		0					
superior conj	4601 Jul 25 22:42	5° <b>Ω</b> 09'20		minimum elong	4603 Dec 15 13:35	22° <b>×</b> 32'30	
minimum elong	4601 Jul 25 15:49		0°35'26	min. Earth dist.	4603 Dec 16 00:24	22°×15'58	0.27075 AU
max. Earth dist.	4601 Jul 26 05:53		1.73448 AU	morning rise	4603 Dec 21 13:30	19° <b>∡</b> 01'19	
	4601 Aug 15 03:20	0° <b>m</b> )		asc. node	4603 Dec 26 08:24	16° <b>∡</b> 746′13	
evening rise	4601 Aug 31 01:19	19° m/34'48		direct	4604 Jan 05 01:29	14° 🗷 50'12	4.0
	4601 Sep 08 12:36	0∘ <b>亚</b>		greatest brilliancy	4604 Jan 15 23:43	17° <b>₹</b> 04'25	-4.9m
	4601 Oct 02 22:33	0°M			4604 Feb 05 07:49	0°る	
	4601 Oct 27 10:08	0° <b>∡</b>		morning max el	4604 Feb 24 16:51	18°る00'29	46°58'50
desc. node	4601 Oct 30 04:09	3° <b>∡</b> ′21′51			4604 Mar 07 03:42	0° <b>≈</b>	
	4601 Nov 21 00:00	0° <b>ට</b>			4604 Apr 02 21:17	0° <b>∀</b>	
	4601 Dec 15 17:15	0° <b>≈</b>		desc. node	4604 Apr 15 23:17	15° <b>)</b> 16'58	
	4602 Jan 09 17:27	0° <b>∀</b>			4604 Apr 28 09:22	0° <b>Υ</b>	
	4602 Feb 04 11:02	0° <b>Υ</b>			4604 May 23 09:27	0°B	
asc. node	4602 Feb 20 06:02	17° <b>Y</b> 31'17			4604 Jun 17 04:32	0°Щ	
evening max el	4602 Mar 03 05:19	29° <b>Y</b> 00′52	47°01'16		4604 Jul 11 21:14	0ංම	
	4602 Mar 04 04:43	0°8		_	4604 Aug 05 11:49	$0^{\circ}\Omega$	
	4602 Apr 12 08:11	$\Pi^{\circ}$ 0		asc. node	4604 Aug 07 01:13	1° <b>Ω</b> 54'16	
greatest brilliancy	4602 Apr 12 09:16	0° <b>I</b> 01'00	-4.9m	morning set	4604 Aug 26 02:26	25° <b>Ω</b> 14'11	
retrograde	4602 Apr 22 18:46	2° <b>Ⅱ</b> 02'37			4604 Aug 29 23:30	0° <b>m</b> ∕	
	4602 May 02 19:11	30° <b>₹8</b>			4604 Sep 23 08:00	0∘ <b>ত</b>	
evening set	4602 May 09 09:45	26° <b>8</b> 39'27		max. Earth dist.	4604 Sep 29 01:37	7° <b>≏</b> 05'09	1.73050 AU
inferior conj	4602 May 13 20:06	23° <b>8</b> 56'02					
minimum elong	4602 May 14 06:28	23° <b>8</b> 39'47	6°22'55	superior conj	4604 Oct 01 13:08	10° <b>≏</b> 09'11	1°25'18
min. Earth dist.	4602 May 13 17:16	24° <b>8</b> 00'28	0.27937 AU	minimum elong	4604 Oct 01 12:58	10° <b>≏</b> 08'38	1°25'18
morning rise	4602 May 19 03:35	20° <b>8</b> 43'07			4604 Oct 17 13:54	0°M₊	
direct	4602 Jun 03 20:36	15° <b>8</b> 56'44		evening rise	4604 Nov 07 17:01	26°M12'40	
desc. node	4602 Jun 11 20:47	17° <b>8</b> 08'28			4604 Nov 10 18:17	0° <b>∡</b> ¹	
greatest brilliancy	4602 Jun 13 12:52	17° <b>8</b> 40'06	-4.8m	desc. node	4604 Nov 26 16:04	19° <b>∡</b> ⁴45'14	
	4602 Jul 04 10:01	$\Pi^{\circ}0$			4604 Dec 04 21:59	0°₹	
morning max el	4602 Jul 22 20:16	16° <b>Ⅱ</b> 12'11	45°50'09		4604 Dec 29 01:25	0° <b>≈</b>	
	4602 Aug 05 15:34	0ංම			4605 Jan 22 05:32	0° <b>∀</b>	
	4602 Sep 02 08:06	$0^{\circ}\Omega$			4605 Feb 15 12:58	0°Υ	
	4602 Sep 28 10:52	0° <b>т</b> р			4605 Mar 12 05:09	0°8	
asc. node	4602 Oct 02 22:55	5° Mp 17'24		asc. node	4605 Mar 19 17:55	9° <b>8</b> 00'08	
	4602 Oct 23 16:07	0∘ <b>⊽</b>			4605 Apr 06 16:01	$\Pi^{\circ}0$	
	4602 Nov 17 07:14	0°M₊			4605 May 03 19:29	0ංම	
	4602 Dec 11 13:16	0° <b>∡</b>		evening max el	4605 May 13 11:27	9° <b>©</b> 50'18	46°05'29
	4603 Jan 04 13:59	0° <b>ਰ</b>			4605 Jun 05 12:32	$0^{\circ}\Omega$	
morning set	4603 Jan 18 02:02	16° <b>⋜</b> 55'47		greatest brilliancy	4605 Jun 20 19:56	8° <b>Ω</b> 46'11	-4.8m
desc. node	4603 Jan 22 13:37	22° <b>る</b> 33'28		retrograde	4605 Jul 01 22:50	11° <b>Ω</b> 01'43	
	4603 Jan 28 11:48	0° <b>≈</b>		desc. node	4605 Jul 09 08:40	9° <b>Ω</b> 55'14	
	4603 Feb 21 08:17	0° <b>∀</b>		evening set	4605 Jul 17 02:41	6° <b>Ω</b> 33'06	
				inferior conj	4605 Jul 23 10:02	2° <b>Ω</b> 45'55	
superior conj	4603 Feb 28 11:00	8° <b>¥</b> 56'57		minimum elong	4605 Jul 23 03:13	2° <b>Ω</b> 56'35	
minimum elong	4603 Feb 28 00:13	8° <b>∺</b> 23′03		min. Earth dist.	4605 Jul 23 00:39		0.28848 AU
max. Earth dist.	4603 Mar 01 15:14		1.71161 AU		4605 Jul 27 22:27	30° <b>₹</b> 5	
	4603 Mar 17 04:53	0° <b>Υ</b>		morning rise	4605 Jul 29 04:02	29°517'34	
evening rise	4603 Apr 10 05:48	0° <b>8</b> 07'37		direct	4605 Aug 13 21:34	24°932'22	
	4603 Apr 10 03:21	0°B		greatest brilliancy	4605 Aug 24 00:32	26°522'51	-4.7m
	4603 May 04 05:36	$\Pi^{\circ 0}$			4605 Aug 31 23:45	$0$ $\circ$ $\Omega$	
asc. node	4603 May 15 15:48	14° <b>Ⅱ</b> 07'58		morning max el	4605 Oct 01 16:50	24° <b>Ω</b> 20'15	45°46'58
	4603 May 28 13:15	0 <sub>ං</sub> වෙ			4605 Oct 07 11:35	0° <b>т</b> р	
	4603 Jun 22 03:53	$0$ $^{\circ}$ $\Omega$		asc. node	4605 Oct 30 10:56	24° m 18'52	
	4603 Jul 17 03:53	0° <b>m</b> )			4605 Nov 04 13:16	0° <b>™</b>	
	4603 Aug 11 18:10	0∘ <b>⊽</b>			4605 Nov 30 11:01	0° <b>M</b>	
desc. node	4603 Sep 04 06:14	26° <b>£</b> 33'27			4605 Dec 25 08:30	0° <b>∡</b>	
	4603 Sep 07 09:31	0° <b>M</b> .			4606 Jan 18 17:29	0°る	
	4603 Oct 06 08:32	0° <b>∡</b>			4606 Feb 11 20:05	0° <b>≈</b>	
evening max el	4603 Oct 06 08:15	29°M59'17	46°00'32	desc. node	4606 Feb 19 01:26	9° <b>≈</b> 01'31	
greatest brilliancy	4603 Nov 15 06:52		-4.8m		4606 Mar 07 19:40	0° <b>)</b> €	
	4603 Nov 19 19:32	0° <b>ろ</b>			4606 Mar 31 18:24	0° <b>Υ</b>	
retrograde	4603 Nov 24 12:47	0°る25'35		morning set	4606 Apr 05 00:31	5° <b>Y</b> 19'36	
	4603 Nov 29 03:39	30°R. <b>✓</b>			4606 Apr 24 18:08	$9^{\circ}$ 8	
evening set	4603 Dec 09 12:51	26° <b>₹</b> 05'02	2016:50		400035 40000	0.401.1	1004440
inferior conj	4603 Dec 15 07:28	22° <b>х</b> 41'52	-2°46'50	superior conj	4606 May 14 14:14	24° <b>8</b> 42'48	-1°01'48

minimum elong	4606 May 15 00:55	25° <b>8</b> 16'00	1°01'26	asc. node	4608 Nov 26 22:33	19° <b>ჲ</b> 39'03	
max. Earth dist.	4606 May 18 05:52	29° <b>8</b> 15'04	1.72376 AU		4608 Dec 08 04:41	$0^{\circ}$ M	
	4606 May 18 20:20	$\Pi$ °0		morning max el	4608 Dec 11 15:37	3°M24'31	46°26'01
asc. node	4606 Jun 12 03:38	0° <b>©</b> 05'40			4609 Jan 05 11:47	0° <b>∡</b>	
	4606 Jun 12 01:47	0°50			4609 Jan 31 07:52	0°る	
evening rise	4606 Jun 22 02:03	12° <b>©</b> 20'51			4609 Feb 25 05:20	0° <b>≈</b>	
	4606 Jul 06 10:32	0° <b>N</b>		desc. node	4609 Mar 18 13:23	26°≈08'21	
	4606 Jul 30 22:39 4606 Aug 24 15:00	0 <b>்⊽</b> 0∘மி			4609 Mar 21 16:38 4609 Apr 14 23:33	0° <b>ℋ</b> 0° <b>Ƴ</b>	
	4606 Sep 18 13:33	0° <b>m.</b>			4609 May 09 05:20	0°8	
desc. node	4606 Oct 01 18:14	15°M41'56			4609 Jun 02 11:55	0°II	
dese. node	4606 Oct 13 21:15	0° <b>∡</b> 7		morning set	4609 Jun 16 09:23	17° <b>∏</b> 08'27	
	4606 Nov 08 19:13	0°る		C	4609 Jun 26 19:54	0° <b>©</b>	
	4606 Dec 05 21:39	0° <b>≈</b>		asc. node	4609 Jul 09 15:23	15° <b>5</b> 46'27	
evening max el	4606 Dec 18 08:09	12° <b>≈</b> 53′03	46°58'25		4609 Jul 21 04:51	$0^{\circ}\Omega$	
	4607 Jan 05 19:57	0° <b>)</b> €					
asc. node	4607 Jan 22 20:17	11° <b>)</b> 41′51		superior conj	4609 Jul 23 16:37	3° <b>Ω</b> 03'47	0°32'48
greatest brilliancy	4607 Jan 27 18:37	13° <b>米</b> 51′55	-4.9m	minimum elong	4609 Jul 23 10:10	2° <b>Ω</b> 43'58	
retrograde	4607 Feb 06 21:44	15° <b>)</b> 48'48		max. Earth dist.	4609 Jul 24 01:52	3° <b>Ω</b> 32'14	1.73433 AU
evening set	4607 Feb 23 02:05	10° <b>)</b> (38′42			4609 Aug 14 14:05	0° <b>m</b>	
inferior conj	4607 Feb 27 11:51	7° <b>)</b> 59'21	7°44'55	evening rise	4609 Aug 28 19:56	17° <b>m</b> 31'11	
minimum elong	4607 Feb 27 02:04	8° <b>)</b> 14′23	7°43'17		4609 Sep 07 23:29	0∘ <b>⊽</b>	
min. Earth dist.	4607 Feb 26 20:15 4607 Mar 03 02:19	8° <b>¥</b> 23'19 5° <b>¥</b> 48'47	0.26866 AU		4609 Oct 02 09:42 4609 Oct 26 21:39	0° <b>M</b> 0° <b>⊀</b>	
morning rise direct	4607 Mar 20 00:09	0° <b>)</b> 16′58		desc. node	4609 Oct 29 06:12	2° <b>x</b> <sup>7</sup> 52'43	
greatest brilliancy	4607 Mar 29 05:16	1° <b>)</b> 54'08	-4.9m	desc. node	4609 Nov 20 12:04	2 x 32 43	
greatest offinaley	4607 May 06 14:02	0°Υ	4.7111		4609 Dec 15 06:05	0° <b>≈</b>	
morning max el	4607 May 09 01:54	2° <b>Υ</b> 26'55	46°34'24		4610 Jan 09 07:32	0° <b>)</b> €	
desc. node	4607 May 14 11:06	7° <b>Υ</b> 51'58			4610 Feb 04 03:31	0° <b>Υ</b>	
	4607 Jun 04 04:42	0°8		asc. node	4610 Feb 19 08:05	16° <b>Ƴ</b> 45'13	
	4607 Jun 30 17:07	$\Pi^{\circ}0$		evening max el	4610 Feb 28 18:31	26° <b>Y</b> 36'09	47°02'29
	4607 Jul 26 10:00	$0$ $\circ$ $\odot$			4610 Mar 04 03:50	$0^{\circ}$ 8	
	4607 Aug 20 15:44	$0$ $^{\circ}\Omega$		greatest brilliancy	4610 Apr 10 01:45	27° <b>8</b> 43'39	-4.9m
asc. node	4607 Sep 04 13:05	17° <b>Ω</b> 54'49		retrograde	4610 Apr 20 09:20	29° <b>8</b> 43'59	
	4607 Sep 14 12:34	0° <b>m</b> y		evening set	4610 May 07 03:41	24° <b>8</b> 16'31	
	4607 Oct 09 01:34	0∘ <b>亚</b>		inferior conj	4610 May 11 10:49	21° <b>8</b> 38'00	6°40'24
