 07:48	26°\S57'53 0°\II 0°\S 0°\L 0°\M 0°\M 15°\M\18'06 0°\\$\struct\sigma' 16°\\$\struct\sigma'07'38 16°\\$\struct\sigma'09'06 20°\\$\struct\sigma'46'53 0°\S 14°\S30'30 24°\S32'52 0°\\$\struct\sigma'\S 0°\S\	0°30'55
desc. node opposition greatest brilliancy min. Earth dist. direct asc. node evening set	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43 8815 Jul 10 10:48 8815 Jul 10 12:15 8815 Jul 12 16:51 8815 Aug 21 00:17 8815 Oct 18 01:35 8815 Dec 12 09:42 8816 Jan 27 03:40 8816 Mar 08 16:28 8816 May 20 13:50 8816 May 24 22:08 8816 Jun 23 07:40 8816 Jul 01 22:19	0°る 0°≈ 3°≈57'36 3°≈01'45 30°Rउ 24°З34'27 24°З33'02 23°З41'15 14°З33'23 0°≈ 0°¥ 0°Y 0°Ы 0°П 26°П33'28 0°∞ 23°©14'19 0°Ω	-1.3m 0.67411 AU	evening set conjunction minimum elong max. Earth dist. morning rise	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31 8820 Sep 22 19:22 8820 Oct 15 22:42 8820 Nov 07 12:35 8820 Dec 02 14:38 8820 Dec 02 15:34 8820 Dec 09 21:29 8820 Dec 24 09:04 8821 Jan 16 06:17 8821 Feb 01 03:24 8821 Feb 09 18:33 8821 Mar 29 07:48 8821 May 16 01:03	26° 857'53 0° II 0° © 0° Ω 0° M 0° M 15° M 18'06 0° ¾ 16° ¾ 07'38 16° ¾ 09'06 20° ¾ 46'53 0° ♂ 14° ♂ 30'30 24° ♂ 32'52 0° ≈ 0° ዧ 0° ዧ 0° ዧ	0°30'55
desc. node opposition greatest brilliancy min. Earth dist. direct	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43 8815 Jul 10 10:48 8815 Jul 10 12:15 8815 Jul 12 16:51 8815 Aug 21 00:17 8815 Oct 18 01:35 8815 Dec 12 09:42 8816 Jan 27 03:40 8816 Mar 08 16:28 8816 May 20 13:50 8816 May 24 22:08 8816 Jun 23 07:40 8816 Jul 01 22:19 8816 Jul 01 23:50	0°る 0°≈ 3°≈57'36 3°≈01'45 30°R♂ 24°♂34'27 24°♂33'02 23°♂41'15 14°♂33'23 0°≈ 0°升 0°分 0°Ⅱ 26°Ⅱ33'28 0°∞ 23°©14'19 0°Ω 0°Ω02'59	-1.3m 0.67411 AU	evening set conjunction minimum elong max. Earth dist. morning rise	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31 8820 Sep 22 19:22 8820 Oct 15 22:42 8820 Nov 07 12:35 8820 Dec 02 14:38 8820 Dec 02 15:34 8820 Dec 09 21:29 8820 Dec 24 09:04 8821 Jan 16 06:17 8821 Feb 01 03:24 8821 Feb 09 18:33 8821 Mar 29 07:48 8821 May 16 01:03 8821 Jul 03 13:07	26°857'53 0°用 0°野 0°凡 0°聊 0°凡 15°肌18'06 0°ズ 16°ズ07'38 16°ズ09'06 20°ズ46'53 0°℧ 14°♂30'30 24°♂32'52 0°≈ 0°升 0°Y 0°Y	0°30'55
desc. node opposition greatest brilliancy min. Earth dist. direct asc. node evening set	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43 8815 Jul 10 10:48 8815 Jul 10 12:15 8815 Jul 12 16:51 8815 Aug 21 00:17 8815 Oct 18 01:35 8815 Dec 12 09:42 8816 Jan 27 03:40 8816 Mar 08 16:28 8816 May 20 13:50 8816 May 24 22:08 8816 Jun 23 07:40 8816 Jul 01 22:19	0°る 0°≈ 3°≈57'36 3°≈01'45 30°Rउ 24°З34'27 24°З33'02 23°З41'15 14°З33'23 0°≈ 0°¥ 0°Y 0°Ы 0°П 26°П33'28 0°∞ 23°©14'19 0°Ω	-1.3m 0.67411 AU	evening set conjunction minimum elong max. Earth dist. morning rise desc. node	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31 8820 Sep 22 19:22 8820 Oct 15 22:42 8820 Nov 07 12:35 8820 Dec 02 14:38 8820 Dec 02 15:34 8820 Dec 09 21:29 8820 Dec 24 09:04 8821 Jan 16 06:17 8821 Feb 01 03:24 8821 Feb 09 18:33 8821 Mar 29 07:48 8821 May 16 01:03 8821 Jul 03 13:07 8821 Aug 24 06:41	26°857'53 0°用 0°野 0°凡 0°聊 0°№ 15°№18'06 0°% 16°%07'38 16°%09'06 20°%46'53 0°उ 14°♂30'30 24°♂32'52 0°≈ 0°升 0°Y 0°8 0°円	0°30'55
desc. node opposition greatest brilliancy min. Earth dist. direct asc. node evening set greatest brilliancy	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43 8815 Jul 10 10:48 8815 Jul 10 12:15 8815 Jul 12 16:51 8815 Aug 21 00:17 8815 Oct 18 01:35 8815 Dec 12 09:42 8816 Jan 27 03:40 8816 Mar 08 16:28 8816 May 20 13:50 8816 May 20 13:50 8816 Jul 01 22:19 8816 Jul 01 22:19 8816 Jul 01 23:50 8816 Aug 09 19:15	0°る 0°≈ 3°≈57'36 3°≈01'45 30°Rる 24°334'27 24°333'02 23°341'15 14°333'23 0°≈ 0°升 0°升 0°分 0°出 26°用33'28 0°∞ 23°©14'19 0°ん 0°ん02'59 0°m	-1.3m 0.67411 AU 1.2m	evening set conjunction minimum elong max. Earth dist. morning rise desc. node	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31 8820 Sep 22 19:22 8820 Oct 15 22:42 8820 Nov 07 12:35 8820 Dec 02 14:38 8820 Dec 02 15:34 8820 Dec 02 15:34 8820 Dec 09 21:29 8820 Dec 24 09:04 8821 Jan 16 06:17 8821 Feb 01 03:24 8821 Feb 09 18:33 8821 Mar 29 07:48 8821 May 16 01:03 8821 Jul 03 13:07 8821 Aug 24 06:41 8821 Nov 08 00:50	26°857'53 0°用 0°9 0°0 0°m 0°9 0°m 15°m18'06 0°% 16°%09'06 20°%46'53 0°중 14°330'30 24°332'52 0°≈ 0°升 0°Y 0°8 0°用 25°用52'12	0°30'55 2.66888 AU
desc. node opposition greatest brilliancy min. Earth dist. direct asc. node evening set greatest brilliancy conjunction	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43 8815 Jul 10 10:48 8815 Jul 10 12:15 8815 Jul 12 16:51 8815 Aug 21 00:17 8815 Oct 18 01:35 8815 Dec 12 09:42 8816 Jan 27 03:40 8816 Mar 08 16:28 8816 May 20 13:50 8816 May 20 13:50 8816 May 24 22:08 8816 Jul 01 22:19 8816 Jul 01 23:50 8816 Aug 09 19:15	0°る 0°≈ 3°≈57'36 3°≈01'45 30°Rる 24°334'27 24°333'02 23°341'15 14°333'23 0°≈ 0°升 0°分 0°別 26°月33'28 0°∞ 23°©14'19 0°ん 0°ん02'59 0°順	-1.3m 0.67411 AU 1.2m 0°58'44	evening set conjunction minimum elong max. Earth dist. morning rise desc. node	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31 8820 Sep 22 19:22 8820 Oct 15 22:42 8820 Nov 07 12:35 8820 Dec 02 14:38 8820 Dec 02 15:34 8820 Dec 02 15:34 8820 Dec 09 21:29 8820 Dec 24 09:04 8821 Jan 16 06:17 8821 Feb 01 03:24 8821 Feb 09 18:33 8821 Mar 29 07:48 8821 May 16 01:03 8821 Jul 03 13:07 8821 Aug 24 06:41 8821 Nov 08 00:50 8821 Dec 07 19:57	26°857'53 0°用 0°% 0°% 0°% 0°™ 0°% 15°™18'06 0°% 16°% 09'06 20°% 46'53 0°% 14°♂30'30 24°♂32'52 0°% 0°升 0°Y 0°8 0°用 25°用52'12 20°用56'32	0°30'55 2.66888 AU -2°33'15
desc. node opposition greatest brilliancy min. Earth dist. direct asc. node evening set greatest brilliancy	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43 8815 Jul 10 10:48 8815 Jul 10 12:15 8815 Jul 12 16:51 8815 Jul 12 16:51 8815 Aug 21 00:17 8815 Oct 18 01:35 8815 Dec 12 09:42 8816 Jan 27 03:40 8816 Mar 08 16:28 8816 Mar 08 16:28 8816 May 20 13:50 8816 May 20 13:50 8816 Jul 01 22:19 8816 Jul 01 22:19 8816 Jul 01 23:50 8816 Aug 09 19:15	0°る 0°≈ 3°≈57'36 3°≈01'45 30°₹3 24°₹33'02 23°₹41'15 14°₹33'23 0°≈ 0°¥ 0°¥ 0°¥ 0°B 26°\$\$133'28 0°© 23°©14'19 0°\$\$00'\$\$00'\$\$59 0°\$\$00'\$\$00'\$\$59 0°\$\$00'\$\$15°\$\$\$41'11 15°\$\$\$\$36'49	-1.3m 0.67411 AU 1.2m	evening set conjunction minimum elong max. Earth dist. morning rise desc. node retrograde opposition greatest brilliancy	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31 8820 Sep 22 19:22 8820 Oct 15 22:42 8820 Nov 07 12:35 8820 Dec 02 14:38 8820 Dec 02 15:34 8820 Dec 02 15:34 8820 Dec 09 21:29 8820 Dec 24 09:04 8821 Jan 16 06:17 8821 Feb 01 03:24 8821 Feb 09 18:33 8821 Mar 29 07:48 8821 May 16 01:03 8821 Jul 03 13:07 8821 Aug 24 06:41 8821 Nov 08 00:50 8821 Dec 07 19:57 8821 Dec 08 05:27	26°857'53 0°用 0°% 0°% 0°% 0°™ 0°% 15°™18'06 0°% 16°% 09'06 20°% 46'53 0°% 14°♂30'30 24°♂32'52 0°≈ 0°升 0°Y 0°8 0°用 25°用52'12 20°用56'32 20°用50'12	0°30'55 2.66888 AU -2°33'15 -3.0m
desc. node opposition greatest brilliancy min. Earth dist. direct asc. node evening set greatest brilliancy conjunction	8815 Jan 05 20:40 8815 Feb 25 06:17 8815 May 04 08:00 8815 May 31 11:56 8815 Jun 12 13:47 8815 Jun 25 11:43 8815 Jul 10 10:48 8815 Jul 10 12:15 8815 Jul 12 16:51 8815 Aug 21 00:17 8815 Oct 18 01:35 8815 Dec 12 09:42 8816 Jan 27 03:40 8816 Mar 08 16:28 8816 May 20 13:50 8816 May 20 13:50 8816 May 24 22:08 8816 Jul 01 22:19 8816 Jul 01 23:50 8816 Aug 09 19:15	0°る 0°≈ 3°≈57'36 3°≈01'45 30°₹3 24°₹33'02 23°₹41'15 14°₹33'23 0°≈ 0°¥ 0°¥ 0°¥ 0°¶ 26°¶33'28 0°© 23°©14'19 0°Ω 0°Ω02'59 0°™ 15°™41'11 15°™36'49 0°Ω	-1.3m 0.67411 AU 1.2m 0°58'44	evening set conjunction minimum elong max. Earth dist. morning rise desc. node	8820 Feb 23 15:19 8820 Feb 27 22:00 8820 Apr 08 17:37 8820 May 18 17:34 8820 Jun 28 11:09 8820 Aug 09 17:31 8820 Sep 22 19:22 8820 Oct 15 22:42 8820 Nov 07 12:35 8820 Dec 02 14:38 8820 Dec 02 15:34 8820 Dec 02 15:34 8820 Dec 09 21:29 8820 Dec 24 09:04 8821 Jan 16 06:17 8821 Feb 01 03:24 8821 Feb 09 18:33 8821 Mar 29 07:48 8821 May 16 01:03 8821 Jul 03 13:07 8821 Aug 24 06:41 8821 Nov 08 00:50 8821 Dec 07 19:57	26°857'53 0°用 0°% 0°% 0°% 0°™ 0°% 15°™18'06 0°% 16°% 09'06 20°% 46'53 0°% 14°♂30'30 24°♂32'52 0°≈ 0°升 0°Y 0°8 0°用 25°用52'12 20°用56'32 20°用50'12	0°30'55 2.66888 AU -2°33'15

asc. node	8822 Jan 10 16:22	15° Ⅱ 51'13			8827 Mar 15 20:12	0°Υ	
	8822 Feb 26 00:21	0°ಅ				•	
	8822 Apr 18 08:58	$0^{\circ}\Omega$		conjunction	8827 Mar 25 04:32	6° Ƴ 37'30	-1°07'18
	8822 Jun 03 03:13	0° m)		minimum elong	8827 Mar 25 04:18	6° Y 37'05	
	8822 Jul 18 13:00	0∘ ರ ∘ .ಗ		mmmam viong	8827 Apr 26 08:51	0°8	1 0, 1,
	8822 Sep 02 17:37	0° ™		morning rise	8827 May 18 10:20	16° 8 29'57	
	8822 Oct 19 19:09	0° ⊼ ¹		morning risc	8827 Jun 05 03:45	0° Ⅱ	
evening set	8822 Nov 23 14:23	21° х 59'35			8827 Jul 13 20:13	0ංම 0 ප	
evening set	8822 Dec 06 06:38	21 メ 39 33			8827 Aug 21 04:52	0° U	
desc. node	8822 Dec 00 00:38 8822 Dec 20 01:04	8° ろ 42'42		asc. node	8827 Sep 02 10:23	9° Ω 30'16	
max. Earth dist.	8823 Jan 01 11:46		2.67905 AU	asc. node		9 8 6 30 10	
max. Earm dist.	8823 Jan 01 11.40	10 03020	2.07903 AU		8827 Sep 29 03:47	0∘ ⊽	
:	0022 I 07 00.00	200=20140	0000120		8827 Nov 08 19:27		
conjunction	8823 Jan 07 09:00	20°る20'48			8827 Dec 22 18:37	0°M 0°. 7	
minimum elong	8823 Jan 07 08:42	20°る20'20	0*09*24		8828 Feb 12 13:07	0° ⊼ ¹	
behind sun begin	8823 Jan 06 17:35	19°る56'18		retrograde	8828 Apr 13 19:13	18° ∡ 707'11	0.65467.411
behind sun end	8823 Jan 07 23:49	20°₹44'22		min. Earth dist.	8828 May 21 05:47	9° × ⁷ 20'45	0.65467 AU
	8823 Jan 22 12:06	0° ≈		opposition	8828 May 24 06:32	8° ∡ '08'16	2°38'26
morning rise	8823 Feb 19 22:47	18°≈18'25		greatest brilliancy	8828 May 24 00:08	8° ∡ 14'38	-1.4m
	8823 Mar 09 21:58	0° ∀			8828 Jun 19 04:57	30°RM₊	
	8823 Apr 24 04:24	0° Υ		direct	8828 Jul 02 20:53	28°M49'14	
	8823 Jun 07 05:25	0°8			8828 Jul 17 06:39	0° ∡ ¹	
	8823 Jul 20 04:00	$\Pi^{\circ}0$		desc. node	8828 Aug 11 03:03	6° ∡ 124'51	
	8823 Aug 31 11:16	0 \circ \odot			8828 Oct 02 20:42	0° ප	
	8823 Oct 13 12:36	$0^{\circ}\Omega$			8828 Nov 24 18:02	0° ≈	
asc. node	8823 Nov 28 15:06	28° Ω 28'15			8829 Jan 11 02:48	0° ∀	
	8823 Dec 01 13:09	O° Mp			8829 Feb 23 22:30	0° Y	
retrograde	8824 Jan 20 14:31	14° m 57'49		evening set	8829 Mar 21 16:30	18° Ƴ 34'41	
min. Earth dist.	8824 Feb 16 02:01	10° m 09'15	0.42925 AU		8829 Apr 06 02:10	9° 8	
greatest brilliancy	8824 Feb 22 19:49	7° m ,56′12	-2.6m	max. Earth dist.	8829 Apr 08 12:59	1° 8 50'15	2.40612 AU
opposition	8824 Feb 24 08:14	7° m 25'53	5°00'00		8829 May 15 08:33	Π $^{\circ}0$	
direct	8824 Mar 26 23:44	1° m) 16'04					
	8824 Jun 17 13:22	0° ⊽		conjunction	8829 May 20 04:28	3° Ⅱ 45'37	-0°40'55
	8824 Aug 09 15:05	0° M		minimum elong	8829 May 20 07:22	3° Ⅱ 51'15	0°41'06
	8824 Sep 28 19:30	0° ∡ ¹			8829 Jun 22 13:26	0ಂಣ	
desc. node	8824 Nov 06 00:48	23° ҂ 21'51		asc. node	8829 Jul 20 06:58	21°954'50	
	8824 Nov 16 18:19	0°ರ		morning rise	8829 Jul 30 03:01	29° 5 39'20	
evening set	8824 Dec 28 11:11	26° ප 11'46			8829 Jul 30 13:32	$0^{\circ}\Omega$	
	8825 Jan 03 10:15	0° ≈			8829 Sep 07 05:54	0° m)	
max. Earth dist.	8825 Jan 23 14:54	13° ≈ 01'05	2.63454 AU		8829 Oct 17 11:00	0∘ ত	
					8829 Nov 29 01:09	0° M	
conjunction	8825 Feb 11 09:36	25° ≈ 19′09	-0°47'04		8830 Jan 14 04:49	0° ∡ ¹	
minimum elong	8825 Feb 11 08:27	25° ≈ 17'15	0°46'55		8830 Mar 08 09:12	0°ಕ	
	8825 Feb 18 11:06	0° ℋ		retrograde	8830 May 17 22:55	21° る 27'58	
morning rise	8825 Mar 29 07:05	26° ∺ 17'39		opposition	8830 Jun 27 07:02	11° る 50'14	0°03'49
	8825 Apr 03 15:41	$0^{\circ}\mathbf{\Upsilon}$		greatest brilliancy	8830 Jun 27 07:11	11°る50'05	-1.3m
	8825 May 16 00:26	$B_{\circ 0}$		min. Earth dist.	8830 Jun 28 01:24	11° る 32'04	0.68152 AU
	8825 Jun 25 19:12	$\Pi^{\circ}0$		desc. node	8830 Jun 29 03:26	11° ට 06'20	
	8825 Aug 04 11:13	0°€		direct	8830 Aug 07 14:19	1° る 55'58	
	8825 Sep 12 18:26	$0^{\circ}\Omega$			8830 Oct 31 02:35	0° ≈	
asc. node	8825 Oct 15 13:28	24° Ω 37'10			8830 Dec 21 07:23	0°) €	
	8825 Oct 22 21:29	0° m			8831 Feb 04 03:21	0° Y	
	8825 Dec 05 00:19	0∘ ত			8831 Mar 17 10:12	0°8	
	8826 Jan 28 01:15	0° M .			8831 Apr 25 12:55	Π $^{\circ}0$	
retrograde	8826 Mar 08 15:07	9° M .18'15		evening set	8831 May 25 08:37	23° Ⅱ 29'30	
min. Earth dist.	8826 Apr 09 23:58	2°MJ4'03	0.56408 AU	•	8831 Jun 02 13:42	0°©	
	8826 Apr 15 18:11	30° Ŗ Ω		asc. node	8831 Jun 07 05:46	3°5642'13	
opposition	8826 Apr 16 17:17	29° ≏ 37'34	4°52'01		8831 Jul 10 12:17	$0^{\circ}\Omega$	
greatest brilliancy	8826 Apr 15 14:18	0°ML03'46					
direct	8826 May 23 01:30	21° £ 26'05		conjunction	8831 Aug 04 10:44	19° Ω 24'50	0°39'04
	8826 Jul 03 09:17	0° M ,		minimum elong	8831 Aug 04 07:26	19° Ω 18'30	
	8826 Sep 05 02:58	0° ∡ 7			8831 Aug 18 06:19	0° m)	
desc. node	8826 Sep 24 01:50	10° ₹ 27'35		max. Earth dist.	8831 Sep 26 02:05	28° m) 54'46	2.43118 AU
	8826 Oct 27 20:11	0°る			8831 Sep 27 13:59	0∘ <u>ಹ</u>	
	8826 Dec 15 20:29	0° ≈		morning rise	8831 Oct 09 16:44	ა — 8° ჲ 43'57	
	8827 Jan 31 02:28	0°) €		5	8831 Nov 09 00:43	0° M	
evening set	8827 Feb 04 09:44	2°) 52'46			8831 Dec 24 00:56	0° ∡ ¹	
max. Earth dist.	8827 Feb 20 22:07		2.53827 AU		8832 Feb 10 06:25	0°ਰ	
	/	/				-	

	8832 Apr 04 09:16	0° ≈			8837 Jul 27 07:44	0∘ ত	
desc. node	8832 May 16 02:11	17° ≈ 51'30			8837 Sep 10 10:53	0° M ₊	
retrograde	8832 Jun 22 01:54	24° ≈ 43'13			8837 Oct 26 20:50	0° ∡ ¹	
opposition	8832 Jul 31 01:07	15° ≈ 49'41	-2°35'53	evening set	8837 Nov 09 04:53	8° ∡ 130'53	
greatest brilliancy	8832 Jul 31 10:06	15° ≈ 40'59		Ü	8837 Dec 13 00:33	0°ಕ	
min. Earth dist.	8832 Aug 04 14:01	14°≈04'15	0.64241 AU		0037 200 13 00.33	ů G	
direct	8832 Sep 10 12:17	5°≈48'11	0.04241710	conjunction	8837 Dec 24 16:50	7° る 24'24	0°06'17
uncci	8832 Nov 23 11:41	0°) €		minimum elong	8837 Dec 24 10:30 8837 Dec 24 17:02	7°る24'43	0°06'31
		0° Υ		•			0 0031
	8833 Jan 11 17:17			behind sun begin	8837 Dec 23 23:55	6°る57'35	
	8833 Feb 23 06:03	0° 8		behind sun end	8837 Dec 25 10:09	7° る 51'51	
	8833 Apr 03 19:01	0°II		max. Earth dist.	8837 Dec 23 20:50	6° ප 52'41	2.68173 AU
asc. node	8833 Apr 24 06:30	15° ∏ 59'45		desc. node	8838 Jan 05 15:16	14° る 58'53	
	8833 May 12 01:28	$0 {\circ} \mathfrak{S}$			8838 Jan 29 05:56	0° ≈	
	8833 Jun 19 06:37	$0^{\circ}\Omega$		morning rise	8838 Feb 06 07:51	5° ≈ 09'21	
	8833 Jul 28 09:42	0° m			8838 Mar 16 23:56	0° ∀	
evening set	8833 Aug 06 03:46	6° M 33′28			8838 May 01 23:46	0° Y	
	8833 Sep 07 03:58	0∘ ত			8838 Jun 16 05:18	0° ႘	
					8838 Jul 30 22:33	$\Pi^{\circ}0$	
conjunction	8833 Oct 05 01:10	19° ≏ 42'56	1°06'34		8838 Sep 14 02:57	0°ಲಾ	
minimum elong	8833 Oct 05 01:30	19° ≏ 43'31	1°06'38		8838 Nov 03 04:48	$0^{\circ}\Omega$	
C	8833 Oct 19 23:01	0°M		asc. node	8838 Dec 15 09:29	15° Ω 25'11	
max. Earth dist.	8833 Nov 05 10:13	11°M09'33	2.56342 AU	retrograde	8838 Dec 26 12:39	16°Ω16'59	
morning rise	8833 Nov 26 13:45	25°M12'45		min. Earth dist.	8839 Jan 21 13:49	11° Ω 58'40	0.38419 AU
morning rise	8833 Dec 03 21:10	0° %		opposition	8839 Jan 27 12:52	10° Ω 14'59	3°05'04
	8834 Jan 19 20:09	°5		greatest brilliancy	8839 Jan 26 18:25	10° Ω 28'23	-2.9m
	8834 Mar 10 00:13	0° ≈		direct	8839 Feb 26 05:48	5° Ω 01'07	2.7111
desc. node	8834 Apr 02 22:13	0 ∞ 13° ≈ 56'08		direct	8839 May 10 19:24	0°m)	
desc. Hode	•	0°)			•	0∘ ت رابا	
	8834 May 02 00:09	0 Υ 0° Υ			8839 Jul 01 19:27	0°M	
	8834 Jul 11 22:39				8839 Aug 19 22:02		
retrograde	8834 Aug 05 03:40	3° Y 11'19			8839 Oct 07 12:20	0° ⊼ ¹	
	8834 Aug 27 18:35	30° ₹		desc. node	8839 Nov 23 13:38	29° ∡ 15'46	
opposition	8834 Sep 10 05:59	25°) (33′54		_	8839 Nov 24 17:55	0° ろ	
greatest brilliancy	8834 Sep 11 15:11	25°) €03'39		evening set	8839 Dec 15 13:45	13° る 05'30	
min. Earth dist.	8834 Sep 18 05:28	22°) 40'20	0.53997 AU		8840 Jan 11 04:07	0° ≈	
direct	8834 Oct 19 16:44	16°) 18′34		max. Earth dist.	8840 Jan 15 07:10	2° ≈ 38'46	2.65828 AU
	8834 Dec 08 12:56	0 ° $\mathbf{\Upsilon}$					
	8835 Jan 28 04:10	9° 8		conjunction	8840 Jan 29 02:09	11° ≈ 32′20	-0°33'41
	8835 Mar 11 02:05	Π $\circ 0$		minimum elong	8840 Jan 29 01:14	11° ≈ 30'51	0°33'28
asc. node	8835 Mar 12 06:33	0°Ⅲ53′08			8840 Feb 26 07:08	0° ∀	
	8835 Apr 19 13:35	0°ಲ		morning rise	8840 Mar 13 13:55	10°) 50′31	
	8835 May 28 17:21	$0^{\circ}\Omega$			8840 Apr 10 19:49	0° Y	
	8835 Jul 07 18:27	0° m			8840 May 23 17:17	0°8	
	8835 Aug 18 10:32	0∘ ত			8840 Jul 04 03:22	$\Pi^{\circ}0$	
evening set	8835 Sep 29 19:51	29° ₽ 11'40			8840 Aug 13 12:10	0°€	
-	8835 Oct 01 00:31	0°M			8840 Sep 22 14:42	$0^{\circ}\Omega$	
	8835 Nov 15 09:44	0° ⊼ ¹		asc. node	8840 Nov 01 07:03	28° Ω 47'43	
					8840 Nov 03 00:23	0° m)	
conjunction	8835 Nov 18 16:43	2° ∡ ¹08'13	0°44'37		8840 Dec 19 18:58	0∘ <mark>⊽</mark>	
minimum elong	8835 Nov 18 17:56	2° √ 10'12	0°44'49	retrograde	8841 Feb 19 19:40	20° ≏ 57'14	
max. Earth dist.	8835 Dec 01 20:39	10° ∡ ¹38'35	2.64981 AU	min. Earth dist.	8841 Mar 21 19:39	14° ≏ 44'46	0.51350 AU
man. Darm dist.	8836 Jan 01 03:48	0°る	2.0.701110	greatest brilliancy	8841 Mar 28 05:11	12° Ω 21'16	-2.1m
morning rise	8836 Jan 03 15:36	1° る 34'48		opposition	8841 Mar 29 16:46	11° Ω 47'53	5°24'04
morning rise	8836 Feb 17 19:30	0°≈		direct	8841 May 03 07:29	4° Ω 16'41	3 24 04
desc. node	8836 Feb 18 18:04	0°≈35'16		direct	8841 Jul 21 15:00	0°M	
desc. Hode		0 ≈33 10 0° H				0°17⊓ 0°27⊓	
	8836 Apr 06 04:34	0 Υ 0° Υ		4 4-	8841 Sep 14 18:22	0 x · 15° x 103′28	
	8836 May 25 19:01			desc. node	8841 Oct 10 14:09		
	8836 Jul 18 00:30	0°8			8841 Nov 04 12:43	0° 3	
retrograde	8836 Oct 06 18:01	27° 8 06'50	5002140		8841 Dec 22 21:04	0°≈ 188••10124	
opposition	8836 Nov 06 23:14	21° 8 35'49		evening set	8842 Jan 20 01:54	18°≈10'24	
greatest brilliancy	8836 Nov 08 09:47	21° 8 10'05			8842 Feb 06 23:45	0°) {	
min. Earth dist.	8836 Nov 13 23:19	19° 8 31'31	0.40415 AU	max. Earth dist.	8842 Feb 08 22:04	1° ∺ 17'19	2.58164 AU
direct	8836 Dec 10 06:50	15° 8 09'36					
asc. node	8837 Jan 27 08:12	28° 8 56'09		conjunction	8842 Mar 07 18:56	19°) 31′20	
	8837 Jan 29 10:37	$\Pi^{\circ}0$		minimum elong	8842 Mar 07 17:59	19° ¥ 29'43	1°02'51
	8837 Mar 19 14:14	0 \circ \odot			8842 Mar 22 20:42	0° Y	
	8837 May 01 20:39	$0^{\circ}\Omega$		morning rise	8842 Apr 26 17:17	24° Y 55'07	
	8837 Jun 13 14:33	0° т р			8842 May 03 16:04	9° 8	

asc. node	8842 Jun 12 18:43 8842 Jul 21 18:27 8842 Aug 29 09:22 8842 Sep 19 03:03 8842 Oct 07 14:45 8842 Nov 17 18:20	0°∏ 0°₽ 0°₽ 15°₽58'20 0°™ 0°₽		retrograde opposition greatest brilliancy min. Earth dist.	8847 Jun 08 10:48 8847 Jul 18 02:58 8847 Jul 18 06:23 8847 Jul 21 04:41 8847 Jul 24 10:44 8847 Aug 28 17:56	11°≈41'23 2°≈27'34 2°≈24'13 1°≈15'24 30°Rる 22°る24'40	-1.4m
	8843 Jan 02 05:55 8843 Mar 05 12:08	0°M. 0°⊀		unsu	8847 Oct 06 02:56 8847 Dec 06 00:30	0° ≈ 0° ∀	
retrograde	8843 Apr 01 00:25 8843 Apr 25 21:56	4° ጾ 14'09 30° ℝ ጤ			8848 Jan 21 17:03 8848 Mar 03 13:11	0° ∀	
min. Earth dist. opposition	8843 May 06 15:46 8843 May 11 04:09	26°M03'02 24°M15'30	0.62653 AU 3°34'48	asc. node	8848 Apr 11 19:52 8848 May 10 21:34	0°П 22°П50'58	
greatest brilliancy	8843 May 10 15:00	24°M28'32	-1.5m	ase. Hode	8848 May 19 22:33	0°95	
direct	8843 Jun 18 16:46	15°M18'07			8848 Jun 26 23:49	$0^{\circ}\Omega$	
daga mada	8843 Aug 15 02:52	0°⊀ 6°⊀05'05		evening set	8848 Jul 09 24:00	10° Ω 07'59 0° m	
desc. node	8843 Aug 28 16:13 8843 Oct 13 16:27	0° 궁			8848 Aug 04 22:02	עוו ט	
	8843 Dec 03 12:57	0° ≈		conjunction	8848 Sep 13 12:18	29° m 19'24	1°04'27
	8844 Jan 19 08:13	0° ∀		minimum elong	8848 Sep 13 11:02	29° m 17'08	1°04'27
evening set	8844 Mar 02 02:06 8844 Mar 03 02:01	29°) 17'43 0° °		max. Earth dist.	8848 Sep 14 10:45 8848 Oct 23 10:09	0° 亞 27° Ω 20'27	2.51604 AU
max. Earth dist.	8844 Mar 16 01:05	9° Υ 14'54	2.45948 AU	max. Earth dist.	8848 Oct 27 01:00	27 = 3037 0° ™	2.31004 AU
	8844 Apr 13 08:38	0°8		morning rise	8848 Nov 09 10:53	9° ™ 07'57	
	00444 05 05 01	001.45511.0	0050105		8848 Dec 10 21:35	0° ⊼	
conjunction minimum elong	8844 Apr 25 07:01 8844 Apr 25 08:55	8° 8 57'18 9° 8 00'54			8849 Jan 27 03:31 8849 Mar 18 12:02	0°る 0°≈	
minimum ciong	8844 May 22 19:15	0°П	0 37 32	desc. node	8849 Apr 19 13:01	17° ≈ 31'05	
morning rise	8844 Jun 28 14:43	28° ∏ 46′57			8849 May 15 03:05	0° ∀	
	8844 Jun 30 03:49	0°©		retrograde	8849 Jul 17 11:25	17°) 19'19	401.014.6
asc. node	8844 Aug 06 00:50 8844 Aug 07 06:11	29° © 02'26 0° Ω		opposition greatest brilliancy	8849 Aug 23 22:10 8849 Aug 24 20:46	9°) € 06'33 8°) € 45'15	
	8844 Sep 14 23:27	0°mp		min. Earth dist.	8849 Aug 30 16:02		0.58730 AU
	8844 Oct 25 05:49	0∘ ⊽			8849 Sep 23 22:14	30°R ≈	
	8844 Dec 07 02:25 8845 Jan 23 08:39	0° M 0° ∡ 7		direct	8849 Oct 03 12:38 8849 Oct 13 09:33	29° ≈ 22'52 0°) €	
	8845 Mar 23 22:57	0°ਤ			8849 Dec 24 22:27	0°Υ	
retrograde	8845 May 04 16:48	8° ප 58'02			8850 Feb 08 05:23	0° 8	
,	8845 Jun 12 02:48	30°Ŗ ⋌ ¹	100.412.5	,	8850 Mar 20 17:34	0°П	
opposition greatest brilliancy	8845 Jun 14 06:05 8845 Jun 14 05:41	29° х 09′03 29° х 09′27		asc. node	8850 Mar 28 23:35 8850 Apr 28 12:23	6° Ⅱ 19'14 0° ©	
min. Earth dist.	8845 Jun 13 12:50	29° ∡ 26′12	0.67887 AU		8850 Jun 06 03:45	0°N	
desc. node	8845 Jul 15 17:09	19° ∡ 58′02			8850 Jul 15 17:18	0° т	
direct	8845 Jul 25 01:47 8845 Sep 10 10:09	19° メ 25'28 0° る		avaning sat	8850 Aug 25 22:23 8850 Sep 10 18:19	0° 亞	
	8845 Nov 10 07:47	0°≈		evening set	8850 Oct 08 03:00	0°M	
	8845 Dec 29 10:50	0°) €					
	8846 Feb 11 17:54	0°Υ		conjunction	8850 Nov 02 17:05	17°M09'20	0°56'16
evening set	8846 Mar 24 22:19 8846 Apr 27 10:06	0° と 25° と 35'59		minimum elong max. Earth dist.	8850 Nov 02 18:22 8850 Nov 22 10:35	17°ML11'28 0° ₹07'22	0°56'25 2.62240 AU
	8846 May 03 01:43	0°Щ			8850 Nov 22 06:04	0° ∡ 7	
	8846 Jun 10 03:26	0° ©		morning rise	8850 Dec 20 14:16	18° ∡ 17'55	
asc. node	8846 Jun 23 22:09	10° © 55'22			8851 Jan 07 23:48 8851 Feb 25 01:07	0°る	
conjunction	8846 Jul 05 03:39	19° © 48'38	0°08'09	desc. node	8851 Mar 07 08:28	0 ∞ 6°≈19'47	
minimum elong	8846 Jul 05 02:45	19° 5 346'52	0°07'55		8851 Apr 15 14:31	0°) €	
behind sun begin	8846 Jul 03 23:36	18°953'15			8851 Jun 07 09:00	0° Υ	
behind sun end	8846 Jul 06 05:53 8846 Jul 18 01:54	20° © 40'27 0° Ω		retrograde	8851 Aug 15 23:33 8851 Sep 09 15:38	0°8 3°821'56	
max. Earth dist.	8846 Aug 19 20:00		2.37847 AU	retrograde	8851 Oct 02 23:21	30°RY	
	8846 Aug 25 18:13	0° m)		opposition	8851 Oct 12 21:52	26° Y '57'05	
morning rise	8846 Sep 14 22:17	15° mp 13'17		greatest brilliancy	8851 Oct 14 17:51	26° Y 20'49	
	8846 Oct 04 23:21 8846 Nov 16 08:59	0° Մ 0° ত		min. Earth dist. direct	8851 Oct 21 13:51 8851 Nov 18 07:13	24° Υ 06'33 19° Υ 07'04	0.45592 AU
	8846 Dec 31 14:30	0° ∡ 7			8851 Dec 30 14:22	0°8	
	8847 Feb 18 22:13	5°0		asc. node	8852 Feb 14 00:51	26° 8 14'54	
desc node	8847 Apr 19 14:29	0° ≈ 11° ≈ 29'24			8852 Feb 19 15:24	0°© ∏	
desc. node	8847 Jun 02 16:09	11 2 29 24			8852 Apr 01 22:06	0 🖘	