. ,	4607 Nov 02 08:19	0°M		minimum elong	4610 May 11 21:10	21° <b>8</b> 21'48	6°38'15
morning set	4607 Nov 03 19:52	1° <b>M</b> .50′18 0° <i>₹</i>		min. Earth dist.	4610 May 11 08:17	21° <b>8</b> 41'59 18° <b>8</b> 29'41	0.27904 AU
max. Earth dist.	4607 Nov 26 10:51 4607 Dec 09 07:58		1.71770 AU	morning rise direct	4610 May 16 14:57 4610 Jun 01 10:10	13° <b>8</b> 39'06	
max. Earth dist.	4007 Dec 09 07.38	10 × 05 14	1./1//0 AU	desc. node	4610 Jun 10 22:44	15° <b>8</b> 19'01	
superior conj	4607 Dec 11 23:17	19° <b>∡</b> '23'09	0°31'05	greatest brilliancy	4610 Jun 11 03:07	15° <b>8</b> 22'44	-4.8m
minimum elong	4607 Dec 12 06:23	19° <b>х</b> 45′21	0°30'45	greatest orimane,	4610 Jul 04 20:39	0°Ⅱ	1.0111
8	4607 Dec 20 10:51	0°る		morning max el	4610 Jul 20 10:26	13° <b>∏</b> 56′06	45°51'20
desc. node	4607 Dec 25 03:50	5° <b>る</b> 53'46			4610 Aug 05 09:51	0ಂತಾ	
	4608 Jan 13 09:17	0° <b>≈</b>			4610 Sep 01 22:23	$0^{\circ}\Omega$	
evening rise	4608 Jan 21 04:46	9° <b>≈</b> 48′08			4610 Sep 27 23:28	0° <b>™</b>	
	4608 Feb 06 07:00	0° <b>∀</b>		asc. node	4610 Oct 02 01:06	4° <b>m</b> 47'14	
	4608 Mar 01 05:33	0° <b>Υ</b>			4610 Oct 23 03:55	0∘ <b>⊽</b>	
	4608 Mar 25 07:31	0°8			4610 Nov 16 18:37	0° <b>M</b>	
asc. node	4608 Apr 16 05:57	27° <b>႘</b> 01'36			4610 Dec 11 00:28	0° <b>∡</b> 7	
	4608 Apr 18 16:20	0° <b>∏</b>			4611 Jan 04 01:05	0°る	
	4608 May 13 12:24 4608 Jun 08 02:46	$0 _{\circ}$ ೮ $0 _{\circ}$ ತ್ತಾ		morning set desc. node	4611 Jan 15 13:06 4611 Jan 21 15:38	14°පි25'05 22°පි05'01	
	4608 Jul 05 03:39	0°a≀ 0°mp		desc. node	4611 Jan 27 22:51	0°≈	
evening max el	4608 Jul 23 02:57	18° Mp 15'08	45°30'53		4611 Feb 20 19:18	0° <b>∺</b>	
J. Ching max of	4608 Aug 05 02:52	0∘ <b>ʊ</b>	15 50 55		7011100 20 17.10	υ <b>/</b> (	
desc. node	4608 Aug 05 20:30	o <b>_</b> 0° <b>_</b> 36'46		superior conj	4611 Feb 25 21:11	6° <b>¥</b> 23'23	-1°12'14
greatest brilliancy	4608 Aug 30 18:09	16° <b>⊆</b> 10'09	-4.7m	minimum elong	4611 Feb 25 09:56	5° <b>)</b> (48'00	
retrograde	4608 Sep 09 17:44	17° <b>≏</b> 57'21		max. Earth dist.	4611 Feb 26 18:11	7° <b>∺</b> 29'28	1.71149 AU
evening set	4608 Sep 27 20:10	11° <b>≙</b> 51'46			4611 Mar 16 15:53	0° <b>Ƴ</b>	
inferior conj	4608 Oct 01 03:46	9° <b>≏</b> 48'42	-8°37'54	evening rise	4611 Apr 07 16:48	27° <b>Y</b> '37'36	
minimum elong	4608 Oct 01 03:15	9° <b>≏</b> 49'30	8°37'53		4611 Apr 09 14:22	$9^{\circ}$ 8	
min. Earth dist.	4608 Oct 01 14:08	9° <b>ჲ</b> 32'28	0.28895 AU		4611 May 03 16:40	$\Pi$ °0	
morning rise	4608 Oct 04 10:14	7° <b>≏</b> 47'05		asc. node	4611 May 14 17:48	13° <b>∏</b> 39'43	
direct	4608 Oct 22 17:02	1° <b>Ω</b> 32'09	4.0		4611 May 28 00:30	0° <b>©</b>	
greatest brilliancy	4608 Nov 02 13:20	3° <b>≏</b> 41'04	-4.8m		4611 Jun 21 15:27	$0$ ° $\Omega$	

	4611 7 1 16 16 07	00.00			4614E1 11 07.20	00-	
	4611 Jul 16 16:05	0° <b>m</b> y			4614 Feb 11 07:20	0° <b>≈</b>	
	4611 Aug 11 07:35	0∘ <b>ʊ</b>		desc. node	4614 Feb 18 03:33	8° <b>≈</b> 33'10	
desc. node	4611 Sep 03 08:23	25° <b>£</b> 56'30			4614 Mar 07 06:45	0° <b>){</b>	
	4611 Sep 07 01:35	0°M	45050140		4614 Mar 31 05:20	0°Υ 2° <b>0</b> 650110	
evening max el	4611 Oct 03 21:48	27°M41'02	45°58'40	morning set	4614 Apr 02 11:45	2° <b>Υ</b> 50'19	
	4611 Oct 06 08:15	0° <b>⊼</b> ¹	4.0		4614 Apr 24 04:56	0°B	
greatest brilliancy	4611 Nov 12 19:40	26° <b>₹</b> 28'35	-4.8m		161434 10 00 15	2221 12211 7	100.4110
retrograde	4611 Nov 22 01:56	28°×703'42		superior conj	4614 May 12 03:47	22° <b>8</b> 22'17	
evening set	4611 Dec 07 04:12	23° <b>х</b> 39'17		minimum elong	4614 May 12 14:30	22° <b>8</b> 55'37	
inferior conj	4611 Dec 12 20:42	20° <b>√</b> 19'02		max. Earth dist.	4614 May 15 22:29	_	1.72323 AU
minimum elong	4611 Dec 13 03:31	20° <b>∡</b> ′08'37	3°06'41	_	4614 May 18 07:04	0°Π	
min. Earth dist.	4611 Dec 13 14:35	19° <b>∡</b> 51'43	0.27136 AU	asc. node	4614 Jun 11 05:34	29° <b>∏</b> 38'38	
morning rise	4611 Dec 19 02:03	16° <b>₹</b> 39'38			4614 Jun 11 12:29	$0$ $\circ$	
asc. node	4611 Dec 25 10:23	13° <b>∡</b> ⁴49'49		evening rise	4614 Jun 19 18:12	10° <b>©</b> 09'49	
direct	4612 Jan 02 15:35	12° <b>≯</b> 26′11			4614 Jul 05 21:17	$0$ $\circ$ $\Omega$	
greatest brilliancy	4612 Jan 13 14:49	14° <b>∡</b> ′41′50	-4.9m		4614 Jul 30 09:34	0° <b>™</b>	
	4612 Feb 05 18:07	8°0			4614 Aug 24 02:18	0∘ <b>ত</b>	
morning max el	4612 Feb 22 08:01	15° <b>る</b> 39'55	46°58'40		4614 Sep 18 01:30	0° <b>M</b>	
	4612 Mar 06 22:41	0° <b>≈</b>		desc. node	4614 Sep 30 20:18	15° <b>™</b> 11'17	
	4612 Apr 02 12:21	0° <b>∀</b>			4614 Oct 13 10:16	0° <b>∡</b> ¹	
desc. node	4612 Apr 15 01:23	14° <b>)</b> (41′54			4614 Nov 08 10:11	0°₹	
	4612 Apr 27 22:38	$0$ ° $\Upsilon$			4614 Dec 05 16:55	0° <b>≈</b>	
	4612 May 22 21:42	0°8		evening max el	4614 Dec 15 22:44	10° <b>≈</b> 32'27	46°56'51
	4612 Jun 16 16:06	$\Pi$ $^{\circ}0$			4615 Jan 06 09:06	0° <b>∀</b>	
	4612 Jul 11 08:22	$0$ $\circ$ $60$		asc. node	4615 Jan 21 22:19	10° <b>∺</b> 00'38	
	4612 Aug 04 22:39	$\mathfrak{O}_{\circ} \mathfrak{O}$		greatest brilliancy	4615 Jan 25 07:50	11° <b>)</b> €25'37	-4.9m
asc. node	4612 Aug 06 03:17	1° <b>Ω</b> 27'29		retrograde	4615 Feb 04 10:43	13° <b>)</b> €21'44	
morning set	4612 Aug 23 20:14	23° <b>Ω</b> 08'44		evening set	4615 Feb 20 10:43	8° <b>升</b> 18'33	
	4612 Aug 29 10:11	0° <b>m</b> )		min. Earth dist.	4615 Feb 24 09:11	5° <b>¥</b> 56'49	0.26836 AU
	4612 Sep 22 18:36	0∘ <b>⊽</b>		inferior conj	4615 Feb 25 00:35	5° <b>¥</b> 33'07	7°31'58
max. Earth dist.	4612 Sep 26 23:07	5° <b>≙</b> 10'29	1.73081 AU	minimum elong	4615 Feb 24 14:25	5° <b>)</b> 48'45	7°30'09
	1			morning rise	4615 Feb 28 18:23	3° <b>)</b> 17'31	
superior conj	4612 Sep 29 06:58	8° <b>ഫ</b> 03'05	1°25'12	Ü	4615 Mar 07 06:29	30°R≈	
minimum elong	4612 Sep 29 06:05	8° <b>♀</b> 00'21	1°25'12	direct	4615 Mar 17 12:58	27° <b>≈</b> 51'21	
	4612 Oct 17 00:32	0°M		greatest brilliancy	4615 Mar 26 18:19	29° <b>≈</b> 28'31	-4.9m
evening rise	4612 Nov 05 08:44	23°M59'07		greatest similare)	4615 Mar 28 05:12	0° <b>∀</b>	,
e vennig 1190	4612 Nov 10 05:04	0° <b>⊼</b>		morning max el	4615 May 06 14:43	0° <b>Υ</b> '03'02	46°35'47
desc. node	4612 Nov 25 18:02	19° <b>√</b> 17'20		morning mun vi	4615 May 06 13:30	0° <b>Υ</b>	.0 35 .7
dese. Hode	4612 Dec 04 09:00	0°る		desc. node	4615 May 13 13:01	7° <b>Υ</b> '03'43	
	4612 Dec 28 12:45	0° <b>≈</b>		dese. Hode	4615 Jun 03 21:01	0°8	
	4613 Jan 21 17:14	0° <b>∀</b>			4615 Jun 30 06:47	0°П	
	4613 Feb 15 01:11	0° <b>Υ</b>			4615 Jul 25 22:17	0°95	
	4613 Mar 11 18:13	0°8			4615 Aug 20 03:12	0°N	
asc. node	4613 Mar 18 20:01	8° <b>8</b> 26'27		asc. node	4615 Sep 03 15:10	17° <b>Ω</b> 27'24	
asc. Houc	4613 Apr 06 06:47	0°Ⅱ		asc. node	4615 Sep 13 23:34	0° m)	
	4613 May 03 14:32	0 .ಪ			4615 Oct 08 12:18	0∘ <del>ت</del> س	
evening max el	4613 May 11 03:49	0 S 7°S38'51	46°07'35	morning set	4615 Nov 01 11:57	0 <b>=</b> 29° <b>£</b> 38'13	
evening max er	4613 Jun 06 07:13	0°Ω	40 07 33	morning set	4615 Nov 01 18:58	29 <b>=</b> 38 13 0° <b>M</b>	
arantant brillianav		6° <b>Ω</b> 35'44	-4.8m			0° <b>∕</b> 7	
greatest brilliancy	4613 Jun 18 11:53	8° <b>Ω</b> 51'52	-4.0111	may Earth dist	4615 Nov 25 21:30		1 71011 ATT
retrograde desc. node	4613 Jun 29 15:47 4613 Jul 08 10:41	7° <b>Ω</b> 18'21		max. Earth dist.	4615 Dec 06 17:49	13° <b>∡</b> ³32'45	1.71811 AU
		4°Ω24'35		aumorior aoni	4615 Dec 09 12:51	17° <b>∡</b> '02'14	0024120
evening set	4613 Jul 14 18:05		0.20010 ATT	superior conj			
min. Earth dist.	4613 Jul 20 16:29		0.28818 AU	minimum elong	4615 Dec 09 20:33	17° <b>₹</b> 26'16	0-34-06
inferior conj	4613 Jul 21 02:11	0° <b>Ω</b> 36'06			4615 Dec 19 21:32	0°る	
minimum elong	4613 Jul 20 19:55	0° <b>Ω</b> 45'54	2°56'11	desc. node	4615 Dec 24 05:52	5° <b>る</b> 26'36	
	4613 Jul 22 01:17	30°R≌			4616 Jan 12 20:02	0°≈ 70××20107	
morning rise	4613 Jul 26 22:10	27°505'15		evening rise	4616 Jan 18 16:23	7°≈20'07	
direct	4613 Aug 11 13:57	22°523'06	4.7		4616 Feb 05 17:52	0° <b>)</b> €	
greatest brilliancy	4613 Aug 21 15:27	24° <b>©</b> 12'46	-4./m		4616 Feb 29 16:35	0° <b>Υ</b>	
	4613 Sep 02 07:04	0°N	45046110	,	4616 Mar 24 18:48	0°8	
morning max el	4613 Sep 29 09:15	22° <b>Ω</b> 11'50	45~46'19	asc. node	4616 Apr 15 07:53	26° <b>8</b> 31'57	
	4613 Oct 07 07:14	0° Mp			4616 Apr 18 04:01	0° <b>I</b> I	
asc. node	4613 Oct 29 12:50	23° <b>m</b> 41'51			4616 May 13 00:48	0° <b>©</b>	
	4613 Nov 04 03:55	0∘ <b>⊽</b>			4616 Jun 07 16:37	0° <b>N</b>	
	4613 Nov 29 23:48	0°M			4616 Jul 04 20:56	0° <b>m</b>	
	4613 Dec 24 20:26	0° ⊀ <sup>7</sup>		evening max el	4616 Jul 20 17:19	16° Mp 01'13	45°31'04
	4614 Jan 18 04:59	0°ප		desc. node	4616 Aug 04 22:39	29° <b>m</b> 37'24	

	4616 Aug 05 09:48	0∘ <b>⊽</b>			4619 Feb 20 06:10	0° <b>)</b> €	
greatest brilliancy	4616 Aug 28 08:52	0 <b>—</b> 13° <b>Ω</b> 59'17	-4.7m		4017160 20 00.10	υ <b>/</b> (	
retrograde	4616 Sep 07 08:38	15° <b>≏</b> 47'09	.,,	superior conj	4619 Feb 23 07:23	3° <b>¥</b> 50′20	-1°09'55
evening set	4616 Sep 25 10:37	9° <b>Ω</b> 43'03		minimum elong	4619 Feb 22 19:47	3° <b>)</b> 13′49	
inferior conj	4616 Sep 28 19:37	7° <b>£</b> 37'57	-8°36'41	max. Earth dist.	4619 Feb 23 23:54	4° <b>¥</b> 42'19	1.71139 AU
minimum elong	4616 Sep 28 18:17	7° <b>≏</b> 40'02	8°36'40		4619 Mar 16 02:44	$0^{\circ}\mathbf{\Upsilon}$	
min. Earth dist.	4616 Sep 29 05:19	7° <b>≏</b> 22'44	0.28929 AU	evening rise	4619 Apr 05 04:00	25° <b>Ƴ</b> 08'44	
morning rise	4616 Oct 02 01:49	5° <b>≏</b> 36'36			4619 Apr 09 01:12	$9^{\circ}$ 8	
•	4616 Oct 14 15:12	30°₽, <b>Т</b> р			4619 May 03 03:33	$\Pi^{\circ}0$	
direct	4616 Oct 20 08:34	29° m 20'53		asc. node	4619 May 13 19:46	13° <b>Ⅱ</b> 12'02	
	4616 Oct 26 05:42	0∘ <b>⊽</b>			4619 May 27 11:33	0°€	
greatest brilliancy	4616 Oct 31 05:17	1° <b>≏</b> 29'30	-4.8m		4619 Jun 21 02:54	$0^{\circ}\Omega$	
asc. node	4616 Nov 26 00:34	18° <b>≏</b> 39'52			4619 Jul 16 04:14	0° <b>m</b> )	
	4616 Dec 08 03:14	$0^{\circ}$ M.			4619 Aug 10 21:05	0∘ <b>ऌ</b>	
morning max el	4616 Dec 09 05:44	1°M05'51	46°24'32	desc. node	4619 Sep 02 10:24	25° <b>≙</b> 18'49	
	4617 Jan 05 03:38	0° <b>∡</b>			4619 Sep 06 17:57	0° <b>M</b>	
	4617 Jan 30 21:23	0°ප		evening max el	4619 Oct 01 12:16	25°M25'06	45°56'52
	4617 Feb 24 17:42	0° <b>≈</b>			4619 Oct 06 09:11	0° <b>∡</b> ¹	
desc. node	4617 Mar 17 15:25	25° <b>≈</b> 38′22		greatest brilliancy	4619 Nov 10 08:10	24° <b>₰</b> ¹06'27	-4.8m
	4617 Mar 21 04:21	0° <b>∀</b>		retrograde	4619 Nov 19 15:17	25° <b>∡</b> ¹41'50	
	4617 Apr 14 10:50	$0$ ° $\Upsilon$		evening set	4619 Dec 04 19:45	21° <b>х¹</b> 13'43	
	4617 May 08 16:20	0°8		inferior conj	4619 Dec 10 09:54	17° <b>∡</b> 56′20	-3°30'07
	4617 Jun 01 22:41	$\Pi$ $^{\circ}0$		minimum elong	4619 Dec 10 17:23	17° <b>∡¹</b> 44'55	3°27'56
morning set	4617 Jun 14 01:36	14° <b>Ⅱ</b> 57'37		min. Earth dist.	4619 Dec 11 04:24	17° <b>∡</b> ¹28'05	0.27195 AU
	4617 Jun 26 06:30	0		morning rise	4619 Dec 16 14:19	14° <b>≯</b> 18′20	
asc. node	4617 Jul 08 17:28	15° <b>©</b> 20'21		asc. node	4619 Dec 24 12:28	10° <b>∡</b> 758′50	
	4617 Jul 20 15:23	$0^{\circ}\Omega$		direct	4619 Dec 31 06:04	10° <b>∡</b> 02'36	
				greatest brilliancy	4620 Jan 11 05:16	12° <b>∡</b> 18'45	-4.9m
superior conj	4617 Jul 21 10:04	0° <b>Ω</b> 57'28			4620 Feb 06 01:36	0°₹	
minimum elong	4617 Jul 21 04:07	0° <b>Ω</b> 39'10		morning max el	4620 Feb 19 23:19	13° <b>る</b> 19'59	46°58'20
max. Earth dist.	4617 Jul 21 20:04		1.73420 AU		4620 Mar 06 17:07	0° <b>≈</b>	
	4617 Aug 14 00:38	0°Щ			4620 Apr 02 03:10	0° <b>∀</b>	
evening rise	4617 Aug 26 14:11	15° <b>™</b> 27'07		desc. node	4620 Apr 14 03:14	14° <b>)</b> €06'27	
	4617 Sep 07 10:09	0∘ <b>⊽</b>			4620 Apr 27 11:45	0° <b>Υ</b>	
	4617 Oct 01 20:37	0° <b>M</b>			4620 May 22 09:48	0°B	
	4617 Oct 26 08:57	0° <b>∡</b>			4620 Jun 16 03:34	$\Pi^{\circ}0$	
desc. node	4617 Oct 28 08:07	2° <b>₹</b> 23'58			4620 Jul 10 19:26	0°99	
	4617 Nov 19 23:55	ರ್∘ರ			4620 Aug 04 09:28	0°N	
	4617 Dec 14 18:44	0° <b>≈</b>		asc. node	4620 Aug 05 05:20	1° <b>Ω</b> 00'44	
	4618 Jan 08 21:28	0° <b>)</b> €		morning set	4620 Aug 21 14:03	21° <b>Ω</b> 03′20	
	4618 Feb 03 19:57	0° <b>Υ</b>			4620 Aug 28 20:52	0° <b>m</b> )	
asc. node	4618 Feb 18 10:12	15° <b>Y</b> 59'47	47002140	E d E c	4620 Sep 22 05:16	0° <b>⊽</b>	1 52115 433
evening max el	4618 Feb 26 07:50	24° <b>Y</b> 12'49	4/~03'49	max. Earth dist.	4620 Sep 24 18:39	3° <b>₾</b> 09'33	1.73115 AU
	4618 Mar 04 03:30	0° <b>と</b> 25° <b>と</b> 26'47	4.0		4620 C 27 00-29	59 <b>0</b> 5 (110	192450
greatest brilliancy	4618 Apr 07 17:38	_	-4.9m	superior conj	4620 Sep 27 00:38		1°24'59
retrograde evening set	4618 Apr 18 00:13	27° <b>8</b> 26'45 21° <b>8</b> 54'35		minimum elong	4620 Sep 26 23:04 4620 Oct 16 11:16	5° <b>Ω</b> 51'28	1°24'59
inferior conj	4618 May 04 21:37 4618 May 09 01:36	19° <b>8</b> 21'03	6°54'50	evening rise	4620 Nov 03 00:08	0° <b>ጤ</b> 21° <b>ጤ</b> 44'17	
minimum elong	4618 May 09 11:50	19° <b>8</b> 05'02		evening rise	4620 Nov 09 15:58	21 11 <b>3</b> 44 17	
min. Earth dist.	4618 May 08 23:05		0.27876 AU	desc. node	4620 Nov 24 20:03	18° <b>∡</b> 749'18	
morning rise	4618 May 14 02:18	16° <b>8</b> 17'43	0.27870 AU	desc. Hode	4620 Dec 03 20:09	0°중 9°0	
direct	4618 May 29 23:51	11° <b>8</b> 22'21			4620 Dec 28 00:11	0° <b>≈</b>	
greatest brilliancy	4618 Jun 08 17:23	13° <b>8</b> 06'25	-4.8m		4621 Jan 21 05:03	0° <b>∀</b>	
desc. node	4618 Jun 10 00:47	13° <b>8</b> 34'48	4.011		4621 Feb 14 13:31	0° <b>Υ</b>	
desc. Hode	4618 Jul 05 04:05	0°Ⅱ			4621 Mar 11 07:28	0°8	
morning max el	4618 Jul 18 01:34	11° <b>∏</b> 42'50	45°52'20	asc. node	4621 Mar 17 07:26	7° <b>8</b> 51'45	
morning max or	4618 Aug 05 03:30	0°95	13 32 20	use. Houe	4621 Apr 05 21:50	0°II	
	4618 Sep 01 12:25	0°Ω			4621 May 03 10:14	0ංම 0 ප	
	4618 Sep 27 11:55	0° <b>m</b> )		evening max el	4621 May 08 20:32	5° <b>5</b> 27'58	46°09'41
asc. node	4618 Oct 01 03:01	4° Mp 16'40			4621 Jun 07 08:50	0° <b>Ω</b>	,,
	4618 Oct 22 15:33	0° <b>م</b>		greatest brilliancy	4621 Jun 16 04:26	4° <b>Ω</b> 25'59	-4.8m
	4618 Nov 16 05:49	0°M		retrograde	4621 Jun 27 08:32	6° <b>Ω</b> 41'54	
	4618 Dec 10 11:27	0° <b>∡</b> 7		desc. node	4621 Jul 07 12:45	4° <b>£</b> 37'03	
	4619 Jan 03 11:59	0°ප		evening set	4621 Jul 12 09:46	2° <b>Ω</b> 16'00	
morning set	4619 Jan 13 00:16	11° <b>る</b> 55'21		J	4621 Jul 16 06:18	30° <b></b> ₹©	
desc. node	4619 Jan 20 17:42	21° <b>る</b> 37'18		inferior conj	4621 Jul 18 18:24	28° <b>©</b> 26'23	-2°39'03
	4619 Jan 27 09:43	0° <b>≈</b>		minimum elong	4621 Jul 18 12:45	28° <b>©</b> 35'15	
				3			

min. Earth dist.	4621 Jul 18 08:33	28° <b>5</b> 41'49	0.28785 AU		4624 Jan 12 07:14	0°æ	
			0.28783 AU	avanina risa		0 ≈ 4°≈50'00	
morning rise	4621 Jul 24 16:14	24°952'59		evening rise	4624 Jan 16 03:44		
direct	4621 Aug 09 06:24	20°514'03	4.7		4624 Feb 05 05:12	0° <b>)</b> €	
greatest brilliancy	4621 Aug 19 06:16	22°902'28	-4.7m		4624 Feb 29 04:04	0° <b>Ƴ</b>	
	4621 Sep 03 05:34	0°N			4624 Mar 24 06:31	0° <b>8</b>	
morning max el	4621 Sep 27 00:57	20° <b>Ω</b> 01′25	45°45'27	asc. node	4624 Apr 14 09:54	26° <b>8</b> 01'19	
	4621 Oct 07 02:27	0° <b>m</b> )			4624 Apr 17 16:07	$\Pi$ °0	
asc. node	4621 Oct 28 14:52	23° Mp 04'54			4624 May 12 13:39	0ංම	
	4621 Nov 03 18:36	0∘ <b>ऌ</b>			4624 Jun 07 06:58	$0^{\circ}\Omega$	
	4621 Nov 29 12:46	0°M₊			4624 Jul 04 14:58	0° <b>m</b> )	
	4621 Dec 24 08:35	0° <b>∡</b>		evening max el	4624 Jul 18 07:45	13° <b>m</b> 46'36	45°31'27
	4622 Jan 17 16:42	0°ප		desc. node	4624 Aug 04 00:39	28° <b>m</b> 35'33	
	4622 Feb 10 18:47	0° <b>≈</b>			4624 Aug 05 19:48	0∘ <b>ত</b>	
desc. node	4622 Feb 17 05:33	8° <b>≈</b> 03'51		greatest brilliancy	4624 Aug 25 23:13	11° <b>≏</b> 47'34	-4.7m
	4622 Mar 06 17:59	0° <b>∀</b>		retrograde	4624 Sep 05 00:08	13° <b>≏</b> 36'59	
morning set	4622 Mar 30 22:48	0° <b>Υ</b> 19'57		evening set	4624 Sep 23 00:57	7° <b>£</b> 34'34	
_	4622 Mar 30 16:26	$0^{\circ}\mathbf{\Upsilon}$		inferior conj	4624 Sep 26 11:41	5° <b>≏</b> 27'04	-8°34'43
	4622 Apr 23 15:56	0°8		minimum elong	4624 Sep 26 09:33	5° <b>ഫ</b> 30'23	8°34'39
	1	_		min. Earth dist.	4624 Sep 26 20:31		0.28962 AU
superior conj	4622 May 09 17:19	20° <b>8</b> 01'00	-1°06'44	morning rise	4624 Sep 29 18:00	3° <b>£</b> 25'37	
minimum elong	4622 May 10 03:59	20° <b>8</b> 34'12			4624 Oct 06 00:52	30°R, Mp	
max. Earth dist.	4622 May 13 15:08		1.72268 AU	direct	4624 Oct 18 00:24	27° <b>m</b> ) 09'28	
max. Lartii dist.	4622 May 17 18:00	0°II	1.72200 AC	greatest brilliancy	4624 Oct 28 21:31	29° m) 18'13	-4.8m
aga mada	•	29° <b>Ⅱ</b> 11'35		greatest offinality		0° <del>0</del>	-4.0111
asc. node	4622 Jun 10 07:42			4-	4624 Oct 30 15:06		
	4622 Jun 10 23:23	0°9		asc. node	4624 Nov 25 02:40	17° <b>£</b> 41'42	46022156
evening rise	4622 Jun 17 10:19	7°957'56		morning max el	4624 Dec 06 20:36	28° <b>≏</b> 48'30	46°22'56