	8852 May 12 16:12	$0 {\circ} \Omega$			8857 Jun 20 14:41	Π \circ 0	
	8852 Jun 22 22:00	0° m			8857 Jul 30 00:24	0 \circ \odot	
	8852 Aug 04 13:34	0∘ ত			8857 Sep 07 00:47	$0^{\circ}\Omega$	
	8852 Sep 17 22:15	0°M,		asc. node	8857 Oct 05 21:25	21° Ω 55′16	
evening set	8852 Oct 25 01:33	24°M20'05			8857 Oct 16 17:25	0° m)	
e vennig see	8852 Nov 02 19:58	0° ⊼ ¹			8857 Nov 27 19:44	0∘ ⊽	
	00321107 02 17.50	0 %			8858 Jan 15 17:54	o° m	
agniumation	9952 Day 10 10:12	240.7110122	0°21'53	ratra arada		19°M.06'56	
conjunction	8852 Dec 10 19:12	24° 🖈 18'23		retrograde	8858 Mar 17 10:21		0.50070 441
minimum elong	8852 Dec 10 19:53	24° ₹ 19'27	0°22'07	min. Earth dist.	8858 Apr 20 00:34	11°M37'28	0.58870 AU
max. Earth dist.	8852 Dec 15 02:06		2.67575 AU	greatest brilliancy	8858 Apr 25 02:20	9° ™ 38′08	-1.7m
	8852 Dec 19 18:03	0°ಕ		opposition	8858 Apr 26 00:03	9° ™ 16'50	4°26'28
desc. node	8853 Jan 22 04:41	21° る 12'45		direct	8858 Jun 02 04:59	0° ™ 47'05	
morning rise	8853 Jan 23 22:53	22° る 19'35			8858 Aug 28 21:36	0° ∡ ¹	
	8853 Feb 05 01:26	0° ≈		desc. node	8858 Sep 14 04:53	8° ∡ ³33′09	
	8853 Mar 24 06:39	0° ∀			8858 Oct 22 09:02	0°₹	
	8853 May 10 06:20	$0^{\circ}\mathbf{\Upsilon}$			8858 Dec 10 23:15	0° ≈ ≈	
	8853 Jun 26 06:37	0°8			8859 Jan 26 09:57	0°) €	
	8853 Aug 13 07:03	0°II		evening set	8859 Feb 13 14:54	12° ¥ 16'32	
	8853 Oct 06 03:20	0°©		max. Earth dist.	8859 Feb 28 14:12		2.51135 AU
				max. Earm uist.		22 γ (3327 0° Υ	2.31133 AU
retrograde	8853 Nov 26 12:21	14°515'39	0026107		8859 Mar 11 03:56	0 1	
opposition	8853 Dec 26 11:09	9° © 15'18				. ==000	
greatest brilliancy	8853 Dec 26 11:34	9° © 15'01	-3.1m	conjunction	8859 Apr 05 00:10	17° Y ′48′10	
min. Earth dist.	8853 Dec 25 19:05	9° © 25'59	0.36560 AU	minimum elong	8859 Apr 05 00:35	17° Ƴ 48'56	1°07'00
asc. node	8854 Jan 01 00:48	7° © 47'46			8859 Apr 21 14:37	9° 8	
direct	8854 Jan 24 21:55	4° 5 22'18			8859 May 31 06:30	Π $^{\circ}0$	
	8854 Apr 07 03:50	$0^{\circ}\Omega$		morning rise	8859 Jun 01 10:39	0° Ⅲ 54'11	
	8854 May 26 13:00	0° m			8859 Jul 08 19:49	0 \circ \odot	
	8854 Jul 12 10:10	0∘ ⊽			8859 Aug 16 01:43	$0^{\circ}\Omega$	
	8854 Aug 28 09:44	0°M₊		asc. node	8859 Aug 23 17:03	5° Ω 57'40	
	8854 Oct 14 21:56	0° ∡ 7			8859 Sep 23 21:40	0° m)	
evening set	8854 Dec 01 15:49	0° る 01'43			8859 Nov 03 08:07	0∘ ⊽	
evening set	8854 Dec 01 14:43	0°る			8859 Dec 16 17:32	0° m .	
11.		5° る 22'35				0° ∕ 7⊓	
desc. node	8854 Dec 10 03:18		0 (500) 177		8860 Feb 04 02:17		
max. Earth dist.	8855 Jan 06 13:43	22° 6 46'09	2.67391 AU	retrograde	8860 Apr 21 11:09	26° ₹ 10'16	
				min. Earth dist.	8860 May 29 19:47	17° ∡ ¹06'34	0.66618 AU
conjunction	8855 Jan 15 05:21	28° る 17'24		opposition	8860 Jun 01 00:46	16° ∡ 13'50	2°04'19
minimum elong	8855 Jan 15 04:49	28° る 16'31	0°18'33	greatest brilliancy	8860 May 31 21:14	16° ∡ 17'20	-1.4m
	8855 Jan 17 21:30	0° ≈		direct	8860 Jul 11 03:16	6° ∡ ¹44'55	
morning rise	8855 Feb 27 23:26	26° ≈ 34'42		desc. node	8860 Aug 01 06:27	9° ∡ 11'39	
	8855 Mar 05 04:43	0° ∀			8860 Sep 25 08:08	0°₹	
	8855 Apr 19 04:26	$0^{\circ}\mathbf{\Upsilon}$			8860 Nov 19 05:24	0° ≈ ≈	
	8855 Jun 01 18:44	0°8			8861 Jan 06 03:43	0°) €	
	8855 Jul 14 02:10	0°II			8861 Feb 19 03:37	0° Υ	
	8855 Aug 24 12:30	0°9			8861 Apr 01 08:00	0°8	
	8855 Oct 05 01:50	$0^{\circ}\Omega$		evening set	8861 Apr 02 22:06	1° 8 11'23	
	8855 Nov 18 11:48	0° m		max. Earth dist.	•	22° 8 35'43	2.37995 AU
1		-		max. Earm dist.	8861 May 01 00:21		2.37993 AU
asc. node	8855 Nov 19 00:34	0° Mp 19'54			8861 May 10 13:29	Π $^{\circ}0$	
retrograde	8856 Feb 01 18:28	29° Tp 25'49					
min. Earth dist.	8856 Feb 29 09:12	24° Mp 08'40	0.45880 AU	conjunction	8861 Jun 04 21:01	19° Ⅱ 51'19	
greatest brilliancy	8856 Mar 07 04:44	21°Mp45'59	-2.4m	minimum elong	8861 Jun 04 23:24	19° Ⅱ 56′02	0°25'30
opposition	8856 Mar 08 20:07	21°M/11'18	5°25'07		8861 Jun 17 16:58	0 \circ	
direct	8856 Apr 10 12:55	14° ™ 30'07		asc. node	8861 Jul 10 15:55	18° © 10'20	
	8856 Jun 06 06:46	0∘ ⊽			8861 Jul 25 15:54	$0^{\circ}\Omega$	
	8856 Aug 02 21:16	0°M		morning rise	8861 Aug 16 21:10	17° Ω 21'33	
	8856 Sep 23 09:10	0° ∡ ¹			8861 Sep 02 07:16	0° m y	
desc. node	8856 Oct 27 03:30	20° ₹ '21'31			8861 Oct 12 10:57	0∘ ⊽	
	8856 Nov 11 21:07	6°0			8861 Nov 23 21:35	0°M₊	
	8856 Dec 29 18:25	0° ≈			8862 Jan 08 13:26	0° ∡ 7	
evening set	8857 Jan 05 13:21	0 ∞ 4°≈20'41			8862 Feb 28 18:22	0°₹	
max. Earth dist.	8857 Jan 29 07:20		2 61768 ATT	retrograde		0 3 29° る 07'14	
max. Earth dist.		19° ≈ 44'50	2.61768 AU	retrograde	8862 May 25 15:25		
	8857 Feb 13 19:54	0° ∀		desc. node	8862 Jun 19 06:12	25° る 15'59	0000:
				opposition	8862 Jul 04 19:37	19° る 37'04	
conjunction	8857 Feb 19 23:04	4°) €05'34		greatest brilliancy	8862 Jul 04 20:08	19° る 36'33	
minimum elong	8857 Feb 19 21:54	4° ∺ 03'37	0°53'45	min. Earth dist.	8862 Jul 06 09:41	18° る 59'31	0.67878 AU
	8857 Mar 29 21:48	0 ° $\mathbf{\Upsilon}$		direct	8862 Aug 15 07:39	9° ට 38'32	
morning rise	8857 Apr 08 00:13	6° Y 21′54			8862 Oct 23 03:53	0°≈	
	8857 May 11 01:50	9° 8			8862 Dec 15 13:31	0° ∀	

	8863 Jan 29 23:07	0° Υ		minimum elong	8867 Nov 27 08:50	10° ∡ ¹44'57	0°36'54
	8863 Mar 12 10:39	0°8		max. Earth dist.	8867 Dec 07 03:51	17° ∡ *01'54	2.66139 AU
	8863 Apr 20 14:56	Π °0			8867 Dec 27 11:56	0°ಕ	
asc. node	8863 May 28 15:12	29° ∏ 57'52		morning rise	8868 Jan 11 11:46	9° る 30'22	
	8863 May 28 16:17	0°95		desc. node	8868 Feb 08 20:04	27° る 23'29	
evening set	8863 Jun 11 02:31	10°938'22			8868 Feb 12 23:36	0° ≈	
	8863 Jul 05 15:25	0° N			8868 Mar 31 20:31	0°) €	
	8863 Aug 13 10:07	0° m			8868 May 19 06:54	0°Υ	
i	00(2 A 20 0(-20	5° m 11'08	0°51'50		8868 Jul 08 09:14	0°Ⅱ 8°0	
conjunction minimum elong	8863 Aug 20 06:20 8863 Aug 20 03:18	5° m 05'24	0°51'42	retrograde	8868 Sep 03 12:18 8868 Oct 24 11:33	13° Ⅱ 09'03	
minimum ciong	8863 Sep 22 18:18	១ ឃុំ03 2 ។ 0° Ω	0 31 42	opposition	8868 Nov 23 18:42	8° Ⅱ 02'24	-3°52'16
max. Earth dist.	8863 Oct 08 02:53	11° ≏ 02'34	2.46208 AU	greatest brilliancy	8868 Nov 24 15:49	7° ∏ 47'42	
morning rise	8863 Oct 22 00:16	20° £ 50'58		min. Earth dist.	8868 Nov 28 17:35	6° Ⅱ 40'07	
5	8863 Nov 04 04:50	0°M		direct	8868 Dec 25 05:38	2° I I22'33	
	8863 Dec 19 01:43	0°⊀		asc. node	8869 Jan 17 17:58	6° Ⅱ 01′01	
	8864 Feb 04 19:21	万 °0			8869 Mar 08 17:02	0ಂಣ	
	8864 Mar 28 01:40	0° ≈			8869 Apr 24 02:03	$0^{\circ}\Omega$	
desc. node	8864 May 06 03:23	18° ≈ 59'03			8869 Jun 07 04:57	0° ™	
	8864 Jun 07 09:42	0°) €			8869 Jul 21 17:11	0。 ত	
retrograde	8864 Jun 30 20:50	2° ∺ 58′29			8869 Sep 05 08:36	0° M ₊	
	8864 Jul 22 15:14	30° R ≈			8869 Oct 22 02:02	0°⊀	
opposition	8864 Aug 08 09:07	24° ≈ 17'51		evening set	8869 Nov 17 11:52	16° ∡ 45′52	
greatest brilliancy	8864 Aug 08 22:25	24°≈05'04	-1.5m		8869 Dec 08 09:34	0°る	
min. Earth dist.	8864 Aug 13 17:30	22°≈14'41	0.62542 AU	desc. node	8869 Dec 26 17:19	11° る 36'29	2 (0121 177
direct	8864 Sep 18 15:49	14°≈20'00		max. Earth dist.	8869 Dec 28 21:47	12° 6 59'42	2.68131 AU
	8864 Nov 14 02:14	0° ℋ 0° Ƴ		agniumation	8870 Jan 01 12:43	15° る 17'40	0002106
	8865 Jan 05 09:16 8865 Feb 17 15:36	0°8		conjunction minimum elong	8870 Jan 01 12:37	15° ठ 17'31	0°02'52
	8865 Mar 29 11:17	0°II		behind sun begin	8869 Dec 31 18:26	13 3 1731 14° 3 48'39	0 02 32
asc. node	8865 Apr 14 14:44	12° II 32'27		behind sun end	8870 Jan 02 06:49	15° ප් 46'23	
use. Houe	8865 May 06 21:12	0°95		oomina san ona	8870 Jan 24 15:06	0°≈	
	8865 Jun 14 05:08	$0^{\circ}\Omega$		morning rise	8870 Feb 14 01:46	13° ≈ 06'11	
	8865 Jul 23 11:00	0° m p		-	8870 Mar 12 04:42	0°) €	
evening set	8865 Aug 19 22:13	20°M/18'50			8870 Apr 26 18:53	0 ° $\mathbf{\Upsilon}$	
	8865 Sep 02 07:55	0∘ ত			8870 Jun 10 07:51	9° 8	
	8865 Oct 15 05:13	0°M₊			8870 Jul 23 23:04	$\Pi^{\circ}0$	
					8870 Sep 05 06:20	0ಂ ತಾ	
conjunction	8865 Oct 16 00:33	0°M32'59			8870 Oct 20 04:50	$0^{\circ}\Omega$	
minimum elong	8865 Oct 16 01:25	0°M34'29	1°04'27	asc. node	8870 Dec 05 16:34	25° Ω 21'16	
max. Earth dist.	8865 Nov 11 23:21		2.58655 AU		8870 Dec 18 15:43	0° Т р	
marning rise	8865 Nov 29 03:43 8865 Dec 05 15:02	0° ₰ 4° ₰ 12'57		retrograde	8871 Jan 10 07:23 8871 Feb 01 19:37	3° Mp30′10 30° R Ω	
morning rise	8866 Jan 14 23:14	4 x 12 37 0°る		min. Earth dist.	8871 Feb 01 19.57	28° Ω 59'46	0.40714 AU
	8866 Mar 04 14:52	0°≈		opposition	8871 Feb 12 20:06	26° Ω 37'43	
desc. node	8866 Mar 23 23:23	11° ≈ 33'29		greatest brilliancy	8871 Feb 11 13:31	27° Ω 01'47	
	8866 Apr 24 23:49	0° ∀		direct	8871 Mar 15 14:14	20° £ 54'05	
	8866 Jun 23 12:44	$0^{\circ}\mathbf{\Upsilon}$			8871 Apr 25 05:48	0° m	
retrograde	8866 Aug 16 21:42	13° Y 35'52			8871 Jun 23 22:39	0∘ ⊽	
opposition	8866 Sep 21 02:58	6° Y 21′36	-5°27'34		8871 Aug 13 23:07	0°M	
greatest brilliancy	8866 Sep 22 17:46	5° Ƴ 47'14	-2.0m		8871 Oct 02 08:57	0° ∡ ¹	
min. Earth dist.	8866 Sep 29 15:07	3° Y 21'43	0.51111 AU	desc. node	8871 Nov 13 16:31	26° ₰ 04'39	
	8866 Oct 10 15:05	30° ₹ ₩			8871 Nov 19 23:51	0°ಕ	
direct	8866 Oct 29 17:21	27° ∺ 29'45		evening set	8871 Dec 23 11:51	21° る 02'14	
	8866 Nov 18 07:07	0° Υ			8872 Jan 06 13:46	0° ≈	
•	8867 Jan 19 21:55	0° 8		max. Earth dist.	8872 Jan 20 15:19	9° ≈ 02'27	2.64620 AU
asc. node	8867 Mar 02 16:15	28° ႘ 43'00			0073 E 1 07 04 00	10047117	0041144
	8867 Mar 04 10:33	0° I I		conjunction	8872 Feb 06 04:08	19°≈47'17	
	8867 Apr 13 13:32 8867 May 23 02:51	0° ೮ 0ಂಡಿ		minimum elong	8872 Feb 06 03:04 8872 Feb 21 16:18	19° ≈ 45'32 0° 米	0 41 34
	8867 Jul 02 11:26	0°a≀ o°mp		morning rise	8872 Mar 22 08:18	19° ¥ 55'17	
	8867 Aug 13 09:42	0∘ ت بالا		morning risc	8872 Apr 06 01:20	19 χ 33 17	
	8867 Sep 26 04:52	0° m.			8872 May 18 16:20	0°8	
evening set	8867 Oct 09 18:32	9° M .03'09			8872 Jun 28 18:10	0°II	
<i>5</i>	8867 Nov 10 17:20	0° ∡ 7			8872 Aug 07 17:08	0°9	
					8872 Sep 16 07:34	$0^{\circ}\Omega$	
conjunction	8867 Nov 27 07:45	10° ∡ ³43'14	0°36'42	asc. node	8872 Oct 22 14:57	26° Ω 56'55	