	4622 Jul 05 08:13	0° <b>N</b>			4624 Dec 08 01:11	0° <b>M</b> .	
	4622 Jul 29 20:41	0° <b>m</b> )			4625 Jan 04 19:35	0° <b>∡</b> ¹	
	4622 Aug 23 13:49	0∘ <b>⊽</b>			4625 Jan 30 11:12	0°ಕ	
	4622 Sep 17 13:43	0°M₊			4625 Feb 24 06:29	0° <b>≈</b>	
desc. node	4622 Sep 29 22:12	14°M39'20		desc. node	4625 Mar 16 17:22	25° <b>≈</b> 06'37	
	4622 Oct 12 23:42	0° <b>≯</b> 7			4625 Mar 20 16:31	0° <b>∀</b>	
	4622 Nov 08 01:45	0°ಕ			4625 Apr 13 22:34	$0^{\circ}$ Y	
	4622 Dec 05 13:19	0° <b>≈</b>			4625 May 08 03:44	$9^{\circ}$ 8	
evening max el	4622 Dec 13 12:28	8° <b>≈</b> 08'18	46°55'07		4625 Jun 01 09:50	$\Pi^{\circ}0$	
	4623 Jan 07 03:36	0° <b>∀</b>		morning set	4625 Jun 11 17:37	12° <b>Ⅱ</b> 44'49	
asc. node	4623 Jan 21 00:24	8° <b>₩</b> 13'41			4625 Jun 25 17:29	$0$ $\circ$ $\odot$	
greatest brilliancy	4623 Jan 22 21:27	8° <b>¥</b> 58′01	-4.9m	asc. node	4625 Jul 07 19:29	14° <b>©</b> 52'52	
retrograde	4623 Feb 01 22:59	10° <b>)</b> 52'47					
evening set	4623 Feb 17 19:14	5° <b>¥</b> 56'25		superior conj	4625 Jul 19 03:31	28°949'59	0°26'44
min. Earth dist.	4623 Feb 21 22:20	3° <b>¥</b> 28′01	0.26802 AU	minimum elong	4625 Jul 18 22:05	28° <b>©</b> 33'17	0°26'27
inferior conj	4623 Feb 22 13:07	3° <b>∺</b> 05'15	7°18'10	max. Earth dist.	4625 Jul 19 15:12	29° <b>©</b> 25'55	1.73405 AU
minimum elong	4623 Feb 22 02:39	3° <b>)</b> €21'23	7°16'08		4625 Jul 20 02:16	$0^{\circ}\Omega$	
morning rise	4623 Feb 26 10:18	0° <b>)</b> (44'32			4625 Aug 13 11:32	0° <b>m</b> )	
morning rise	4623 Feb 27 17:36	30°R≈		evening rise	4625 Aug 24 08:42	13° <b>m</b> ) 22'53	
direct	4623 Mar 15 01:01	25°≈23'56		evening rise	4625 Sep 06 21:10	0∘ <mark>ರ</mark>	
greatest brilliancy	4623 Mar 24 07:46	27°≈01'51	-4 9m		4625 Oct 01 07:52	o° <b>m</b>	
greatest offinality	4623 Mar 31 02:07	0° <b>∺</b>	-4.7111		4625 Oct 25 20:34	0° <b>⊼</b> ″	
morning max el		27° <b>H</b> 35'52	16027117	dasa nada		1° <b>∡</b> 754'50	
morning max ci	4623 May 04 02:41 4623 May 06 12:21	27 <b>π</b> 33 32 0° <b>Υ</b>	-TU 3/1/	desc. node	4625 Oct 27 10:13 4625 Nov 19 12:06	0°る	
JJ.	•	6° <b>Υ</b> 15'49				0°≈	
desc. node	4623 May 12 15:08	6° <b>ド</b> 1549			4625 Dec 14 07:46	0° <b>∺</b>	
						()" <del>//</del>	
	4623 Jun 03 13:20				4626 Jan 08 11:54		
	4623 Jun 29 20:36	$\Pi^{\circ}0$			4626 Feb 03 13:11	0° <b>Ƴ</b>	
	4623 Jun 29 20:36 4623 Jul 25 10:47	0° <b>©</b> 1		asc. node	4626 Feb 03 13:11 4626 Feb 17 12:05	0° <b>Υ</b> 15° <b>Υ</b> 11'28	.=
	4623 Jun 29 20:36 4623 Jul 25 10:47 4623 Aug 19 14:55	0°Ω 0°9 1°0		asc. node evening max el	4626 Feb 03 13:11 4626 Feb 17 12:05 4626 Feb 23 21:53	0° <b>Υ</b> 15° <b>Υ</b> 11'28 21° <b>Υ</b> 49'44	47°04'53
asc. node	4623 Jun 29 20:36 4623 Jul 25 10:47 4623 Aug 19 14:55 4623 Sep 02 17:07	0°Ⅱ 0°ᢒ 0°Ω 16°Ω58'47		evening max el	4626 Feb 03 13:11 4626 Feb 17 12:05 4626 Feb 23 21:53 4626 Mar 04 05:05	0°Υ 15°Υ11'28 21°Υ49'44 0°႘	
asc. node	4623 Jun 29 20:36 4623 Jul 25 10:47 4623 Aug 19 14:55 4623 Sep 02 17:07 4623 Sep 13 10:49	0°Ⅱ 0°ᢒ 0°Ω 16°Ω58'47 0°₥		evening max el greatest brilliancy	4626 Feb 03 13:11 4626 Feb 17 12:05 4626 Feb 23 21:53 4626 Mar 04 05:05 4626 Apr 05 08:43	0°Υ 15°Υ11'28 21°Υ49'44 0°႘ 23°႘06'33	47°04'53 -4.9m
	4623 Jun 29 20:36 4623 Jul 25 10:47 4623 Aug 19 14:55 4623 Sep 02 17:07 4623 Sep 13 10:49 4623 Oct 07 23:19	0°II 0°ടാ 0°A 16°A58'47 0°M 0°മ		evening max el greatest brilliancy retrograde	4626 Feb 03 13:11 4626 Feb 17 12:05 4626 Feb 23 21:53 4626 Mar 04 05:05 4626 Apr 05 08:43 4626 Apr 15 15:14	0°Y 15°Y11'28 21°Y49'44 0°8 23°8'06'33 25°8'06'48	
asc. node	4623 Jun 29 20:36 4623 Jul 25 10:47 4623 Aug 19 14:55 4623 Sep 02 17:07 4623 Sep 13 10:49 4623 Oct 07 23:19 4623 Oct 30 04:12	0°∏ 0°© 0°Ω 16°Ω58'47 0°™ 0°Ω 27°Ω25'49		evening max el greatest brilliancy retrograde evening set	4626 Feb 03 13:11 4626 Feb 17 12:05 4626 Feb 23 21:53 4626 Mar 04 05:05 4626 Apr 05 08:43 4626 Apr 15 15:14 4626 May 02 15:16	0°Υ 15°Υ11'28 21°Υ49'44 0°႘ 23°႘06'33 25°႘06'48 19°႘29'47	-4.9m
	4623 Jun 29 20:36 4623 Jul 25 10:47 4623 Aug 19 14:55 4623 Sep 02 17:07 4623 Sep 13 10:49 4623 Oct 07 23:19	0°II 0°ടാ 0°A 16°A58'47 0°M 0°മ		evening max el greatest brilliancy retrograde	4626 Feb 03 13:11 4626 Feb 17 12:05 4626 Feb 23 21:53 4626 Mar 04 05:05 4626 Apr 05 08:43 4626 Apr 15 15:14	0°Y 15°Y11'28 21°Y49'44 0°℧ 23°℧06'33 25°℧06'48 19°℧29'47 17°℧01'21	-4.9m 7°08'51
	4623 Jun 29 20:36 4623 Jul 25 10:47 4623 Aug 19 14:55 4623 Sep 02 17:07 4623 Sep 13 10:49 4623 Oct 07 23:19 4623 Oct 30 04:12	0°∏ 0°© 0°Ω 16°Ω58'47 0°™ 0°Ω 27°Ω25'49		evening max el greatest brilliancy retrograde evening set	4626 Feb 03 13:11 4626 Feb 17 12:05 4626 Feb 23 21:53 4626 Mar 04 05:05 4626 Apr 05 08:43 4626 Apr 15 15:14 4626 May 02 15:16	0°Υ 15°Υ11'28 21°Υ49'44 0°႘ 23°႘06'33 25°႘06'48 19°႘29'47	-4.9m
	4623 Jun 29 20:36 4623 Jul 25 10:47 4623 Aug 19 14:55 4623 Sep 02 17:07 4623 Sep 13 10:49 4623 Oct 07 23:19 4623 Oct 30 04:12 4623 Nov 01 05:55	0° II 0° © 0° ብ 16° ብ 58'47 0° ሙ 0° <del>요</del> 27° <del>요</del> 25'49 0° ጤ	1.71862 AU	evening max el greatest brilliancy retrograde evening set inferior conj	4626 Feb 03 13:11 4626 Feb 17 12:05 4626 Feb 23 21:53 4626 Mar 04 05:05 4626 Apr 05 08:43 4626 Apr 15 15:14 4626 May 02 15:16 4626 May 06 16:01	0°Y 15°Y11'28 21°Y49'44 0°8 23°8'06'33 25°8'06'48 19°8'29'47 17°8'01'21 16°8'45'36 17°8'05'38	-4.9m 7°08'51
morning set	4623 Jun 29 20:36 4623 Jul 25 10:47 4623 Aug 19 14:55 4623 Sep 02 17:07 4623 Sep 13 10:49 4623 Oct 07 23:19 4623 Oct 30 04:12 4623 Nov 01 05:55 4623 Nov 25 08:30	0° II 0° © 0° N 16° N 58'47 0° M 0° Ω 27° Ω 25'49 0° M 0° N	1.71862 AU	greatest brilliancy retrograde evening set inferior conj minimum elong	4626 Feb 03 13:11 4626 Feb 17 12:05 4626 Feb 23 21:53 4626 Mar 04 05:05 4626 Apr 05 08:43 4626 Apr 15 15:14 4626 May 02 15:16 4626 May 06 16:01 4626 May 07 02:06	0°Y 15°Y11'28 21°Y49'44 0°8 23°8'06'33 25°8'06'48 19°8'29'47 17°8'01'21 16°8'45'36	-4.9m 7°08'51 7°06'58
morning set	4623 Jun 29 20:36 4623 Jul 25 10:47 4623 Aug 19 14:55 4623 Sep 02 17:07 4623 Sep 13 10:49 4623 Oct 07 23:19 4623 Oct 30 04:12 4623 Nov 01 05:55 4623 Nov 25 08:30	0° II 0° © 0° N 16° N 58'47 0° M 0° Ω 27° Ω 25'49 0° M 0° N	1.71862 AU 0°37'46	greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	4626 Feb 03 13:11 4626 Feb 17 12:05 4626 Feb 23 21:53 4626 Mar 04 05:05 4626 Apr 05 08:43 4626 Apr 15 15:14 4626 May 02 15:16 4626 May 06 16:01 4626 May 07 02:06 4626 May 06 13:16	0°Y 15°Y11'28 21°Y49'44 0°8 23°8'06'33 25°8'06'48 19°8'29'47 17°8'01'21 16°8'45'36 17°8'05'38	-4.9m 7°08'51 7°06'58
morning set max. Earth dist.	4623 Jun 29 20:36 4623 Jul 25 10:47 4623 Aug 19 14:55 4623 Sep 02 17:07 4623 Sep 13 10:49 4623 Oct 07 23:19 4623 Oct 30 04:12 4623 Nov 01 05:55 4623 Nov 25 08:30 4623 Dec 04 05:32	0° II 0° © 0° ብ 16° ብ58'47 0° ነው 0° <u>ዓ</u> 27° <u>ዓ</u> 25'49 0° ነገ 0° % 11° % 05'02		greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	4626 Feb 03 13:11 4626 Feb 17 12:05 4626 Feb 23 21:53 4626 Mar 04 05:05 4626 Apr 05 08:43 4626 Apr 15 15:14 4626 May 02 15:16 4626 May 06 16:01 4626 May 07 02:06 4626 May 06 13:16 4626 May 11 13:09	0°Y 15°Y11'28 21°Y49'44 0°8 23°8'06'33 25°8'06'48 19°8'29'47 17°8'01'21 16°8'45'36 17°8'05'38 14°8'03'29	-4.9m 7°08'51 7°06'58 0.27847 AU
morning set  max. Earth dist.  superior conj	4623 Jun 29 20:36 4623 Jul 25 10:47 4623 Aug 19 14:55 4623 Sep 02 17:07 4623 Sep 13 10:49 4623 Oct 07 23:19 4623 Oct 30 04:12 4623 Nov 01 05:55 4623 Nov 25 08:30 4623 Dec 04 05:32	0° II 0° © 0° ብ 16° ብ58'47 0° ነው 0°	0°37'46	greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	4626 Feb 03 13:11 4626 Feb 17 12:05 4626 Feb 23 21:53 4626 Mar 04 05:05 4626 Apr 05 08:43 4626 Apr 15 15:14 4626 May 02 15:16 4626 May 06 16:01 4626 May 07 02:06 4626 May 06 13:16 4626 May 11 13:09 4626 May 27 13:42	0°Y 15°Y11'28 21°Y49'44 0°8 23°8'06'33 25°8'06'48 19°8'29'47 17°8'01'21 16°8'45'36 17°8'05'38 14°8'03'29 9°8'02'58	-4.9m 7°08'51 7°06'58 0.27847 AU