	0072 0 4 26 20 12	00 m.			0077 N 02 10 00	00	
	8872 Oct 26 20:13	0° m ∕			8877 Nov 03 19:08	0° ≈	
	8872 Dec 09 23:20	0∘ ⊽			8877 Dec 24 02:47	0° ∀	
	8873 Feb 11 14:24	0° M ₊			8878 Feb 06 18:40	0° Y	
retrograde	8873 Mar 01 14:48	2°M12'10			8878 Mar 20 01:42	0°B	
	8873 Mar 19 00:48	30° Ŗ Ω			8878 Apr 28 05:29	0°П	
i. Edl did			0.54020 ATT		-	11° Ⅱ 22'49	
min. Earth dist.	8873 Apr 01 22:42	25° £ 30'48	0.54238 AU	evening set	8878 May 12 17:44		
greatest brilliancy	8873 Apr 07 23:07	23° ≏ 12'48	-1.9m		8878 Jun 05 06:46	0	
opposition	8873 Apr 09 06:10	22° ≏ 43'03	5°08'32	asc. node	8878 Jun 14 06:46	7° 5 08'15	
direct	8873 May 14 21:12	14° ≏ 48′20			8878 Jul 13 04:54	$0^{\circ}\Omega$	
	8873 Jul 11 10:13	0°M					
	8873 Sep 08 12:48	0° ∡ 7		conjunction	8878 Jul 22 10:07	7°Ω13'33	0°26'46
	•			•			
desc. node	8873 Sep 30 17:24	12° ∡ ³34'16		minimum elong	8878 Jul 22 07:25	7° Ω 08'15	0°26'31
	8873 Oct 30 08:43	0°ප			8878 Aug 20 21:20	0° m y	
	8873 Dec 18 02:48	0° ≈		max. Earth dist.	8878 Sep 13 18:03	17° m) 58'15	2.40624 AU
evening set	8874 Jan 28 16:28	26°≈54'05		morning rise	8878 Sep 29 10:10	29° m 30'17	
v	8874 Feb 02 08:23	0° ∀			8878 Sep 30 02:28	0∘ ⊽	
E 4 E 4			2.55062 ATT		•		
max. Earth dist.	8874 Feb 15 13:35	8° \(\pi \) 32'33	2.55862 AU		8878 Nov 11 11:05	0° M	
					8878 Dec 26 11:18	0° ∡ ¹	
conjunction	8874 Mar 17 10:05	29°) 27'12	-1°06'09		8879 Feb 13 00:16	0°ರ	
minimum elong	8874 Mar 17 09:29	29° ¥ 26′09	1°06'08		8879 Apr 09 17:19	0° ≈	
	8874 Mar 18 04:46	0° Υ		desc. node	8879 May 23 18:10	16° ≈ 29'25	
					•		
	8874 Apr 28 21:26	0°8		retrograde	8879 Jun 16 16:20	19° ≈ 35′22	
morning rise	8874 May 08 12:47	7° 8 07'57		opposition	8879 Jul 26 00:15	10° ≈ 32'14	-2°10'10
	8874 Jun 07 20:34	Π $^{\circ}0$		greatest brilliancy	8879 Jul 26 06:30	10° ≈ 26′08	-1.4m
	8874 Jul 16 16:27	0ಂತಾ		min. Earth dist.	8879 Jul 29 21:38	9° ≈ 01'25	0.65408 AU
	8874 Aug 24 03:33	$0^{\circ}\Omega$		direct	8879 Sep 05 14:32	0° ≈ 29'25	
	•			uncci			
asc. node	8874 Sep 09 12:23	12° Ω 40'55			8879 Nov 28 21:49	0° ∀	
	8874 Oct 02 04:13	0° т р			8880 Jan 16 00:05	0 ° Υ	
	8874 Nov 11 22:30	0。 ಹ			8880 Feb 27 06:32	$_{0\circ}$ 8	
	8874 Dec 26 07:37	0°M			8880 Apr 06 17:30	$\Pi^{\circ}0$	
	8875 Feb 18 11:18	0° ⊼ 7		asc. node	8880 May 01 07:23	19° ∏ 15'02	
				asc. Houe	•		
retrograde	8875 Apr 08 23:37	12° ₹ 47'50			8880 May 14 22:18	0ം ತಾ	
min. Earth dist.	8875 May 15 15:56	4° ҂ 16'33	0.64333 AU		8880 Jun 22 01:11	$0 {\circ} \Omega$	
opposition	8875 May 19 08:42	2° ∡ ¹48'18	3°02'21	evening set	8880 Jul 25 17:15	25° Ω 57'47	
greatest brilliancy	8875 May 18 23:39	2° √ 57'18	-1.4m	•	8880 Jul 31 01:07	0° m/	
greatest stimuity	0072 111 a y 10 2 5.59	2 7. 0 / 10	1		0000000		
	8875 May 26 14-36	3 Uo⊳ M			8880 San 00 15:26	$\Omega \circ \Omega$	
11	8875 May 26 14:36	30°RM			8880 Sep 09 15:26	0∘ ⊽	
direct	8875 Jun 27 12:38	23°M38'12			•	0∘ ⊽	
direct	•			conjunction	8880 Sep 09 15:26 8880 Sep 26 02:03	0° ჲ 11° ჲ 44'52	1°06'42
direct desc. node	8875 Jun 27 12:38	23°M38'12		conjunction minimum elong	•		
	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54	23°M38'12 0°⊀ 6°≮08'27		·	8880 Sep 26 02:03 8880 Sep 26 01:48	11° ≏ 44'52 11° ≏ 44'25	
	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47	23°M.38'12 0°ダ 6°ダ08'27 0°る		minimum elong	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52	11° ≏ 44'52 11° ≏ 44'25 0° ™	1°06'45
	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09	23°M.38'12 0°♂ 6°♂08'27 0°♂ 0°≈		minimum elong max. Earth dist.	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18	11° Ω 44'52 11° Ω 44'25 0°M 6°M02'31	
	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21	23°M38'12 0°水 6°水08'27 0°云 0°≈ 0°米		minimum elong	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11	11° Ω 44'52 11° Ω 44'25 0° M 6° M 02'31 19° M 00'05	1°06'45
	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09	23°M.38'12 0°♂ 6°♂08'27 0°♂ 0°≈		minimum elong max. Earth dist.	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18	11° Ω 44'52 11° Ω 44'25 0°M 6°M02'31	1°06'45
	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21	23°M38'12 0°水 6°水08'27 0°云 0°≈ 0°米		minimum elong max. Earth dist.	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11	11° Ω 44'52 11° Ω 44'25 0° M 6° M 02'31 19° M 00'05	1°06'45
desc. node	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03	23°M38'12 0°⊀ 6°⊀'08'27 0°℧ 0°≫ 0°升 0°Υ'10°Υ'22'12	2.42968 AU	minimum elong max. Earth dist.	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00	11° △ 44'52 11° △ 44'25 0° M 6° M 02'31 19° M 00'05 0° ♂	1°06'45
desc. node	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03 8876 Mar 27 19:58	23°M38'12 0°ダ 6°ダ08'27 0°云 0°≈ 0°∀ 10°Y22'12 21°Y16'06	2.42968 AU	minimum elong max. Earth dist. morning rise	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20	11° \$\Overline{	1°06'45
desc. node	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03	23°M38'12 0°⊀ 6°⊀'08'27 0°℧ 0°≫ 0°升 0°Υ'10°Υ'22'12	2.42968 AU	minimum elong max. Earth dist.	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20 8881 Apr 09 14:41	11° 2 44'52 11° 2 44'25 0° M 6° M 02'31 19° M 00'05 0° \$\vec{A}\$ 0° \$\vec{A}\$ 0° \$\vec{A}\$	1°06'45
desc. node evening set max. Earth dist.	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03 8876 Mar 27 19:58 8876 Apr 08 14:42	23°M38'12 0°⊀ 6°⊀'08'27 0°ጜ 0°≈ 0°भ 0°Y 10°Y22'12 21°Y16'06 0°႘		minimum elong max. Earth dist. morning rise desc. node	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20 8881 Apr 09 14:41 8881 May 06 03:01	11° \$\overline{2}\$44'52 11° \$\overline{2}\$44'25 0° \mathbb{M}. 6° \mathbb{M}.00'05 0° \nr\ 0° \overline{3} 0° \overline{4} 15° \$\infty 55'30 0° \nc\ 0° \nc\ 15° \$\infty 55'30	1°06'45
desc. node evening set max. Earth dist. conjunction	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03 8876 Mar 27 19:58 8876 Apr 08 14:42	23°M38'12 0° ₹ 6° ₹'08'27 0° ₹ 0° ₹ 0° ₹ 0° ¥ 0° ¥ 10° ¥'22'12 21° ¥'16'06 0° ₹ 22° ₹'55'29	-0°50'21	minimum elong max. Earth dist. morning rise desc. node retrograde	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20 8881 Apr 09 14:41 8881 May 06 03:01 8881 Jul 27 18:38	11° \$\overline{1}\overline{1}\text{2}\text{2}\text{11° \$\overline{1}\text{2}\text{44'25}}\text{0° m}\text{6° M02'31}\text{19° M00'05}\text{0° \$\nr\text{0}'' \text{0° \$\nr\text{0}'' \text{0}'' \text{26° \$\nr\text{3}\text{3}\text{3}'32}	1°06'45 2.54305 AU
desc. node evening set max. Earth dist.	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03 8876 Mar 27 19:58 8876 Apr 08 14:42	23°M38'12 0°⊀ 6°⊀'08'27 0°ጜ 0°≈ 0°भ 0°Y 10°Y22'12 21°Y16'06 0°႘	-0°50'21	minimum elong max. Earth dist. morning rise desc. node	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20 8881 Apr 09 14:41 8881 May 06 03:01	11° \$\Overline{	1°06'45 2.54305 AU -4°42'26
desc. node evening set max. Earth dist. conjunction	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03 8876 Mar 27 19:58 8876 Apr 08 14:42	23°M38'12 0° ₹ 6° ₹'08'27 0° ₹ 0° ₹ 0° ₹ 0° ¥ 0° ¥ 10° ¥'22'12 21° ¥'16'06 0° ₹ 22° ₹'55'29	-0°50'21	minimum elong max. Earth dist. morning rise desc. node retrograde	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20 8881 Apr 09 14:41 8881 May 06 03:01 8881 Jul 27 18:38	11° \$\overline{1}\overline{1}\text{2}\text{2}\text{11° \$\overline{1}\text{2}\text{44'25}}\text{0° m}\text{6° M02'31}\text{19° M00'05}\text{0° \$\nr\text{0}'' \text{0° \$\nr\text{0}'' \text{0}'' \text{26° \$\nr\text{3}\text{3}\text{3}'32}	1°06'45 2.54305 AU -4°42'26
desc. node evening set max. Earth dist. conjunction	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03 8876 Mar 27 19:58 8876 Apr 08 14:42 8876 May 08 19:57 8876 May 08 22:35	23°M38'12 0°ダ 6°ダ'08'27 0°云 0°云 0°六 0°Y 10°Y22'12 21°Y16'06 0°႘ 22°႘55'29 23°႘00'35	-0°50'21	minimum elong max. Earth dist. morning rise desc. node retrograde opposition	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20 8881 Apr 09 14:41 8881 May 06 03:01 8881 Jul 27 18:38 8881 Sep 02 12:50 8881 Sep 03 17:25	11°至44'52 11°至44'25 0°M 6°M02'31 19°M00'05 0°ズ 0°窓 15°≈55'30 0°米 26°升38'32 18°升44'23 18°升4'756	1°06'45 2.54305 AU -4°42'26
evening set max. Earth dist. conjunction minimum elong	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03 8876 Mar 27 19:58 8876 Apr 08 14:42 8876 May 08 19:57 8876 May 08 22:35 8876 May 17 23:45 8876 Jun 25 06:30	23°M.38'12 0° ₹ 6° ₹08'27 0° ₹ 0° ₹ 0° ¥ 0° ¥ 10° ¥22'12 21° ¥16'06 0° 8 22° ₹55'29 23° ₹00'35 0° ¶ 0° \$	-0°50'21	minimum elong max. Earth dist. morning rise desc. node retrograde opposition greatest brilliancy min. Earth dist.	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20 8881 Apr 09 14:41 8881 May 06 03:01 8881 Jul 27 18:38 8881 Sep 02 12:50 8881 Sep 03 17:25 8881 Sep 10 00:29	11°	1°06'45 2.54305 AU -4°42'26 -1.8m
evening set max. Earth dist. conjunction minimum elong morning rise	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03 8876 Mar 27 19:58 8876 Apr 08 14:42 8876 May 08 19:57 8876 May 08 22:35 8876 May 17 23:45 8876 Jun 25 06:30 8876 Jul 16 02:45	23°M.38'12 0° ₹ 6° ₹08'27 0° ₹ 0° ₩ 0° ₩ 10° ¥22'12 21° ¥16'06 0° 8 22° ₹55'29 23° ₹00'35 0° II 0° \$ 16° \$27'29	-0°50'21	minimum elong max. Earth dist. morning rise desc. node retrograde opposition greatest brilliancy	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20 8881 Apr 09 14:41 8881 May 06 03:01 8881 Jul 27 18:38 8881 Sep 02 12:50 8881 Sep 03 17:25 8881 Sep 10 00:29 8881 Oct 12 14:09	11° \$\omega 44'52 11° \$\omega 44'25 0° m. 6° m.02'31 19° m.00'05 0° *\omega 0° *\omega 15° *\infty 55'30 0° *\omega 26° *\omega 38'32 18° \$\omega 44'23 18° \$\omega 17'56 15° \$\omega 58'44 9° \$\omega 14'25	1°06'45 2.54305 AU -4°42'26 -1.8m
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evening set max. Earth dist. conjunction minimum elong morning rise	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03 8876 Mar 27 19:58 8876 Apr 08 14:42 8876 May 08 19:57 8876 May 08 22:35 8876 May 17 23:45 8876 Jun 25 06:30 8876 Jul 16 02:45 8876 Aug 02 07:25 8876 Sep 09 23:28 8876 Oct 20 03:36 8876 Dec 01 18:17	23°M38'12 0°メ 6°メ'08'27 0°云 0°※ 0°升 0°Y22'12 21°Y16'06 0°႘ 22°႘55'29 23°႘00'35 0°用 0°ឆ 16°\$27'29 25°\$19'34 0°Ω 0°™ 0°Ф	-0°50'21	minimum elong max. Earth dist. morning rise desc. node retrograde opposition greatest brilliancy min. Earth dist. direct	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20 8881 Apr 09 14:41 8881 May 06 03:01 8881 Jul 27 18:38 8881 Sep 02 12:50 8881 Sep 03 17:25 8881 Sep 10 00:29 8881 Oct 12 14:09 8881 Dec 15 18:45 8882 Feb 01 13:03 8882 Mar 14 19:04 8882 Mar 19 07:39 8882 Apr 22 22:31	11° 44'52 11° 44'52 0° M 6° M02'31 19° M00'05 0° ズ 0°る 0°る 15°≈55'30 0° H 26° H38'32 18° H44'23 18° H17'56 15° H58'44 9° H14'25 0° Y 0° は 0° I 3° II 25'10	1°06'45 2.54305 AU -4°42'26 -1.8m
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evening set max. Earth dist. conjunction minimum elong morning rise	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03 8876 Mar 27 19:58 8876 Apr 08 14:42 8876 May 08 19:57 8876 May 08 22:35 8876 May 17 23:45 8876 Jun 25 06:30 8876 Jul 16 02:45 8876 Jul 27 08:43 8876 Aug 02 07:25 8876 Sep 09 23:28 8876 Oct 20 03:36 8876 Dec 01 18:17 8877 Jan 17 04:38	23°M.38'12 0° ♂ 6° ♂08'27 0° ♂ 0° ⇔ 0° ℋ 0° ♈ 10° ♈22'12 21° ♈16'06 0° ੴ 22° ੴ55'29 23° ੴ00'35 0° Ⅲ 0° 16° 27'29 25° 19'34 0° ℳ 0° ௵ 0° 弧 0° ™ 0° 弧	-0°50'21	minimum elong max. Earth dist. morning rise desc. node retrograde opposition greatest brilliancy min. Earth dist. direct	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20 8881 Apr 09 14:41 8881 May 06 03:01 8881 Jul 27 18:38 8881 Sep 02 12:50 8881 Sep 03 17:25 8881 Sep 10 00:29 8881 Oct 12 14:09 8881 Dec 15 18:45 8882 Feb 01 13:03 8882 Mar 14 19:04 8882 Mar 19 07:39 8882 May 31 19:51	11° \$\overline{2}\$44'52 11° \$\overline{2}\$44'25 0° m 6° m02'31 19° m00'05 0° \$\tilde{\tilde{7}} 0° \$\overline{8}\$ 0° \$\overline{8}\$ 15° \$\infty 55'30 0° \$\overline{8}\$ 26° \$\overline{3}\$8'32 18° \$\overline{4}\$4'23 18° \$\overline{4}\$4'23 18° \$\overline{1}\$17'56 15° \$\overline{5}\$8'44 9° \$\overline{1}\$4'25 0° \$\overline{9}\$ 0° \$\overline{1}\$ 3° \$\overline{1}\$25'10 0° \$\overline{0}\$ 0° \$\overline{0}\$	1°06'45 2.54305 AU -4°42'26 -1.8m
evening set max. Earth dist. conjunction minimum elong morning rise asc. node	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03 8876 Mar 27 19:58 8876 Apr 08 14:42 8876 May 08 19:57 8876 May 08 22:35 8876 May 17 23:45 8876 Jun 25 06:30 8876 Jul 16 02:45 8876 Jul 27 08:43 8876 Aug 02 07:25 8876 Sep 09 23:28 8876 Oct 20 03:36 8876 Dec 01 18:17 8877 Jan 17 04:38 8877 Mar 13 01:46	23°M.38'12 0°ズ 6°ズ'08'27 0°云 0°※ 0°光 0°Y 10°Y22'12 21°Y16'06 0°と 22°と55'29 23°と00'35 0°川 0°亞 16°亞27'29 25°亞19'34 0°凡 0°M 0°M 0°M	-0°50'21	minimum elong max. Earth dist. morning rise desc. node retrograde opposition greatest brilliancy min. Earth dist. direct	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20 8881 Apr 09 14:41 8881 May 06 03:01 8881 Jul 27 18:38 8881 Sep 02 12:50 8881 Sep 03 17:25 8881 Sep 10 00:29 8881 Oct 12 14:09 8881 Dec 15 18:45 8882 Feb 01 13:03 8882 Mar 14 19:04 8882 Mar 19 07:39 8882 Mar 19 07:39 8882 May 31 19:51 8882 Jul 10 14:41	11° \$\Overline{	1°06'45 2.54305 AU -4°42'26 -1.8m
evening set max. Earth dist. conjunction minimum elong morning rise asc. node retrograde opposition	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03 8876 Mar 27 19:58 8876 Apr 08 14:42 8876 May 08 19:57 8876 May 08 22:35 8876 May 17 23:45 8876 Jun 25 06:30 8876 Jul 16 02:45 8876 Jul 27 08:43 8876 Aug 02 07:25 8876 Sep 09 23:28 8876 Oct 20 03:36 8876 Dec 01 18:17 8877 Jan 17 04:38 8877 Mar 13 01:46 8877 May 12 06:25 8877 Jun 21 17:54	23°M.38'12 0°ズ 6°ズ'08'27 0°云 0°※ 0°光 0°Y 10°Y22'12 21°Y16'06 0°と 22°と55'29 23°と00'35 0°用 0°亞 16°至27'29 25°亞19'34 0°凡 0°所 0°亞 0°M. 0°ズ 0°形 0°云 16°云39'21 6°云56'13	-0°50'21 0°50'30	minimum elong max. Earth dist. morning rise desc. node retrograde opposition greatest brilliancy min. Earth dist. direct asc. node	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20 8881 Apr 09 14:41 8881 May 06 03:01 8881 Jul 27 18:38 8881 Sep 02 12:50 8881 Sep 03 17:25 8881 Sep 10 00:29 8881 Oct 12 14:09 8881 Dec 15 18:45 8882 Feb 01 13:03 8882 Mar 14 19:04 8882 Mar 19 07:39 8882 Mar 19 07:39 8882 May 31 19:51 8882 Jul 10 14:41 8882 Aug 21 00:19 8882 Sep 21 20:38	11° \$\overline{1}\text{11° \$\overline{1}\text{44'25}} 0° m. 6° m.02'31 19° m.00'05 0° \$\overline{7}\text{0° \$\overline{5}\text{0°}\text{38'32}} 18° \$\overline{5}\text{44'23} 18° \$\overline{1}\text{17'56} 15° \$\overline{5}\text{58'44}} 9° \$\overline{1}\text{4'25} 0° \$\overline{9}\text{0° \$\overline{1}\text{0°}\text{0°}\text{0°}\text{0° \$\overline{6}\text{0°}\text{0°}\text{0°}\text{0° \$\overline{6}\text{0°}\text{0°}\text{0° \$\overline{6}\text{0°}\text{0°}\text{0° \$\overline{6}\text{0°}\text{0°}\text{0° \$\overline{6}\text{0°}\text{0°}\text{0° \$\overline{6}\text{0°}\text{0°}\text{0° \$\overline{6}\text{0°}\text{0°}\text{0° \$\overline{6}\text{0°}\text{0°}\text{0° \$\overline{6}\text{0°}\text{0°}\text{0°}\text{0° \$\overline{6}\text{0°}\text{0°}\text{0° \$\overline{6}\text{0°}\text{0°}\text{0°}\text{0° \$\overline{6}\text{0°}\text{0°}\text{0°}\text{0° \$\overline{6}\text{0°}\text{0°}\text{0°}\text{0°}\text{0°}\text{0°}\text{0° \$\overline{6}\text{0°}\text	1°06'45 2.54305 AU -4°42'26 -1.8m
evening set max. Earth dist. conjunction minimum elong morning rise asc. node retrograde opposition greatest brilliancy	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03 8876 Mar 27 19:58 8876 Apr 08 14:42 8876 May 08 19:57 8876 May 08 22:35 8876 May 17 23:45 8876 Jun 25 06:30 8876 Jul 16 02:45 8876 Jul 27 08:43 8876 Aug 02 07:25 8876 Sep 09 23:28 8876 Oct 20 03:36 8876 Dec 01 18:17 8877 Jan 17 04:38 8877 Mar 13 01:46 8877 May 12 06:25 8876 Jun 21 17:54 8877 Jun 21 17:54	23°M.38'12 0°ズ 6°ズ'08'27 0°云 0°※ 0°光 0°Y 10°Y22'12 21°Y16'06 0°と 22°と55'29 23°と00'35 0°用 0°⑤ 16°⑤27'29 25°⑤19'34 0°ん 0°M 0°ふ 0°M 0°ふ 16°♂39'21 6°♂39'21 6°♂56'00	-0°50'21 0°50'30 0°28'58 -1.3m	minimum elong max. Earth dist. morning rise desc. node retrograde opposition greatest brilliancy min. Earth dist. direct asc. node	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20 8881 Apr 09 14:41 8881 May 06 03:01 8881 Jul 27 18:38 8881 Sep 02 12:50 8881 Sep 03 17:25 8881 Sep 10 00:29 8881 Oct 12 14:09 8881 Dec 15 18:45 8882 Feb 01 13:03 8882 Mar 14 19:04 8882 Mar 19 07:39 8882 Mar 19 07:39 8882 May 31 19:51 8882 Jul 10 14:41 8882 Aug 21 00:19	11° \$\Overline{	1°06'45 2.54305 AU -4°42'26 -1.8m
evening set max. Earth dist. conjunction minimum elong morning rise asc. node retrograde opposition greatest brilliancy min. Earth dist.	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03 8876 Mar 27 19:58 8876 Apr 08 14:42 8876 May 08 19:57 8876 May 08 22:35 8876 May 17 23:45 8876 Jun 25 06:30 8876 Jul 16 02:45 8876 Jul 27 08:43 8876 Aug 02 07:25 8876 Sep 09 23:28 8876 Oct 20 03:36 8876 Dec 01 18:17 8877 Jan 17 04:38 8877 Mar 13 01:46 8877 May 12 06:25 8877 Jun 21 17:54 8877 Jun 21 18:08 8877 Jun 21 20:23	23°M38'12 0°ズ 6°ズ08'27 0°云 0°※ 0°光 0°Y 10°Y22'12 21°Y16'06 0°と 22°と55'29 23°と00'35 0°用 0°⑤ 16°⑤27'29 25°⑤19'34 0°ん 0°所 0°ふ 0°所 0°ぶ 0°ぶ 16°♂56'13 6°云56'00 6°♂53'46	-0°50'21 0°50'30	minimum elong max. Earth dist. morning rise desc. node retrograde opposition greatest brilliancy min. Earth dist. direct asc. node	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20 8881 Apr 09 14:41 8881 May 06 03:01 8881 Jul 27 18:38 8881 Sep 02 12:50 8881 Sep 02 12:50 8881 Sep 10 00:29 8881 Oct 12 14:09 8881 Dec 15 18:45 8882 Feb 01 13:03 8882 Mar 14 19:04 8882 Mar 19 07:39 8882 Mar 19 07:39 8882 Apr 22 22:31 8882 May 31 19:51 8882 Jul 10 14:41 8882 Aug 21 00:19 8882 Sep 21 20:38 8882 Oct 03 08:44	11° \$\Overline{	1°06'45 2.54305 AU -4°42'26 -1.8m 0.56201 AU
evening set max. Earth dist. conjunction minimum elong morning rise asc. node retrograde opposition greatest brilliancy	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03 8876 Mar 27 19:58 8876 Apr 08 14:42 8876 May 08 19:57 8876 May 08 22:35 8876 May 17 23:45 8876 Jun 25 06:30 8876 Jul 16 02:45 8876 Jul 27 08:43 8876 Aug 02 07:25 8876 Sep 09 23:28 8876 Oct 20 03:36 8876 Dec 01 18:17 8877 Jan 17 04:38 8877 Mar 13 01:46 8877 May 12 06:25 8876 Jun 21 17:54 8877 Jun 21 17:54	23°M.38'12 0°ズ 6°ズ08'27 0°云 0°※ 0°光 0°Y 10°Y22'12 21°Y16'06 0°と 22°と55'29 23°と00'35 0°川 0°5 16°527'29 25°519'34 0°ん 0°か 0°ふ 0°が 16°539'21 6°556'03 6°556'03 6°553'46 1°541'42	-0°50'21 0°50'30 0°28'58 -1.3m	minimum elong max. Earth dist. morning rise desc. node retrograde opposition greatest brilliancy min. Earth dist. direct asc. node evening set	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20 8881 Apr 09 14:41 8881 May 06 03:01 8881 Jul 27 18:38 8881 Sep 02 12:50 8881 Sep 03 17:25 8881 Sep 10 00:29 8881 Oct 12 14:09 8881 Dec 15 18:45 8882 Feb 01 13:03 8882 Mar 14 19:04 8882 Mar 19 07:39 8882 Mar 19 07:39 8882 May 31 19:51 8882 Jul 10 14:41 8882 Aug 21 00:19 8882 Sep 21 20:38	11° \$\omega 44'52 11° \$\omega 44'25 0° m 6° m 02'31 19° m 00'05 0° \$\omega \) 0° \$\omega \) 15° \$\infty 55'30 0° \$\omega \) 26° \$\omega 38'32 18° \$\omega 44'23 18° \$\omega 44'25 0° \$\omega \) 22° \$\omega 10'16 0° m 26° \$\omega 20'30	1°06'45 2.54305 AU -4°42'26 -1.8m 0.56201 AU
evening set max. Earth dist. conjunction minimum elong morning rise asc. node retrograde opposition greatest brilliancy min. Earth dist.	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03 8876 Mar 27 19:58 8876 Apr 08 14:42 8876 May 08 19:57 8876 May 08 22:35 8876 May 17 23:45 8876 Jun 25 06:30 8876 Jul 16 02:45 8876 Jul 27 08:43 8876 Aug 02 07:25 8876 Sep 09 23:28 8876 Oct 20 03:36 8876 Dec 01 18:17 8877 Jan 17 04:38 8877 Mar 13 01:46 8877 May 12 06:25 8877 Jun 21 17:54 8877 Jun 21 18:08 8877 Jun 21 20:23	23°M38'12 0°ズ 6°ズ08'27 0°云 0°※ 0°光 0°Y 10°Y22'12 21°Y16'06 0°と 22°と55'29 23°と00'35 0°用 0°⑤ 16°⑤27'29 25°⑤19'34 0°ん 0°所 0°ふ 0°所 0°ぶ 0°ぶ 16°♂56'13 6°云56'00 6°♂53'46	-0°50'21 0°50'30 0°28'58 -1.3m	minimum elong max. Earth dist. morning rise desc. node retrograde opposition greatest brilliancy min. Earth dist. direct asc. node	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20 8881 Apr 09 14:41 8881 May 06 03:01 8881 Jul 27 18:38 8881 Sep 02 12:50 8881 Sep 02 12:50 8881 Sep 10 00:29 8881 Oct 12 14:09 8881 Dec 15 18:45 8882 Feb 01 13:03 8882 Mar 14 19:04 8882 Mar 19 07:39 8882 Mar 19 07:39 8882 Apr 22 22:31 8882 May 31 19:51 8882 Jul 10 14:41 8882 Aug 21 00:19 8882 Sep 21 20:38 8882 Oct 03 08:44	11° \$\Overline{	1°06'45 2.54305 AU -4°42'26 -1.8m 0.56201 AU
evening set max. Earth dist. conjunction minimum elong morning rise asc. node retrograde opposition greatest brilliancy min. Earth dist.	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03 8876 Mar 27 19:58 8876 Apr 08 14:42 8876 May 08 19:57 8876 May 08 22:35 8876 May 17 23:45 8876 Jun 25 06:30 8876 Jul 16 02:45 8876 Jul 27 08:43 8876 Aug 02 07:25 8876 Sep 09 23:28 8876 Oct 20 03:36 8876 Dec 01 18:17 8877 Jan 17 04:38 8877 Mar 13 01:46 8877 May 12 06:25 8877 Jun 21 17:54 8877 Jun 21 18:08 8877 Jun 21 20:23 8877 Jul 05 19:15	23°M.38'12 0°ズ 6°ズ08'27 0°云 0°※ 0°光 0°Y 10°Y22'12 21°Y16'06 0°と 22°と55'29 23°と00'35 0°川 0°5 16°527'29 25°519'34 0°ん 0°か 0°ふ 0°が 16°539'21 6°556'03 6°556'03 6°553'46 1°541'42	-0°50'21 0°50'30 0°28'58 -1.3m	minimum elong max. Earth dist. morning rise desc. node retrograde opposition greatest brilliancy min. Earth dist. direct asc. node evening set	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20 8881 Apr 09 14:41 8881 May 06 03:01 8881 Jul 27 18:38 8881 Sep 02 12:50 8881 Sep 03 17:25 8881 Sep 10 00:29 8881 Oct 12 14:09 8881 Dec 15 18:45 8882 Feb 01 13:03 8882 Mar 14 19:04 8882 Mar 19 07:39 8882 Mar 19 07:39 8882 Mar 19 07:39 8882 Mar 19 07:39 8882 May 31 19:51 8882 Mug 21 00:19 8882 Sep 21 20:38 8882 Oct 03 08:44	11° \$\omega 44'52 11° \$\omega 44'25 0° m 6° m 02'31 19° m 00'05 0° \$\omega \) 0° \$\omega \) 15° \$\infty 55'30 0° \$\omega \) 26° \$\omega 38'32 18° \$\omega 44'23 18° \$\omega 44'25 0° \$\omega \) 22° \$\omega 10'16 0° m 26° \$\omega 20'30	1°06'45 2.54305 AU -4°42'26 -1.8m 0.56201 AU
evening set max. Earth dist. conjunction minimum elong morning rise asc. node retrograde opposition greatest brilliancy min. Earth dist. desc. node	8875 Jun 27 12:38 8875 Aug 01 23:55 8875 Aug 18 18:54 8875 Oct 07 07:47 8875 Nov 28 08:09 8876 Jan 14 12:21 8876 Feb 27 08:36 8876 Mar 12 21:03 8876 Mar 27 19:58 8876 Apr 08 14:42 8876 May 08 19:57 8876 May 08 22:35 8876 May 17 23:45 8876 Jun 25 06:30 8876 Jul 16 02:45 8876 Jul 27 08:43 8876 Aug 02 07:25 8876 Sep 09 23:28 8876 Oct 20 03:36 8876 Dec 01 18:17 8877 Jan 17 04:38 8877 Mar 13 01:46 8877 May 12 06:25 8877 Jun 21 17:54 8877 Jun 21 17:54 8877 Jun 21 12:02 8877 Jul 05 19:15 8877 Jul 05 19:15	23°M.38'12 0°ズ 6°ズ'08'27 0°云 0°※ 0°升 0°Y 10°Y22'12 21°Y16'06 0°と 22°と55'29 23°と00'35 0°川 0°空 16°空27'29 25°空19'34 0°凡 0°ふ 0°所 0°ふ 16°ろ56'13 6°云56'13 6°云56'00 6°云53'46 1°云41'42 30°飛ズ	-0°50'21 0°50'30 0°28'58 -1.3m	minimum elong max. Earth dist. morning rise desc. node retrograde opposition greatest brilliancy min. Earth dist. direct asc. node evening set	8880 Sep 26 02:03 8880 Sep 26 01:48 8880 Oct 22 06:52 8880 Oct 31 03:18 8880 Nov 19 10:11 8880 Dec 06 02:39 8881 Jan 22 03:00 8881 Mar 12 16:20 8881 Apr 09 14:41 8881 May 06 03:01 8881 Jul 27 18:38 8881 Sep 02 12:50 8881 Sep 02 12:50 8881 Sep 10 00:29 8881 Oct 12 14:09 8881 Dec 15 18:45 8882 Feb 01 13:03 8882 Mar 14 19:04 8882 Mar 19 07:39	11° \$\omega 44'52 11° \$\omega 44'25 0° m. 6° m.02'31 19° m.00'05 0° \$\omega \) 0° \$\omega \) 15° \$\infty 55'30 0° \$\omega \) 26° \$\omega 38'32 18° \$\omega 44'23 10° \$\omega \) 0° \$\omega \) 22° \$\omega 10'16 0° \$\omega \) 26° \$\omega 20'30 26° \$\omega 22'38	1°06'45 2.54305 AU -4°42'26 -1.8m 0.56201 AU 0°49'50 0°50'01

morning rise	8882 Dec 28 17:01	26° ≯ 27'31		retrograde	8888 Feb 12 21:08	12° ≏ 32'18	
	8883 Jan 03 06:51	0°₹		min. Earth dist.	8888 Mar 12 19:14	6° ≏ 44'56	0.48921 AU
	8883 Feb 20 01:49	0° ≈		greatest brilliancy	8888 Mar 19 11:13	4° ≙ 19'16	-2.2m
desc. node	8883 Feb 25 10:23	3° ≈ 19'31		opposition	8888 Mar 21 01:35	3° ≏ 44'10	5°30'15
	8883 Apr 09 21:28	0° ∀			8888 Apr 01 05:07	30°R, Mp	
	8883 May 30 14:47	0 ° Υ		direct	8888 Apr 23 19:59	26° My 34'12	
	8883 Jul 26 15:02	8°			8888 May 18 05:48	0∘ ত	
retrograde	8883 Sep 24 21:28	16° 8 40'04			8888 Jul 26 08:53	0° M ₊	
opposition	8883 Oct 26 23:43	10° 8 45'14	-5°31'27		8888 Sep 17 17:01	0° ∡ ¹	
greatest brilliancy	8883 Oct 28 16:48	10° 8 13'02	-2.6m	desc. node	8888 Oct 17 05:37	17° × "29'21	
min. Earth dist.	8883 Nov 04 00:32	8° 8 15'14	0.42593 AU		8888 Nov 06 21:45	0°రె	
direct	8883 Nov 30 17:54	3° 8 39'42			8888 Dec 25 01:55	0° ≈	
asc. node	8884 Feb 04 09:03	27° 8 05'32		evening set	8889 Jan 13 18:42	12° ≈ 38'41	
	8884 Feb 09 05:15	0°П		max. Earth dist.	8889 Feb 04 05:44	26° ≈ 41'57	2.59877 AU
	8884 Mar 25 05:30	0°©		man. Barur dist.	8889 Feb 09 05:03	0° \	2.09077110
	8884 May 06 02:56	$0^{\circ}\Omega$			0007100 07 02.02	٠ , ,	
	8884 Jun 17 01:46	0° m)		conjunction	8889 Feb 28 19:26	13° ¥ 10′56	-0°59'37
	8884 Jul 30 05:22	0∘ ত مسر		minimum elong	8889 Feb 28 18:22	13° ∺ 09'07	
	8884 Sep 12 22:51	0°M		minimum ciong		13 γ (0907	0 3931
	1	0°11℃ 0° √ 7			8889 Mar 25 05:22	17° Υ 02'03	
	8884 Oct 29 02:15			morning rise	8889 Apr 18 07:16		
evening set	8884 Nov 02 20:04	3° ∡ *02'37			8889 May 06 05:23	0°8	
	8884 Dec 15 02:59	0°る			8889 Jun 15 13:12	0°П	
					8889 Jul 24 17:27	0ංම	
conjunction	8884 Dec 18 19:16	2° る 20'09			8889 Sep 01 12:02	0 $^{\circ}$ Ω	
minimum elong	8884 Dec 18 19:40	2° る 20'47	0°13'02	asc. node	8889 Sep 26 05:01	18° Ω 56'16	
behind sun begin	8884 Dec 18 08:49	2° る 03'35			8889 Oct 10 21:02	0° m y	
behind sun end	8884 Dec 19 06:31	2° る 37'59			8889 Nov 21 06:55	0∘ ত	
max. Earth dist.	8884 Dec 20 04:06	3° る 12'14	2.68018 AU		8890 Jan 06 17:23	0° M	
desc. node	8885 Jan 12 07:20	17° る 53'02		retrograde	8890 Mar 25 21:21	28°M24'10	
morning rise	8885 Jan 31 14:21	0° ≈ 08′25		min. Earth dist.	8890 Apr 29 15:40	20°M30'51	0.61078 AU
	8885 Jan 31 09:03	0° ≈		opposition	8890 May 04 19:52	18°ML28'15	3°57'28
	8885 Mar 19 07:54	0° ∀		greatest brilliancy	8890 May 04 03:12	18° M 44'42	-1.6m
	8885 May 04 17:56	$0^{\circ}\mathbf{Y}$		direct	8890 Jun 11 19:33	9° M .42'17	
	8885 Jun 19 16:25	0°8			8890 Aug 20 13:38	0° ∡ ¹	
	8885 Aug 04 14:02	0°Щ		desc. node	8890 Sep 04 07:50	7° ∡ 10'16	
	8885 Sep 21 03:18	0°©		acce. noue	8890 Oct 16 15:32	0°ප	
	8885 Nov 22 23:31	$0^{\circ}\Omega$			8890 Dec 05 23:28	0° ≈	
retrograde	8885 Dec 13 22:39	2° Ω 54'21			8891 Jan 21 16:14	0° ₩	
	8885 Dec 22 10:42	2° Ω 25'02		ovening get	8891 Feb 23 07:56	22° ∺ 11'24	
asc. node				evening set		22 γ (1124 0° γ	
i. Ed- di-4	8886 Jan 04 08:16	30°Rூ 30°€3114€	0.27150 AII	Eth dit	8891 Mar 06 11:36 8891 Mar 09 08:29		2.48325 AU
min. Earth dist.	8886 Jan 09 22:29		0.37159 AU	max. Earth dist.	8891 Mar 09 08:29	2 10145	2.48323 AU
opposition	8886 Jan 13 20:09	27° © 27'12			0001 1 16 15 21	2000010110	1000151
greatest brilliancy	8886 Jan 13 12:35	27° © 32'25	-3.0m	conjunction	8891 Apr 16 15:34	29° Y 49'40	
direct	8886 Feb 12 02:37	22° © 29'52		minimum elong	8891 Apr 16 16:47	29° Y 51'57	1°03'58
	8886 Mar 19 21:33	0 \circ Ω			8891 Apr 16 21:08	0° 8	
	8886 May 17 15:22	0°Щ			8891 May 26 10:56	Π °0	
	8886 Jul 05 19:59	0∘ ত		morning rise	8891 Jun 16 17:38	16° Ⅱ 31'57	
	8886 Aug 22 20:40	0° M			8891 Jul 03 21:52	0ංම	
	8886 Oct 09 22:07	0°⊀			8891 Aug 11 01:27	0 $^{\circ}$ Ω	
	8886 Nov 26 21:51	0° ප		asc. node	8891 Aug 14 02:28	2° Ω 22'56	
desc. node	8886 Nov 30 05:29	2°る05'05		greatest brilliancy	8891 Aug 17 20:15	5° Ω 18′23	1.2m
evening set	8886 Dec 09 15:29	8°ろ00'38			8891 Sep 18 19:02	0° m y	
max. Earth dist.	8887 Jan 11 16:25	28° る 58'29	2.66637 AU		8891 Oct 29 01:30	0∘ ত	
	8887 Jan 13 06:53	0° ≈			8891 Dec 11 00:42	0° M	
					8892 Jan 27 20:57	0° ∡ ¹	
conjunction	8887 Jan 23 02:45	6°≈18'24	-0°27'38		8892 Apr 02 07:30	0° ප	
minimum elong	8887 Jan 23 01:59	6°≈17'09	0°27'26	retrograde	8892 Apr 29 01:20	4° ප 02'41	
	8887 Feb 28 12:18	0° ∀		-	8892 May 23 22:25	30°R <i>⊀</i>	
morning rise	8887 Mar 08 04:45	5°) €04'42		min. Earth dist.	8892 Jun 07 06:52	24° ∡ ¹42'44	0.67443 AU
<i>5</i>	8887 Apr 14 06:35	0°Υ		opposition	8892 Jun 08 15:50	24° × ⁷ 09'58	1°29'29
	8887 May 27 11:49	0°8		greatest brilliancy	8892 Jun 08 14:23	24° × 11'24	-1.3m
	8887 Jul 08 07:26	0°II		direct	8892 Jul 19 04:48	14° 🗷 32'21	
	8887 Aug 18 02:30	0°©		desc. node	8892 Jul 22 09:26	14° x 3221	
	8887 Sep 27 17:32	0°Ω		desc. Houe	8892 Sep 16 11:07	0°る	
ase node	8887 Nov 09 08:59	0° Mp 13'45			8892 Nov 13 09:57	0°≈	
asc. node						0° ₩	
	8887 Nov 09 00:51	0° ™			8893 Jan 01 01:30	0° Λ 0° Υ	
	8887 Dec 29 08:06	0∘ ত			8893 Feb 14 06:59	U	

	000234 27 12 21	00			0007.0 / 26 00 11	100 W 44121	1000111
. ,	8893 Mar 27 12:31	0°8		conjunction	8897 Oct 26 08:11	10°M44'31	1°00'11
evening set	8893 Apr 16 07:16	14° ႘ 58'58 0° Ⅱ		minimum elong max. Earth dist.	8897 Oct 26 09:23	10°M46'31 25°M55'03	1°00'20 2.60748 AU
	8893 May 05 17:44 8893 Jun 12 20:35	0°20		max. Earm dist.	8897 Nov 18 05:01 8897 Nov 24 10:33	23 II L 33 03 0° ∡ 7	2.00748 AU
	8893 Juli 12 20.33	0 3		morning rise	8897 Dec 14 07:31	12° ∡ 753'06	
conjunction	8893 Jun 21 15:54	6° © 58'39	-0°06'48	morning risc	8898 Jan 10 03:54	12 × 33 00	
minimum elong	8893 Jun 21 16:40	7° © 00'11	0°07'01		8898 Feb 27 09:56	0° ≈	
behind sun begin	8893 Jun 20 13:02	6°905'26	0 0, 01	desc. node	8898 Mar 14 01:25	8° ≈ 54'06	
behind sun end	8893 Jun 22 20:19	7° 9 54'55			8898 Apr 18 14:50	0°) €	
max. Earth dist.	8893 Jun 25 11:48	10°9500'41	2.36557 AU		8898 Jun 12 11:07	0°Υ	
asc. node	8893 Jun 30 23:55	14°522'14		retrograde	8898 Aug 29 19:35	24° Y ′51'36	
	8893 Jul 20 19:00	$0^{\circ}\Omega$		opposition	8898 Oct 02 23:23	18° Ƴ 03'36	-5°42'21
	8893 Aug 28 10:12	0° m		greatest brilliancy	8898 Oct 04 18:16	17° Y 26'55	-2.2m
morning rise	8893 Sep 02 17:19	4° Mp 02'10		min. Earth dist.	8898 Oct 11 16:57	15° Y 05′13	0.48079 AU
	8893 Oct 07 13:24	0∘ ⊽		direct	8898 Nov 09 11:13	9° Ƴ 42'32	
	8893 Nov 18 21:34	0° M			8899 Jan 09 11:13	$0^{\circ}B$	
	8894 Jan 03 04:51	0° ∡ 7		asc. node	8899 Feb 21 02:12	27° 8 15'09	
	8894 Feb 22 01:52	5°0			8899 Feb 25 00:21	Π °0	
	8894 Apr 27 00:16	0° ≈			8899 Apr 07 03:52	0ಂತ	
retrograde	8894 Jun 02 10:47	6° ≈ 46'34			8899 May 17 06:39	$0^{\circ}\Omega$	
desc. node	8894 Jun 09 08:27	6° ≈ 28'34			8899 Jun 27 00:57	0° ™	
	8894 Jul 05 16:34	30°Ŗる			8899 Aug 08 06:56	0∘ ⊽	
opposition	8894 Jul 12 09:25	27° る 24'59	-1°08'18		8899 Sep 21 07:57	0°M₊	
greatest brilliancy	8894 Jul 12 11:15	27° る 23'10	-1.3m	evening set	8899 Oct 19 05:39	18°M26'08	
min. Earth dist.	8894 Jul 14 19:28		0.67282 AU		8899 Nov 06 00:20	0° ∡ ¹	
direct	8894 Aug 23 00:17	17° る 23'25					
	8894 Oct 13 11:14	0° ≈		conjunction	8899 Dec 05 16:37	19° ∡ ¹04'26	0°28'10
	8894 Dec 09 11:47	0° ∀		minimum elong	8899 Dec 05 17:28	19° ∡ ¹05'48	0°28'23
	8895 Jan 24 15:46	0° Υ		max. Earth dist.	8899 Dec 12 09:54	23° ∡ ¹21'46	2.67038 AU
	8895 Mar 07 09:04	0°8			8899 Dec 22 20:12	0°る	
_	8895 Apr 15 15:22	0°II		morning rise	8900 Jan 19 05:33	17°る22'03	
asc. node	8895 May 18 22:27	26° Ⅱ 12'09		desc. node	8900 Jan 29 21:17	24°る06'28	
	8895 May 23 17:32	0°95	1.0		8900 Feb 08 04:59	0° ≈	
greatest brilliancy	8895 Jun 09 02:21 8895 Jun 28 03:14	12°957'38 27°958'08	1.2m		8900 Mar 27 16:40	0° ∀ 0° Υ	
evening set	8895 Jun 28 03:14 8895 Jun 30 17:22	2/°93808 0°Ω			8900 May 14 06:08 8900 Jul 01 09:08	0.8 0.1	
	8895 Aug 08 13:12	0°Mp			8900 Aug 20 23:21	0°II	
	0075 Aug 00 15.12	עוויי			8900 Nov 02 17:11	0° ©	
conjunction	8895 Sep 04 00:32	19° m 49'04	1°00'33	retrograde	8900 Nov 13 03:27	0° 9 641'29	
minimum elong	8895 Sep 03 22:27	19° m) 45'13		Tellogiade	8900 Nov 23 10:49	30°RⅡ	
mmmum viong	8895 Sep 17 22:42	0∘ ⊽	1 00 2	opposition	8900 Dec 12 21:04	25° Ⅱ 46'38	-2°04'58
max. Earth dist.	8895 Oct 17 21:00	21° ≏ 18'28	2.49272 AU	greatest brilliancy	8900 Dec 13 03:52	25° I I42'06	
	8895 Oct 30 09:50	0°M		min. Earth dist.	8900 Dec 14 22:09	25° I I13'57	0.36881 AU
morning rise	8895 Nov 02 09:06	2°M02'22		asc. node	8901 Jan 09 02:17	20° Ⅱ 44'23	
C	8895 Dec 14 04:53	0°⊀		direct	8901 Jan 11 22:53	20° Ⅱ 41′05	
	8896 Jan 30 13:43	8°0			8901 Feb 20 06:24	0ංම	
	8896 Mar 21 12:52	0°≈			8901 Apr 15 19:02	$0^{\circ}\Omega$	
desc. node	8896 Apr 26 05:35	18° ≈ 46′18			8901 Jun 01 04:13	0° m)	
	8896 May 21 09:57	0° ∀			8901 Jul 16 19:33	0∘ ⊽	
retrograde	8896 Jul 10 01:48	11° ¥ 29'46			8901 Sep 01 02:31	0° M	
opposition	8896 Aug 17 01:19	3°) €03'44	-3°46'12		8901 Oct 18 05:12	0° ∡ ¹	
greatest brilliancy	8896 Aug 17 19:39	2°) 46′19	-1.6m	evening set	8901 Nov 26 15:39	24° ₹ ′54′03	
min. Earth dist.	8896 Aug 23 05:02	0°) 43′38	0.60559 AU		8901 Dec 04 17:31	0°ಕ	
	8896 Aug 25 04:03	30°R ≈		desc. node	8901 Dec 17 19:10	8° る 15'49	
direct	8896 Sep 27 00:51	23°≈12'19		max. Earth dist.	8902 Jan 03 23:49	19° る 09'56	2.67830 AU
	8896 Oct 31 20:09	0°) €					
	8896 Dec 29 11:20	0° Υ		conjunction	8902 Jan 10 08:46	23°る13'14	
	8897 Feb 11 19:22	0° Β		minimum elong	8902 Jan 10 08:24	23° ろ 12'39	0~12'07
1	8897 Mar 24 00:19	0°Π 0°Π15112		behind sun begin	8902 Jan 09 20:14	22°る53'17	
asc. node	8897 Apr 05 00:20	9° Ⅱ 15'13		behind sun end	8902 Jan 10 20:34	23° る 32'01	
	8897 May 01 14:53	0。 Ư 0。ௐ		morning rise	8902 Jan 20 23:46	0° ≈ 21° ≈ 13'54	
	8897 Jun 09 02:02 8897 Jul 18 10:59	0°a≀ 0°mp		morning rise	8902 Feb 22 23:11 8902 Mar 08 10:16	21°≈13′54 0° ∺	
	8897 Aug 28 10:58	0ം ഗ വൂ			8902 Mar 08 10:16 8902 Apr 22 16:50	0° Υ	
evening set	8897 Sep 01 16:50	ალ01'38			8902 Apr 22 16.30 8902 Jun 05 17:08	0°8	
Croning set	8897 Oct 10 10:50	0°M			8902 Jul 18 13:49	0°II	
	5077 561 10 10.50	O IIO			8902 Aug 29 16:52	0°©	
					0,0211ug 2, 10.32	Ÿ -	