morning set  max. Earth dist.  superior conj	4623 Jun 29 20:36 4623 Jul 25 10:47 4623 Aug 19 14:55 4623 Sep 02 17:07 4623 Sep 13 10:49 4623 Oct 07 23:19 4623 Oct 30 04:12 4623 Nov 01 05:55 4623 Nov 25 08:30 4623 Dec 04 05:32 4623 Dec 07 02:27 4623 Dec 07 10:41	0° II 0° © 0° ብ 16° ብ58'47 0° ነው 0°	0°37'46	greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	4626 Feb 03 13:11 4626 Feb 17 12:05 4626 Feb 23 21:53 4626 Mar 04 05:05 4626 Apr 05 08:43 4626 Apr 15 15:14 4626 May 02 15:16 4626 May 06 16:01 4626 May 07 02:06 4626 May 06 13:16 4626 May 11 13:09 4626 May 27 13:42 4626 Jun 06 06:54	0°Y 15°Y11'28 21°Y49'44 0°8 23°8'06'33 25°8'06'48 19°8'29'47 17°8'01'21 16°8'45'36 17°8'05'38 14°8'03'29 9°8'02'58 10°8'47'13	-4.9m 7°08'51 7°06'58 0.27847 AU

morning max el	4626 Jul 15 17:08	9° <b>Ⅱ</b> 29'20	45°53'30	asc. node	4629 Mar 16 23:59	7° <b>8</b> 17'26	
C	4626 Aug 04 21:10	0°9			4629 Apr 05 13:04	0°Ⅱ	
	4626 Sep 01 02:37	$0^{\circ}\Omega$			4629 May 03 06:36	0∘ <b>©</b>	
	4626 Sep 27 00:34	0° <b>m</b>		evening max el	4629 May 06 12:33	3°514'58	46°11'32
asc. node	4626 Sep 30 05:00	3° m/45'33			4629 Jun 08 21:48	$0^{\circ}\Omega$	
	4626 Oct 22 03:25	0∘ <b>⊽</b>		greatest brilliancy	4629 Jun 13 21:30	2° <b>Ω</b> 16′07	-4.8m
	4626 Nov 15 17:15	0° <b>M</b> ₊		retrograde	4629 Jun 25 00:39	4° <b>Ω</b> 31′04	
	4626 Dec 09 22:40	0° <b>∡</b> 7		desc. node	4629 Jul 06 14:44	1° <b>Ω</b> 50'36	
	4627 Jan 02 23:06	5°0		evening set	4629 Jul 10 01:29	0° <b>Ω</b> 06'26	
morning set	4627 Jan 10 12:05	9° <b>る</b> 27'03			4629 Jul 10 06:08	30° <b>₹</b> 5	
desc. node	4627 Jan 19 19:41	21° <b>පි</b> 08'41		inferior conj	4629 Jul 16 10:31	26° <b>©</b> 16'01	-2°19'43
	4627 Jan 26 20:49	0° <b>≈</b>		minimum elong	4629 Jul 16 05:30	26°523'54	2°18'16
	4627 Feb 19 17:17	0° <b>ℋ</b>		min. Earth dist.	4629 Jul 16 00:56	26°531'05	0.28753 AU
				morning rise	4629 Jul 22 10:02	22°5540'01	
superior conj	4627 Feb 20 17:44	1° <b>∺</b> 16'55	-1°07'29	direct	4629 Aug 06 22:24	18° <b>5</b> 04'22	
minimum elong	4627 Feb 20 05:52	0° <b>)</b> 39'36	1°07'05	greatest brilliancy	4629 Aug 16 21:33	19° <b>©</b> 51'58	-4.7m
max. Earth dist.	4627 Feb 21 08:39	2° <b>∺</b> 03'50	1.71137 AU		4629 Sep 03 22:22	$0$ $^{\circ}\Omega$	
	4627 Mar 15 13:52	$0$ ° $\mathbf{\Upsilon}$		morning max el	4629 Sep 24 15:39	17° <b>Ω</b> 48′25	45°44'46
evening rise	4627 Apr 02 15:00	22° <b>Y</b> 38'06			4629 Oct 06 21:10	0° <b>™</b>	
	4627 Apr 08 12:22	$9^{\circ}$ 8		asc. node	4629 Oct 27 17:01	22° Mp 28'42	
	4627 May 02 14:47	$\Pi$ $^{\circ}0$			4629 Nov 03 09:04	0∘ <b>ত</b>	
asc. node	4627 May 12 21:52	12° <b>Ⅱ</b> 43'38			4629 Nov 29 01:34	$0^{\circ}$ M	
	4627 May 26 22:59	$0$ $\circ$ $\odot$			4629 Dec 23 20:36	0° <b>∡</b> ″	
	4627 Jun 20 14:42	$0$ $^{\circ}$ $\Omega$			4630 Jan 17 04:17	0°ಕ	
	4627 Jul 15 16:45	O° <b>m</b>			4630 Feb 10 06:06	0° <b>≈</b>	
	4627 Aug 10 10:59	0∘ <b>⊽</b>		desc. node	4630 Feb 16 07:30	7° <b>≈</b> 34'40	
desc. node	4627 Sep 01 12:19	24° <b>£</b> 39'54			4630 Mar 06 05:06	0° <b>∀</b>	
	4627 Sep 06 10:53	0° <b>M</b> ₊		morning set	4630 Mar 28 10:05	27° <b>¥</b> 50′38	
evening max el	4627 Sep 29 03:21	23°M10'13	45°55'08		4630 Mar 30 03:23	$0$ ° $\Upsilon$	
	4627 Oct 06 11:41	0° <b>⊼</b>			4630 Apr 23 02:46	$9^{\circ}$ 8	
greatest brilliancy	4627 Nov 07 21:07	21° <b>∡</b> ⁴45′02	-4.8m				
retrograde	4627 Nov 17 04:39	23° <b>≯</b> 20′12		superior conj	4630 May 07 07:03	17° <b>8</b> 40'48	
evening set	4627 Dec 02 11:40	18° <b>≯</b> 48'35		minimum elong	4630 May 07 17:34	18° <b>8</b> 13'34	
inferior conj	4627 Dec 07 23:21	15° <b>∡</b> ³34'07		max. Earth dist.	4630 May 11 07:41	22° <b>8</b> 41'28	1.72215 AU
minimum elong	4627 Dec 08 07:25	15° <b>≯</b> 21'46	3°48'40		4630 May 17 04:46	$\Pi^{\circ}0$	
min. Earth dist.	4627 Dec 08 18:23	15° <b>≯</b> 05'00	0.27252 AU	asc. node	4630 Jun 09 09:41	28° <b>∏</b> 44'27	
morning rise	4627 Dec 14 02:33	11° <b>₹</b> 57'37			4630 Jun 10 10:09	0	
asc. node	4627 Dec 23 14:28	8° <b>≯</b> 13'55		evening rise	4630 Jun 15 02:21	5°5946'09	
direct	4627 Dec 28 20:48	7° <b>∡</b> ³39'41			4630 Jul 04 19:04	$0$ $^{\circ}$ $\Omega$	
greatest brilliancy	4628 Jan 08 19:37	9° <b>∡</b> ′55'41	-4.9m		4630 Jul 29 07:45	0° <b>т</b> р	
	4628 Feb 06 06:53	0°₹			4630 Aug 23 01:17	0∘ <b>⊽</b>	
morning max el	4628 Feb 17 13:54	10°る58'10	46°57'55		4630 Sep 17 01:54	0°M	
	4628 Mar 06 11:10	0° <b>≈</b>		desc. node	4630 Sep 29 00:19	14°M08'15	
	4628 Apr 01 17:53	0° <b>∀</b>			4630 Oct 12 13:05	0° <b>∡</b> 7	
desc. node	4628 Apr 13 05:22	13° <b>)</b> €31'41			4630 Nov 07 17:21	0°る	
	4628 Apr 27 00:55	0° <b>Υ</b>			4630 Dec 05 10:08	0°≈	46050100
	4628 May 21 22:04	8°0		evening max el	4630 Dec 11 01:10	5°≈42'18	46°53'22
	4628 Jun 15 15:15	0°© 0°∏		000 m-J-	4631 Jan 08 04:10	0° <b>){</b> 6°¥22!57	
	4628 Jul 10 06:42			asc. node	4631 Jan 20 02:21	6° <b>¥</b> 22'57	4.0
000 mc J-	4628 Aug 03 20:27	0° <b>Ω</b>		greatest brilliancy	4631 Jan 20 11:10	6° <b>∺</b> 31'06	-4.9m
asc. node	4628 Aug 04 07:16	0° <b>Ω</b> 33'07		retrograde	4631 Jan 30 11:02	8° <b>)</b> €24'42	
morning set	4628 Aug 19 07:39	18° <b>Ω</b> 56'50		evening set	4631 Feb 15 03:48	3° <b>)</b> 34'33 0° <b>)</b> 59'29	0.26773 AU
	4628 Aug 28 07:40	0 <b>் ம</b> 0° <b>ம்</b>		min. Earth dist.	4631 Feb 19 11:46	0° <b>X</b> 39′29 0° <b>X</b> 38′05	
may Forth dist	4628 Sep 21 16:01		1 72145 ATT	inferior conj	4631 Feb 20 01:40		7°03'21
max. Earth dist.	4628 Sep 22 13:06	1° <b>≏</b> 05'04	1.73145 AU	minimum elong	4631 Feb 19 14:59 4631 Feb 21 02:28	0° <b>)</b> 54'33 30°R≈	7°01'10
aumorior comi	4620 Cam 24 10:17	29 0 40117	1924!20	marning rise			
superior conj	4628 Sep 24 18:17	3° <b>£</b> 49'17 3° <b>£</b> 42'20		morning rise direct	4631 Feb 24 02:19	28°≈12'17 22°≈56'53	
minimum elong	4628 Sep 24 16:02 4628 Oct 15 22:06	0°M₁	1 44 30	greatest brilliancy	4631 Mar 12 12:49 4631 Mar 21 21:46	22°≈36'33 24°≈36'25	-4.9m
evening rise	4628 Oct 31 15:42	19°M29'46		greatest orillancy	4631 Mar 21 21:46 4631 Apr 01 19:47	24°≈3625 0° <b>)</b> €	<del></del>
evening 11se	4628 Nov 09 02:59	19 1162946 0° <b>√</b> 7		morning max el	4631 May 01 14:47	0 <del>X</del> 25° <b>¥</b> 09'38	46°38'57
desc. node	4628 Nov 23 22:08	0 <b>x</b> . 18° <b>∡</b> 721'14		morning max ci	4631 May 06 10:00	23 <b>π</b> 0938	TU JU J/
uese. Hout	4628 Nov 23 22:08 4628 Dec 03 07:23	18°×'21'14' 0°る		desc. node	4631 May 11 17:10	5° <b>Υ</b> 29'14	
	4628 Dec 03 07:23 4628 Dec 27 11:42	0° <b>≈</b>		desc. Hode	4631 May 11 17:10 4631 Jun 03 05:05	0° <b>8</b>	
	4629 Jan 20 16:54	0° <b>∺</b>			4631 Jun 29 09:59	0°U	
	4629 Feb 14 01:54	0 <b>Υ</b> 0° <b>Υ</b>			4631 Jul 24 22:57	0. о п	
	4629 Feb 14 01:34 4629 Mar 10 20:47	0° <b>∀</b>			4631 Jul 24 22:37 4631 Aug 19 02:22	0°€	
	-1047 WIAI 10 40.4/	v O			7051 Aug 19 02.22	0 06	

	4621 0 01 10 00	160 001101			462434 04 07 25	001	
asc. node	4631 Sep 01 19:08	16° <b>Ω</b> 31'01			4634 Mar 04 07:35	0° <b>8</b>	
	4631 Sep 12 21:50	0° <b>m</b> )		greatest brilliancy	4634 Apr 02 23:10	20° <b>8</b> 46'41	-4.9m
	4631 Oct 07 10:07	0∘ <b>ত</b>		retrograde	4634 Apr 13 06:29	22° <b>8</b> 47'36	
morning set	4631 Oct 27 20:22	25° <b>≙</b> 13'53		evening set	4634 Apr 30 08:52	17° <b>8</b> 05'47	
	4631 Oct 31 16:38	0°M₊		inferior conj	4634 May 04 06:20	14° <b>8</b> 42'18	7°22'11
	4631 Nov 24 19:13	0° <b>∡</b> 7		minimum elong	4634 May 04 16:12	14° <b>8</b> 26'55	7°20'26
max. Earth dist.	4631 Dec 01 20:00	8° <b>₰</b> ¹46'48	1.71909 AU	min. Earth dist.	4634 May 04 02:58	14° <b>8</b> 47'32	0.27817 AU
				morning rise	4634 May 08 23:47	11° <b>8</b> 50'07	
superior conj	4631 Dec 04 16:04	12° <b>⊀</b> 19'22	0°41'00	direct	4634 May 25 03:58	6° <b>8</b> 44'27	