	0002 0-4 11 07.52	000			9009 E-L 22 14.57	0° Y	
1-	8902 Oct 11 07:52	0° Ω			8908 Feb 23 14:57		
asc. node	8902 Nov 27 01:48	29° Ω 42'17		evening set	8908 Mar 25 09:20	22° Y 12'36	
	8902 Nov 27 14:29	0° m			8908 Apr 04 21:11	0° 8	
retrograde	8903 Jan 24 11:13	19° m 11'33		max. Earth dist.	8908 Apr 13 05:56		2.40072 AU
min. Earth dist.	8903 Feb 20 04:53	14° Mp 17'33			8908 May 14 04:57	Π $^{\circ}0$	
greatest brilliancy	8903 Feb 26 22:38	12°M)02'32	-2.5m				
opposition	8903 Feb 28 12:21	11° m 30'44	5°09'30	conjunction	8908 May 24 13:33	8° Ⅱ 04'24	
direct	8903 Apr 01 07:49	5° m 14'56		minimum elong	8908 May 24 16:24	8° Ⅱ 09'59	0°37'41
	8903 Jun 15 12:21	0∘ ত			8908 Jun 21 10:07	0 \circ \odot	
	8903 Aug 08 13:15	0°M		asc. node	8908 Jul 18 16:57	21° 5 34'32	
	8903 Sep 28 00:59	0° ∡ ¹			8908 Jul 29 09:31	$0^{\circ}\Omega$	
desc. node	8903 Nov 04 19:10	23° ₹ ¹00'06		morning rise	8908 Aug 04 02:34	4° Ω 29'05	
	8903 Nov 16 03:30	0°ರ		Ü	8908 Sep 06 00:18	0° m	
evening set	8904 Jan 01 12:18	29° ට 06'21			8908 Oct 16 02:51	0∘ <u>⊽</u>	
e vennig set	8904 Jan 02 21:56	0°≈			8908 Nov 27 13:05	o° m .	
max. Earth dist.	8904 Jan 27 03:36		2.63136 AU		8909 Jan 12 09:29	0° ⊼ ¹	
max. Lattii dist.	0704 Jan 27 03.30	13 ~37 13	2.03130 AC		8909 Mar 05 15:43	°ੇਂ ਰ°ੇਂ	
	9004 E-L 15 12.22	2002011 5	0940100			0 3 24° る 17'28	
conjunction	8904 Feb 15 12:32	28°≈20'15		retrograde	8909 May 20 21:08		
minimum elong	8904 Feb 15 11:23	28°≈18'21	0°49'00	desc. node	8909 Jun 26 22:05	15°₹59'30	
	8904 Feb 18 00:43	0°) (opposition	8909 Jun 30 05:42	14° ප් 41'10	
morning rise	8904 Apr 01 15:04	29°) 32′55		greatest brilliancy	8909 Jun 30 05:49	14° る 41'03	-1.3m
	8904 Apr 02 06:43	0 ° $\mathbf{\gamma}$		min. Earth dist.	8909 Jul 01 04:10	14° る 18'58	0.68139 AU
	8904 May 14 16:22	$_{0\circ}$ 8		direct	8909 Aug 10 14:51	4° る 45'54	
	8904 Jun 24 11:32	Π $^{\circ}0$			8909 Oct 28 13:26	0° ≈	
	8904 Aug 03 03:17	0 \circ \odot			8909 Dec 19 13:53	0° ∀	
	8904 Sep 11 09:05	$0^{\circ}\Omega$			8910 Feb 02 17:14	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	8904 Oct 13 23:37	24° Ω 34'03			8910 Mar 16 04:01	0°8	
	8904 Oct 21 08:21	0° m			8910 Apr 24 08:52	$\Pi^{\circ}0$	
	8904 Dec 03 00:48	0 o $\overline{\mathbf{v}}$		evening set	8910 May 29 23:39	28° Ⅱ 03′29	
	8905 Jan 23 19:17	0°M		3	8910 Jun 01 10:27	0°95	
retrograde	8905 Mar 11 19:41	12°MJ33'39		asc. node	8910 Jun 05 16:15	3° 5 21'49	
min. Earth dist.	8905 Apr 13 10:00	5°M25'04	0.56889 AU	use. Hode	8910 Jul 09 08:42	0°Ω	
greatest brilliancy	8905 Apr 18 22:44	3°M16'19	-1.8m		6910 Jul 09 06.42	0 00	
	•				0010 4 00 01.12	229 0 5211 4	0942121
opposition	8905 Apr 20 00:32	2°M51'14	4°46'14	conjunction	8910 Aug 09 01:13	23° £ 52'14	
42	8905 Apr 27 15:58	30° ₹ Ω		minimum elong	8910 Aug 08 21:52	23° Ω 45'48	0°42'19
direct	8905 May 26 13:59	24° £ 36'04			8910 Aug 17 01:25	0° т р	
	8905 Jun 27 10:28	0° M ₅			8910 Sep 26 06:56	0∘ ত	
	8905 Sep 02 18:41	0°⊀		max. Earth dist.	8910 Sep 30 02:06	2° ≏ 45'36	2.43689 AU
desc. node	8905 Sep 21 20:24	10° ₹ 23'02		morning rise	8910 Oct 13 15:40	12° ≏ 30'25	
	8905 Oct 26 00:44	0°ಕ			8910 Nov 07 14:48	0°M₊	
	8905 Dec 14 06:45	0° ≈			8910 Dec 22 11:10	0° ∡ ¹	
	8906 Jan 29 16:20	0° ∀			8911 Feb 08 09:59	8°0	
evening set	8906 Feb 07 14:34	5° ¥ 58'25			8911 Apr 02 17:32	0° ≈	
max. Earth dist.	8906 Feb 23 15:49	16°) 53′13	2.53316 AU	desc. node	8911 May 14 19:35	18° ≈ 53'53	
	8906 Mar 14 12:36	$0^{\circ}\mathbf{\Upsilon}$		retrograde	8911 Jun 26 04:25	27° ≈ 38'29	
				opposition	8911 Aug 04 02:43	18° ≈ 47'12	-2°46'02
conjunction	8906 Mar 28 16:24	10° Ƴ 02'46	-1°07'29	greatest brilliancy	8911 Aug 04 12:41	18° ≈ 37'35	
minimum elong	8906 Mar 28 16:19	10° Y 02'37		min. Earth dist.	8911 Aug 08 20:05	16° ≈ 57'48	0.63951 AU
8	8906 Apr 25 02:52	0°8	- 0,	direct	8911 Sep 14 14:20	8° ≈ 46'10	***************************************
morning rise	8906 May 22 12:55	20° 8 32'17		ancet	8911 Nov 21 18:11	0° ∀	
morning risc	8906 Jun 03 22:36	0° Ⅱ			8912 Jan 10 23:49	0° Υ	
		0°©				0°8	
	8906 Jul 12 15:08				8912 Feb 22 20:09		
	8906 Aug 19 23:03	0° N			8912 Apr 02 12:25	0° I	
asc. node	8906 Aug 31 19:00	9° £ 12′32		asc. node	8912 Apr 22 15:48	15° Ⅱ 42'13	
	8906 Sep 27 20:12	0° m p			8912 May 10 20:07	0ංම	
	8906 Nov 07 08:19	0ಂ ರಾ			8912 Jun 18 01:14	$0^{\circ}\Omega$	
	8906 Dec 20 23:50	0°M₊			8912 Jul 27 03:27	0°Щ	
	8907 Feb 09 15:39	0° ∡ ¹		evening set	8912 Aug 10 09:18	10° ™ 39'21	
retrograde	8907 Apr 17 18:07	21° ₮ 01'21			8912 Sep 05 20:11	0∘ ত	
min. Earth dist.	8907 May 25 09:47	12° ⊀ 11′24	0.65724 AU				
opposition	8907 May 28 06:32	11° ∡ 03′00	2°28'47	conjunction	8912 Oct 08 17:18	23° ≏ 13′26	1°06'10
greatest brilliancy	8907 May 28 00:55	11° ∡ °08'36	-1.4m	minimum elong	8912 Oct 08 17:47	23° £ 14'16	1°06'15
direct	8907 Jul 06 23:41	1° ∡ 741'48		Ž.	8912 Oct 18 13:16	0°M	
desc. node	8907 Aug 09 22:13	7° ∡ ³33'27		max. Earth dist.	8912 Nov 08 02:26	13°M55'28	2.56801 AU
**	8907 Oct 01 09:03	0°る		morning rise	8912 Nov 29 20:27	28°M20'39	
	8907 Nov 23 23:23	0° ≈			8912 Dec 02 09:07	0°×7	
	8907 Nov 23 23:23 8908 Jan 10 15:07	0° ∺			8913 Jan 18 05:05	% ਨ ਨ	
	5700 Juli 10 13.0/	υ Λ			5715 Juli 10 05.05	υ Ο	

	8913 Mar 08 03:47	0° ≈		greatest brilliancy	8918 Jan 31 10:10	15° Ω 10'05	-2 9m
desc. node	8913 Mar 31 15:46	0 ≈ 13° ≈ 48'24		opposition	8918 Feb 01 07:36	13 % 10 03	
dese. Hode	8913 Apr 29 13:19	0°) €		direct	8918 Mar 03 06:08	9° Ω 34'56	3 21 4)
	8913 Jul 04 03:22	0° Υ		direct	8918 May 07 05:30	0° m	
retrograde	8913 Aug 08 19:26	6° Y 29'06			8918 Jun 29 14:22	0∘ ⊽	
ronogrado	8913 Sep 10 18:33	30° R)(8918 Aug 18 02:02	0°M	
opposition	8913 Sep 13 18:21	28°) 55'55	-5°10'06		8918 Oct 05 20:08	0° ⊼ 7	
greatest brilliancy	8913 Sep 15 05:01	28°) (24'33		desc. node	8918 Nov 21 08:07	28° ₹ 51'27	
min. Earth dist.	8913 Sep 21 21:11	26°) €00'11	0.53474 AU		8918 Nov 23 04:01	0°ප	
direct	8913 Oct 23 02:47	19°)(44'18		evening set	8918 Dec 18 13:20	15° る 56'51	
	8913 Dec 04 07:20	$_0$ ° $\boldsymbol{\gamma}$		C	8919 Jan 09 16:05	0° ≈	
	8914 Jan 26 03:57	0°8		max. Earth dist.	8919 Jan 17 21:32	5°≈16'24	2.65628 AU
	8914 Mar 09 12:35	$\Pi^{\circ}0$					
asc. node	8914 Mar 10 17:00	0° Ⅱ 52'43		conjunction	8919 Feb 01 01:48	14° ≈ 25'43	-0°36'04
	8914 Apr 18 03:50	0°ಅ		minimum elong	8919 Feb 01 00:50	14°≈24'09	0°35'53
	8914 May 27 08:41	$0^{\circ}\Omega$		_	8919 Feb 24 20:42	0°) €	
	8914 Jul 06 09:33	O° m p		morning rise	8919 Mar 17 16:24	13° ¥ 52′17	
	8914 Aug 17 00:41	0∘ ⊽			8919 Apr 10 10:32	$0^{\circ}\Upsilon$	
	8914 Sep 29 13:29	0°M			8919 May 23 08:27	9° 8	
evening set	8914 Oct 03 06:54	2°M30'28			8919 Jul 03 18:11	Π $^{\circ}0$	
	8914 Nov 13 21:33	0° ∡ ¹			8919 Aug 13 01:33	0 \circ \odot	
					8919 Sep 22 00:48	$0^{\circ}\Omega$	
conjunction	8914 Nov 21 20:58	5° ∡ 10'39	0°42'25	asc. node	8919 Oct 31 16:22	28° Ω 59'05	
minimum elong	8914 Nov 21 22:10	5° ∡ 12'36	0°42'38		8919 Nov 02 02:49	0° m	
max. Earth dist.	8914 Dec 04 11:40	13° ∡ 18'48	2.65226 AU		8919 Dec 17 19:23	0。 亚	
	8914 Dec 30 14:29	0°ප		retrograde	8920 Feb 24 06:08	24° ≏ 35′26	
morning rise	8915 Jan 06 16:03	4° る 28'57		min. Earth dist.	8920 Mar 25 12:02	18° ≏ 17'57	0.51937 AU
desc. node	8915 Feb 16 12:20	0° ≈ 12'15		greatest brilliancy	8920 Mar 31 21:08	15° ≏ 54'25	-2.0m
	8915 Feb 16 04:31	0° ≈		opposition	8920 Apr 02 07:56	15° ≏ 21'40	5°21'39
	8915 Apr 05 10:13	0°) €		direct	8920 May 07 04:32	7° £ 45'32	
	8915 May 24 16:47	$0^{\circ}\mathbf{\Upsilon}$			8920 Jul 18 13:25	0° M	
	8915 Jul 15 22:28	0°8			8920 Sep 12 17:12	0°⊀	
	8915 Sep 27 02:19	$\Pi^{\circ}0$		desc. node	8920 Oct 08 08:59	14° ≯ 50'43	
retrograde	8915 Oct 12 11:32	1° Ⅱ 25'42			8920 Nov 02 19:22	0°る	
	8915 Oct 27 15:54	30° ₹ 8			8920 Dec 21 07:56	0° ≈	
opposition	8915 Nov 12 13:25	25° 8 59'40		evening set	8921 Jan 23 04:15	21°≈09′28	
greatest brilliancy	8915 Nov 13 21:22	25° 8 36'13			8921 Feb 05 13:38	0° ∀	
min. Earth dist.	8915 Nov 19 06:25	24° 8 02'27	0.39968 AU	max. Earth dist.	8921 Feb 11 12:53	3° ¥ 59′07	2.57756 AU
direct	8915 Dec 15 11:08	19° 8 42'40				>(
	8916 Jan 25 07:55	0°II		conjunction	8921 Mar 11 00:59	22°) (42'00	
asc. node	8916 Jan 26 19:07	0° Ⅱ 40′12		minimum elong	8921 Mar 11 00:08	22°) (40'33	1°03'5'/
	8916 Mar 17 04:36	0° ©			8921 Mar 21 12:54	0°Υ	
	8916 Apr 30 00:12	0° N		morning rise	8921 Apr 30 08:40	28° Y 29'48	
	8916 Jun 11 22:53 8916 Jul 25 17:54	0 ்⊽ 0° மி			8921 May 02 09:57	0°B	
		0°M			8921 Jun 11 13:36 8921 Jul 20 13:32	0. о п	
	8916 Sep 08 21:36	0° 111℃				0°€	
ovening set	8916 Oct 25 07:43 8916 Nov 12 07:24			asa nada	8921 Aug 28 03:33 8921 Sep 17 14:18	0 3 <i>t</i> 15° Ω 47'02	
evening set	8916 Nov 12 07:24 8916 Dec 11 11:40	11° メ 28'26 0° る		asc. node	8921 Sep 17 14:18 8921 Oct 06 06:31	0° Mp	
max. Earth dist.	8916 Dec 26 05:12	9° る 20'29	2.68184 AU		8921 Nov 16 04:53	0∘ ত بالا	
max. Lattii dist.	6710 DCC 20 03.12) 0202)	2.00104 AC		8921 Dec 31 03:25	0° m .	
conjunction	8916 Dec 27 16:33	10° ප 16'33	0°03'33		8921 Dec 31 03:23 8922 Feb 27 08:51	0° ⊼ 1	
minimum elong	8916 Dec 27 16:41	10° ठ 16'35	0°03'48	retrograde	8922 Apr 04 01:32	7° ∡ 16'34	
behind sun begin	8916 Dec 26 22:36	9° ප් 48'05	0 03 10	retrograde	8922 May 07 10:10	30°RM	
behind sun end	8916 Dec 28 10:46	10° る 45'25		min. Earth dist.	8922 May 09 22:12	29°M01'21	0.62999 AU
desc. node	8917 Jan 03 09:12	10 ප 4323		opposition	8922 May 14 06:43	27°M17'43	3°26'01
dese. Hode	8917 Jan 27 17:17	0°≈		greatest brilliancy	8922 May 13 18:37	27°M29'43	-1.5m
morning rise	8917 Feb 09 06:58	8°≈01'28		direct	8922 Jun 21 22:45	18°M17'30	
	8917 Mar 15 11:05	0° ∀			8922 Aug 11 03:04	0° √	
	8917 Apr 30 09:44	0° Υ		desc. node	8922 Aug 26 10:44	6° ∡ ³32'06	
	8917 Jun 14 12:26	0°8			8922 Oct 11 13:21	0°る	
	8917 Jul 29 00:09	0°II			8922 Dec 01 20:33	0° ≈	
	8917 Sep 11 16:26	0°60			8923 Jan 17 21:11	0°) €	
	8917 Oct 29 22:18	0°N			8923 Mar 02 18:24	0° Υ	
asc. node	8917 Dec 13 18:09	19° Ω 02'52		evening set	8923 Mar 06 14:01	2° Υ 41'59	
retrograde	8917 Dec 31 01:32	21° Ω 05'55		max. Earth dist.	8923 Mar 20 10:13		2.45378 AU
min. Earth dist.	8918 Jan 25 23:26	16° Ω 45'59	0.38829 AU		8923 Apr 13 03:13	0°8	
					•		

conjunction	8923 Apr 30 06:42	12° 8 52'52	-0°57'32		8928 Jan 26 11:44	0°ჳ	
minimum elong	8923 Apr 30 08:48	12° 8 56'50			8928 Mar 16 12:06	0° ≈	
	8923 May 22 15:05	0°II		desc. node	8928 Apr 17 07:28	17° ≈ 38'54	
	8923 Jun 30 00:06	0°9			8928 May 11 20:29	0°) €	
morning rise	8923 Jul 04 09:27	3°527'33		retrograde	8928 Jul 20 20:54	20°) €25'45	
asc. node	8923 Aug 05 10:33	28°9542'30		opposition	8928 Aug 27 05:28	12° ¥ 16'36	-4°19'23
	8923 Aug 07 02:02	$0^{\circ}\Omega$		greatest brilliancy	8928 Aug 28 05:30	11° ¥ 54'06	-1.7m
	8923 Sep 14 17:55	0° m)		min. Earth dist.	8928 Sep 03 03:48	9°) 41′05	0.58250 AU
	8923 Oct 24 21:41	0∘ ⊽		direct	8928 Oct 06 18:37	2°) 35′20	
	8923 Dec 06 13:29	0°M₊			8928 Dec 22 11:55	0° Υ	
	8924 Jan 22 09:04	0° ∡ ¹			8929 Feb 06 13:05	0°B	
	8924 Mar 19 17:53	8°0			8929 Mar 19 07:30	$\Pi^{\circ}0$	
retrograde	8924 May 07 14:53	11° る 47'55		asc. node	8929 Mar 27 08:59	6° Ⅱ 09'04	
opposition	8924 Jun 17 04:34	2° る 00'10	0°54'06		8929 Apr 27 04:57	0 \circ \mathfrak{S}	
greatest brilliancy	8924 Jun 17 04:24	2° る 00'21	-1.3m		8929 Jun 04 21:05	$0^{\circ}\Omega$	
min. Earth dist.	8924 Jun 16 15:29	2° る 13'09	0.67964 AU		8929 Jul 14 10:17	0° ™	
	8924 Jun 22 06:47	30°R ✓			8929 Aug 24 14:15	0० ত	
desc. node	8924 Jul 13 11:28	23° ∡ ³35'34		evening set	8929 Sep 14 10:44	14° ≏ 40'54	
direct	8924 Jul 28 02:10	22° ҂ 15′07			8929 Oct 06 17:19	0° M	
	8924 Sep 05 17:08	0° ප					
	8924 Nov 08 05:15	0° ≈		conjunction	8929 Nov 05 23:46	20° ™ 16'59	0°54'35
	8924 Dec 27 20:29	0° ∀		minimum elong	8929 Nov 06 01:04	20°M19'09	0°54'46
	8925 Feb 10 09:16	0° Y			8929 Nov 20 18:44	0° ∡	
	8925 Mar 23 16:52	0° 8		max. Earth dist.	8929 Nov 25 01:21	2° ∡ ¹47'17	2.62568 AU
evening set	8925 May 01 17:27	29° 8 51'15		morning rise	8929 Dec 23 15:02	21° ∡ 12'26	
	8925 May 01 21:56	$\Pi^{\circ}0$			8930 Jan 06 10:42	5°0	
	8925 Jun 09 00:09	0 \circ \odot			8930 Feb 23 09:27	0° ≈	
asc. node	8925 Jun 22 07:54	10° 5 33'49		desc. node	8930 Mar 05 03:17	6° ≈ 00'16	
					8930 Apr 13 17:20	0° ∀	
conjunction	8925 Jul 09 23:22	24° 5 31'31	0°12'44		8930 Jun 04 19:58	0° Y	
minimum elong	8925 Jul 09 21:58	24° © 28'45	0°12'29		8930 Aug 07 18:44	0°B	
behind sun begin	8925 Jul 09 02:14	23° 5 49'49		retrograde	8930 Sep 13 23:11	7° と 08'59	
behind sun end	8925 Jul 10 17:42	25° © 07'40		opposition	8930 Oct 16 23:23	0° 8 49'51	
	8925 Jul 16 22:06	$0^{\circ}\Omega$		greatest brilliancy	8930 Oct 18 19:08	0° 8 13'59	-2.4m
	8925 Aug 24 13:07	0° m)			8930 Oct 19 12:08	30° ₹Ƴ	
max. Earth dist.	8925 Aug 27 01:49	1° m 55'50	2.38320 AU	min. Earth dist.	8930 Oct 25 12:43	28° Ƴ 02'39	0.44981 AU
morning rise	8925 Sep 19 07:33	19° m 25'31		direct	8930 Nov 22 00:55	23° Y °07'36	
	8925 Oct 03 16:13	0ಂ ⊽			8930 Dec 24 20:05	0° 8	
	8925 Nov 14 22:55	0°M₊		asc. node	8931 Feb 12 10:04	26° 8 48'50	
	8925 Dec 29 23:54	0° ∡ 7			8931 Feb 17 06:50	Π $\circ 0$	
	8926 Feb 16 22:00	0°ಕ			8931 Apr 01 02:51	0ಂ ತಾ	
	8926 Apr 15 19:25	0° ≈			8931 May 12 01:41	$0^{\circ}\Omega$	
desc. node	8926 May 31 10:26	13° ≈ 50′18			8931 Jun 22 09:19	0° ™	
retrograde	8926 Jun 11 11:26	14° ≈ 33'05			8931 Aug 04 01:25	0∘ ⊽	
opposition	8926 Jul 21 03:03	5° ≈ 21'15			8931 Sep 17 10:01	0° M	
greatest brilliancy	8926 Jul 21 07:05	5° ≈ 17'19		evening set	8931 Oct 29 06:31	27°M23'30	
min. Earth dist.	8926 Jul 24 08:58		0.66375 AU		8931 Nov 02 07:29	0° ∡ ¹	
r.	8926 Aug 04 12:37	30°Rる			0021 D 14 10 25	070 71115	0010117
direct	8926 Aug 31 18:50	25° පි 18'16		conjunction	8931 Dec 14 19:35	27° ∡ 11'56	
	8926 Sep 30 04:20	0° ≈		minimum elong	8931 Dec 14 20:11	27° 🖈 12'53	
	8926 Dec 03 21:30	0° ∀		max. Earth dist.	8931 Dec 18 12:18		2.67689 AU
	8927 Jan 20 03:37	0°Υ		1 1	8931 Dec 19 05:20	0°る	
	8927 Mar 03 05:29	0° B		desc. node	8932 Jan 20 23:48	20°る47'28	
,	8927 Apr 11 14:59	0°II		morning rise	8932 Jan 27 21:06	25° る 09'26	
asc. node	8927 May 10 08:17	22° I 32'29			8932 Feb 04 12:20	0° ≈	
	8927 May 19 18:46 8927 Jun 26 19:49	0° U 0°©			8932 May 08 13:52	0° ℋ 0° Ƴ	
avaning sat					8932 May 08 13:52	0.8 0.4.	
evening set	8927 Jul 15 13:31	14° Ω 34'45			8932 Jun 24 08:40	0° D	
	8927 Aug 04 16:51	0 ்⊽ 0°™			8932 Aug 10 19:55	0ം © 0∘П	
	8927 Sep 14 03:45	0.34		retrograda	8932 Oct 01 11:40		
aaminus -ti	9027 C 10 11 44	20 0 07145	1905110	retrograde	8932 Dec 01 08:27	19°508'49	0.26566 417
conjunction	8927 Sep 18 11:44	3° ₽ 07'45		min. Earth dist.	8932 Dec 30 02:43	14°527'03	0.36566 AU
minimum elong	8927 Sep 18 10:45	3° 亞 06'00	1°05'19	asc. node	8932 Dec 30 11:54	14°520'55	0004125
max. Earth dist.	8927 Oct 26 15:45 8927 Oct 27 08:15	0°ጤ 0°ጤ28'23	2.52132 AU	opposition	8932 Dec 31 11:18	14°505'17	0°04'35 -3.1m
			2.32132 AU	greatest brilliancy	8932 Dec 31 11:12	14°905'21	-3.1III
morning rise	8927 Nov 13 21:48 8927 Dec 10 09:40	12° M 25'18 0° ∡'		direct	8933 Jan 29 18:48 8933 Apr 03 11:19	9° © 13'15 0° Ω	
	0741 DEC 10 09.40	υ Χ .			0233 Apr 03 11.19	0 06	

	8933 May 24 06:12	0° m			8938 May 30 02:04	Π $^{\circ}0$	
	8933 Jul 10 12:57	0∘ ত		morning rise	8938 Jun 05 17:23	5° Ⅱ 06'58	
	8933 Aug 26 16:27	0° M.			8938 Jul 07 15:46	0 \circ \odot	
	8933 Oct 13 06:42	0° ∡ ¹			8938 Aug 14 21:03	$0^{\circ}\Omega$	
	8933 Nov 30 00:59	0°రె		asc. node	8938 Aug 22 04:02	5° Ω 41'54	
evening set	8933 Dec 04 16:42	2° る 55'53			8938 Sep 22 15:14	0° ™	
desc. node	8933 Dec 07 21:26	4° ප 56'47			8938 Nov 01 22:23	0∘ <u>v</u>	
max. Earth dist.	8934 Jan 09 01:51	25° る 20'23	2.67282 AU		8938 Dec 15 01:23	0°M	
man. Darun dige.	8934 Jan 16 09:01	0°≈	2.07202110		8939 Feb 01 16:26	0° ⊼ 7	
	0,51,5411 10 0,.01	0 / 0 .		retrograde	8939 Apr 25 10:02	29° х 03'19	
conjunction	8934 Jan 18 04:56	1°≈10'15	0°21'24	min. Earth dist.	8939 Jun 02 23:49	19° х 55'53	0.66799 AU
·		1°≈09'15				19° × 3333	1°54'17
minimum elong	8934 Jan 18 04:19		0 21 11	opposition	8939 Jun 05 00:20		
morning rise	8934 Mar 03 00:06	29°≈31'56		greatest brilliancy	8939 Jun 04 21:24	19° ∡ 10'32	-1.4m
	8934 Mar 03 17:13	0°) (direct	8939 Jul 15 05:00	9° ∡ 36'39	
	8934 Apr 17 17:23	0° Υ		desc. node	8939 Jul 31 01:11	11° ∡ ′01'47	
	8934 May 31 07:25	0°B			8939 Sep 23 09:49	0°る	
	8934 Jul 12 13:43	$\Pi^{\circ}0$			8939 Nov 18 07:47	0° ≈	
	8934 Aug 22 21:32	0			8940 Jan 05 14:23	0° ∀	
	8934 Oct 03 04:59	$0 {\circ} \Omega$			8940 Feb 18 18:48	0 ° Υ	
	8934 Nov 15 21:16	0° m p			8940 Mar 31 02:02	0°B	
asc. node	8934 Nov 17 10:50	1°M)00'10		evening set	8940 Apr 06 22:04	5° 8 07'40	
	8935 Jan 14 07:40	0० ⊽		max. Earth dist.	8940 May 08 11:11	29° 8 17'12	2.37596 AU
retrograde	8935 Feb 05 09:22	ვ° <u>ჲ</u> 22'38			8940 May 09 09:13	$\Pi^{\circ}0$	
	8935 Feb 27 01:13	30°R, M⊅			,		
min. Earth dist.	8935 Mar 05 06:29	28° m 00'23	0.46445 AU	conjunction	8940 Jun 09 13:00	24°∏26'59	-0°21'03
greatest brilliancy	8935 Mar 12 01:59	25° m/36'28	-2.3m	minimum elong	8940 Jun 09 15:05	24° II 31'05	
opposition	8935 Mar 13 17:41	25° mp 01'18	5°29'03	minimum ciong	8940 Jun 16 13:28	0°95	0 21 10
• •			3 29 03	1-			
direct	8935 Apr 15 14:51	18° Mp 14'44		asc. node	8940 Jul 09 01:19	17°5548'23	
	8935 Jun 02 20:51	0∘ 亚			8940 Jul 24 12:14	0° N	
	8935 Aug 01 13:30	0°M		morning rise	8940 Aug 21 16:50	22° Ω 00'02	
	8935 Sep 22 12:12	0°⊀			8940 Sep 01 02:29	0° ™	
desc. node	8935 Oct 25 21:17	20° ₹ 02'02			8940 Oct 11 04:02	0∘ ⊽	
	8935 Nov 11 05:02	0°ප			8940 Nov 22 11:15	0° M	
	8935 Dec 29 05:32	0° ≈			8941 Jan 06 21:06	0° ∡ 7	
evening set	8936 Jan 09 14:54	7° ≈ 17'06			8941 Feb 26 10:40	8°0	
max. Earth dist.	8936 Feb 01 20:34	22° ≈ 22'48	2.61433 AU		8941 May 10 04:46	0° ≈	
	8936 Feb 13 09:32	0° ∀		retrograde	8941 May 28 13:57	1° ≈ 55'17	
					8941 Jun 14 22:52	30°Ŗ₹	
conjunction	8936 Feb 24 02:33	7°) 09′04	-0°55'38	desc. node	8941 Jun 17 00:22	29° る 30'59	
minimum elong	8936 Feb 24 01:24	7°) €07'09		opposition	8941 Jul 07 18:00	22° る 26'45	-0°42'51
g	8936 Mar 28 13:18	0°Υ	0 0002	greatest brilliancy	8941 Jul 07 18:47	22° る 25'59	
morning rise	8936 Apr 11 09:31	9° Υ 41'29		min. Earth dist.	8941 Jul 09 12:34	21°る44'52	
morning risc	8936 May 09 18:30	0°8		direct	8941 Aug 18 07:14	12°る27'19	0.07707 AC
	8936 Jun 19 07:49	0°II		direct	8941 Oct 20 03:19	0° ≈	
	8936 Jul 19 07.49 8936 Jul 28 17:15	0°9					
					8941 Dec 13 17:51	0°) €	
	8936 Sep 05 16:19	0 ° Ω			8942 Jan 28 12:07	0° Υ	
asc. node	8936 Oct 04 07:05	21° Ω 48′04			8942 Mar 11 03:47	0° 8	
	8936 Oct 15 05:47	0° т р			8942 Apr 19 10:06	Π °0	
	8936 Nov 26 00:36	0∘ ত		asc. node	8942 May 26 23:18	29° ∏ 34'32	
	8937 Jan 12 20:19	0°M₊			8942 May 27 12:09	0 \circ	
retrograde	8937 Mar 20 14:11	22°M17'53		evening set	8942 Jun 15 23:24	15° © 25'28	
min. Earth dist.	8937 Apr 23 10:02	14°M43'31	0.59314 AU		8942 Jul 04 11:01	$0 {\circ} \Omega$	
greatest brilliancy	8937 Apr 28 09:03	12°M46'47	-1.7m		8942 Aug 12 04:39	O°Mp	
opposition	8937 Apr 29 05:32	12°M26'40	4°19'18				
direct	8937 Jun 05 14:48	3°M53'26		conjunction	8942 Aug 24 18:26	9° mp 30'50	0°54'25
	8937 Aug 26 04:12	0° ⊼ ¹		minimum elong	8942 Aug 24 15:33	9° m 25'26	0°54'17
desc. node	8937 Sep 11 23:17	8° ∡ ³37'54		C	8942 Sep 21 11:10	0∘ <mark>⊽</mark>	
	8937 Oct 20 10:34	0°ಕ		max. Earth dist.	8942 Oct 11 10:45	14° ≏ 21'26	2.46831 AU
	8937 Dec 09 07:54	0° ≈		morning rise	8942 Oct 25 18:48	24° Ω 26'10	2.10031710
	8938 Jan 24 22:56	0 ∞ 0° H		morning 1150	8942 Nov 02 19:27	24 = 20 10 0° M	
avanina sat							
evening set	8938 Feb 16 22:24	15° ¥ 29′29	2.50/20.433		8942 Dec 17 13:15	0° ⊼	
max. Earth dist.	8938 Mar 03 13:43		2.50630 AU		8943 Feb 03 01:40	5°0	
	8938 Mar 09 20:01	$0^{\circ}\mathbf{\Upsilon}$			8943 Mar 26 18:45	0° ≈	
				desc. node	8943 May 04 21:50	19° ≈ 33'55	
conjunction	8938 Apr 08 15:21	21° Y 22'30			8943 May 31 23:47	0° ∀	
minimum elong	8938 Apr 08 15:58	21° Y 23'37	1°06'33	retrograde	8943 Jul 05 00:49	5° ¥ 54'39	
	8938 Apr 20 08:54	9° 8			8943 Aug 05 03:51	30° R ≈	