minimum elong	4631 Dec 05 00:47	12° <b>∡</b> ¹46'35	0°40'38	greatest brilliancy	4634 Jun 03 19:46	8° <b>8</b> 28'08	-4.8m
	4631 Dec 18 19:24	ರ∘ರ		desc. node	4634 Jun 08 04:48	10° <b>8</b> 14'31	
desc. node	4631 Dec 22 09:54	4° <b>る</b> 30'39			4634 Jul 05 13:25	$\Pi^{\circ}$ 0	
	4632 Jan 11 18:07	0° <b>≈</b>		morning max el	4634 Jul 13 08:57	7° <b>Ⅱ</b> 17'32	45°54'42
evening rise	4632 Jan 13 15:18	2° <b>≈</b> 21'34		Ü	4634 Aug 04 14:02	0°©	
v , v	4632 Feb 04 16:14	0° <b>)</b> €			4634 Aug 31 16:16	0°N	
	4632 Feb 28 15:17	$0^{\circ}\Upsilon$			4634 Sep 26 12:46	0° m)	
	4632 Mar 23 17:57	0°8		asc. node	4634 Sep 29 07:08	3° Mp 16'10	
asc. node	4632 Apr 13 12:00	25° <b>8</b> 31'55		asc. node	4634 Oct 21 14:52	0∘ <b>⊽</b>	
asc. node	•	0° <b>I</b>				0 <b>==</b> 0°M	
	4632 Apr 17 03:56				4634 Nov 15 04:21		
	4632 May 12 02:12	0ංම			4634 Dec 09 09:35	0° <b>∡</b> ¹	
	4632 Jun 06 21:05	$0^{\circ}\Omega$			4635 Jan 02 09:57	0°号	
	4632 Jul 04 09:03	0° <b>m</b> ∕		morning set	4635 Jan 07 23:43	6° <b>る</b> 59'04	
evening max el	4632 Jul 15 22:30	11° <b>m</b> 33'53	45°31'49	desc. node	4635 Jan 18 21:42	20° <b>る</b> 40'56	
desc. node	4632 Aug 03 02:35	27° m/32'52			4635 Jan 26 07:39	0° <b>≈</b>	
	4632 Aug 06 08:46	0∘ <b>⊽</b>					
greatest brilliancy	4632 Aug 23 12:53	9° <b>≙</b> 35'54	-4.7m	superior conj	4635 Feb 18 03:45	28° <b>≈</b> 43′26	-1°04'51
retrograde	4632 Sep 02 16:06	11° <b>≏</b> 27'31		minimum elong	4635 Feb 17 15:45	28° <b>≈</b> 05'39	1°04'27
evening set	4632 Sep 20 14:55	5° <b>£</b> 27'02		max. Earth dist.	4635 Feb 18 17:13	29° <b>≈</b> 25'46	1.71130 AU
inferior conj	4632 Sep 24 03:37	3° <b>≙</b> 16'40	-8°32'00		4635 Feb 19 04:06	0° <b>)</b> €	
minimum elong	4632 Sep 24 00:45	3° <b>₽</b> 21'10	8°31'53		4635 Mar 15 00:40	$0^{\circ}\mathbf{\Upsilon}$	
min. Earth dist.	4632 Sep 24 11:18	3° <b>ഫ</b> 04'40	0.28995 AU	evening rise	4635 Mar 31 01:45	20° <b>Ƴ</b> 07'39	
morning rise	4632 Sep 27 10:26	1° <b>£</b> 14'41		C	4635 Apr 07 23:11	0°B	
Č	4632 Sep 29 13:01	30°R, Mp			4635 May 02 01:42	0°II	
direct	4632 Oct 15 16:30	24° m 58'37		asc. node	4635 May 11 23:50	12° <b>Ⅱ</b> 15'49	
greatest brilliancy	4632 Oct 26 13:25	27° m <sub>2</sub> 07'19	-4 8m	use. node	4635 May 26 10:06	0°99	
greatest similarey	4632 Nov 01 18:58	0° <b>⊽</b>	1.0111		4635 Jun 20 02:13	$0^{\circ}\Omega$	
asc. node	4632 Nov 24 04:36	0 <b>—</b> 16° <b>≏</b> 45'04			4635 Jul 15 04:59	0° m/y	
		26° <b>£</b> 34'13	46°21'23			0∘ <b>⊽</b>	
morning max el	4632 Dec 04 12:18 4632 Dec 07 22:02	20 <b>=</b> 34 13 0° <b>M</b>	40 21 23	J J.	4635 Aug 10 00:38	0 <u>≈</u> 24° <b>Ω</b> 02'13	
				desc. node	4635 Aug 31 14:28		
	4633 Jan 04 10:56	0° <b>∡</b>			4635 Sep 06 03:46	0°M,	45052110
	4633 Jan 30 00:32	0° <b>ට</b>		evening max el	4635 Sep 26 17:57	20°M55'15	45°53'18
	4633 Feb 23 18:48	0° <b>≈</b>			4635 Oct 06 15:21	0° <b>∡</b> 7	
desc. node	4633 Mar 15 19:27	24° <b>≈</b> 36'34		greatest brilliancy	4635 Nov 05 10:20	19° <b>∡</b> ¹25′00	-4.8m
	4633 Mar 20 04:15	0° <b>∀</b>		retrograde	4635 Nov 14 17:22	20° <b>₹</b> 59'23	
	4633 Apr 13 09:55	$0^{\circ}$ Y		evening set	4635 Nov 30 03:39	16° <b>≯</b> ′24'11	
	4633 May 07 14:46	$_{0\circ}$ 8		inferior conj	4635 Dec 05 12:47	13° <b>∡</b> 12'47	-4°11'22
	4633 May 31 20:37	$\Pi^{\circ}0$		minimum elong	4635 Dec 05 21:22	12° <b>∡</b> ′59′36	4°08'57
morning set	4633 Jun 09 09:36	10° <b>Ⅱ</b> 32'59		min. Earth dist.	4635 Dec 06 08:29	12° <b>∡</b> ¹42'33	0.27314 AU
	4633 Jun 25 04:04	0ං <b>ව</b>		morning rise	4635 Dec 11 14:28	9° <b>∡</b> ³37'50	
asc. node	4633 Jul 06 21:26	14° <b>5</b> 26'24		asc. node	4635 Dec 22 16:26	5° <b>∡</b> 35′03	
				direct	4635 Dec 26 11:11	5° <b>∡</b> 17'32	
superior conj	4633 Jul 16 20:55	26°5643'32	0°23'37	greatest brilliancy	4636 Jan 06 10:12	7° <b>∡</b> ³33'25	-4.9m
minimum elong	4633 Jul 16 16:03	26°528'33	0°23'23	,	4636 Feb 06 10:12	0°ರ	
max. Earth dist.	4633 Jul 17 12:13		1.73388 AU	morning max el	4636 Feb 15 03:31	8° <b>ප</b> 34'14	46°57'24
	4633 Jul 19 12:46	0°N			4636 Mar 06 04:39	0° <b>≈</b>	
	4633 Aug 12 22:04	0° <b>m</b> )			4636 Apr 01 08:16	0° <b>∀</b>	
evening rise	4633 Aug 22 03:16	11° <b>m</b> ) 20'03		desc. node	4636 Apr 12 07:26	12° <b>¥</b> 57'27	
evening rise	•	ე∘ <u>ი</u>		desc. Hode	•	0° <b>Υ</b>	
	4633 Sep 06 07:50				4636 Apr 26 13:46		
	4633 Sep 30 18:48	0°M₊			4636 May 21 10:01	0° <b>Β</b>	
1 1	4633 Oct 25 07:55	0° <b>⊼</b>			4636 Jun 15 02:37	0°II	
desc. node	4633 Oct 26 12:15	1° <b>∡</b> 726′21			4636 Jul 09 17:41	0°©	
	4633 Nov 19 00:02	0° <b>ට</b>		asc. node	4636 Aug 03 09:20	0° <b>Ω</b> 06'36	
	4633 Dec 13 20:36	0° <b>≈</b>			4636 Aug 03 07:11	$0$ $\circ$ $\Omega$	
	4634 Jan 08 02:10	0° <b>∀</b>		morning set	4636 Aug 17 01:18	16° <b>Ω</b> 51'14	
	4634 Feb 03 06:22	$\mathbf{\gamma}_{0}$			4636 Aug 27 18:15	0° <b>™</b>	
asc. node	4634 Feb 16 14:10	14° <b>Y</b> 24'02		max. Earth dist.	4636 Sep 20 06:22	$28^{\circ}$ My $57'42$	1.73173 AU
evening max el	4634 Feb 21 12:41	19° <b>Ƴ</b> 29'44	47°05'58		4636 Sep 21 02:33	0∘ <b>⊽</b>	

superior conj	4636 Sep 22 12:11	1° <b>≏</b> 43'48	1°24'11	morning rise	4639 Feb 21 18:25	25° <b>≈</b> 40'21	
minimum elong	4636 Sep 22 09:16	1° <u>⊶</u> 34'47		direct	4639 Mar 10 00:48	20°≈29'45	
minimum ciong	4636 Oct 15 08:42	0° <b>™</b>	1 24 10	greatest brilliancy	4639 Mar 19 11:44	20°≈11'00	-4.9m
evening rise	4636 Oct 29 07:34	17°ML16'59		greatest orimaney	4639 Apr 03 00:40	0° <b>∀</b>	4.5111
e vennig rise	4636 Nov 08 13:45	0° <b>∡</b> ⊓		morning max el	4639 Apr 29 03:42	22° <b>)</b> 44'59	46°40'27
desc. node	4636 Nov 23 00:04	17° <b>∡</b> 753′25		morning max or	4639 May 06 07:02	0°Υ	10 1027
dese. Hode	4636 Dec 02 18:25	0°る		desc. node	4639 May 10 19:06	4° <b>Υ</b> 42'42	
	4636 Dec 26 23:03	0° <b>≈</b>		desc. node	4639 Jun 02 20:45	0°8	
	4637 Jan 20 04:39	0° <b>∀</b>			4639 Jun 28 23:26	0°II	
	4637 Feb 13 14:14	o°Υ			4639 Jul 24 11:10	0°ಅ	
	4637 Mar 10 10:07	0°8			4639 Aug 18 13:52	$0^{\circ}\Omega$	
asc. node	4637 Mar 16 02:03	6° <b>8</b> 43'10		asc. node	4639 Aug 31 21:13	16° <b>Ω</b> 03'15	
use. Hous	4637 Apr 05 04:26	0°II		use. noue	4639 Sep 12 08:55	0°m	
	4637 May 03 03:32	0°©			4639 Oct 06 21:00	0∘ <b>ರ</b> ∘ .ಗ	
evening max el	4637 May 04 03:28	0°959'27	46°13'35	morning set	4639 Oct 25 12:38	ა <b>—</b> 23° <b>ჲ</b> 02'01	
o ronning man or	4637 Jun 11 07:48	0°Ω	.0 13 30	morning sec	4639 Oct 31 03:27	0°M	
greatest brilliancy	4637 Jun 11 14:47	0°Ω06'47	-4 8m		4639 Nov 24 06:03	0° <b>⊼</b> 7	
retrograde	4637 Jun 22 16:22	2°Ω20'42		max. Earth dist.	4639 Nov 29 11:42	6° <b>х</b> 32′00	1.71953 AU
retrograde	4637 Jul 03 12:58	30°RS		max. Bartii dist.	1035 1101 25 11:12	0 7 32 00	1.,1555710
desc. node	4637 Jul 05 16:45	29°900'23		superior conj	4639 Dec 02 05:57	9° <b>∡</b> 158'52	0°44'09
evening set	4637 Jul 07 17:20	27° <b>©</b> 56'51		minimum elong	4639 Dec 02 15:04	10° <b>₹</b> 27'21	0°43'46
min. Earth dist.	4637 Jul 13 17:32	24°920'23	0.28721 AU	mmmum trong	4639 Dec 18 06:18	0°る	0 .5 .0
inferior conj	4637 Jul 14 02:39	24°906'05		desc. node	4639 Dec 21 11:57	4° <b>る</b> 02'53	
minimum elong	4637 Jul 13 22:18	24°9512'55		evening rise	4640 Jan 11 03:13	29° <b>る</b> 54'03	
morning rise	4637 Jul 20 03:42	20° <b>©</b> 27'36	1 0001	evening noe	4640 Jan 11 05:07	0°≈	
direct	4637 Aug 04 13:57	15°954'53			4640 Feb 04 03:21	0° <b>)</b> €	
greatest brilliancy	4637 Aug 14 13:23	17°9542'20	-4.7m		4640 Feb 28 02:34	0° <b>Υ</b>	
greatest similare	4637 Sep 04 10:42	0°Ω	1.,111		4640 Mar 23 05:30	0°8	
morning max el	4637 Sep 22 05:54	15° <b>Ω</b> 34'39	45°44'15	asc. node	4640 Apr 12 13:54	25° <b>8</b> 01'23	
	4637 Oct 06 15:15	0° m)			4640 Apr 16 15:56	0°II	
asc. node	4637 Oct 26 18:53	21° m/52'22			4640 May 11 15:01	0°©	
use. Houe	4637 Nov 02 23:13	0∘ <del>⊽</del>			4640 Jun 06 11:37	$0^{\circ}\Omega$	