•,•	0042 4 12 11 46	270 - 16140	2021100		0040 D 24 10 20	1107000	
opposition	8943 Aug 12 11:46	27°≈16'40		desc. node	8948 Dec 24 10:38	11° そ 08'36	2 (0002 177
greatest brilliancy	8943 Aug 13 02:13	27°≈02'50		max. Earth dist.	8948 Dec 31 07:31	15° 6 30'07	2.68093 AU
min. Earth dist.	8943 Aug 18 00:51	25°≈09'24	0.62201 AU				
direct	8943 Sep 22 18:21	17° ≈ 19'37		conjunction	8949 Jan 04 12:59	18° る 11'12	
	8943 Nov 11 12:52	0° ∀		minimum elong	8949 Jan 04 12:48	18° る 10'55	0°05'37
	8944 Jan 04 12:59	0° Υ		behind sun begin	8949 Jan 03 19:22	17° る 43'14	
	8944 Feb 17 05:05	0°8		behind sun end	8949 Jan 05 06:15	18° る 38'36	
	8944 Mar 28 04:35	0°II			8949 Jan 23 02:19	0° ≈	
asc. node	8944 Apr 13 01:01	12° ∏ 17'13		morning rise	8949 Feb 17 01:52	16° ≈ 01'02	
	8944 May 05 15:50	0			8949 Mar 10 16:14	0° ∀	
	8944 Jun 12 23:39	$0^{\circ}\Omega$			8949 Apr 25 06:09	0° Y	
	8944 Jul 22 04:26	0° m y			8949 Jun 08 17:49	0° 8	
evening set	8944 Aug 24 00:38	24° Mp 15'11			8949 Jul 22 06:04	Π °0	
	8944 Aug 31 23:47	0∘ ⊽			8949 Sep 03 07:00	0 \circ \odot	
	8944 Oct 13 19:18	0°M			8949 Oct 17 12:26	$0^{\circ}\Omega$	
				asc. node	8949 Dec 04 02:59	27° Ω 19'13	
conjunction	8944 Oct 19 14:27	3°M57'18	1°03'21		8949 Dec 10 06:14	0° m y	
minimum elong	8944 Oct 19 15:26	3°M58'58	1°03'29	retrograde	8950 Jan 14 09:34	7° m 59'32	
max. Earth dist.	8944 Nov 14 15:32	21° M 25'44	2.59096 AU	min. Earth dist.	8950 Feb 09 12:24	3° m 24'49	0.41194 AU
	8944 Nov 27 15:55	0° ∡ ¹		greatest brilliancy	8950 Feb 15 21:29	1° m 23'38	-2.7m
morning rise	8944 Dec 08 20:17	7° ∡ 17'01		opposition	8950 Feb 17 06:16	0° m 57'23	4°38'42
	8945 Jan 13 09:09	0°ප			8950 Feb 20 07:10	30°R Ω	
	8945 Mar 02 20:49	0° ≈		direct	8950 Mar 20 04:48	25° Ω 07'48	
desc. node	8945 Mar 21 18:02	11° ≈ 20'36			8950 Apr 17 23:08	0° m y	
	8945 Apr 22 19:57	0° ∀			8950 Jun 21 07:40	0∘ ⊽	
	8945 Jun 19 14:00	$_0$ ° \mathbf{Y}			8950 Aug 11 23:23	0° M	
retrograde	8945 Aug 20 19:55	17° Ƴ 02'02			8950 Sep 30 14:50	0° ∡ ¹	
opposition	8945 Sep 24 19:39	9° Y 52'38	-5°31'33	desc. node	8950 Nov 11 10:42	25° х 42′24	
greatest brilliancy	8945 Sep 26 11:37	9° Y 17'25	-2.1m		8950 Nov 18 08:44	0°ਰ	
min. Earth dist.	8945 Oct 03 08:41	6°Υ52'41	0.50550 AU	evening set	8950 Dec 26 12:43	23° る 57'06	
direct	8945 Nov 02 05:49	1° Υ 05'41	0.00000110	evening sec	8951 Jan 05 00:48	0°≈	
4.1.000	8946 Jan 17 11:08	0°8		max. Earth dist.	8951 Jan 23 06:32		2.64346 AU
asc. node	8946 Mar 01 03:10	28° 8 50'50		man. Darm digt.	0,010411 25 00.52	11 10 13 17	2.0 .0 .0 .10
use. Houe	8946 Mar 02 17:30	0°II		conjunction	8951 Feb 09 06:06	22°≈46'54	-0°43'58
	8946 Apr 12 02:10	0.© 0 H		minimum elong	8951 Feb 09 05:00	22° ≈ 45'06	
	8946 May 21 17:26	$0 {\circ} \Omega$		minimum ciong	8951 Feb 20 05:05	0° ∀	0 45 47
	8946 Jul 01 02:11	0° mp		morning rise	8951 Mar 26 14:24	23° ∺ 06'39	
	8946 Aug 11 23:42	0∘ ʊ ○ '₩		morning risc	8951 Apr 05 15:25	23 γ (003)	
	8946 Sep 24 17:44	0°M			8951 May 18 07:15	0°8	
evening set	8946 Oct 13 03:41	12°M16'17			8951 Jun 28 09:22	0°II	
evening set	8946 Nov 09 05:11	0° √			8951 Aug 07 07:53	0°©	
	8940 NOV 09 03.11	0 X			=	0°€ 0°€	
aaniumatian	8946 Nov 30 11:09	129.7/42/01	0°34'15	aca mada	8951 Sep 15 20:31 8951 Oct 22 01:30	0 8 <i>t</i> 26° Ω 59'57	
conjunction		13° × 743'01		asc. node	8951 Oct 26 04:24		
minimum elong max. Earth dist.	8946 Nov 30 12:10	13° × 744'39				0 ் ம 0° மி	
max. Earm dist.	8946 Dec 09 20:02	19° ₹ 43'12	2.66338 AU		8951 Dec 08 17:21		
	8946 Dec 25 22:57	0°る		4 1 -	8952 Feb 04 05:27	0°M	
morning rise	8947 Jan 14 11:51	12°る23'22		retrograde	8952 Mar 04 22:22	5°M35'42	
desc. node	8947 Feb 06 13:30	26°₹57'12		· F 4 F 4	8952 Apr 02 06:42	30° ₹ Ω	0.54757.411
	8947 Feb 11 09:36	0° ≈		min. Earth dist.	8952 Apr 05 11:31	28° Ω 49'14	0.54757 AU
	8947 Mar 31 04:23	0°) €		greatest brilliancy	8952 Apr 11 10:10	26° ♀ 32'41	-1.9m
	8947 May 18 09:38	0° Υ		opposition	8952 Apr 12 16:02	26° ♀ 04'00	5°03'51
	8947 Jul 06 22:49	0° 8		direct	8952 May 18 12:34	18° ≏ 05'02	
	8947 Aug 30 18:22	0°П			8952 Jul 07 07:08	0° ™	
retrograde	8947 Oct 30 14:27	17° Ⅱ 45'52			8952 Sep 06 07:20	0° ∡ 7	
opposition	8947 Nov 29 16:00	12° Ⅱ 42'57		desc. node	8952 Sep 28 11:59	12° ₹ '26'25	
greatest brilliancy	8947 Nov 30 10:02	12° Ⅲ 30′35			8952 Oct 28 13:37	0° る	
min. Earth dist.	8947 Dec 04 03:55	11° Ⅲ 29'03	0.37903 AU		8952 Dec 16 12:44	0° ≈	
direct	8947 Dec 30 20:06	7° Ⅱ 11'07		evening set	8953 Jan 31 20:27	29° ≈ 57'59	
asc. node	8948 Jan 17 03:29	9° Ⅱ 11'50			8953 Jan 31 21:40	0° ∀	
	8948 Mar 05 06:18	0°©		max. Earth dist.	8953 Feb 18 04:45	11°) (37'01	2.55372 AU
	8948 Apr 21 21:24	0 \circ Ω			8953 Mar 16 20:22	0 ° Υ	
	8948 Jun 05 09:25	0° m/					
	8948 Jul 20 01:17	0∘ ⊽		conjunction	8953 Mar 20 19:57	2° Y 47'56	
	8948 Sep 03 18:11	0°M₊		minimum elong	8953 Mar 20 19:29	2° Y '47'07	1°06'46
	8948 Oct 20 12:15	0°⊀			8953 Apr 27 14:36	0° 8	
evening set	8948 Nov 20 14:17	19° ∡ 42'57		morning rise	8953 May 12 11:20	11° 8 00'59	
	8948 Dec 06 20:16	0°る			8953 Jun 06 14:34	Π $\circ 0$	

	0052 I 1 15 10 24	000		i r d r d	0050 4 02 02 02	11051150	0.65166.411
	8953 Jul 15 10:34	0°©		min. Earth dist.	8958 Aug 02 03:03	11°≈51'52	0.65166 AU
	8953 Aug 22 21:01	0° Ω		direct	8958 Sep 08 15:39	3° ≈ 24'09	
asc. node	8953 Sep 07 20:58	12° Ω 24'55			8958 Nov 26 12:05	0°) €	
	8953 Sep 30 19:51	0°Щ			8959 Jan 14 08:43	0° Υ	
	8953 Nov 10 10:16	0∘ ಹ			8959 Feb 25 21:46	0°B	
	8953 Dec 24 10:20	0°M₊			8959 Apr 06 11:45	0°Щ	
	8954 Feb 14 23:25	0° ⊼		asc. node	8959 Apr 30 17:06	18° Ⅱ 56′27	
retrograde	8954 Apr 11 23:34	15° ∡ ¹44'27			8959 May 14 17:43	0ಂ ತಾ	
min. Earth dist.	8954 May 18 20:52	7° ₰ 09'07	0.64629 AU		8959 Jun 21 20:36	$0^{\circ}\Omega$	
opposition	8954 May 22 09:11	5° ∡ ¹45'17	2°53'03		8959 Jul 30 19:38	0° m y	
greatest brilliancy	8954 May 22 01:02	5° ₹ 53'24	-1.4m	evening set	8959 Jul 31 02:36	0° m 13′11	
	8954 Jun 07 09:17	30°RM₊			8959 Sep 09 08:23	0∘ ⊽	
direct	8954 Jun 30 15:29	26°M32'47					
	8954 Jul 26 00:15	0° ∡ ¹		conjunction	8959 Sep 30 21:19	15° ≏ 22'19	1°06'48
desc. node	8954 Aug 16 13:54	6° ∡ 756'37		minimum elong	8959 Sep 30 21:18	15° ≏ 22'17	1°06'51
	8954 Oct 04 23:57	0°ප			8959 Oct 21 21:47	0° M ₊	
	8954 Nov 26 14:15	0° ≈		max. Earth dist.	8959 Nov 03 20:35	8° ጤ 50'19	2.54797 AU
	8955 Jan 13 00:47	0°) €		morning rise	8959 Nov 23 18:49	22°M11'30	
	8955 Feb 26 00:52	$_{0}^{\circ}\Upsilon$		Č	8959 Dec 05 15:07	0° ∡ ¹	
evening set	8955 Mar 17 11:12	13° Y 53'10			8960 Jan 21 12:08	0°8	
max. Earth dist.	8955 Apr 01 14:56	24°Υ58'40	2.42391 AU		8960 Mar 10 19:13	0° ≈	
man. Bartin diot.	8955 Apr 08 09:25	0°8	22371110	desc. node	8960 Apr 07 08:31	15° ≈ 52'22	
	0)33 Apr 00 0).23	٥ ٠		dese. Hode	8960 May 03 11:15	0° ∀	
conjunction	8955 May 14 01:03	27° 8 04'41	-0°47'35	retrograde	8960 Jul 31 07:03	29° ¥ 48'32	
minimum elong	8955 May 14 01:05	27° 8 09'59		opposition	8960 Sep 05 21:58	21° X 58'16	1°10'11
minimum ciong	•	27 O 09 39	0 47 40	• •	•	21°\(\frac{7}{30}\)'33	
	8955 May 17 19:42	0°9		greatest brilliancy	8960 Sep 07 04:04		0.55710 AU
	8955 Jun 25 02:40			min. Earth dist.	8960 Sep 13 13:07		0.55/10 AU
morning rise	8955 Jul 22 02:18	21°5519'01		direct	8960 Oct 15 21:14	12°) €30'57	
asc. node	8955 Jul 26 18:04	24° © 59'21			8960 Dec 12 16:56	0° Υ	
	8955 Aug 02 02:52	0° N			8961 Jan 30 17:54	0° 8	
	8955 Sep 09 17:19	0° m			8961 Mar 13 08:01	0°Щ	
	8955 Oct 19 18:54	0∘ 亚		asc. node	8961 Mar 17 18:02	3° Ⅱ 19'24	
	8955 Dec 01 05:28	0°M₊			8961 Apr 21 14:25	0ಂ ತಾ	
	8956 Jan 16 07:39	0° ∡			8961 May 30 12:32	$0^{\circ}\Omega$	
	8956 Mar 09 23:37	0°ප			8961 Jul 09 06:57	0° m)	
retrograde	8956 May 15 04:37	19° る 28'32			8961 Aug 19 15:32	0∘ ⊽	
opposition	8956 Jun 24 16:22	9° る 46'51	0°18'25	evening set	8961 Sep 25 10:14	25° ≏ 34'13	
greatest brilliancy	8956 Jun 24 16:36	9° ප් 46'37	-1.3m		8961 Oct 01 22:39	0° M ₊	
min. Earth dist.	8956 Jun 24 23:24	9° る 39'54	0.68194 AU				
desc. node	8956 Jul 03 14:23	6° る 19'52		conjunction	8961 Nov 15 04:57	29°M24'56	0°47'49
	8956 Aug 01 09:53	30°₹ ҂ 7		minimum elong	8961 Nov 15 06:14	29° M 27'02	0°48'01
direct	8956 Aug 04 21:03	29° ₹ 55'34			8961 Nov 16 02:26	0° ∡ ¹	
	8956 Aug 08 09:09	0°ප		max. Earth dist.	8961 Nov 30 15:33	9° ∡ ¹26'33	2.64143 AU
	8956 Nov 01 11:04	0° ≈		morning rise	8961 Dec 31 17:42	29° ∡ ¹21'24	
	8956 Dec 22 10:40	0° ∀			8962 Jan 01 18:00	0° ට	
	8957 Feb 05 09:10	$0^{\circ}\mathbf{\Upsilon}$			8962 Feb 18 10:54	0° ≈	
	8957 Mar 18 19:53	0°8		desc. node	8962 Feb 23 05:04	2° ≈ 57'38	
	8957 Apr 27 01:40	0° I I			8962 Apr 08 02:22	0°) €	
evening set	8957 May 17 05:12	15° ∏ 48'25			8962 May 28 09:20	0° Υ	
	8957 Jun 04 03:41	0ಂತಿ			8962 Jul 22 18:03	0°8	
asc. node	8957 Jun 12 17:22	6°5947'47		retrograde	8962 Sep 29 08:29	20° 8 42'26	
use. Hode	8957 Jul 12 01:26	0°Ω		opposition	8962 Oct 31 07:32	14° 8 52'55	-5°23'10
	0)3/Jul 12 01.20	0 00		greatest brilliancy	8962 Nov 01 22:59	14° 8 22'21	
conjunction	8957 Jul 27 03:38	11° Ω 49'24	0°20'40	min. Earth dist.	8962 Nov 08 04:01	12° 8 28'13	0.42077 AU
•		11° Ω 43'35		direct		7° 8 56'19	0.42077 AU
minimum elong	8957 Jul 27 00:38	0°M)	0 30 33	asc. node	8962 Dec 04 16:29	28° 8 10'00	
Double 41:4	8957 Aug 19 16:31		2 41100 ATT	asc. node	8963 Feb 02 20:15		
max. Earth dist.	8957 Sep 18 18:52		2.41180 AU		8963 Feb 06 00:54	0° Ⅱ	
	8957 Sep 28 19:29	0° Ω			8963 Mar 24 05:10	0°©	
morning rise	8957 Oct 03 13:42	3° Ω 27'50			8963 May 05 10:38	0° N	
	8957 Nov 10 01:11	0°M			8963 Jun 16 12:28	0° m)	
	8957 Dec 24 21:17	0° ∡			8963 Jul 29 16:58	0∘ ⊽	
	8958 Feb 11 02:41	0°る			8963 Sep 12 10:31	0° M ₊	
	8958 Apr 06 18:45	0° ≈			8963 Oct 28 13:47	0° ∡ ¹	
desc. node	8958 May 21 12:15	17° ≈ 58′07		evening set	8963 Nov 06 23:07	6° ∡ °01'13	
retrograde	8958 Jun 19 17:47	22° ≈ 27'58			8963 Dec 14 14:30	0°る	
opposition	8958 Jul 29 00:59	13° ≈ 27′00					
greatest brilliancy	8958 Jul 29 08:05	13° ≈ 20′07	-1.4m	conjunction	8963 Dec 22 19:06	5° る 12'01	0°10'06

minimum elong	8963 Dec 22 19:25	5° る 12'32	0°10'22		8968 Nov 19 15:12	0∘ ⊽	
behind sun begin	8963 Dec 22 05:04	4°₹49'46	0 10 22		8969 Jan 04 08:56	0°M	
behind sun end	8963 Dec 23 09:46	5° ਰ 35'17			8969 Mar 13 14:52	0° ⊼ 7	
max. Earth dist.	8963 Dec 23 13:23	5° ರ 41'00	2.68066 AU	retrograde	8969 Mar 29 00:25	1° х 31′26	
desc. node	8964 Jan 11 01:34	17° る 25'35			8969 Apr 12 18:43	30°RM	
	8964 Jan 30 20:33	0° ≈		min. Earth dist.	8969 May 02 24:00	23°M33'23	0.61469 AU
morning rise	8964 Feb 04 13:07	2°≈59'04		opposition	8969 May 07 23:56	21°M34'52	3°49'10
Ü	8964 Mar 17 18:48	0° ∀		greatest brilliancy	8969 May 07 08:24	21°M50'13	-1.6m
	8964 May 03 03:01	$_0$ ° $\boldsymbol{\gamma}$		direct	8969 Jun 15 02:34	12° M 45'47	
	8964 Jun 17 21:35	0°8			8969 Aug 17 05:38	0° ≯ ¹	
	8964 Aug 02 11:12	$\Pi^{\circ}0$		desc. node	8969 Sep 02 02:25	7° ∡ °27'10	
	8964 Sep 18 04:14	0°ಅ			8969 Oct 14 14:10	0°ප	
	8964 Nov 13 01:55	$0^{\circ}\Omega$			8969 Dec 04 07:11	0° ≈	
retrograde	8964 Dec 18 17:51	7° Ω 50'31			8970 Jan 20 04:49	0° ∀	
asc. node	8964 Dec 20 19:59	7° Ω 48'42		evening set	8970 Feb 26 17:18	25°) (30′04	
min. Earth dist.	8965 Jan 14 08:16	3° £ 29′56	0.37433 AU		8970 Mar 05 03:23	0 ° Υ	
opposition	8965 Jan 18 19:17	2° Ω 15'39	2°10'27	max. Earth dist.	8970 Mar 12 11:15	5° Ƴ 11′03	2.47770 AU
greatest brilliancy	8965 Jan 18 08:48	2° Ω 22'57	-3.0m		8970 Apr 15 15:04	9° 8	
	8965 Jan 27 07:41	30° ₹					
direct	8965 Feb 17 03:44	27° © 14'55		conjunction	8970 Apr 20 10:54	3° 8 35'19	-1°02'37
	8965 Mar 10 02:57	0 \circ Ω		minimum elong	8970 Apr 20 12:21	3° 8 38'01	1°02'44
	8965 May 14 20:37	O° m y			8970 May 25 06:11	Π $^{\circ}0$	
	8965 Jul 03 19:41	0∘ ত		morning rise	8970 Jun 21 07:26	21° Ⅲ 02'07	
	8965 Aug 21 02:38	0°M₊			8970 Jul 02 17:35	0 \circ	
	8965 Oct 08 06:53	0°⊀		greatest brilliancy	8970 Jul 31 21:23	22° © 57'02	1.2m
	8965 Nov 25 08:24	0° ප			8970 Aug 09 20:47	$0 {\circ} \Omega$	
desc. node	8965 Nov 27 23:51	1° る 39'31		asc. node	8970 Aug 12 12:26	2° Ω 04'43	
evening set	8965 Dec 12 14:58	10° る 51'30			8970 Sep 17 12:57	0° m)	
	8966 Jan 11 18:59	0° ≈			8970 Oct 27 16:34	0∘ ত	
max. Earth dist.	8966 Jan 14 05:20	1° ≈ 33'18	2.66476 AU		8970 Dec 09 10:24	0° ™	
					8971 Jan 25 17:46	0° ∡	
conjunction	8966 Jan 26 01:52	9°≈10'09			8971 Mar 28 02:21	0°る	
minimum elong	8966 Jan 26 01:02	9°≈08'48	0°29'55	retrograde	8971 May 03 00:18	6°る54'42	
	8966 Feb 27 01:43	0° ∀			8971 Jun 05 01:58	30°₹ ⋌ 7	0.65560.433
morning rise	8966 Mar 11 06:12	8° ₩ 03'26		min. Earth dist.	8971 Jun 11 10:09	27° × 31'27	0.67568 AU
	8966 Apr 12 20:50	$^{\circ \gamma}$		opposition	8971 Jun 12 14:44	27° 🗷 03'02	1°19'05
	8966 May 26 02:10	8°0		greatest brilliancy	8971 Jun 12 13:40	27° ₹ 04'05	-1.3m
	8966 Jul 06 20:59	0°¶ 0°9		desc. node	8971 Jul 21 03:13	17° ₹ 25'15	
	8966 Aug 16 14:04			direct	8971 Jul 23 05:06	17° メ 23'40 0° る	
	8966 Sep 26 00:52 8966 Nov 06 21:43	0° Ω 0° ™			8971 Sep 13 17:19 8971 Nov 12 09:13	0° ≈	
asc. node	8966 Nov 07 17:58	0°Mp34'47			8971 Dec 31 11:19	0 ∞ 0° ∀	
asc. node	8966 Dec 25 06:55	0° ʊ			8971 Dec 31 11:19 8972 Feb 13 22:03	0°Υ	
retrograde	8967 Feb 16 10:44	0 == 16° £ 19'45			8972 Mar 26 06:38	0°8	
min. Earth dist.	8967 Mar 17 14:10	10° ⊆ 1743	0.49527 AU	evening set	8972 Apr 20 10:34	19° 8 04'45	
greatest brilliancy	8967 Mar 24 06:03	8° £ 00'56	-2.2m	evening set	8972 May 04 13:27	0°П	
opposition	8967 Mar 25 19:56	ი — 00 ემ 7° — 26'07	5°30'08		8972 Jun 11 16:47	0.© 0 H	
direct	8967 Apr 28 20:40	0° ჲ 10'44	2 30 00		0)/2 Juli 11 10.1/	ů O	
	8967 Jul 24 16:33	0°ML		conjunction	8972 Jun 26 10:57	11° 5 641'40	-0°02'10
	8967 Sep 16 17:54	0° ∡ ¹		minimum elong	8972 Jun 26 11:11	11°5542'09	
desc. node	8967 Oct 16 00:46	17° × 14'26		behind sun begin	8972 Jun 25 04:59	10°5542'20	
	8967 Nov 06 05:01	0°ठ		behind sun end	8972 Jun 27 17:23	12° © 41'57	
	8967 Dec 24 12:55	0° ≈		asc. node	8972 Jun 29 08:58	14°500'20	
evening set	8968 Jan 17 20:21	15° ≈ 35'51		max. Earth dist.	8972 Jul 17 07:39	28° © 11'27	2.36667 AU
max. Earth dist.	8968 Feb 07 20:42	29° ≈ 23'23	2.59499 AU		8972 Jul 19 14:46	$0^{\circ}\Omega$	
	8968 Feb 08 18:46	0° ∀			8972 Aug 27 04:45	0° m/y	
				morning rise	8972 Sep 07 08:19	8°m/29'16	
conjunction	8968 Mar 03 23:53	16° ∺ 17'31	-1°01'00	-	8972 Oct 06 05:52	0∘ ⊽	
minimum elong	8968 Mar 03 22:52	16° ∺ 15'46			8972 Nov 17 11:00	0°M	
Č	8968 Mar 23 21:12	0° Y			8973 Jan 01 13:12	0°⊀	
morning rise	8968 Apr 21 19:16	20° Y 28'42			8973 Feb 19 22:42	ರ°0	
	8968 May 04 22:44	8° 0			8973 Apr 22 00:30	0° ≈	
	8968 Jun 14 07:24	$\Pi^{\circ}0$		retrograde	8973 Jun 05 10:48	9° ≈ 37'49	
	8968 Jul 23 11:39	0ංම		desc. node	8973 Jun 07 02:20	9° ≈ 36'49	
	8968 Aug 31 05:09	$0^{\circ}\Omega$		opposition	8973 Jul 15 08:56	0° ≈ 18'14	-1°18'58
asc. node							
asc. node	8968 Sep 24 16:09	18° Ω 47'43		greatest brilliancy	8973 Jul 15 11:14	0° ≈ 15'58	-1.3m
ase. Hode	8968 Sep 24 16:09 8968 Oct 09 11:23	18° Ω 47'43 0° m		greatest brilliancy	8973 Jul 15 11:14 8973 Jul 16 03:31	0°≈15'58 30°Ŗる	-1.3m

min. Earth dist.	8973 Jul 17 23:22	29° る 17'02	0.67134 AU		8978 Nov 04 12:29	0° ∡ ¹	
direct	8973 Aug 26 00:24	20° ප 16'09	0.07151110		0,701.07 0. 12.29	• •	
	8973 Oct 09 06:50	0° ≈		conjunction	8978 Dec 08 17:58	21° ₹ 59'17	0°25'37
	8973 Dec 07 11:38	0°) €		minimum elong	8978 Dec 08 18:45	22° ₹ 00'32	0°25'52
	8974 Jan 23 03:10	$0^{\circ}\mathbf{\Upsilon}$		max. Earth dist.	8978 Dec 14 23:28	25° ₹ 57'32	2.67194 AU
	8974 Mar 06 01:44	8° 0			8978 Dec 21 07:52	℃ 0	
	8974 Apr 14 10:41	$\Pi^{\circ}0$		morning rise	8979 Jan 22 04:16	20° る 11'56	
asc. node	8974 May 17 09:05	25° Ⅲ 53′10		desc. node	8979 Jan 27 15:41	23° る 39'54	
	8974 May 22 13:47	0ංම			8979 Feb 06 16:02	0° ≈	
greatest brilliancy	8974 May 26 03:34	2° 5 49'52	1.2m		8979 Mar 26 02:20	0° ℋ	
	8974 Jun 29 13:20	$0^{\circ}\Omega$			8979 May 12 12:29	0 ° $\mathbf{\Upsilon}$	
evening set	8974 Jul 02 19:56	2° Ω 34'02			8979 Jun 29 07:43	0°8	
	8974 Aug 07 07:55	0° m			8979 Aug 18 00:08	Π $^{\circ}0$	
					8979 Oct 18 15:08	0ಂ ತಾ	
conjunction	8974 Sep 08 04:42	23° m 49'36	1°02'04	retrograde	8979 Nov 18 01:57	5°529'11	
minimum elong	8974 Sep 08 02:52	23° Mp 46'14	1°02'01	opposition	8979 Dec 17 21:07	0°934'36	
P. d. P.	8974 Sep 16 15:30	0° ™	2 40022 4 7 7	greatest brilliancy	8979 Dec 18 01:30	0°931'40	
max. Earth dist.	8974 Oct 20 23:47		2.49823 AU	min. Earth dist.	8979 Dec 19 06:27	0°©12'24	0.36708 AU
	8974 Oct 29 00:17	0°M		1-	8979 Dec 20 01:06	30°ŖⅡ 26°Ⅱ07'46	
morning rise	8974 Nov 05 23:00	5° M 27'15 0° ₹		asc. node direct	8980 Jan 07 12:36 8980 Jan 16 18:36	26° II 07'46 25° II 33'25	
	8974 Dec 12 16:26 8975 Jan 28 20:53	0°중		direct	8980 Feb 12 02:03	23 п 3323	
	8975 Mar 20 10:09	0°≈			8980 Apr 12 00:21	0°Ω	
desc. node	8975 Apr 24 23:56	0 ~ 19° ≈ 04'10			8980 May 29 03:19	0° m	
dese. Hode	8975 May 18 09:09	0° ∀			8980 Jul 14 01:01	0∘ ಹ ೧.1%	
retrograde	8975 Jul 14 09:51	14°) €33'05			8980 Aug 29 10:50	o° m .	
opposition	8975 Aug 21 07:08	6° ₩ 10'27	-3°55'20		8980 Oct 15 15:00	0° ⊼ ¹	
greatest brilliancy	8975 Aug 22 02:49	5°) (51'48	-1.6m	evening set	8980 Nov 28 17:23	27° х 49'01	
min. Earth dist.	8975 Aug 27 15:07	3°) 46'40	0.60124 AU	S	8980 Dec 02 04:26	0°ರ	
	8975 Sep 07 15:10	30° R ≈		desc. node	8980 Dec 14 12:57	7° る 48'16	
direct	8975 Oct 01 05:30	26° ≈ 20'38		max. Earth dist.	8981 Jan 05 09:07	21° る 38'53	2.67755 AU
	8975 Oct 26 00:45	0°)					
	8975 Dec 28 07:13	$0^{\circ}\mathbf{\Upsilon}$		conjunction	8981 Jan 12 08:35	26° る 05'27	-0°15'03
	8976 Feb 11 05:18	9° 8		minimum elong	8981 Jan 12 08:08	26° る 04'44	0°14'48
	8976 Mar 22 15:36	$\Pi^{\circ}0$		behind sun begin	8981 Jan 12 01:07	25° る 53'33	
asc. node	8976 Apr 03 10:16	9° Ⅱ 03'07		behind sun end	8981 Jan 12 15:10	26° る 15'56	
	8976 Apr 30 08:25	0°ಅ			8981 Jan 18 11:38	0° ≈	
	8976 Jun 07 20:09	0 $^{\circ}$ Ω		morning rise	8981 Feb 24 23:16	24°≈08'46	
	8976 Jul 17 04:34	0° Mp			8981 Mar 05 22:45	0°) €	
	8976 Aug 27 03:14	0° ™			8981 Apr 20 05:26	0°Υ	
evening set	8976 Sep 05 12:21	6° Ω 40'49			8981 Jun 03 05:03	0°B 0°B	
	8976 Oct 09 01:25	0° M .			8981 Jul 15 23:59 8981 Aug 26 23:24	0°© 0°П	
conjunction	8976 Oct 29 17:02	13° M 57'07	0°58'46		8981 Oct 08 05:46	0°Ω	
minimum elong	8976 Oct 29 17:02 8976 Oct 29 18:17	13°M59'12			8981 Nov 23 05:01	0° m	
max. Earth dist.	8976 Nov 20 18:09		2.61113 AU	asc. node	8981 Nov 24 12:28	0°Mp46'04	
	8976 Nov 22 23:18	0° ∡ ¹		retrograde	8982 Jan 27 06:48	23° m 20'59	
morning rise	8976 Dec 17 09:41	15° ₹ 50'25		min. Earth dist.	8982 Feb 23 05:30	18° m) 22'32	0.44000 AU
-	8977 Jan 08 14:40	0°ರ		greatest brilliancy	8982 Mar 02 00:12	16°Mp05'11	-2.5m
	8977 Feb 25 17:36	0° ≈		opposition	8982 Mar 03 15:03	15°M 32'11	5°17'27
desc. node	8977 Mar 11 19:42	8° ≈ 36′00		direct	8982 Apr 04 14:05	9° ™ 10'48	
	8977 Apr 16 15:31	0° ∀			8982 Jun 11 04:32	0∘ ত	
	8977 Jun 09 13:09	0 ° $\mathbf{\Upsilon}$			8982 Aug 05 09:40	0° M	
retrograde	8977 Sep 02 23:15	28° Y 29'23			8982 Sep 25 05:32	0° ∡ ¹	
opposition	8977 Oct 06 21:08	21° Y 46'43		desc. node	8982 Nov 01 12:49	22° ₹ 38′24	
greatest brilliancy	8977 Oct 08 16:28	21° Y ′09'49			8982 Nov 13 12:05	0°⋜	
min. Earth dist.	8977 Oct 15 13:45	18° Y 50'07	0.47462 AU		8982 Dec 31 09:20	0° ≈	
direct	8977 Nov 13 01:58	13° Y 32'18		evening set	8983 Jan 03 13:19	2°≈01'07	2 (2020 : **
•	8978 Jan 05 22:44	0°8		max. Earth dist.	8983 Jan 28 18:56	18° ≈ 17'49	2.62838 AU
asc. node	8978 Feb 19 10:46	27° 8 33'34			8983 Feb 15 14:19	0° ℋ	
	8978 Feb 22 23:38	0° I			0002 E 1 17 14 55	101/20127	0051107
	8978 Apr 05 12:11	0° ೮ 0ಂತಾ		conjunction	8983 Feb 17 14:55	1° 米 20'35 1° 米 18'39	
	8978 May 15 18:22 8978 Jun 25 13:55	0° m)		minimum elong	8983 Feb 17 13:46 8983 Mar 31 21:58	1°π1839 0° Υ	0 2028
	8978 Aug 06 20:01	0° ت		morning rise	8983 Apr 04 22:17	0 γ 2° Υ 46'57	
	8978 Sep 19 20:38	0° ™			8983 May 13 08:34	2 1 4037 0° と	
evening set	8978 Oct 22 12:05	21°M32'24			8983 Jun 23 04:03	0°II	
-0	== 12.00					-	

	8983 Aug 01 19:20	0ංම			8988 Dec 16 19:12	0° ∀	
	8983 Sep 09 23:36	$0^{\circ}\Omega$			8989 Jan 31 06:13	0° Y	
asc. node	8983 Oct 12 08:56	24° Ω 29'28			8989 Mar 13 20:48	0°8	
	8983 Oct 19 19:13	0° m)			8989 Apr 22 03:40	Π $^{\circ}0$	
	8983 Dec 01 02:17	0∘ ত			8989 May 30 05:59	0°ಲಾ	
	8984 Jan 20 03:14	0° M ₊		evening set	8989 Jun 02 18:51	2° © 48'15	
retrograde	8984 Mar 14 01:39	15°M50'04		asc. node	8989 Jun 03 00:32	2° © 59'30	
min. Earth dist.	8984 Apr 15 21:43	8°M35'51	0.57379 AU		8989 Jul 07 04:00	$\mathfrak{O}^{\circ}\mathfrak{O}$	
greatest brilliancy	8984 Apr 21 07:28	6° M 29'43	-1.8m				
opposition	8984 Apr 22 07:57	6°ML05'51	4°39'51	conjunction	8989 Aug 12 17:18	28° Ω 23'39	0°45'50
	8984 May 10 16:01	30° ₹ Ω		minimum elong	8989 Aug 12 13:58	28° Ω 17'17	0°45'40
direct	8984 May 29 01:18	27° ₽ 46'46			8989 Aug 14 19:44	0° m y	
	8984 Jun 17 17:36	0° M .			8989 Sep 23 23:33	0∘ ⊽	
	8984 Aug 30 06:57	0° ∡ ¹		max. Earth dist.	8989 Oct 02 17:50	6° ₽ 21'33	2.44321 AU
desc. node	8984 Sep 18 14:38	10° ҂ ²21'32		morning rise	8989 Oct 16 13:49	16° ≏ 15'11	
	8984 Oct 23 03:38	0°ಕ		Ü	8989 Nov 05 05:03	0° M	
	8984 Dec 11 15:52	0° ≈			8989 Dec 19 22:02	0°⊀	
	8985 Jan 27 05:25	0°) €			8990 Feb 05 14:52	5°0	
evening set	8985 Feb 09 20:27	9°) €07'04			8990 Mar 30 05:51	0° ≈	
max. Earth dist.	8985 Feb 25 11:59	19°) 47'16	2.52832 AU	desc. node	8990 May 11 14:28	19° ≈ 47'26	
	8985 Mar 12 04:36	0°Υ			8990 Jun 18 16:06	0°) €	
		•		retrograde	8990 Jun 28 07:07	0°) 32′26	
conjunction	8985 Mar 31 04:48	13° Ƴ 29'49	-1°07'31	renograde	8990 Jul 07 15:32	30°R≈	
minimum elong	8985 Mar 31 04:53	13° Υ 29'58		opposition	8990 Aug 06 04:04	21° ≈ 43'38	-2°55'52
mmunu viong	8985 Apr 22 20:54	0°8	1 0, 5.	greatest brilliancy	8990 Aug 06 15:05	21° ≈ 33'02	
morning rise	8985 May 25 15:05	24° 8 34'01		min. Earth dist.	8990 Aug 11 01:54	19° ≈ 50'07	0.63656 AU
morning rise	8985 Jun 01 17:50	0° I		direct	8990 Sep 16 15:25	11° ≈ 42'48	0.03030710
	8985 Jul 10 10:38	0°©		uncer	8990 Nov 17 20:01	0°) €	
	8985 Aug 17 17:49	0°Ω			8991 Jan 08 05:46	0°Υ	
asc. node	8985 Aug 29 05:26	8° Ω 57'10			8991 Feb 20 10:14	0°8	
asc. Houc	8985 Sep 25 13:06	0° Mp			8991 Apr 01 05:54	0°U	
	8985 Nov 04 21:37	0∘ ত المار		asc. node	8991 Apr 21 01:53	15° Ⅱ 26'09	
	8985 Dec 18 05:47	0° ™		asc. node	8991 May 09 14:45	0°95	
	8986 Feb 05 22:33	0° ⊼ 7			8991 Jun 16 19:39	0°Ω	
ratra ara da		0 x · 23° ₹ 756'41				0°M)	
retrograde	8986 Apr 19 18:02	15° × 02'38	0.65953 AU	avanina aat	8991 Jul 25 20:48		
min. Earth dist.	8986 May 27 14:34	13° x '02 38	0.03933 AU 2°18'56	evening set	8991 Aug 14 15:56	14° ™ 47'21 0° ≏	
opposition	8986 May 30 06:36				8991 Sep 04 11:57	0-32	
greatest brilliancy	8986 May 30 01:43	14° ₹ 03'44	-1.4m		0001 0-4 12 10:00	269 0 45120	1905127
direct	8986 Jul 09 01:28	4° ₹ 35'30		conjunction	8991 Oct 12 10:09	26° Ω 45'20	
desc. node	8986 Aug 06 16:46	8° ≯ 753′26		minimum elong	8991 Oct 12 10:49	26° Ω 46'29	1°05'42
	8986 Sep 27 17:06	5°0		T 41 11 4	8991 Oct 17 03:16	0°M	2 57205 ATT
	8986 Nov 21 02:48	0° ≈		max. Earth dist.	8991 Nov 10 19:22	16°M42'43	2.57285 AU
	8987 Jan 08 01:57	0° ∀			8991 Nov 30 21:09	0° ⊼ ¹	
	8987 Feb 21 06:04	0° Υ		morning rise	8991 Dec 03 03:18	1° ∡ 728'42	
evening set	8987 Mar 29 05:32	25° Y 59'22			8992 Jan 16 14:33	್ತ	
and the	8987 Apr 03 15:04	0° 8	2 205 (2 1 1 1		8992 Mar 05 08:32	0°≈	
max. Earth dist.	8987 Apr 19 01:37		2.39563 AU	desc. node	8992 Mar 28 10:49	13° ≈ 40'07	
	8987 May 13 00:31	Π °0			8992 Apr 26 05:39	0°){	
	000734 00 01 10	120 1120100	0000110		8992 Jun 27 12:03	0°Υ 0°Ω45104	
conjunction	8987 May 29 01:10	12° Ⅲ 30′08		retrograde	8992 Aug 11 13:15	9° Υ 47'04	501.5141
minimum elong	8987 May 29 03:55	12° Ⅱ 35'31	0°34'03	opposition	8992 Sep 16 07:02	2°Υ18'12	
	8987 Jun 20 06:22	0°9		greatest brilliancy	8992 Sep 17 18:59	1° Y 45'48	-1.9m
asc. node	8987 Jul 17 02:49	21°5514'11			8992 Sep 22 16:06	30° ₹	
	8987 Jul 28 05:30	0° Ω		min. Earth dist.	8992 Sep 24 11:34		0.52943 AU
morning rise	8987 Aug 09 00:23	9° Ω 14'59		direct	8992 Oct 25 11:41	23°) 10'21	
	8987 Sep 04 19:03	0° m)			8992 Nov 28 01:59	0° Υ	
	8987 Oct 14 19:18	0∘ ⊽			8993 Jan 23 01:42	0°8	
	8987 Nov 26 01:48	0° M		_	8993 Mar 06 22:42	0°П	
	8988 Jan 10 15:26	0° ∡ ¹		asc. node	8993 Mar 08 04:17	0° ∏ 54'28	
_	8988 Mar 02 02:28	0°る			8993 Apr 15 18:17	0°©	
retrograde	8988 May 22 19:53	27° る 06'07			8993 May 25 00:26	0 ° Ω	
desc. node	8988 Jun 23 16:43	20° පි 47'01			8993 Jul 04 01:06	0° m)	
opposition	8988 Jul 02 04:00	17° る 31'26			8993 Aug 14 15:13	0∘ ত	
greatest brilliancy	8988 Jul 02 04:12	17° る 31'14			8993 Sep 27 02:43	0° ™	
min. Earth dist.	8988 Jul 03 07:04		0.68092 AU	evening set	8993 Oct 05 18:14	5° ™ 48'50	
direct	8988 Aug 12 13:49	7° ප 35'01			8993 Nov 11 09:34	0° ∡ ¹	
	8988 Oct 24 20:36	0° ≈					

conjunction minimum elong max. Earth dist.	8993 Nov 24 01:25 8993 Nov 24 02:35 8993 Dec 06 03:14			asc. node	8998 Oct 29 03:24 8998 Oct 30 08:29 8998 Dec 14 04:28	29° ₽ 08'05 0° ₽ 0° ₽	
	8993 Dec 28 01:27	0° ろ		retrograde	8999 Feb 26 16:16	28° Ω 05'44	
morning rise	8994 Jan 08 16:11	7°る22'12		min. Earth dist.	8999 Mar 29 03:15	21° Ω 42'44	0.52480 AU
desc. node	8994 Feb 13 06:14	29° る 47'34 0°≈		greatest brilliancy	8999 Apr 04 10:40	19° £ 20'19 18° £ 48'25	-2.0m 5°18'40
	8994 Feb 13 14:09 8994 Apr 02 17:04	0 ≈ 0° ∀		opposition direct	8999 Apr 05 20:24 8999 May 10 22:31	18 ≗ 48 23 11° £ 07'36	3 18 40
	8994 May 21 16:53	0° Υ		direct	8999 Jul 15 06:49	0°M	
	8994 Jul 12 02:58	0°8			8999 Sep 10 15:15	0° ⊼ 7	
	8994 Sep 14 01:09	0°II		desc. node	8999 Oct 06 03:49	14° ∡ ³38'43	
retrograde	8994 Oct 16 09:39	5° Ⅱ 46'35			8999 Nov 01 01:47	5°0	
opposition	8994 Nov 16 05:00	0°Ⅱ25'54	-4°32'36		8999 Dec 19 18:43	0° ≈	
greatest brilliancy	8994 Nov 17 10:25	0°耳04'40	-2.8m	evening set	9000 Jan 26 07:34	24° ≈ 10′16	
	8994 Nov 17 16:53	30° ₹ 8			9000 Feb 04 03:21	0°) €	
min. Earth dist.	8994 Nov 22 14:39		0.39510 AU	max. Earth dist.	9000 Feb 14 04:36	6°) 42'42	2.57292 AU
direct	8994 Dec 18 18:27	24° 8 18'21					
	8995 Jan 17 09:26	0° I		conjunction	9000 Mar 14 09:02	25° ¥ 56'56	
asc. node	8995 Jan 24 04:55	2° ∏ 38'59		minimum elong	9000 Mar 14 08:16	25°) ₹55'36	1°04'56
	8995 Mar 14 14:27	0° ©			9000 Mar 20 04:43	$^{\circ \gamma}$	
	8995 Apr 28 02:07 8995 Jun 10 06:33	0° N			9000 May 01 03:09	0°8	
	8995 Jul 24 03:50	0 ் ⊽ 0° M		morning rise	9000 May 04 03:01 9000 Jun 10 07:34	2° ႘ 11'47 0° Ⅱ	
	8995 Sep 07 08:18	0° M			9000 Jul 10 07:37	0°9	
	8995 Oct 23 18:39	0° ⊼ ¹			9000 Jul 19 07:57 9000 Aug 26 20:57	0°N	
evening set	8995 Nov 15 09:59	14° × ⁷ 25'46		asc. node	9000 Sep 15 23:09	15° Ω 32'07	
	8995 Dec 09 22:51	0°る			9000 Oct 04 22:01	0° m)	
max. Earth dist.	8995 Dec 28 15:23		2.68186 AU		9000 Nov 14 16:07	0∘ <u>⊽</u>	
					9000 Dec 29 03:41	0° M	
conjunction	8995 Dec 30 16:37	13° る 09'02	0°00'46		9001 Feb 22 17:13	0° ∡ ¹	
minimum elong	8995 Dec 30 16:40	13° る 09'07	0°01'02	retrograde	9001 Apr 07 02:50	10° ∡ 15′22	
behind sun begin	8995 Dec 29 22:18	12° る 40'01		min. Earth dist.	9001 May 13 04:18	1° ₹ 55'42	0.63331 AU
behind sun end	8995 Dec 31 11:02	13° る 38'12		opposition	9001 May 17 08:09	0° ≯ 16'32	
desc. node	8996 Jan 01 02:39	14°る03'00		greatest brilliancy	9001 May 16 21:03	0° ₹ 27'33	-1.5m
	8996 Jan 26 04:47	0°≈		T' .	9001 May 18 00:48	30°RM	
morning rise	8996 Feb 12 06:19	10°≈53'52		direct	9001 Jun 25 02:16	21°M13'50	
	8996 Mar 12 22:40 8996 Apr 27 20:37	0° ℋ 0° Ƴ		desc. node	9001 Aug 06 13:54 9001 Aug 24 05:31	0°⋪ 7°⋪03'43	
	8996 Apr 27 20.37 8996 Jun 11 21:13	0°8		desc. node	9001 Aug 24 03.31 9001 Oct 09 09:07	/ x·03 43 0°る	
	8996 Jul 26 04:32	0°II			9001 Oct 09 03:07 9001 Nov 30 03:47	0°≈	
	8996 Sep 08 10:58	0°9			9002 Jan 16 10:02	0° ∀	
	8996 Oct 25 08:35	$0^{\circ}\Omega$			9002 Mar 01 10:48	$0^{\circ}\Upsilon$	
asc. node	8996 Dec 11 04:33	22° Ω 08'55		evening set	9002 Mar 10 01:20	6° Y 05′26	
retrograde	8997 Jan 03 09:25	25° Ω 47′23		max. Earth dist.	9002 Mar 23 19:42	15° Y 59'08	2.44793 AU
min. Earth dist.	8997 Jan 29 08:02	21° Ω 25′10	0.39224 AU		9002 Apr 11 21:50	0° 8	
opposition	8997 Feb 04 23:23	19° Ω 26′04	3°48'40				
greatest brilliancy	8997 Feb 03 23:05	19° Ω 44'23	-2.8m	conjunction	9002 May 04 07:20	16° 8 50'46	
direct	8997 Mar 07 03:10	14° Ω 01'20		minimum elong	9002 May 04 09:36	16° 8 55'06	0°55'36
	8997 May 02 04:11	0° Mp			9002 May 21 10:51	0°Ⅱ	
	8997 Jun 26 07:11	0∘ w			9002 Jun 28 20:03	0°ഇ 8° ഇ 13'58	
	8997 Aug 15 05:13 8997 Oct 03 03:35	0° M 0°⊀		morning rise asc. node	9002 Jul 09 06:35 9002 Aug 03 19:25	28°921'58	
desc. node	8997 Nov 18 02:23	28° ₹ 27'16		asc. Houe	9002 Aug 05 19.23 9002 Aug 05 21:18	28 3 21 38	
dese. Hode	8997 Nov 20 13:53	0°る			9002 Sep 13 11:37	0° my	
evening set	8997 Dec 20 13:53	18° る 49'57			9002 Oct 23 12:46	0° ت	
<i>8</i>	8998 Jan 07 03:46	0° ≈			9002 Dec 05 00:09	0°M	
max. Earth dist.	8998 Jan 19 12:07		2.65401 AU		9003 Jan 20 10:17	0° ∡	
					9003 Mar 17 01:47	ರ∘ರ	
conjunction	8998 Feb 03 02:56	17° ≈ 22'07	-0°38'27	retrograde	9003 May 11 13:44	14° පි 37'34	
minimum elong	8998 Feb 03 01:56	17° ≈ 20′28	0°38'15	opposition	9003 Jun 21 03:06	4° ප 51'06	
	8998 Feb 22 09:55	0° ∀		greatest brilliancy	9003 Jun 21 03:06	4° ප 51'06	-1.3m
morning rise	8998 Mar 19 20:48	16°) € 58'14		min. Earth dist.	9003 Jun 20 18:36	4° る 59'33	0.68046 AU
	8998 Apr 08 00:54	$^{\circ \gamma}$		1 1	9003 Jul 04 00:06	30°₹ <i>₹</i>	
	8998 May 20 23:27	0°H 8°0		desc. node	9003 Jul 12 06:14	27° 🗷 33'32	
	8998 Jul 01 09:15 8998 Aug 10 15:50	0₀ © 0∘П		direct	9003 Aug 31 20:50	25°渘04'36 0°る	
	8998 Aug 10 15:50 8998 Sep 19 12:42	0.℃ 0.≈			9003 Aug 31 20:59 9003 Nov 07 00:41	0°≈	
	0770 och 19 12.42	006			7003 NOV 07 00.41	∪ ~	

	9003 Dec 27 05:14	0° ∀		max. Earth dist.	9008 Nov 27 13:07	5° ∡ ′23′18	2.62892 AU
	9004 Feb 10 00:05	0 ° $\mathbf{\Upsilon}$		morning rise	9008 Dec 26 16:48	24° ₮ 09'32	
	9004 Mar 22 11:09	8°			9009 Jan 04 21:04	0° ප	
	9004 Apr 30 18:08	$\Pi^{\circ}0$			9009 Feb 21 17:14	0° ≈	
evening set	9004 May 06 00:53	4° Ⅱ 07'07		desc. node	9009 Mar 02 21:10	5° ≈ 39'57	
<i>3</i> · · ·	9004 Jun 07 21:00	0°ಅ			9009 Apr 11 19:55	0°) €	
asc. node	9004 Jun 20 18:23	10°513'22			9009 Jun 02 08:33	0° Υ	
use. node	70013un 20 10.23	10 013 22			9009 Aug 01 20:23	0°8	
conjunction	9004 Jul 14 18:48	29° © 13'21	0°17'13	retrograde	9009 Sep 18 05:16	11° 8 00'20	
				Č	•	_	5020140
minimum elong	9004 Jul 14 16:56	29° © 09'40	0°16'57	opposition	9009 Oct 21 02:14	4° 8 46'16	
	9004 Jul 15 18:30	0°N		greatest brilliancy	9009 Oct 22 21:17	4° 8 11'17	
	9004 Aug 23 08:06	0° m		min. Earth dist.	9009 Oct 29 13:43	_	0.44432 AU
max. Earth dist.	9004 Sep 03 16:08	8° Mp 37'44	2.38804 AU		9009 Nov 05 15:44	30° ₹Ƴ	
morning rise	9004 Sep 23 16:42	23° Mp 37'01		direct	9009 Nov 25 19:35	27° Y 12′04	
	9004 Oct 02 08:57	0∘ ⊽			9009 Dec 16 04:56	9° 8	
	9004 Nov 13 12:34	0°M		asc. node	9010 Feb 10 20:47	27° 8 29'08	
	9004 Dec 28 09:04	0° ∡ ¹			9010 Feb 14 19:22	$\Pi^{\circ}0$	
	9005 Feb 14 22:18	0°ප			9010 Mar 30 07:24	0 \circ \mathfrak{S}	
	9005 Apr 12 09:14	0° ≈			9010 May 10 11:33	$0^{\circ}\Omega$	
desc. node	9005 May 29 04:38	15° ≈ 54'19			9010 Jun 20 21:00	0° ™	
retrograde	9005 Jun 14 12:38	17° ≈ 25'05			9010 Aug 02 13:25	0∘ <u>v</u>	
opposition	9005 Jul 24 03:12	8°≈15'27	-1°54'57		9010 Sep 15 21:41	0° ™	
greatest brilliancy	9005 Jul 24 07:57	8°≈10'49			9010 Oct 31 18:47	0° ⊼	
min. Earth dist.	9005 Jul 27 13:43	6°≈54'58		avanina aat	9010 Oct 31 18:47 9010 Nov 01 10:58	0° ∡ ¹26'06	
IIIII. Eartii dist.			0.66175 AU	evening set	9010 NOV 01 10.38	0 x ·2606	
t' .	9005 Aug 18 01:07	30°Rる			0010 D 17 20 20	007000	0017127
direct	9005 Sep 03 18:50	28°る12'07		conjunction	9010 Dec 17 20:29	0°る06'28	0°16'36
	9005 Sep 21 09:10	0° ≈		minimum elong	9010 Dec 17 21:00	0° 궁 07'18	0°16'51
	9005 Dec 01 16:08	0° ∀			9010 Dec 17 16:24	0° る	
	9006 Jan 18 13:10	0 ° $\mathbf{\gamma}$		max. Earth dist.	9010 Dec 21 00:59	2°る08'00	2.67780 AU
	9006 Mar 01 20:59	9° 8		desc. node	9011 Jan 18 17:28	20° ろ 20'09	
	9006 Apr 10 09:22	Π $^{\circ}0$		morning rise	9011 Jan 30 20:23	28° る 01'25	
asc. node	9006 May 08 18:20	22° Ⅱ 14'05			9011 Feb 02 23:06	0° ≈	
	9006 May 18 14:18	0 \circ \odot			9011 Mar 22 02:26	0° ∀	
	9006 Jun 25 15:18	$0^{\circ}\Omega$			9011 May 07 21:09	$0^{\circ}\mathbf{\Upsilon}$	
evening set	9006 Jul 20 02:46	19° Ω 01'13			9011 Jun 23 10:35	0°B	
	9006 Aug 03 11:20	o° mp			9011 Aug 09 09:56	$\Pi^{\circ}0$	
	9006 Sep 12 20:29	0∘ <u>⊽</u>			9011 Sep 28 10:16	0°ಅ	
				retrograde	9011 Dec 07 08:16	24°907'50	
conjunction	9006 Sep 22 10:42	6° £ 55'18	1°05'58	asc. node	9011 Dec 29 21:21	21°500'08	
minimum elong	9006 Sep 22 10:42 9006 Sep 22 09:58	6° ⊆ 54'00		min. Earth dist.	9012 Jan 04 12:48	19° © 32'05	0.36672 AU
minimum clong	9006 Oct 25 06:12	0°M	1 03 39	opposition	9012 Jan 06 13:12	18°959'43	0.30072 AO 0°35'49
Foodb died			2.52642 AII		9012 Jan 06 13:12 9012 Jan 06 11:34		
max. Earth dist.	9006 Oct 30 06:35		2.52643 AU	greatest brilliancy		19°500'49	-3.1m
morning rise	9006 Nov 17 08:35	15°M42'55		direct	9012 Feb 04 18:02	14° © 07'22	
	9006 Dec 08 21:23	0° ∡ 7			9012 Mar 30 04:47	Ω°	
	9007 Jan 24 19:37	0°る			9012 May 21 21:43	0° m/	
	9007 Mar 15 12:28	0° ≈			9012 Jul 08 15:54	0∘ ⊽	
desc. node	9007 Apr 16 01:02	17° ≈ 43'20			9012 Aug 24 23:45	0° M	
	9007 May 09 19:24	0° ∀			9012 Oct 11 16:03	0° ∡	
retrograde	9007 Jul 25 07:46	23°) 32'33			9012 Nov 28 11:42	0°₹	
opposition	9007 Aug 31 12:44	15°) €27'00	-4°27'30	desc. node	9012 Dec 05 15:14	4° る 29'49	
greatest brilliancy	9007 Sep 01 14:15	15°) €03'10	-1.7m	evening set	9012 Dec 07 16:47	5° る 47'50	
min. Earth dist.	9007 Sep 07 14:33	12°) 48′31	0.57790 AU	max. Earth dist.	9013 Jan 11 11:34	27° る 50'04	2.67151 AU
direct	9007 Oct 10 23:40	5°) 47′39			9013 Jan 14 20:58	0° ≈	
	9007 Dec 20 22:09	$0^{\circ}\mathbf{\Upsilon}$					
	9008 Feb 05 20:20	0° ႘		conjunction	9013 Jan 21 04:09	4° ≈ 01'48	-0°24'01
	9008 Mar 17 21:17	0° I I		minimum elong	9013 Jan 21 03:28	4° ≈ 00'42	
asc. node	9008 Mar 25 19:00	6° Ⅱ 00'29		Č	9013 Mar 02 06:13	0°) €	
	9008 Apr 25 21:12	0.00 0.00 0.00		morning rise	9013 Mar 06 00:48	2° ¥ 28'42	
	9008 Jun 03 13:52	0°Ω			9013 Apr 16 06:52	2 γ(20 1 2 0° γ	
	9008 Jul 13 02:31	0° m			9013 May 29 20:36	0°8	
		0∘ ʊ 0 ıılı				0°II	
avani	9008 Aug 23 05:19				9013 Jul 11 01:35		
evening set	9008 Sep 18 03:02	18° £ 12'43			9013 Aug 21 06:43	0° ⊙	
	9008 Oct 05 06:56	0°M₊			9013 Oct 01 08:30	0° N	
	0000 N 00 07 11	220W 2 ***	0050145	•	9013 Nov 13 09:28	0° Mp	
conjunction	9008 Nov 09 07:10	23°M26'37		asc. node	9013 Nov 15 19:26	1° Tp 35'03	
minimum elong	9008 Nov 09 08:29	23°M28'48	0°52'58		9014 Jan 06 11:00	0∘ ⊽	
	9008 Nov 19 06:49	0°⊀		retrograde	9014 Feb 09 03:16	7° ≏ 21'54	

i ratir	001434 00 04 42	10.0 5.4120	0.47064.411		0010 M 00 05 12	οοπ	
min. Earth dist.	9014 Mar 09 04:43	1° £ 54'29	0.47064 AU	E d E d	9019 May 09 05:12	0°II	2 27105 444
4 41 111	9014 Mar 14 14:22	30°R, Mp 200 m-2010 €	2.2	max. Earth dist.	9019 May 17 22:42	6°Щ48′03	2.37195 AU
greatest brilliancy	9014 Mar 16 00:54	29° m 29'05			0010 1 15 05 12	200H02H2	0017141
opposition	9014 Mar 17 16:36	28° m 53'42	5-31-31	conjunction	9019 Jun 15 05:12	29° Ⅱ 03'13 29° Ⅱ 06'38	
direct	9014 Apr 19 20:08	22°₯01'10 0° <u>₽</u>		minimum elong	9019 Jun 15 06:55 9019 Jun 16 09:55	29°Щ06′38 0° ©	0°16'56
	9014 May 28 11:27	0° M		aga mada		0°ഇ 17° ഇ 26'12	
	9014 Jul 30 03:50	0°1116 0° √ 7		asc. node	9019 Jul 08 10:22 9019 Jul 24 08:14	1/°926°12 0°Ω	
desc. node	9014 Sep 20 15:07	0 x . 19° ∡ 744'14		marning rigo		26° Ω 38'17	
desc. node	9014 Oct 23 16:15 9014 Nov 09 13:11	19 メ ・44 14		morning rise	9019 Aug 27 12:13 9019 Aug 31 21:13	20 3 (3817 0° m)	
	9014 Nov 09 13.11 9014 Dec 27 16:56	0°≈			9019 Aug 31 21:13 9019 Oct 10 20:42	0∘ ত اللا	
avanina aat						0°M	
evening set	9015 Jan 12 15:36	10°≈11'34	2 (1004 ATT		9019 Nov 22 00:40	0°11に 0° ス 7	
max. Earth dist.	9015 Feb 04 13:12	25°≈05'46 0°) €	2.61094 AU		9020 Jan 06 04:56	0° ਨ 0°ਰ	
	9015 Feb 11 23:28	υ π			9020 Feb 25 04:44	0° ≈	
agniumation	0015 Eab 27 05:20	10°) 11'17	0057!10	ratra ara da	9020 May 01 16:40	0°≈ 4°≈45'13	
conjunction	9015 Feb 27 05:30	10° X 11'17		retrograde	9020 May 31 14:02		
minimum elong	9015 Feb 27 04:23	10° π 09°24 0° Υ	0-3/11	desc. node	9020 Jun 14 18:36	3°≈28'48	
	9015 Mar 28 05:12			***	9020 Jun 28 01:58	30°Rる	0052125
morning rise	9015 Apr 15 18:49	13° Y 00'46		opposition	9020 Jul 10 17:06	25° る 18'35	
	9015 May 09 11:47	0°B 8°0		greatest brilliancy	9020 Jul 10 18:11	25°る17'31 24°る32'34	
	9015 Jun 19 01:45			min. Earth dist.	9020 Jul 12 15:52		0.67688 AU
	9015 Jul 28 10:59	0° ©		direct	9020 Aug 21 06:24	15° る 18'26	
1	9015 Sep 05 08:42	0° N			9020 Oct 16 18:33	0° ≈	
asc. node	9015 Oct 03 17:31	21° Ω 40′39			9020 Dec 11 20:31	0° ∀ 0° Υ	
	9015 Oct 14 19:01	0° Mp			9021 Jan 27 00:38		
	9015 Nov 25 06:42	0∘ 亚			9021 Mar 09 21:03	0° B	
	9016 Jan 11 03:53	0°M		1	9021 Apr 18 05:44	0°П	
retrograde	9016 Mar 23 19:03	25°M29'40	0.50760.411	asc. node	9021 May 25 10:01	29° Ⅱ 15'16	
min. Earth dist.	9016 Apr 26 20:17	17°M49'53	0.59760 AU		9021 May 26 08:37	0°©	
opposition	9016 May 02 11:20	15°M37'02		evening set	9021 Jun 20 16:45	20°9504'12	
greatest brilliancy	9016 May 01 16:04	15°M56'02	-1.6m		9021 Jul 03 07:06	0° N	
direct	9016 Jun 08 23:23	7°M00'21			9021 Aug 10 23:27	0° m)	
	9016 Aug 23 06:54	0° ⊀ ⁷			0001 4 00 00 16	1207 42110	0056140
desc. node	9016 Sep 09 17:54	8° ₹ 45'33		conjunction	9021 Aug 29 03:16	13° Mp 43'18	0°56'40
	9016 Oct 18 11:37	ිර ව		minimum elong	9021 Aug 29 00:37	13° m) 38'20	0°56'34
	9016 Dec 07 16:43	0°≈		D d E i	9021 Sep 20 04:03	0° 亞	2 47405 444
	9017 Jan 23 12:09	0° ∀		max. Earth dist.	9021 Oct 14 20:47	17° Ω 44'00	2.47405 AU
evening set	9017 Feb 20 05:47	18°) (42′02	2 50000 177	morning rise	9021 Oct 29 12:04	27° ♀ 59'04	
max. Earth dist.	9017 Mar 06 13:37		2.50098 AU		9021 Nov 01 09:54	0°M√	
	9017 Mar 08 12:14	0° Y			9021 Dec 16 00:36	0° ⊼	
	0017 4 10 07 16	2.400050120	1005140		9022 Feb 01 08:01	%ರ	
conjunction	9017 Apr 12 07:16	24°Υ58'20			9022 Mar 24 13:06	0° ≈	
minimum elong	9017 Apr 12 08:05	24° Y 59'49	1°05'55	desc. node	9022 May 02 16:39	20°≈04'38	
	9017 Apr 19 03:13	0° 8			9022 May 26 10:33	0°) {	
	9017 May 28 21:41	0°II		retrograde	9022 Jul 08 07:32	8° ¥ 54'33	
morning rise	9017 Jun 10 02:13	9° Ⅱ 24'13		opposition	9022 Aug 15 15:55	0°) 19'39	
	9017 Jul 06 11:52	0° ©		greatest brilliancy	9022 Aug 16 07:37	0°) €04'39	-1.5m
i	9017 Aug 13 16:43	0° Ω		i matra	9022 Aug 16 12:29	30°R≈	0.61001.444
asc. node	9017 Aug 20 14:06	5° Ω 23'34		min. Earth dist.	9022 Aug 21 08:49	28°≈08'52	0.61821 AU
	9017 Sep 21 09:20	0° m		direct	9022 Sep 25 20:54	20° ≈ 23'37	
	9017 Oct 31 13:23	0∘ 亚			9022 Nov 07 07:05	0°) €	
	9017 Dec 13 10:18	0°M			9023 Jan 02 13:16	0° Υ	
	9018 Jan 30 09:37	0° ∡ 7			9023 Feb 15 16:42	0° 8	
	9018 Apr 10 08:55	0°る		1	9023 Mar 27 20:52	0°Ⅱ 120Ⅲ02150	
retrograde	9018 Apr 28 09:52	1°る56'06		asc. node	9023 Apr 12 11:32	12° Ⅱ 03'58	
	9018 May 15 11:15	30°R.✓	0.66071.477		9023 May 05 10:05	0° ©	
min. Earth dist.	9018 Jun 06 03:19	22° 🖈 45'15	0.66971 AU		9023 Jun 12 18:17	0° N	
opposition	9018 Jun 07 23:36	22° × 701'08	1°43'59		9023 Jul 21 22:19	0° Mp	
greatest brilliancy	9018 Jun 07 21:11	22°× 7 03'33	-1.3m	evening set	9023 Aug 28 23:37	28° m 03'40	
direct	9018 Jul 18 05:24	12° ₹ 28'21			9023 Aug 31 16:13	0∘ 亚	
desc. node	9018 Jul 28 18:52	13° ₹ 07'12			9023 Oct 13 09:53	0°M₊	
	9018 Sep 20 06:07	0°る					
	9018 Nov 16 09:33	0° ≈		conjunction	9023 Oct 24 01:46	7°M16'01	1°02'15
	9019 Jan 04 01:17	0°) €		minimum elong	9023 Oct 24 02:52	7°M17'52	1°02'24
	9019 Feb 17 10:30	0° Υ		max. Earth dist.	9023 Nov 18 05:32	24°M06'05	2.59496 AU
_	9019 Mar 30 20:33	0° 8			9023 Nov 27 04:32	0° ∡ 7	
evening set	9019 Apr 11 21:35	9° 8 02'45		morning rise	9023 Dec 12 23:53	10° ∡ 17'47	