	4637 Nov 28 14:09	0° <b>M</b> ,			4640 Jul 04 03:53	0° <b>m</b> )	
	4637 Dec 23 08:26	0° <b>∡</b> 7		evening max el	4640 Jul 13 14:10	9° <b>m</b> 22'44	45°32'24
	4638 Jan 16 15:44	0°ਰ		desc. node	4640 Aug 02 04:44	26° m 28'23	322.
	4638 Feb 09 17:19	0° <b>≈</b>			4640 Aug 07 02:36	0ಂ <b>ರ</b>	
desc. node	4638 Feb 15 09:37	7° <b>≈</b> 06'19		greatest brilliancy	4640 Aug 21 02:25	7° <b>£</b> 23'47	-4.7m
	4638 Mar 05 16:10	0° <b>∀</b>		retrograde	4640 Aug 31 08:28	9° <b>£</b> 17'37	
morning set	4638 Mar 25 20:50	25° <b>¥</b> 19'31		evening set	4640 Sep 18 04:43	3° <b>£</b> 19'36	
	4638 Mar 29 14:20	0° <b>Υ</b>		inferior conj	4640 Sep 21 19:38	1° <b>≏</b> 05'54	-8°28'30
	4638 Apr 22 13:38	0°8		minimum elong	4640 Sep 21 16:02	1° <b>£</b> 11'32	
	r			min. Earth dist.	4640 Sep 22 01:49		0.29024 AU
superior conj	4638 May 04 20:17	15° <b>8</b> 18'57	-1°11'13		4640 Sep 23 13:57	30°R <b>™</b>	
minimum elong	4638 May 05 06:35	15° <b>8</b> 51'02		morning rise	4640 Sep 25 03:15	29° m 02'51	
max. Earth dist.	4638 May 08 21:16		1.72157 AU	direct	4640 Oct 13 09:05	22° m 47'35	
	4638 May 16 15:33	0°II		greatest brilliancy	4640 Oct 24 04:41	24° m 55'23	-4.8m
asc. node	4638 Jun 08 11:37	28° <b>Ⅱ</b> 17'15		8	4640 Nov 03 05:08	0∘ <b>ಹ</b>	
	4638 Jun 09 20:54	0°©		asc. node	4640 Nov 23 06:39	15° <b>≏</b> 49'18	
evening rise	4638 Jun 12 17:55	3° <b>©</b> 32'54		morning max el	4640 Dec 02 04:32	24° <b>£</b> 20'54	46°19'45
<i>8</i> 21	4638 Jul 04 05:54	0°N			4640 Dec 07 18:25	0°M	
	4638 Jul 28 18:49	0° <b>m</b> )			4641 Jan 04 02:18	0° <b>∡</b> 7	
	4638 Aug 22 12:47	0∘ <u>v</u>			4641 Jan 29 13:58	0°ರ	
	4638 Sep 16 14:09	0° <b>M</b> ,			4641 Feb 23 07:16	0° <b>≈</b>	
desc. node	4638 Sep 28 02:20	13°M36'42		desc. node	4641 Mar 14 21:29	24°≈05'54	
	4638 Oct 12 02:35	0° <b>∡</b> ¹			4641 Mar 19 16:07	0° <b>)</b> €	
	4638 Nov 07 09:11	0°₹			4641 Apr 12 21:24	0°Υ	
	4638 Dec 05 07:37	0° <b>≈</b>			4641 May 07 01:58	0°8	
evening max el	4638 Dec 08 13:31	3°≈15'50	46°51'41		4641 May 31 07:35	0°II	
	4639 Jan 09 14:17	0° <b>\</b>		morning set	4641 Jun 07 01:36	8° <b>Ⅱ</b> 20'25	
greatest brilliancy	4639 Jan 18 00:25	4° <b>)</b> €03'54	-4.9m	<i>5</i> •	4641 Jun 24 14:55	0°9	
asc. node	4639 Jan 19 04:22	4° <b>∺</b> 28'00		asc. node	4641 Jul 05 23:32	13°959'36	
retrograde	4639 Jan 27 23:20	5° <b>¥</b> 57'07			.0.2.00 00 20.02		
evening set	4639 Feb 12 12:30	1° <b>∺</b> 12′28		superior conj	4641 Jul 14 14:10	24°935'42	0°20'27
2.09 500	4639 Feb 14 14:33	30°R≈		minimum elong	4641 Jul 14 09:54	24°9522'33	0°20'15
min. Earth dist.	4639 Feb 17 01:03		0.26750 AU	max. Earth dist.	4641 Jul 15 09:52	25°\$36'19	1.73371 AU
inferior conj	4639 Feb 17 14:15	28°≈11'03		Durin dist.	4641 Jul 18 23:33	0°Ω	1.,55,1110
minimum elong	4639 Feb 17 03:25	28°≈27'41			4641 Aug 12 08:52	0° <b>m</b>	
	.05,100 17 05.25	20.02/71	0 .0 1/		.0.1.146 12 00.02	יעי י	

evening rise	4641 Aug 19 21:43	9° <b>m</b> 15'56		desc. node	4644 Apr 11 09:18	12° <b>∺</b> 21'53	
	4641 Sep 05 18:47	0∘ <b>⊽</b>			4644 Apr 26 02:50	$0^{\circ}\mathbf{\Upsilon}$	
	4641 Sep 30 06:00	0°M			4644 May 20 22:13	0°8	
	=	0° <b>⊼</b>			4644 Jun 14 14:14	0°II	
	4641 Oct 24 19:34						
desc. node	4641 Oct 25 14:11	0° <b>≯</b> 56'42			4644 Jul 09 04:54	$0$ $\circ$ $\odot$	
	4641 Nov 18 12:20	o°る		asc. node	4644 Aug 02 11:22	29° <b>5</b> 39'17	
	4641 Dec 13 09:49	0° <b>≈</b>			4644 Aug 02 18:09	$0^{\circ}\Omega$	
	4642 Jan 07 16:54	0° <b>∀</b>		morning set	4644 Aug 14 19:11	14° <b>Ω</b> 45'33	
	4642 Feb 03 00:14	0°Υ		morning sec	4644 Aug 27 05:05	0° <b>m</b> )	
				m at the			1.72206.133
asc. node	4642 Feb 15 16:16	13° <b>Y</b> 35′08		max. Earth dist.	4644 Sep 17 23:50	26° Mp 50'06	1.73206 AU
evening max el	4642 Feb 19 04:14	17° <b>Ƴ</b> 10'49	47°07'01				
	4642 Mar 04 11:59	0°8		superior conj	4644 Sep 20 06:18	29° <b>m</b> 38'10	1°23'36
greatest brilliancy	4642 Mar 31 13:56	18° <b>8</b> 26'55	-4.9m	minimum elong	4644 Sep 20 02:44	29° m 27'10	1°23'35
retrograde	4642 Apr 10 21:57	20° <b>8</b> 28'05		Č	4644 Sep 20 13:23	0∘ <u>⊽</u>	
•	•	14° <b>8</b> 41'52			•	0° <b>™</b>	
evening set	4642 Apr 28 02:37		<b>5</b> 00 444		4644 Oct 14 19:38		
inferior conj	4642 May 01 20:50	12° <b>8</b> 23'07	7°34'41	evening rise	4644 Oct 26 23:36	15°M03'52	
minimum elong	4642 May 02 06:24	12° <b>8</b> 08'12	7°33'06		4644 Nov 08 00:52	0° <b>∡</b> ¹	
min. Earth dist.	4642 May 01 16:39	12° <b>8</b> 29'37	0.27783 AU	desc. node	4644 Nov 22 02:08	17° <b>∡</b> ¹25'00	
morning rise	4642 May 06 10:28	9° <b>8</b> 36'36			4644 Dec 02 05:46	0°ರ	
direct	4642 May 22 18:39	4° <b>8</b> 26'04			4644 Dec 26 10:43	0°≈	
	•		4.0				
greatest brilliancy	4642 Jun 01 08:24	6° <b>8</b> 08'26	-4.8m		4645 Jan 19 16:44	0° <b>∀</b>	
desc. node	4642 Jun 07 06:53	8° <b>8</b> 40'02			4645 Feb 13 02:57	$0^{\circ}$ Y	
	4642 Jul 05 15:34	$\Pi$ $^{\circ}0$			4645 Mar 09 23:54	$_{0\circ}$ 8	
morning max el	4642 Jul 11 00:25	5° <b>Ⅱ</b> 04'09	45°55'43	asc. node	4645 Mar 15 03:58	6° <b>8</b> 07'14	
C	4642 Aug 04 06:51	0°ಅ			4645 Apr 04 20:23	$\Pi^{\circ}0$	
	4642 Aug 31 06:07	$0^{\circ}\Omega$		evening max el	4645 May 01 17:44	28° <b>Ⅱ</b> 41'18	46015142
	•			evening max er	•		40 13 42
	4642 Sep 26 01:14	0° <b>™</b>			4645 May 03 01:39	0ංම	
asc. node	4642 Sep 28 09:03	2°Mp45'10		greatest brilliancy	4645 Jun 09 08:03	27° <b>©</b> 56'36	-4.8m
	4642 Oct 21 02:37	0∘ <b>⊽</b>			4645 Jun 17 10:11	$0^{\circ}\Omega$	
	4642 Nov 14 15:43	0°M		retrograde	4645 Jun 20 08:23	0° <b>Ω</b> 09'58	
	4642 Dec 08 20:47	0° <b>∡</b> 7			4645 Jun 23 05:43	30°Rூ	
		⊙ੰਤ		daga mada		26°906'05	
	4643 Jan 01 21:06			desc. node	4645 Jul 04 18:49		
morning set	4643 Jan 05 11:31	4° <b>る</b> 30'42		evening set	4645 Jul 05 09:24	25° <b>©</b> 46'22	
desc. node	4643 Jan 17 23:47	20° <b>る</b> 12'29		inferior conj	4645 Jul 11 18:52	21° <b>©</b> 55'42	-1°40'27
	4643 Jan 25 18:48	0° <b>≈</b>		minimum elong	4645 Jul 11 15:11	22° <b>©</b> 01'28	1°39'22
				min. Earth dist.	4645 Jul 11 10:19	22° <b>©</b> 09'07	0.28687 AU
superior conj	4643 Feb 15 13:55	26° <b>≈</b> 09'21	-1°02'06	morning rise	4645 Jul 17 21:20	18°9515'08	
				•			
minimum elong	4643 Feb 15 01:54	25° <b>≈</b> 31'31	1°01'41	direct	4645 Aug 02 05:13	13°9544'54	
max. Earth dist.	4643 Feb 15 22:54		1.71124 AU	greatest brilliancy	4645 Aug 12 05:33	15° <b>©</b> 32'46	-4.7m
	4643 Feb 18 15:15	0° <b>∀</b>			4645 Sep 04 20:00	$0 {\circ} \Omega$	
	4643 Mar 14 11:47	$0^{\circ}$ Y		morning max el	4645 Sep 19 20:35	13° <b>Ω</b> 21′26	45°43'47
evening rise	4643 Mar 28 12:33	17° <b>Ƴ</b> 36'16			4645 Oct 06 09:06	0° <b>m</b> )	
8	4643 Apr 07 10:19	0°8		asc. node	4645 Oct 25 20:56	21° m) 16'10	
		0°II		use. Houe		0° <b>ت</b>	
	4643 May 01 12:55				4645 Nov 02 13:27		
asc. node	4643 May 11 01:50	11° <b>∏</b> 47'16			4645 Nov 28 02:57	0° <b>M</b> ₊	
	4643 May 25 21:31	0			4645 Dec 22 20:32	0° <b>∡</b> ¹	
	4643 Jun 19 14:02	$0^{\circ}\Omega$			4646 Jan 16 03:26	0° <b>る</b>	
	4643 Jul 14 17:35	0° <b>m</b>			4646 Feb 09 04:46	0° <b>≈</b>	
	4643 Aug 09 14:47	0∘ <b>⊽</b>		desc. node	4646 Feb 14 11:37	6° <b>≈</b> 36'50	
desc. node	4643 Aug 30 16:28	23° <b>Ω</b> 22'41			4646 Mar 05 03:26	0° <b>∀</b>	
desc. Houe	•						
	4643 Sep 05 21:24	0°M		morning set	4646 Mar 23 07:18	22° <b>)</b> 46'48	
evening max el	4643 Sep 24 07:55	18° <b>™</b> 37'49	45°51'29		4646 Mar 29 01:29	$0^{\circ}$ Y	
	4643 Oct 06 21:22	0° <b>∡</b> 7			4646 Apr 22 00:43	$8^{\circ 0}$	
greatest brilliancy	4643 Nov 03 00:20	17° <b>∡</b> *05'18	-4.8m				
retrograde	4643 Nov 12 05:57	18° <b>∡</b> ³38'27		superior conj	4646 May 02 09:23	12° <b>8</b> 55'51	-1°13'17
•					•	13° <b>8</b> 27'05	
evening set	4643 Nov 27 19:57	13° <b>₹</b> 59'26	4020156	minimum elong	4646 May 02 19:24		
inferior conj	4643 Dec 03 02:28	10° <b>∡</b> 751′24		max. Earth dist.	4646 May 06 08:19		1.72103 AU
minimum elong	4643 Dec 03 11:31	10° <b>∡</b> ³37'30	4°28'29		4646 May 16 02:34	$\Pi^{\circ}0$	
min. Earth dist.	4643 Dec 03 23:05	10° <b>∡</b> 19'42	0.27377 AU	asc. node	4646 Jun 07 13:46	27° <b>Ⅱ</b> 49'56	
morning rise	4643 Dec 09 02:25	7° <b>∡</b> 18'14			4646 Jun 09 07:54	0°ම	
asc. node	4643 Dec 21 18:31	3° <b>х</b> 01′29		evening rise	4646 Jun 10 09:25	1°918'44	
		2° <b>×</b> 755'10		5 , 5g 1150		0°Ω	
direct	4643 Dec 24 01:16		4.0		4646 Jul 03 16:57		
greatest brilliancy	4644 Jan 04 01:27	5° <b>₹</b> 11'33	-4.9m		4646 Jul 28 06:04	0° <b>m</b> )	
	4644 Feb 06 12:20	8°0			4646 Aug 22 00:28	0∘ <b>ಹ</b>	
		co <b></b> co co	4.60 5.6140		16160 16 00 06	0000	
morning max el	4644 Feb 12 16:32	6° <b>る</b> 07'49	46°56'48		4646 Sep 16 02:36	0° <b>M</b> .	