	9024 Jan 12 19:27	0°₹			9029 Mar 14 06:12	30° ₹ Ω	
	9024 Mar 01 03:23	0° ≈		direct	9029 Mar 24 15:22	29° Ω 15'49	
desc. node	9024 Mar 19 12:18	11° ≈ 05'45			9029 Apr 04 08:20	0° m)	
	9024 Apr 20 17:43	0° ℋ			9029 Jun 18 13:07	0∘ ⊽	
	9024 Jun 16 01:30	0 ° $\mathbf{\Upsilon}$			9029 Aug 09 22:40	0° M	
retrograde	9024 Aug 24 19:12	20° Ƴ 31'09			9029 Sep 28 20:22	0° ∡ ¹	
opposition	9024 Sep 28 13:11	13° Y 26'41	-5°35'01	desc. node	9029 Nov 09 04:40	25° ∡ 19'58	
greatest brilliancy	9024 Sep 30 05:58	12° Y 50′53	-2.1m		9029 Nov 16 17:37	0°₹	
min. Earth dist.	9024 Oct 07 02:40	10° Ƴ 27'11	0.49944 AU	evening set	9029 Dec 29 13:13	26° ප 50'48	
direct	9024 Nov 05 16:59	4° Ƴ 45'23			9030 Jan 03 12:10	0° ≈	
	9025 Jan 14 17:52	0°8		max. Earth dist.	9030 Jan 25 21:20	14° ≈ 22'39	2.64091 AU
asc. node	9025 Feb 27 11:50	28° 8 59'54					
	9025 Feb 28 21:30	$\Pi^{\circ}0$		conjunction	9030 Feb 12 07:32	25° ≈ 44'49	-0°46'08
	9025 Apr 10 12:46	0°95		minimum elong	9030 Feb 12 06:25	25° ≈ 42'58	0°45'57
	9025 May 20 06:36	$0^{\circ}\Omega$			9030 Feb 18 18:28	0°) €	
	9025 Jun 29 16:04	0° m)		morning rise	9030 Mar 29 19:41	26° ₩ 15'53	
	9025 Aug 10 13:22	0∘ ಹ		morning rise	9030 Apr 04 06:13	0°Υ	
	9025 Sep 23 06:41	0°M			9030 May 16 22:52	%8 0.8	
avanina aat	9025 Oct 16 11:26	15°M26'30			9030 Jun 27 01:07	0°II	
evening set		13 II62030 0° √				0°©	
	9025 Nov 07 17:16	0,×,			9030 Aug 05 23:02		
					9030 Sep 14 09:52	0° Ω	
conjunction	9025 Dec 03 12:59	16° ₹ 39'43	0°31'49	asc. node	9030 Oct 20 11:05	27° Ω 00'01	
minimum elong	9025 Dec 03 13:57	16° ∡ 741′16	0°32'03		9030 Oct 24 13:18	0° m p	
max. Earth dist.	9025 Dec 12 09:15	22° х 19'19	2.66530 AU		9030 Dec 06 14:01	0ಂ ರ	
	9025 Dec 24 10:13	0°₹			9031 Jan 29 14:45	0°M₊	
morning rise	9026 Jan 17 10:14	15° る 13'25		retrograde	9031 Mar 09 05:58	8°M57'50	
desc. node	9026 Feb 04 08:03	26° る 32'08		min. Earth dist.	9031 Apr 10 01:02	2°M05'15	0.55274 AU
	9026 Feb 09 19:56	0° ≈			9031 Apr 15 11:26	30° ₹ Ω	
	9026 Mar 29 12:48	0° ℋ		greatest brilliancy	9031 Apr 15 20:41	29° ≙ 51'03	-1.9m
	9026 May 16 13:36	0 \circ Υ		opposition	9031 Apr 17 01:17	29° ≏ 23'26	4°58'44
	9026 Jul 04 15:41	9° 8		direct	9031 May 23 01:26	21° ≏ 20'14	
	9026 Aug 26 18:33	$\Pi^{\circ}0$			9031 Jul 03 11:14	0° M .	
retrograde	9026 Nov 04 13:49	22° Ⅲ 23′16			9031 Sep 05 00:07	0° ∡ ¹	
opposition	9026 Dec 04 13:04	17° Ⅲ 23'31	-3°05'38	desc. node	9031 Sep 27 06:20	12° √ 19'51	
greatest brilliancy	9026 Dec 05 03:55	17° Ⅱ 13'22			9031 Oct 27 17:59	0°ಕ	
min. Earth dist.	9026 Dec 08 11:35	16° Ⅱ 19'03	0.37566 AU		9031 Dec 15 22:33	0° ≈	
direct	9027 Jan 04 11:30	11° II 58'57			9032 Jan 31 11:08	0°) €	
asc. node	9027 Jan 15 13:31	12° Ⅱ 49'47		evening set	9032 Feb 05 00:58	3°) €02'27	
asc. node	9027 Mar 02 07:12	0°9		max. Earth dist.	9032 Feb 22 00:23		2.54912 AU
	9027 Apr 20 13:28	$0 {\circ} \Omega$		max. Earth dist.	9032 Mar 15 12:32	0°Υ	2.54712 AO
	9027 Apr 20 13:28 9027 Jun 04 12:06	0° mp			7032 Wai 13 12.32	0 1	
	9027 Jul 19 08:13	0° ت		agniumation	0022 Mar 24 05:41	6° Ƴ 07'40	1907!15
		0°M		conjunction	9032 Mar 24 05:41	6° Υ 07'04	
	9027 Sep 03 03:02 9027 Oct 19 22:11	0° √ 1		minimum elong	9032 Mar 24 05:20		1 0/14
. ,					9032 Apr 26 08:38	0°8	
evening set	9027 Nov 24 15:54	22° ₹ 38'42		morning rise	9032 May 16 08:26	14° 8 50'10	
	9027 Dec 06 07:00	0°る			9032 Jun 05 09:37	0°II	
desc. node	9027 Dec 23 05:05	10°る42'23	2 (0050 17)		9032 Jul 14 05:48	0°©	
max. Earth dist.	9028 Jan 03 16:12	17°658'36	2.68059 AU		9032 Aug 21 15:30	0° Ω	
		-		asc. node	9032 Sep 06 07:06	12° Ω 10′03	
conjunction	9028 Jan 08 12:24	21° ろ 03'04			9032 Sep 29 12:22	0° m p	
minimum elong	9028 Jan 08 12:08	21° る 02'40	0°08'19		9032 Nov 08 22:57	0ಂ ರ	
behind sun begin	9028 Jan 07 20:11	20° る 37'21			9032 Dec 22 14:31	0°M₊	
behind sun end	9028 Jan 09 04:05	21° る 28'00			9033 Feb 11 20:01	0° ∡ ¹	
	9028 Jan 22 13:45	0° ≈		retrograde	9033 Apr 15 00:35	18° ∡ ⁴41'43	
morning rise	9028 Feb 21 00:59	18° ≈ 54'09		min. Earth dist.	9033 May 22 02:13	10° ∡ 02'11	0.64902 AU
	9028 Mar 09 04:05	0° ℋ		opposition	9033 May 25 10:03	8° ∡ ¹42'38	2°43'30
	9028 Apr 23 17:47	$0^{\circ}\mathbf{\Upsilon}$		greatest brilliancy	9033 May 25 02:45	8° ∡ ¹49'55	-1.4m
	9028 Jun 07 04:18	9° 8			9033 Jun 24 13:52	30°RM₊	
	9028 Jul 20 13:59	$\Pi^{\circ}0$		direct	9033 Jul 03 18:00	29°M27'55	
	9028 Sep 01 09:35	0ಂತಾ			9033 Jul 13 07:11	0° ∡ ¹	
	9028 Oct 15 01:15	$0^{\circ}\Omega$		desc. node	9033 Aug 14 08:21	7° ∡ ¹52'39	
asc. node	9028 Dec 02 14:18	29° Ω 00'54			9033 Oct 02 13:25	0°⋜	
	9028 Dec 04 14:32	0° m			9033 Nov 24 19:13	0° ≈	
retrograde	9029 Jan 18 09:14	12° m/22'13			9034 Jan 11 12:22	0°) €	
min. Earth dist.	9029 Feb 13 15:25	7° Mp 44'12	0.41683 AU		9034 Feb 24 16:29	$0^{\circ}\Upsilon$	
greatest brilliancy	9029 Feb 20 03:06	5° m 39'15		evening set	9034 Mar 21 03:25	17° Y 29'14	
opposition	9029 Feb 21 13:54	5° Mp 11'06		max. Earth dist.	9034 Apr 06 05:07	29° Y 17'59	2.41849 AU
-FF	,	,, 1100		dibt.	pr 00 00.07	=	

	9034 Apr 07 03:45	9° 8			9039 Jul 12 08:13	0 ° $\mathbf{\Upsilon}$	
	9034 May 16 15:42	Π $^{\circ}0$		retrograde	9039 Aug 04 22:10	3° Ƴ 00'41	
					9039 Aug 26 19:55	30° ₹ ₩	
conjunction	9034 May 18 07:19	1° Ⅱ 16'41	-0°44'36	opposition	9039 Sep 10 08:06	25° ∺ 14'20	-4°56'33
minimum elong	9034 May 18 10:07	1° Ⅱ 22'07		greatest brilliancy	9039 Sep 11 15:33	24°) 45'25	
mmmum viong	9034 Jun 23 23:21	0.00	0 11 10	min. Earth dist.	9039 Sep 18 01:16	22°)(24'26	0.55209 AU
asc. node	9034 Jul 25 04:30	24° © 39'28		direct	9039 Oct 20 03:35	15° ¥ 50'01	0.33207710
				direct		13 γ (3001	
morning rise	9034 Jul 26 23:44	26°904'41			9039 Dec 10 05:15		
	9034 Jul 31 23:16	0 ° Ω			9040 Jan 29 20:55	0°8	
	9034 Sep 08 12:24	0°Щ			9040 Mar 11 20:20	Π °0	
	9034 Oct 18 11:33	0∘ ⊽		asc. node	9040 Mar 16 05:04	3° Ⅱ 15'57	
	9034 Nov 29 18:07	0°M₊			9040 Apr 20 06:04	0	
	9035 Jan 14 12:40	0° ∡ ¹			9040 May 29 05:04	0 $^{\circ}$ Ω	
	9035 Mar 08 03:58	5°0			9040 Jul 07 22:59	0° m)	
retrograde	9035 May 19 04:05	22° る 16'56			9040 Aug 18 06:22	0∘ ত	
opposition	9035 Jun 28 14:40	12° る 36'37	0°07'46	evening set	9040 Sep 29 00:03	28° £ 58'56	
greatest brilliancy	9035 Jun 28 14:50	12° る 36'27	-1.3m	· ·	9040 Sep 30 12:01	0° M .	
min. Earth dist.	9035 Jun 29 01:57	12° る 25'26	0.68194 AU		9040 Nov 14 14:26	0° ∡ 7	
desc. node	9035 Jul 02 08:48	12 3 23 20	0.001)4 AC		7040 NOV 14 14.20	0 x	
	9035 Aug 08 19:30	2°る44'04		agniumation	0040 Nov. 19, 11,05	20.721104	0°45'40
direct	Č			conjunction	9040 Nov 18 11:05	2°×731'04	
	9035 Oct 31 00:21	0° ≈		minimum elong	9040 Nov 18 12:22	2° × ⁷ 33'09	
	9035 Dec 21 17:36	0° ∀		max. Earth dist.	9040 Dec 03 04:35	12° ∡ ¹03'57	2.64428 AU
	9036 Feb 04 22:54	0 ° Υ			9040 Dec 31 04:43	0°₹	
	9036 Mar 17 13:15	8° 0		morning rise	9041 Jan 03 18:42	2° る 16'36	
	9036 Apr 25 20:59	Π $^{\circ}0$			9041 Feb 16 19:52	0°≈	
evening set	9036 May 21 21:21	20° Ⅲ 25′08		desc. node	9041 Feb 20 22:32	2° ≈ 33'52	
	9036 Jun 02 23:49	0 \circ \odot			9041 Apr 06 07:41	0° ∀	
asc. node	9036 Jun 11 01:53	6°€24'38			9041 May 26 05:34	$0^{\circ}\mathbf{\Upsilon}$	
	9036 Jul 10 21:29	$0^{\circ}\Omega$			9041 Jul 19 06:38	0°B	
				retrograde	9041 Oct 04 00:13	24° 8 50'14	
conjunction	9036 Jul 31 23:00	16° Ω 29'02	0°34'50	opposition	9041 Nov 04 17:46	19° 8 06'33	-5°13'07
minimum elong	9036 Jul 31 19:47	16° Ω 22'48	0°34'35	greatest brilliancy	9041 Nov 06 07:35	18° 8 37'43	
minimum ciong	9036 Aug 18 11:37	0° Mp	0 3433	min. Earth dist.	9041 Nov 12 10:31	16° 8 46'54	0.41551 AU
F 41 F 4	•		2 41700 ATT				0.41331 AU
max. Earth dist.	9036 Sep 22 23:04		2.41798 AU	direct	9041 Dec 08 18:15	12° 8 19'34	
	9036 Sep 27 12:52	0∘ ʊ		asc. node	9042 Feb 01 05:53	29° 8 24'39	
morning rise	9036 Oct 07 16:11	7° ≏ 22'08			9042 Feb 02 08:01	Π °0	
	9036 Nov 08 16:03	0°M₊			9042 Mar 22 01:13	0ංම	
	9036 Dec 23 08:23	0°⊀			9042 May 03 16:28	0 $^{\circ}\Omega$	
	9037 Feb 09 06:51	0°ප			9042 Jun 14 22:01	0° m)	
	9037 Apr 04 01:38	0° ≈			9042 Jul 28 03:46	0∘ ट	
desc. node	9037 May 19 06:57	19° ≈ 14'18			9042 Sep 10 21:29	0° M	
retrograde	9037 Jun 22 20:08	25° ≈ 19′29			9042 Oct 27 00:37	0° ∡ ¹	
opposition	9037 Aug 01 01:27	16° ≈ 20'53	-2°30'36	evening set	9042 Nov 10 02:43	9° ∡ ′01'36	
greatest brilliancy	9037 Aug 01 09:27	16°≈13'07	-1.4m	Č	9042 Dec 13 01:19	0°⋜	
min. Earth dist.	9037 Aug 05 07:31	14° ≈ 41'51	0.64907 AU				
direct	9037 Sep 11 15:17	6°≈17'56	***************************************	conjunction	9042 Dec 25 19:53	8° ට 06'24	0°07'21
direct	9037 Nov 23 23:16	0° ∀		minimum elong	9042 Dec 25 20:08	8° ろ 06'47	0°07'36
	9038 Jan 12 16:48	0° Υ		J		7° る 40'31	0 07 30
		0° 8		behind sun begin	9042 Dec 25 03:34 9042 Dec 26 12:42	8°る33'03	
	9038 Feb 24 12:52			behind sun end			
•	9038 Apr 05 05:52	0° П		max. Earth dist.	9042 Dec 26 02:56	8° る 17'33	2.68111 AU
asc. node	9038 Apr 29 02:35	18° Ⅲ 37'48		desc. node	9043 Jan 08 18:31	16° る 57'08	
	9038 May 13 12:53	0 \circ \odot			9043 Jan 29 07:27	0° ≈	
	9038 Jun 20 15:33	$0^{\circ}\Omega$		morning rise	9043 Feb 07 12:36	5° ≈ 51'59	
	9038 Jul 29 13:30	0° m)			9043 Mar 17 05:27	0° ∀	
evening set	9038 Aug 04 13:46	4° Mp 32'31			9043 May 02 12:23	0° Y	
	9038 Sep 08 00:40	0∘ ⊽			9043 Jun 17 03:49	$_{0\circ}$ 8	
					9043 Aug 01 10:45	Π°	
conjunction	9038 Oct 04 17:17	19° ≏ 01'37	1°06'43		9043 Sep 16 11:23	0ංම	
minimum elong	9038 Oct 04 17:27	19° Ω 01'55	1°06'47		9043 Nov 07 17:41	0°Ω	
	9038 Oct 20 12:11	0°M		asc. node	9043 Dec 20 05:44	12° Ω 37'21	
max. Earth dist.	9038 Nov 06 17:40	11°M45'11	2.55311 AU	retrograde	9043 Dec 24 08:57	$12^{\circ} \Omega 44'36$	
			2.33311 AU	•			0.27702 411
morning rise	9038 Nov 27 03:10	25°M22'57		min. Earth dist.	9044 Jan 19 19:18		0.37702 AU
	9038 Dec 04 03:21	0° ∡ 7		opposition	9044 Jan 24 17:01	7° Ω 01'35	2°37'14
	9039 Jan 19 21:24	5°0		greatest brilliancy	9044 Jan 24 03:30	7° Ω 11'10	-3.0m
	9039 Mar 09 22:51	0° ≈		direct	9044 Feb 23 05:47	1° Ω 57'11	
desc. node	9039 Apr 06 03:21	15° ≈ 48′25			9044 May 11 19:03	0° m)	
	9039 May 01 22:44	0°) €			9044 Jul 01 16:50	0∘ ⊽	

	9044 Aug 19 07:06	0° M .			9049 Jul 01 13:08	0°9	
	9044 Oct 06 14:34	0° ⊼ ⊓		greatest brilliancy	9049 Jul 12 07:43	8° 9 28'54	1.2m
	9044 Nov 23 17:58	°ਤ ਹ°ਤ		greatest similare	9049 Aug 08 15:42	0° Ω	1.2111
desc. node	9044 Nov 25 17:47	1°る14'53		asc. node	9049 Aug 10 20:43	1° Ω 44'02	
evening set	9044 Dec 15 15:47	13° ₹ 45'51			9049 Sep 16 06:20	0°m	
<i>8</i>	9045 Jan 10 06:03	0° ≈			9049 Oct 26 07:14	$0 \circ \overline{\mathbf{v}}$	
max. Earth dist.	9045 Jan 16 16:51	4° ≈ 07'30	2.66287 AU		9049 Dec 07 20:15	0°M	
					9050 Jan 23 16:28	0° ∡ ¹	
conjunction	9045 Jan 29 02:40	12° ≈ 06'16	-0°32'39		9050 Mar 23 07:22	0°ಕ	
minimum elong	9045 Jan 29 01:46	12° ≈ 04'49	0°32'26	retrograde	9050 May 05 23:43	9° ප 45'03	
	9045 Feb 25 14:04	0°) €		opposition	9050 Jun 15 13:19	29° ₰ 54′20	1°08'41
morning rise	9045 Mar 14 09:10	11° ∺ 06'49		min. Earth dist.	9050 Jun 14 12:55	0° る 18'37	0.67696 AU
	9045 Apr 11 10:09	$0^{\circ}\mathbf{\Upsilon}$			9050 Jun 15 07:37	30°₹ ৴	
	9045 May 24 15:55	9° 8		greatest brilliancy	9050 Jun 15 12:34	29° ₹ 55'04	-1.3m
	9045 Jul 05 10:29	$\Pi^{\circ}0$		desc. node	9050 Jul 18 21:57	20° х 33′22	
	9045 Aug 15 02:19	0 \circ \odot		direct	9050 Jul 26 04:32	20° х 13′29	
	9045 Sep 24 09:53	$0^{\circ}\Omega$			9050 Sep 09 12:28	0°₹	
	9045 Nov 04 22:05	0° m ∕			9050 Nov 10 07:41	0°≈	
asc. node	9045 Nov 06 04:56	0° m 53′44			9050 Dec 29 21:11	0° ∀	
	9045 Dec 21 20:50	0∘ ⊽			9051 Feb 12 13:28	0° Υ	
retrograde	9046 Feb 20 00:25	20° £ 01'57			9051 Mar 26 01:20	0° 8	
min. Earth dist.	9046 Mar 21 08:44	14° ≙ 03'33	0.50095 AU	evening set	9051 Apr 25 13:56	23° 8 09'46	
greatest brilliancy	9046 Mar 27 23:24	11° ≙ 37'45			9051 May 04 09:55	Π °0	
opposition	9046 Mar 29 12:27	11° ≙ 03'27	5°29'11		9051 Jun 11 13:45	0°9	
direct	9046 May 02 18:53	3° £ 42'51		asc. node	9051 Jun 28 19:34	13° © 40'01	
	9046 Jul 21 20:12	0° M 0°. ₹			0051 1 1 00 06 01	1.60503100	0000133
	9046 Sep 14 17:26	0° ⊀ 7		conjunction	9051 Jul 02 06:01	16°523'20	0°02'32
desc. node	9046 Oct 13 19:20	17° オ 00'18 0°る		minimum elong	9051 Jul 02 05:43	16°522'44	0°02'16
	9046 Nov 04 11:26	0°≈		behind sun begin	9051 Jun 30 23:22	15° © 22'38 17° © 22'49	
evening set	9046 Dec 22 23:12 9047 Jan 20 22:45	0°≈ 18°≈35'19		behind sun end	9051 Jul 03 12:04 9051 Jul 19 11:13	1/°962249 0°Ω	
evening set	9047 Jan 20 22.43 9047 Feb 07 07:46	0° \		max. Earth dist.	9051 Jul 19 11:13 9051 Aug 05 02:02		2.36900 AU
max. Earth dist.	9047 Feb 10 14:29		2.59075 AU	max. Earth dist.	9051 Aug 05 02:02 9051 Aug 26 23:43	0° m	2.30900 AC
max. Lattii dist.)04/1C0 10 14.2)	2 /(103/	2.37073 AO	morning rise	9051 Sep 12 22:31	12° m 53'35	
conjunction	9047 Mar 08 06:18	19° ¥ 28'58	-1°02'18	morning rise	9051 Oct 05 22:33	೧ಂ ರ	
minimum elong	9047 Mar 08 05:20	19° ∺ 27′20			9051 Nov 17 00:32	o° m .	
8	9047 Mar 23 12:11	0°Υ			9051 Dec 31 21:55	0° ∡ 7	
morning rise	9047 Apr 26 10:16	24° Ƴ 03'03			9052 Feb 18 21:11	0°る	
5 5	9047 May 04 15:06	0°8			9052 Apr 17 20:22	0° ≈	
	9047 Jun 14 00:32	Π°		desc. node	9052 Jun 04 21:14	12° ≈ 23′28	
	9047 Jul 23 04:55	0ංම		retrograde	9052 Jun 08 12:14	12° ≈ 28′10	
	9047 Aug 30 21:43	$0^{\circ}\Omega$		opposition	9052 Jul 18 08:37	3° ≈ 10′33	-1°29'32
asc. node	9047 Sep 24 01:01	18° Ω 35'07		greatest brilliancy	9052 Jul 18 11:27	3° ≈ 07'46	-1.3m
	9047 Oct 09 01:50	0° m)		min. Earth dist.	9052 Jul 21 03:10	2° ≈ 05'19	0.66982 AU
	9047 Nov 19 00:40	0∘ ⊽			9052 Jul 26 13:32	30°Rる	
	9048 Jan 03 04:29	0°M₊		direct	9052 Aug 28 23:24	23° る 07'59	
	9048 Mar 04 12:32	0° ∡ ¹			9052 Oct 04 08:40	0° ≈	
retrograde	9048 Apr 01 02:49	4° ≯ ³34'41			9052 Dec 05 10:24	0° ∀	
	9048 Apr 26 21:53	30°RM₊			9053 Jan 21 14:18	0° Υ	
min. Earth dist.	9048 May 06 07:10	26°M31'49	0.61846 AU		9053 Mar 04 18:13	0° 8	
greatest brilliancy	9048 May 10 12:04	24°M51'50	-1.6m		9053 Apr 13 05:52	0°II	
opposition	9048 May 11 02:31	24°M37'29	3°40'42	greatest brilliancy	9053 May 06 22:15	18° Ⅲ 32'53	1.2m
direct	9048 Jun 18 07:29	15°M45'43		asc. node	9053 May 15 19:36	25° Ⅱ 33'59	
JJ.	9048 Aug 13 14:55	0°⊀ 7 79. 7 4.615.4			9053 May 21 10:05	$0 {\circ} {\mathcal U}$	
desc. node	9048 Aug 30 20:53	7° ∡ 746'54		avanina aat	9053 Jun 28 09:34		
	9048 Oct 12 12:06 9048 Dec 02 14:53	0°る 0°≈		evening set	9053 Jul 07 11:30 9053 Aug 06 03:07	7° Ω 06'37 0° m	
	9048 Dec 02 14.33 9049 Jan 18 17:36	0 ≈ 0° ∺			7033 Aug 00 03.0/	עווי	
evening set	9049 Mar 02 02:36	28° ∺ 48'20		conjunction	9053 Sep 12 07:43	27° m 46'33	1°03'22
J. Ching Set	9049 Mar 03 19:29	20 γ (40 20		minimum elong	9053 Sep 12 07:43 9053 Sep 12 06:11		1°03'20
max. Earth dist.	9049 Mar 15 16:59	8° Υ 25'11	2.47191 AU	ciong	9053 Sep 12 00:11 9053 Sep 15 08:52	27 IIV4343 0° ⊡	1 03 20
Zurur dist.	9049 Apr 14 09:18	0° 8	2,171710	max. Earth dist.	9053 Oct 24 05:25		2.50356 AU
					9053 Oct 27 05:25 9053 Oct 27 15:16	0°M	
conjunction	9049 Apr 24 07:58	7° 8 24'14	-1°01'10	morning rise	9053 Nov 09 12:24	8°M50'16	
minimum elong	9049 Apr 24 09:37	7° 8 27'20		5	9053 Dec 11 04:28	0° ∡ 7	
3	9049 May 24 01:31	0°Ⅲ			9054 Jan 27 04:42	0°ರ	
morning rise	9049 Jun 26 01:04	25° Ⅱ 40'34			9054 Mar 18 09:08	0° ≈	
-							

desc. node	9054 Apr 22 17:47	19° ≈ 16′31			9059 May 28 01:38	0° m y	
	9054 May 14 20:03	0° ∀			9059 Jul 13 06:34	0∘ ত	
retrograde	9054 Jul 17 18:50	17°) (34'44			9059 Aug 28 19:18	0° M ₊	
opposition	9054 Aug 24 12:20	9° ∺ 15'14	-4°04'05		9059 Oct 15 00:51	0° ∡ 7	
greatest brilliancy	9054 Aug 25 09:23	8° ¥ 55'20	-1 6m		9059 Dec 01 15:18	ರ°0	
min. Earth dist.	9054 Aug 30 23:39		0.59710 AU	evening set	9059 Dec 02 17:20	0° る 41'01	
iiiii. Lartii dist.	9054 Sep 25 06:17	30°R≈	0.57710710	desc. node	9059 Dec 13 07:18	7° る 21'46	
1:4	•						2.67661 AII
direct	9054 Oct 04 08:08	29° ≈ 26'45		max. Earth dist.	9060 Jan 08 17:16	24 000 02	2.67661 AU
	9054 Oct 13 15:01	0°) €					
	9054 Dec 26 01:44	0° Υ		conjunction	9060 Jan 16 07:29	28° ප් 56'11	
	9055 Feb 09 15:16	0°8		minimum elong	9060 Jan 16 06:58	28° る 55'22	0°17'27
	9055 Mar 22 07:00	Π $^{\circ}0$			9060 Jan 17 23:30	0° ≈	
asc. node	9055 Apr 02 20:00	8° ∏ 50′34		morning rise	9060 Feb 28 23:00	27° ≈ 03'15	
	9055 Apr 30 01:53	0 \circ \odot			9060 Mar 04 11:21	0°) €	
	9055 Jun 07 14:01	$0^{\circ}\Omega$			9060 Apr 18 18:09	$0^{\circ}\mathbf{\Upsilon}$	
	9055 Jul 16 21:49	0° m)			9060 Jun 01 16:58	0° ႘	
	9055 Aug 26 19:16	0∘ <u>∿</u>			9060 Jul 14 09:59	0°II	
evening set	9055 Sep 10 07:44	10° ≏ 19'25			9060 Aug 25 05:41	0.ee	
evening set	9055 Oct 08 15:56	0°M			9060 Oct 06 04:05	0°N	
	9033 Oct 08 13.30	O IIG					
. ,.	005531 02 02 20	150M 10105	0057112	1	9060 Nov 20 02:01	0° Mp	
conjunction	9055 Nov 03 02:30	17°M10'25		asc. node	9060 Nov 22 21:17	1° m/42'32	
minimum elong	9055 Nov 03 03:47	17°M12'35	0°57'24	retrograde	9061 Jan 31 04:05	27° m 32'03	
	9055 Nov 22 12:07	0° ∡		min. Earth dist.	9061 Feb 27 06:02	22° Mp 28'55	0.44605 AU
max. Earth dist.	9055 Nov 24 06:09	1° ≯ 08'51	2.61472 AU	greatest brilliancy	9061 Mar 06 02:35	20° Mp 08'58	-2.5m
morning rise	9055 Dec 21 12:30	18° ∡ ⁴48'45		opposition	9061 Mar 07 18:04	19° m 35'06	5°24'04
	9056 Jan 08 01:30	8°0		direct	9061 Apr 08 23:33	13° m 07'24	
	9056 Feb 25 01:24	0° ≈			9061 Jun 07 11:15	0∘ ⊽	
desc. node	9056 Mar 09 13:22	8° ≈ 16'29			9061 Aug 03 04:35	0° M	
	9056 Apr 14 16:52	0° ∀			9061 Sep 23 09:46	0° ∡ ¹	
	9056 Jun 06 19:18	0° Υ		desc. node	9061 Oct 30 07:56	22° х 19′18	
	9056 Aug 18 15:57	0°8		desc. node	9061 Nov 11 20:33	0°る	
ratragrada	9056 Sep 07 00:29	2° 8 07'48			9061 Dec 29 20:39	0° ≈	
retrograde	•	2 3 07 48		avanina aat			
	9056 Sep 25 10:07	•	50 4011 5	evening set	9062 Jan 06 13:11	4°≈54'01	0.60540.477
opposition	9056 Oct 10 18:40	25° Y 29'59		max. Earth dist.	9062 Jan 31 11:00	20°≈59'34	2.62542 AU
greatest brilliancy	9056 Oct 12 14:02	24° Y 53'18			9062 Feb 14 03:56	0° ∀	
min. Earth dist.	9056 Oct 19 11:20	22° Y 35'00	0.46899 AU				
direct	9056 Nov 16 16:13	17° Y ′22'33		conjunction	9062 Feb 20 16:37	4° 升 19'50	
	9057 Jan 01 22:04	0°8		minimum elong	9062 Feb 20 15:28	4° 升 17'55	0°52'51
asc. node	9057 Feb 17 21:33	27° 8 57'03			9062 Mar 30 13:24	0° Y	
	9057 Feb 20 22:00	$\Pi^{\circ}0$		morning rise	9062 Apr 08 05:10	6° Y ′00′28	
	9057 Apr 03 20:50	0 \circ \odot			9062 May 12 01:12	0°B	
	9057 May 14 06:36	$0^{\circ}\Omega$			9062 Jun 21 21:09	$\Pi^{\circ}0$	
	9057 Jun 24 03:13	0° m/y			9062 Jul 31 11:58	0°ಅ	
	9057 Aug 05 09:09	0∘ ⊽			9062 Sep 08 14:36	$0^{\circ}\Omega$	
	9057 Sep 18 09:11	0°M		asc. node	9062 Oct 10 19:09	24° Ω 25'46	
evening set	9057 Oct 25 17:44	24°M37'30		ase. Houe	9062 Oct 18 06:29	0°m)	
evening set	9057 Nov 03 00:22	24 11€3730 0° √ 7			9062 Nov 29 04:44	0∘ ত بابا	
	9037 NOV 03 00.22	0 🗴					
	00555	240 75405	0000101		9063 Jan 16 20:18	0°M	
conjunction	9057 Dec 11 19:18	24° ₹ 54'25		retrograde	9063 Mar 18 07:48	19° ™ 07'49	
minimum elong	9057 Dec 11 20:01	24° ₹ 55'34		min. Earth dist.	9063 Apr 20 09:29	11° M 47'45	0.57866 AU
max. Earth dist.	9057 Dec 17 12:33	28° ∡ 32'59	2.67327 AU	opposition	9063 Apr 26 15:23	9°M21'18	4°33'04
	9057 Dec 19 19:15	0°₹		greatest brilliancy	9063 Apr 25 16:03	9° ™ 44'09	-1.7m
morning rise	9058 Jan 25 03:10	23° る 02'49		direct	9063 Jun 02 11:43	0° M 58′32	
desc. node	9058 Jan 25 09:50	23° る 13'22			9063 Aug 28 16:11	0° ∡ 7	
	9058 Feb 05 02:46	0° ≈		desc. node	9063 Sep 17 09:40	10° ∡ 23′29	
	9058 Mar 24 11:36	0° ∀			9063 Oct 22 05:53	ა∘ნ	
	9058 May 10 18:26	$0^{\circ}\mathbf{Y}$			9063 Dec 11 00:50	0° ≈	
	9058 Jun 27 06:24	0°8			9064 Jan 26 18:23	0°) €	
	9058 Aug 15 04:18	0°II		evening set	9064 Feb 14 02:03	12°) 15'34	
	•	0°©		max. Earth dist.		22°) 46'41	2.52328 AU
natra an- J-	9058 Oct 10 22:47			max. Earth dist.	9064 Feb 29 11:06	22° Υ 46'41 0° Υ	2.32328 AU
retrograde	9058 Nov 23 02:12	10°521'59	1005125		9064 Mar 10 20:25	0-1	
opposition	9058 Dec 22 22:27	5°\$26'25			0064	1.000	100
greatest brilliancy	9058 Dec 23 00:49	5° © 24'51	-3.1m	conjunction	9064 Apr 03 17:15	16° Y 57'35	
min. Earth dist.	9058 Dec 23 15:11	5° © 15'20	0.36631 AU	minimum elong	9064 Apr 03 17:30	16° Y ′58′03	1°07'26
asc. node	9059 Jan 05 22:54	2° 5 04'30			9064 Apr 21 14:44	9° 8	
direct	9059 Jan 21 13:48	0° © 28'33		morning rise	9064 May 29 17:50	28° 8 37'35	
	9059 Apr 10 00:29	$0^{\circ}\Omega$			9064 May 31 12:57	Π $^{\circ}0$	

	9064 Jul 09 06:12	0 \circ \odot			9069 Nov 14 12:54	0° ∀	
	9064 Aug 16 12:55	0 $^{\circ}$ Ω			9070 Jan 06 09:27	0 ° Υ	
asc. node	9064 Aug 27 16:01	8° Ω 41'17			9070 Feb 18 23:25	9° 8	
	9064 Sep 24 06:32	0° m			9070 Mar 30 23:17	Π $^{\circ}0$	
	9064 Nov 03 11:36	0∘ ত		asc. node	9070 Apr 19 12:27	15° Ⅱ 10'37	
	9064 Dec 16 12:50	0° M.			9070 May 08 09:55	0 \circ \odot	
	9065 Feb 03 09:33	0° ∡ ¹			9070 Jun 15 15:02	$0^{\circ}\Omega$	
retrograde	9065 Apr 22 18:41	26° ₹ 52'18			9070 Jul 24 15:20	0° m p	
min. Earth dist.	9065 May 30 18:13	17° ∡ ¹54'56	0.66167 AU	evening set	9070 Aug 18 18:49	18° m 45'29	
opposition	9065 Jun 02 06:32	16° ∡ 754'46	2°08'54	· ·	9070 Sep 03 04:52	0∘ ⊽	
greatest brilliancy	9065 Jun 02 02:16	16° ₹ 759'01	-1.4m				
direct	9065 Jul 12 02:48	7° ∡ ¹29'34		conjunction	9070 Oct 15 23:58	0° ™ 09'53	1°04'52
desc. node	9065 Aug 04 10:42	10° ₹ 25'22		minimum elong	9070 Oct 16 00:46		1°04'59
dese. Hode	9065 Sep 24 21:23	0°る		minimum crong	9070 Oct 15 18:13	0°M	1 013)
	9065 Nov 19 05:38	0°≈		max. Earth dist.	9070 Nov 13 13:29		2.57714 AU
	9066 Jan 06 12:50	0° ∺		max. Earth dist.	9070 Nov 13 13:29 9070 Nov 29 09:56	0° √	2.37714 AU
		0° Υ		morning rice	9070 Nov 29 09.30 9070 Dec 06 08:13	4° ∡ ⁷ 32'16	
. ,	9066 Feb 19 21:25	0 1 29° Υ 44'47		morning rise			
evening set	9066 Apr 02 00:57				9071 Jan 15 00:45	0° る	
	9066 Apr 02 09:08	0°8			9071 Mar 04 14:19	0° ≈	
max. Earth dist.	9066 Apr 24 12:04		2.39053 AU	desc. node	9071 Mar 27 04:49	13° ≈ 28′11	
	9066 May 11 20:07	$\Pi^{\circ}0$			9071 Apr 25 00:16	0° ∀	
					9071 Jun 23 21:02	0° Υ	
conjunction	9066 Jun 02 12:45	16° Ⅱ 56'14		retrograde	9071 Aug 16 09:07	13° Ƴ 09'17	
minimum elong	9066 Jun 02 15:21	17° Ⅱ 01'21	0°30'13	opposition	9071 Sep 20 21:47	5° Ƴ 44'58	
	9066 Jun 19 02:30	0		greatest brilliancy	9071 Sep 22 10:50	5° Ƴ 11'39	-2.0m
asc. node	9066 Jul 15 12:10	20° © 53'13		min. Earth dist.	9071 Sep 29 03:27	2° Y '47'50	0.52354 AU
	9066 Jul 27 01:16	$0^{\circ}\Omega$			9071 Oct 07 20:31	30° Ŗ ₩	
morning rise	9066 Aug 13 22:20	14° Ω 01'09		direct	9071 Oct 29 20:31	26°) 41′53	
	9066 Sep 03 13:38	0° m			9071 Nov 21 14:43	0° Y	
	9066 Oct 13 11:43	0∘ ত			9072 Jan 21 18:50	0°8	
	9066 Nov 24 14:47	0° M .			9072 Mar 05 06:24	$\Pi^{\circ}0$	
	9067 Jan 08 22:06	0° ⊼ ¹		asc. node	9072 Mar 06 12:49	0°Щ55′36	
	9067 Feb 28 16:10	ರ°0			9072 Apr 14 07:07	0°ಅ	
retrograde	9067 May 26 20:06	29° る 55'57			9072 May 23 15:15	$0^{\circ}\Omega$	
desc. node	9067 Jun 22 10:42	25° る 26'15			9072 Jul 02 16:23	0° m)	
opposition	9067 Jul 06 02:35	20° る 22'50	-0°28'13		9072 Aug 13 06:01	0∘ ⊽	
greatest brilliancy	9067 Jul 06 02:55	20° ට 22'30	-1.3m		9072 Sep 25 16:34	0° m	
min. Earth dist.	9067 Jul 07 09:22		0.68039 AU	evening set	9072 Oct 09 03:38	9°M202'30	
			0.08039 AU	evening set	9072 Nov 09 22:20		
direct	9067 Aug 16 12:16	10°る25'34 0°≈			9072 NOV 09 22.20	0° ⊼	
	9067 Oct 22 22:39				0072 N 27 04-22	110.711115	0027140
	9067 Dec 15 23:37	0°) €		conjunction	9072 Nov 27 04:23	11° 🗷 11'15	0°37'48
	9068 Jan 30 19:19	0° Υ		minimum elong	9072 Nov 27 05:30	11° х 13'04	
	9068 Mar 12 14:15	0° 8		max. Earth dist.	9072 Dec 08 13:49		2.65695 AU
	9068 Apr 20 23:22	0° I I			9072 Dec 26 13:11	0° ろ	
	9068 May 29 02:28	0_{\circ} වෙ		morning rise	9073 Jan 11 15:05	10°る12'25	
asc. node	9068 Jun 01 10:57	2° © 39'33		desc. node	9073 Feb 11 00:08	29° る 21'36	
evening set	9068 Jun 07 11:23	7° © 25'55			9073 Feb 12 00:35	0° ≈	
	9068 Jul 06 00:10	0 $^{\circ}\Omega$			9073 Apr 01 00:57	0° ∀	
	9068 Aug 13 14:41	O° Mp			9073 May 19 18:50	0° Y	
					9073 Jul 09 12:27	0°8	
conjunction	9068 Aug 17 06:49	2°M/48'09	0°48'53		9073 Sep 07 00:23	Π \circ 0	
minimum elong	9068 Aug 17 03:32	2°Mp41'54	0°48'42	retrograde	9073 Oct 21 08:36	10° Ⅱ 10'45	
	9068 Sep 22 16:36	0∘ ⊽		opposition	9073 Nov 20 21:54	4° Ⅲ 55'11	-4°14'53
max. Earth dist.	9068 Oct 06 13:16	10° ₽ 03'03	2.44909 AU	greatest brilliancy	9073 Nov 22 00:36	4° Ⅱ 36′08	-2.8m
morning rise	9068 Oct 20 11:03	19° ≏ 57'22		min. Earth dist.	9073 Nov 26 22:07	3° Ⅱ 12'36	0.39048 AU
•	9068 Nov 03 19:37	0°M			9073 Dec 10 17:24	30° ₹ 8	
	9068 Dec 18 09:12	0° ∡ ¹		direct	9073 Dec 23 04:46	28° 8 56'39	
	9069 Feb 03 20:21	0° ට			9074 Jan 04 12:52	$\Pi^{\circ}0$	
	9069 Mar 27 20:27	0° ≈		asc. node	9074 Jan 22 14:06	4° ∏ 56'15	
desc. node	9069 May 09 09:07	20°≈33'58			9074 Mar 11 18:06	0°95	
acce. noue	9069 Jun 05 23:23	0° ∺			9074 Apr 26 01:19	0°N	
retrograde	9069 Jul 01 13:04	3° ∺ 29'38			9074 Apr 20 01:19 9074 Jun 08 12:32	0°m)	
renograde	9069 Jul 25 04:05					0ം ⊽	
onnosition		30°R≈ 24°≈43'35	2005147		9074 Jul 22 12:42	0° ™	
opposition	9069 Aug 09 06:54				9074 Sep 05 18:26	0°11L 0° √ 7	
greatest brilliancy	9069 Aug 09 18:59	24°≈31'58		:	9074 Oct 22 05:26		
min. Earth dist.	9069 Aug 14 08:05		0.63321 AU	evening set	9074 Nov 18 12:19	17° ₹ 22'29	
direct	9069 Sep 19 16:09	14° ≈ 43′25			9074 Dec 08 10:10	0°₹	

desc. node	9074 Dec 29 21:04	13° る 35'54			9079 Jul 18 02:02	0 \circ \odot	
max. Earth dist.	9074 Dec 31 02:56	14° る 23'14	2.68193 AU		9079 Aug 25 14:31	0 $^{\circ}\Omega$	
		_		asc. node	9079 Sep 14 08:33	15° Ω 18'06	
conjunction	9075 Jan 02 16:29	16° る 00'50			9079 Oct 03 13:30	0° ™	
minimum elong	9075 Jan 02 16:27	16° පි 00'46	0°01'46		9079 Nov 13 03:17	0∘ ⊽	
behind sun begin	9075 Jan 01 22:07	15° පි 31'43			9079 Dec 27 04:39	0° ™	
behind sun end	9075 Jan 03 10:47	16° る 29'50			9080 Feb 18 17:46	0° ∡	
	9075 Jan 24 16:31	0°≈		retrograde	9080 Apr 09 04:29	13° ₹ 16'32	0.62655.444
morning rise	9075 Feb 15 05:17	13°≈45'32		min. Earth dist.	9080 May 15 10:07	4° ₹ 52'40	
	9075 Mar 12 10:30	0° ∀ 0° Υ		opposition	9080 May 19 09:55	3° √ 17'18	3°07'51
	9075 Apr 27 07:50	• •		greatest brilliancy	9080 May 18 23:44	3° ∡ 727'26	-1.5m
	9075 Jun 11 06:35 9075 Jul 25 10:03	0°B 8°0		diment	9080 May 27 23:37	30°RM 24°M12'18	
		0.2 0.П		direct	9080 Jun 27 06:00	24°االہ12°18 0° اللہ	
	9075 Sep 07 08:10	0°Ω 0 33		desc. node	9080 Jul 30 22:35	0 x . 7° x 42'34	
asc. node	9075 Oct 23 04:57 9075 Dec 10 15:37	24° Ω 50'00		desc. node	9080 Aug 20 23:36 9080 Oct 06 01:42	7 x·42 34 0°る	
asc. node	9076 Jan 01 03:08	0°M)			9080 Nov 27 09:12	0°≈	
ratrograda	9076 Jan 08 14:41	0°Mp24'28			9081 Jan 13 21:28	0 ∞ 0° ∀	
retrograde	9076 Jan 16 02:45	0 11/2428 30°RΩ			9081 Feb 27 02:07	0°Υ	
min. Earth dist.	9076 Feb 03 14:26	26°Ω00'34	0.39627 AU	evening set	9081 Mar 12 14:37	9° Υ '34'27	
greatest brilliancy	9076 Feb 09 10:00	24° Ω 14'42		max. Earth dist.	9081 Mar 26 19:18	19° Y 49'06	2.44247 AU
opposition	9076 Feb 10 13:14	23°Ω53'54	4°07'37	max. Earth dist.	9081 Apr 09 15:48	0°8	2.44247 710
direct	9076 Mar 11 19:09	18° Ω 23'57	4 07 37		7001 Apr 07 13.40	0 0	
ancet	9076 Apr 27 08:39	0° m)		conjunction	9081 May 07 09:08	20° 8 52'13	-0°53'09
	9076 Jun 23 20:57	0∘ ت مار		minimum elong	9081 May 07 03:00 9081 May 07 11:33	20° 8 56'51	
	9076 Aug 13 07:01	o° m		minimum ciong	9081 May 19 06:30	0°II	0 33 20
	9076 Oct 01 10:13	0°× 7 1			9081 Jun 26 16:20	0₀ ©	
desc. node	9076 Nov 15 20:15	28° × 03'19		morning rise	9081 Jul 13 02:15	12° © 57'04	
acce. noue	9076 Nov 18 23:16	0°る		asc. node	9081 Aug 01 05:58	28°903'30	
evening set	9076 Dec 23 14:28	21° る 43'27			9081 Aug 03 17:10	0°N	
	9077 Jan 05 15:14	0° ≈			9081 Sep 11 06:04	0° m)	
max. Earth dist.	9077 Jan 21 23:50		2.65181 AU		9081 Oct 21 04:34	0∘ <u>v</u>	
					9081 Dec 02 11:31	0° M	
conjunction	9077 Feb 06 03:49	20°≈18'18	-0°40'46		9082 Jan 17 12:44	0° ∡	
minimum elong	9077 Feb 06 02:46	20°≈16'35	0°40'34		9082 Mar 12 18:28	5°0	
-	9077 Feb 20 23:03	0° ∀		retrograde	9082 May 13 13:43	17° る 27'57	
morning rise	9077 Mar 23 00:27	20°) €03'23		opposition	9082 Jun 23 01:33	7° る 42'30	0°33'00
	9077 Apr 06 15:13	0° Υ		greatest brilliancy	9082 Jun 23 01:39	7° る 42'25	-1.3m
	9077 May 19 14:20	0°8		min. Earth dist.	9082 Jun 22 20:41	7° る 47'20	0.68094 AU
	9077 Jun 30 00:05	$\Pi^{\circ}0$		desc. node	9082 Jul 09 00:42	1° る 51'30	
	9077 Aug 09 05:49	0 \circ \odot			9082 Jul 15 21:48	30°R ✓	
	9077 Sep 18 00:25	$0^{\circ}\Omega$		direct	9082 Aug 03 00:23	27° ₹ 54'46	
asc. node	9077 Oct 27 13:03	29° Ω 14′02			9082 Aug 22 11:41	0°ප	
	9077 Oct 28 14:34	0° m			9082 Nov 03 17:21	0° ≈	
	9077 Dec 11 17:12	0∘ 亚			9082 Dec 24 12:34	0° ∀	
	9078 Feb 14 18:02	0°M			9083 Feb 07 13:41	0° Y	
retrograde	9078 Mar 02 02:23	1° M 36'37			9083 Mar 21 04:14	0°8	
	9078 Mar 16 20:24	30°Ŗ Ω			9083 Apr 29 13:10	Π °0	
min. Earth dist.	9078 Apr 01 19:38	25° Ω 07'03		evening set	9083 May 10 13:02	8° ∏ 34'44	
greatest brilliancy	9078 Apr 08 00:08	22° Ω 46'35		_	9083 Jun 06 16:54	0°€	
opposition	9078 Apr 09 08:46	22° Ω 15'32	5°14'56	asc. node	9083 Jun 19 03:31	9° © 51'56	
direct	9078 May 14 14:30	14° △ 30'08			9083 Jul 14 14:16	$0 {\circ} \Omega$	
	9078 Jul 11 14:50	0°M			0000 1 1 10 15 00	20 0 5012 6	0001111
	9078 Sep 08 10:54	0° ⊼ ¹		conjunction	9083 Jul 19 15:30	3° £ 58'36	
desc. node	9078 Oct 03 21:37	14° ₹ 27'58		minimum elong	9083 Jul 19 13:12	3° Ω 54'05	0°21'26
	9078 Oct 30 06:47	ව°0		E 41 E 4	9083 Aug 22 02:55	0°M)	2 202 (0 ATT
ovonint	9078 Dec 18 04:32	0°≈ 27°a a 1 1155		max. Earth dist.	9083 Sep 09 13:46		2.39369 AU
evening set	9079 Jan 29 10:45	27°≈11'55		morning rise	9083 Sep 27 23:22	27° Mp 43'00	
may Farth dist	9079 Feb 02 16:32	0°) 0° ¥ 34'37	2.56868 AU		9083 Oct 01 01:57	0ം ⊮ 0∘ಹ	
max. Earth dist.	9079 Feb 17 00:51	ッ 八343/	2.30000 AU		9083 Nov 12 02:51 9083 Dec 26 19:12	0°11∟ 0° √ 7	
conjunction	9079 Mar 17 16:40	29° ∺ 11'38	-1°05'50		9083 Dec 26 19:12 9084 Feb 13 00:24	0° X '	
minimum elong	9079 Mar 17 16:40 9079 Mar 17 16:00	29° X 11'38 29° X 10'29			9084 Feb 13 00:24 9084 Apr 08 07:00	0° ≈	
mmmum clong	9079 Mar 18 20:27	29 γ (1029	1 05 77	desc. node	9084 May 25 23:30	0 ∞ 17°≈42'01	
	9079 Apr 29 20:35	0°8		retrograde	9084 Jun 16 14:49	20°≈16'01	
morning rise	9079 May 07 20:15	5° 8 51'52		opposition	9084 Jul 26 03:02	11°≈08'25	-2°05'16
	9079 Jun 09 01:54	0°Ⅱ		greatest brilliancy	9084 Jul 26 08:29	11°≈03'06	
	, 0, , Jan 0, 01.54	~ ~		or carest or maney	, 00. Uai 20 00.2)	11.0.05.00	

1 fanctary 1 fich	omena or wars nor	11 0000 11110	ugii 7102 (O	1), Astrodictist AC	10-1700-2023 14.2.	o, page	T 2
min. Earth dist.	9084 Jul 29 16:57	9° ≈ 44'34	0.65958 AU	minimum elong	9089 Dec 19 21:50	3° ⋜ 01'09	0°14'09
direct	9084 Sep 05 17:31	1°≈04'52	0.02720710	behind sun begin	9089 Dec 19 13:10	2°る47'25	0 110)
uncet	9084 Nov 28 08:45	0° ∀		behind sun end	9089 Dec 20 06:29	3°る14'54	
	9085 Jan 15 22:16	$0^{\circ}\Upsilon$		max. Earth dist.	9089 Dec 22 15:46		2.67870 AU
	9085 Feb 27 12:13	0°8		desc. node	9090 Jan 15 10:54	19° る 51'50	
	9085 Apr 08 03:24	0°II			9090 Jan 31 10:20	0° ≈	
asc. node	9085 May 06 03:18	21° Ⅱ 54'30		morning rise	9090 Feb 01 19:13	0°≈52'12	
	9085 May 16 09:20	0°©		C	9090 Mar 19 13:04	0° ∀	
	9085 Jun 23 10:09	$0^{\circ}\Omega$			9090 May 05 05:54	0° Y	
evening set	9085 Jul 23 17:53	23° £ 31′50			9090 Jun 20 14:56	0°8	
	9085 Aug 01 05:12	0° m			9090 Aug 06 04:23	$\Pi^{\circ}0$	
	9085 Sep 10 12:49	0∘ ত			9090 Sep 23 22:43	0°€	
				retrograde	9090 Dec 11 07:03	29° © 05'13	
conjunction	9085 Sep 25 10:18	10° ≏ 44'03	1°06'26	asc. node	9090 Dec 27 07:16	27° © 23'48	
minimum elong	9085 Sep 25 09:51	10° ≏ 43'14	1°06'28	min. Earth dist.	9091 Jan 08 00:10	24° © 34'02	0.36778 AU
	9085 Oct 22 20:35	0°M₊		opposition	9091 Jan 10 14:33	23° © 52'06	1°06'34
max. Earth dist.	9085 Nov 01 08:56	6°M32'14	2.53192 AU	greatest brilliancy	9091 Jan 10 10:54	23° © 54'33	-3.1m
morning rise	9085 Nov 19 18:51	18°M59'18		direct	9091 Feb 08 20:11	18° © 59'05	
	9085 Dec 06 09:26	0° ∡ ¹			9091 Mar 24 23:23	$0^{\circ}\Omega$	
	9086 Jan 22 04:20	0°ರ			9091 May 19 09:36	O° Mp	
	9086 Mar 12 14:34	0° ≈			9091 Jul 06 17:27	0∘ ত	
desc. node	9086 Apr 12 19:55	17° ≈ 45′27			9091 Aug 23 06:23	0°M	
	9086 May 06 00:12	0°) €			9091 Oct 10 01:03	0° ∡ ¹	
retrograde	9086 Jul 27 19:23	26°) 38′59			9091 Nov 26 22:11	o°S	
opposition	9086 Sep 02 20:01	18°) ₹36'45	-4°35'12	desc. node	9091 Dec 03 09:38	4° る 04'13	
greatest brilliancy	9086 Sep 03 22:49	18° ∺ 11'44	-1.7m	evening set	9091 Dec 10 17:17	8° る 40'39	
min. Earth dist.	9086 Sep 09 24:00	15° ¥ 56′23	0.57335 AU		9092 Jan 13 08:42	0° ≈	
direct	9086 Oct 13 03:19	8° ∺ 59'36		max. Earth dist.	9092 Jan 13 21:08	0° ≈ 19'50	2.67006 AU
	9086 Dec 17 04:05	0 ° $\mathbf{\gamma}$					
	9087 Feb 03 03:05	$0^{\circ}S$		conjunction	9092 Jan 24 04:18	6°≈55'12	-0°26'36
	9087 Mar 16 11:18	$\Pi^{\circ}0$		minimum elong	9092 Jan 24 03:33	6°≈53'59	0°26'22
asc. node	9087 Mar 24 05:43	5° Ⅱ 52'43			9092 Feb 28 19:02	0° ∀	
	9087 Apr 24 13:52	0ංම		morning rise	9092 Mar 08 02:17	5° ∺ 27'22	
	9087 Jun 02 07:04	$0^{\circ}\Omega$			9092 Apr 13 20:24	$0^{\circ}\Upsilon$	
	9087 Jul 11 19:04	0° m)			9092 May 27 10:16	9° 8	
	9087 Aug 21 20:36	0∘ ಹ			9092 Jul 08 14:37	Π °0	
evening set	9087 Sep 21 19:50	21° ≏ 44'29			9092 Aug 18 17:51	0°€	
	9087 Oct 03 20:43	0°M₊			9092 Sep 28 15:05	$0^{\circ}\Omega$	
					9092 Nov 10 03:32	0° т р	
conjunction	9087 Nov 12 15:13	26°M36'38	0°50'51	asc. node	9092 Nov 13 06:39	2°m/05'39	
minimum elong	9087 Nov 12 16:33	26°M38'49	0°51'03		9092 Dec 31 03:00	0∘ ⊽	
	9087 Nov 17 19:12	0° ∡		retrograde	9093 Feb 11 19:49	11° ≏ 13'33	
max. Earth dist.	9087 Nov 30 01:49	8° ∡ 00'18	2.63220 AU	min. Earth dist.	9093 Mar 12 01:59	5° Ω 40'11	0.47637 AU
morning rise	9087 Dec 29 18:41	27° ∡ 706'06		greatest brilliancy	9093 Mar 18 21:20	3° Ω 14'31	-2.3m
	9088 Jan 03 07:59	5°0		opposition	9093 Mar 20 12:39	2° ₽ 39'08	5°33'40
	9088 Feb 20 02:00	0°≈			9093 Mar 28 06:31	30°R Mp	
desc. node	9088 Feb 28 14:55	5°≈17'40		direct	9093 Apr 22 22:24	25° m/40'55	
	9088 Apr 09 00:07	0° ℋ 0° Ƴ			9093 May 20 09:12	0∘ ™	
	9088 May 30 00:43				9093 Jul 26 15:41	0°M	
	9088 Jul 27 02:42	0°8		4 1	9093 Sep 17 17:08	0°×7	
retrograde	9088 Sep 21 14:02	14° 8 53'08	5024144	desc. node	9093 Oct 20 10:54	19° ₹ 27'02	
opposition	9088 Oct 24 06:21	8° 8 44'51			9093 Nov 06 20:47	5°0	
greatest brilliancy	9088 Oct 26 00:42	8° 8 10'53		. ,	9093 Dec 25 03:52	0° ≈	
min. Earth dist.	9088 Nov 01 16:41	6° 8 04'08	0.43867 AU	evening set	9094 Jan 14 17:11	13°≈08'11	2 (0710 ATT
direct	9088 Nov 28 16:00	1°819'28		max. Earth dist.	9094 Feb 06 06:50	27°≈51'13	2.60718 AU
asc. node	9089 Feb 08 07:10	28° 8 15'19			9094 Feb 09 12:51	0°) €	
	9089 Feb 11 02:53	0° ©		agniumation	0004 Mar 01 10:26	120 W 1715/	0050150
	9089 Mar 27 10:32	0ം ೮ ೧್ಲಕ್ಕಾ		conjunction	9094 Mar 01 10:26	13° ¥ 17'56	
	9089 May 07 21:02			minimum elong	9094 Mar 01 09:21	13°) 16'06 0° γ	U 38'40
	9089 Jun 18 08:48	0° ™			9094 Mar 25 20:25		
	9089 Jul 31 01:46	0∘ w		morning rise	9094 Apr 18 06:43	16° Y 26′26	
	9089 Sep 13 09:45	0°M₊			9094 May 07 04:17	0° Β	
	9089 Oct 29 06:25	0°⊀ 7 3°∗ 7 07155			9094 Jun 16 18:58	0° ∏	
evening set	9089 Nov 03 15:25	3° ⊀ 27'55			9094 Jul 26 04:18	0.ಲ	
	9089 Dec 15 03:47	0°ප		1	9094 Sep 03 01:11	0°N	
	0000 D 10 21 22	2070007	0912152	asc. node	9094 Oct 01 03:15	21° Ω 30'46	
conjunction	9089 Dec 19 21:23	3° る 00'27	0~13'52		9094 Oct 12 09:04	0° m	

-			`				
	9094 Nov 22 14:48	0∘ ⊽			9099 Dec 09 21:31	0° ∀	
	9095 Jan 07 17:31	0°M			9100 Jan 25 12:13	0° Υ	
retrograde	9095 Mar 26 21:46	28°M36'16			9100 Mar 08 13:35	0°8	
min. Earth dist.	9095 Apr 30 04:06	20°M51'38	0.60169 AU		9100 Apr 17 00:51	0°II	
opposition	9095 May 05 15:03	18°M42'23	4°03'46	asc. node	9100 May 23 20:40	28° ∏ 56'18	
greatest brilliancy	9095 May 04 20:50	19°M00'23	-1.6m	use. Hous	9100 May 25 04:51	0.2 20 Jeo 10	
direct	9095 Jun 12 05:45	10°M02'53	1.0111	evening set	9100 Jun 25 09:39	24°5541'46	
	9095 Aug 20 05:33	0° ∡ 7		evening sec	9100 Jul 02 03:16	0°Ω	
desc. node	9095 Sep 07 12:36	8° ₹ 755'42			9100 Aug 09 18:30	0° m)	
desc. node	9095 Oct 16 11:55	0°る			710011 ug 07 10.50	ÿ .y	
	9095 Dec 06 01:14	0° ≈		conjunction	9100 Sep 02 10:53	17° m 52'31	0°58'41
	9096 Jan 22 01:12	0° ∀		minimum elong	9100 Sep 02 10:35 9100 Sep 02 08:28	17° m) 47'59	
evening set	9096 Feb 23 13:18	21° X 55'19		minimum ciong	9100 Sep 18 21:12	0° ⊽	0 30 30
evening sec	9096 Mar 06 04:16	0°Υ		max. Earth dist.	9100 Oct 18 10:48		2.47957 AU
max. Earth dist.	9096 Mar 08 17:38		2.49530 AU	max. Earth dist.	9100 Oct 31 00:28	0°M	2.47/37/110
max. Lattii dist.	7070 Wai 00 17.30	1 14/30	2.47550 AO	morning rise	9100 Oct 31 00:28 9100 Nov 02 04:38	1°M30'19	
conjunction	9096 Apr 15 00:35	28° Y 37'49	-1°04'58	morning rise	9100 Dec 14 11:57	0° √	
minimum elong	9096 Apr 15 01:37	28° Υ 39'42			9101 Jan 30 14:32	%	
minimum clong	9096 Apr 16 21:11	0° 8	1 03 04		9101 Mar 22 08:51	0° ≈	
	9096 May 26 16:41	0°II		dasa nada	9101 Mai 22 08:31 9101 Apr 30 10:25	0 ∞ 20°≈28'50	
marning rise	9096 Jun 13 14:06	0 Ⅱ 13° Ⅱ 49'21		desc. node	•	20 ≈ 28 30 0° ∺	
morning rise				. 1	9101 May 21 21:26		
	9096 Jul 04 07:06	0° ©		retrograde	9101 Jul 11 15:01	11°) 54'03	2020157
	9096 Aug 11 11:23	0° Ω		opposition	9101 Aug 18 19:37	3°) €21'57	
asc. node	9096 Aug 17 22:27	5° Ω 03'46		greatest brilliancy	9101 Aug 19 12:30	3°) €05'49	
	9096 Sep 19 02:32	0° m		min. Earth dist.	9101 Aug 24 15:28	1° ∺ 08'21	0.61444 AU
	9096 Oct 29 03:50	0∘ ত			9101 Aug 27 16:48	30° R ≈	
	9096 Dec 10 19:25	0°M₊		direct	9101 Sep 28 21:53	23° ≈ 26'57	
	9097 Jan 27 05:15	0° ∡ 7			9101 Nov 02 04:36	0° ℋ	
	9097 Apr 01 02:13	8°0			9101 Dec 31 12:03	0° Y	
retrograde	9097 Apr 30 09:22	4° る 47'33					
	9097 May 27 10:17	30°₽ ⋌ ¹					
min. Earth dist.	9097 Jun 08 05:43	25° ∡ ³33'46	0.67139 AU				
opposition	9097 Jun 09 22:24	24° ₹ 53'13	1°33'46				
greatest brilliancy	9097 Jun 09 20:25	24° 渘 ′55'11	-1.3m				
direct	9097 Jul 20 05:26	15° √ 19'02					
desc. node	9097 Jul 25 13:51	15° ∡ ¹29'12					
	9097 Sep 15 19:37	5°0					
	9097 Nov 13 10:01	0° ≈					
	9098 Jan 01 11:33	0° ∀					
	9098 Feb 15 01:52	$0^{\circ}\mathbf{\Upsilon}$					
	9098 Mar 28 14:59	0° ႘					
evening set	9098 Apr 14 20:36	12° 8 57'19					
<i>8</i>	9098 May 07 01:19	0°Щ					
max. Earth dist.	9098 May 27 20:55	16° Ⅱ 16′00	2.36861 AU				
	9098 Jun 14 06:31	0° ©					
conjunction	9098 Jun 18 21:40	3° © 39'58	-0°12'17				
minimum elong	9098 Jun 18 23:00	3° 5 42'36	0°12'31				
behind sun begin	9098 Jun 18 03:43	3°504'26					
behind sun end	9098 Jun 19 18:16	4°9520'45					
asc. node	9098 Jul 05 20:53	17°9506'38					
	9098 Jul 22 04:16	$0^{\circ}\Omega$					
	9098 Aug 29 15:47	0° m)					
morning rise	9098 Aug 31 06:53	1° Mp 15'04					
	9098 Oct 08 12:58	0° <u>م</u>					
	9098 Nov 19 13:39	0°M					
	9099 Jan 03 12:39	0° ⊼					
	9099 Feb 22 00:15	% 0 ×					
	9099 Feb 22 00.13 9099 Apr 25 19:58	0°≈					
retrograda	-						
retrograde	9099 Jun 03 15:10	7°≈35'12					
desc. node	9099 Jun 12 13:35	7°≈05'05					
	9099 Jul 08 23:17	30°R₹	1004100				
opposition	9099 Jul 13 16:00	28° る 10'15					
greatest brilliancy	9099 Jul 13 17:26	28°る08'51					
min. Earth dist.	9099 Jul 15 18:20		0.67586 AU				
direct	9099 Aug 24 04:33	18° る 09'35					
	9099 Oct 13 00:12	0°∞					

9099 Oct 13 00:12

0°≈