morning max el	4644 Feb 12 16:32 4644 Mar 05 22:06	6° <b>ठ</b> 07'49 0° <b>≈</b>	46°56'48	desc. node	4646 Sep 16 02:36 4646 Sep 27 04:17	0°11น 13° <b>11</b> น04'27	
morning max el			46°56'48	desc. node	•		

	161631 05 01 00	<del>.</del>			1610 1 10 00 50	0000	
	4646 Nov 07 01:28	ರಿಂತ			4649 Apr 12 08:52	0° <b>Υ</b>	
	4646 Dec 05 06:13	0° <b>≈</b>			4649 May 06 13:07	0° <b>8</b>	
evening max el	4646 Dec 06 02:31	0° <b>≈</b> 50'35	46°49'54		4649 May 30 18:31	$\Pi^{\circ}0$	
	4647 Jan 11 18:23	0° <b>∀</b>		morning set	4649 Jun 04 17:14	6° <b>Ⅱ</b> 06'51	
greatest brilliancy	4647 Jan 15 13:08	1° <b>)</b> (35′13	-4.9m		4649 Jun 24 01:41	0ංම	
asc. node	4647 Jan 18 06:27	2° <b>)</b> €27'23		asc. node	4649 Jul 05 01:31	13° <b>©</b> 32'40	
retrograde	4647 Jan 25 12:11	3° <b>)</b> €28'43					
	4647 Feb 07 15:50	30° <b>R</b> ≈		superior conj	4649 Jul 12 07:09	22° <b>©</b> 27'14	0°17'15
evening set	4647 Feb 09 21:18	28° <b>≈</b> 49'05		minimum elong	4649 Jul 12 03:31	22° <b>©</b> 16'01	0°17'03
min. Earth dist.	4647 Feb 14 13:57	26° <b>≈</b> 02'30	0.26728 AU	max. Earth dist.	4649 Jul 13 08:03	23° <b>©</b> 43'50	1.73350 AU
inferior conj	4647 Feb 15 02:43	25° <b>≈</b> 42'59	6°30'59		4649 Jul 18 10:16	$0 {\circ} \Omega$	
minimum elong	4647 Feb 14 15:49	25° <b>≈</b> 59'40	6°28'31		4649 Aug 11 19:37	0° <b>m</b> )	
morning rise	4647 Feb 19 10:27	23° <b>≈</b> 07'33		evening rise	4649 Aug 17 16:06	7° <b>m</b> ) 11'50	
direct	4647 Mar 07 13:04	18° <b>≈</b> 01'41			4649 Sep 05 05:39	0∘ <b>⊽</b>	
greatest brilliancy	4647 Mar 17 01:07	19° <b>≈</b> 44'14	-4.9m		4649 Sep 29 17:07	0°M₊	
	4647 Apr 03 22:00	0° <b>∀</b>			4649 Oct 24 07:04	0° <b>∡</b> ¹	
morning max el	4647 Apr 26 17:30	20° <b>∺</b> 22'02	46°41'54	desc. node	4649 Oct 24 16:19	0° <b>≯</b> 128'07	
	4647 May 06 03:31	$0$ ° $\Upsilon$			4649 Nov 18 00:27	0°₹	
desc. node	4647 May 09 21:14	3° <b>Y</b> 56'56			4649 Dec 12 22:52	0° <b>≈</b>	
	4647 Jun 02 12:18	0°B			4650 Jan 07 07:34	0° <b>ℋ</b>	
	4647 Jun 28 12:52	$\Pi$ $^{\circ}0$			4650 Feb 02 18:19	$0^{\circ}$ $\Upsilon$	
	4647 Jul 23 23:27	$0$ $\circ$		asc. node	4650 Feb 14 18:08	12° <b>Ƴ</b> 45′05	
	4647 Aug 18 01:26	$0$ $^{\circ}$ $\Omega$		evening max el	4650 Feb 16 19:24	14° <b>Ƴ</b> 51'06	47°07'40
asc. node	4647 Aug 30 23:10	15° <b>Ω</b> 34'47			4650 Mar 04 18:22	$9^{\circ}$ 8	
	4647 Sep 11 20:04	0° <b>m</b> )		greatest brilliancy	4650 Mar 29 05:01	16° <b>8</b> 06'58	-4.9m
	4647 Oct 06 07:56	0∘ <b>ত</b>		retrograde	4650 Apr 08 12:41	18° <b>8</b> 07'24	
morning set	4647 Oct 23 05:21	20° <b>≏</b> 51'31		evening set	4650 Apr 25 20:04	12° <b>8</b> 17'10	
	4647 Oct 30 14:18	0° <b>M</b> ₊		inferior conj	4650 Apr 29 11:02	10° <b>8</b> 03'03	7°46'34
	4647 Nov 23 16:56	0° <b>∡</b> ¹		minimum elong	4650 Apr 29 20:13	9° <b>8</b> 48'43	7°45'09
max. Earth dist.	4647 Nov 27 03:54	4° <b>∡</b> 18'46	1.72000 AU	min. Earth dist.	4650 Apr 29 06:16	10° <b>8</b> 10'29	0.27750 AU
				morning rise	4650 May 03 20:40	7° <b>8</b> 22'15	
superior conj	4647 Nov 29 20:08	7° <b>∡</b> ³39'15	0°47'11	direct	4650 May 20 08:53	2° <b>8</b> 06'54	
minimum elong	4647 Nov 30 05:35	8° <b>₮</b> 08'44	0°46'48	greatest brilliancy	4650 May 29 20:57	3° <b>8</b> 47'57	-4.8m
	4647 Dec 17 17:16	8°0		desc. node	4650 Jun 06 08:56	7° <b>8</b> 08'20	
desc. node	4647 Dec 20 14:04	3° <b>⋜</b> 35′10			4650 Jul 05 16:21	$\Pi$ $^{\circ}0$	
evening rise	4648 Jan 08 15:07	27° <b>පි</b> 26'11		morning max el	4650 Jul 08 14:39	2° <b>Ⅱ</b> 47'44	45°56'51
	4648 Jan 10 16:13	0° <b>≈</b>			4650 Aug 03 23:14	$0$ $\circ$ $\odot$	
	4648 Feb 03 14:36	0° <b>)</b> €			4650 Aug 30 19:40	$0^{\circ}\Omega$	
	4648 Feb 27 14:00	$0$ ° $\Upsilon$			4650 Sep 25 13:27	0° <b>m</b> )	
	4648 Mar 22 17:11	0°8		asc. node	4650 Sep 27 11:03	2° Mp 15'08	
asc. node	4648 Apr 11 15:57	24° <b>8</b> 30'56			4650 Oct 20 14:07	0∘ <b>⊽</b>	
	4648 Apr 16 04:04	$\Pi^{\circ}0$			4650 Nov 14 02:50	0° <b>M</b> .	
	4648 May 11 04:01	$0$ $\circ$ $\odot$			4650 Dec 08 07:42	0° <b>≯</b> ¹	
	4648 Jun 06 02:25	$\mathfrak{O}^{\circ} \mathfrak{O}$			4651 Jan 01 07:56	0°ರ	
	4648 Jul 03 23:21	0° <b>m</b> )		morning set	4651 Jan 02 23:48	2° <b>る</b> 04'53	
evening max el	4648 Jul 11 06:36	7° <b>m</b> 13'14	45°33'00	desc. node	4651 Jan 17 01:46	19° <b>ප්</b> 44'46	
desc. node	4648 Aug 01 06:43	25° Mp 21'43			4651 Jan 25 05:37	0°≈	
	4648 Aug 08 02:55	0∘ <b>⊽</b>					
greatest brilliancy	4648 Aug 18 16:23	5° <b>≏</b> 12'10	-4.7m	superior conj	4651 Feb 13 00:26	23° <b>≈</b> 37'28	-0°59'15
retrograde	4648 Aug 29 00:48	7° <b>≙</b> 07'40		minimum elong	4651 Feb 12 12:29	22° <b>≈</b> 59'54	0°58'49
evening set	4648 Sep 15 18:21	1° <b>≏</b> 12'52		max. Earth dist.	4651 Feb 13 03:20	23° <b>≈</b> 46'37	1.71125 AU
	4648 Sep 17 18:11	30°R, Mp			4651 Feb 18 02:03	0° <b>∀</b>	
inferior conj	4648 Sep 19 11:40	28° <b>m</b> 55'24	-8°24'21		4651 Mar 13 22:37	$0$ ° $\Upsilon$	
minimum elong	4648 Sep 19 07:21	29° Mp 02'08	8°24'05	evening rise	4651 Mar 25 23:15	15° <b>Ƴ</b> 05′22	
min. Earth dist.	4648 Sep 19 16:15	28° Mp 48'14	0.29044 AU		4651 Apr 06 21:12	$_{0\circ}$ 8	
morning rise	4648 Sep 22 20:17	26° <b>m</b> 50'49			4651 Apr 30 23:55	$\Pi^{\circ}0$	
direct	4648 Oct 11 01:52	20° m 37'08		asc. node	4651 May 10 03:55	11° <b>Ⅱ</b> 19'37	
greatest brilliancy	4648 Oct 21 19:11	22° m 43'05	-4.8m		4651 May 25 08:45	0ංම	
	4648 Nov 04 05:09	0∘ <b>⊽</b>			4651 Jun 19 01:40	$0^{\circ}\Omega$	
asc. node	4648 Nov 22 08:44	14° <b>≙</b> 55'12			4651 Jul 14 06:01	0° <b>m</b>	
morning max el	4648 Nov 29 20:28	22° <b>≏</b> 07'31	46°18'06		4651 Aug 09 04:50	0∘ <b>⊽</b>	
	4648 Dec 07 13:59	$0^{\circ}$ M		desc. node	4651 Aug 29 18:24	22° <b>≏</b> 43'16	
	4649 Jan 03 17:19	0° <b>∡</b> ¹			4651 Sep 05 15:12	0°M₊	
	4649 Jan 29 03:14	ರ∘8		evening max el	4651 Sep 21 21:01	16°ML19'04	45°49'47
	4649 Feb 22 19:39	0° <b>≈</b>			4651 Oct 07 05:24	0° <b>∡</b> ¹	
desc. node	4649 Mar 13 23:26	23° <b>≈</b> 35′00		greatest brilliancy	4651 Oct 31 14:31	14° <b>∡</b> ¹46'40	-4.8m
	4649 Mar 19 03:59	0° <b>)</b> €		retrograde	4651 Nov 09 18:31	16° <b>∡</b> 18'45	

	4651 Nov. 25, 12-16	110.725126			4654 Mars 15, 12,00	0°Щ	
evening set	4651 Nov 25 12:16	11° 🗷 35'26	4940150	4-	4654 May 15 13:09		
inferior conj	4651 Nov 30 16:10	8°×31'10		asc. node	4654 Jun 06 15:44	27° <b>I</b> I23'22	
minimum elong	4651 Dec 01 01:35	8°×16'39		evening rise	4654 Jun 08 01:08	29° <b>Ⅱ</b> 06'28	
min. Earth dist.	4651 Dec 01 13:53	7° <b>₹</b> 57'44	0.27438 AU		4654 Jun 08 18:29	0° <b>©</b>	
morning rise	4651 Dec 06 14:10	5° <b>₹</b> 00'12			4654 Jul 03 03:38	$0$ ° $\Omega$	
asc. node	4651 Dec 20 20:30	0° <b>≯</b> 34'28			4654 Jul 27 17:01	0° <b>m</b> )	
direct	4651 Dec 21 14:56	0° <b>≯</b> 33'45			4654 Aug 21 11:54	0∘ <b>⊽</b>	
greatest brilliancy	4652 Jan 01 17:05	2° <b>≯</b> 51'25	-4.9m		4654 Sep 15 14:49	0°M₊	
	4652 Feb 06 12:37	0°ප		desc. node	4654 Sep 26 06:23	12°M33'21	
morning max el	4652 Feb 10 05:37	3° <b>る</b> 42'55	46°56'25		4654 Oct 11 05:56	0° <b>∡</b> 7	
	4652 Mar 05 14:41	0° <b>≈</b>			4654 Nov 06 17:45	o°る	
	4652 Mar 31 12:42	0° <b>∀</b>		evening max el	4654 Dec 03 16:22	28° <b>る</b> 28'28	46°48'08
desc. node	4652 Apr 10 11:27	11° <b>)</b> 48'40			4654 Dec 05 05:27	0° <b>≈</b>	
	4652 Apr 25 15:25	$0^{\circ}\mathbf{\Upsilon}$		greatest brilliancy	4655 Jan 13 01:27	29° <b>≈</b> 06'55	-4.9m
	4652 May 20 10:01	0°8			4655 Jan 15 20:06	0° <b>∀</b>	
	4652 Jun 14 01:32	$\Pi^{\circ}0$		asc. node	4655 Jan 17 08:24	0° <b>¥</b> 22'22	
	4652 Jul 08 15:50	0°ಅ		retrograde	4655 Jan 23 01:21	1° <b>)</b> 00′51	
asc. node	4652 Aug 01 13:19	29° <b>©</b> 12'34		· ·	4655 Jan 30 01:08	30°R <b>≈</b>	
	4652 Aug 02 04:49	0°N		evening set	4655 Feb 07 06:13	26° <b>≈</b> 26'05	
morning set	4652 Aug 12 12:40	12° <b>Ω</b> 39'26		min. Earth dist.	4655 Feb 12 02:39	23°≈34'22	0.26705 AU
morning set	4652 Aug 26 15:37	0° m		inferior conj	4655 Feb 12 15:03	23°≈15'24	6°13'34
max. Earth dist.	Č	24° Mp 47'53	1 72227 ATT	minimum elong		23°≈32'00	6°10'59
max. Earm dist.	4652 Sep 15 18:44	24 11/4/33	1.73237 AU	-	4655 Feb 12 04:12		0 1039
	4652 C 10 00 06	270 m- 22122	1022154	morning rise	4655 Feb 17 02:20	20°≈35'17	
superior conj	4652 Sep 18 00:06	27° m 32'33		direct	4655 Mar 05 01:45	15°≈34'15	4.0
minimum elong	4652 Sep 17 19:56	27° m 19'40	1°22'52	greatest brilliancy	4655 Mar 14 14:00	17°≈17'29	-4.9m
	4652 Sep 19 23:53	0∘ <b>⊽</b>			4655 Apr 04 13:30	0° <b>∀</b>	
	4652 Oct 14 06:15	0°M		morning max el	4655 Apr 24 07:50	18° <b>¥</b> 01'27	46°43'29
evening rise	4652 Oct 24 15:35	12°M51'39			4655 May 05 22:59	0° <b>Υ</b>	
	4652 Nov 07 11:41	0° <b>∡</b>		desc. node	4655 May 08 23:15	3° <b>Y</b> 12'32	
desc. node	4652 Nov 21 04:12	16° <b>₹</b> 57'32			4655 Jun 02 03:14	$0^{\circ}$ 8	
	4652 Dec 01 16:50	0°ප			4655 Jun 28 01:48	$\Pi$ $\circ 0$	
	4652 Dec 25 22:03	0° <b>≈</b>			4655 Jul 23 11:18	$0$ $\circ$ $\infty$	
	4653 Jan 19 04:27	0° <b>∀</b>			4655 Aug 17 12:39	$0 {\circ} \Omega$	
	4653 Feb 12 15:16	$0$ ° $\Upsilon$		asc. node	4655 Aug 30 01:12	15° <b>Ω</b> 07'35	
	4653 Mar 09 13:18	$8^{\circ}$			4655 Sep 11 06:56	0° <b>m</b> y	
asc. node	4653 Mar 14 06:03	5° <b>8</b> 33'05			4655 Oct 05 18:38	0∘ <b>⊽</b>	
	4653 Apr 04 12:04	$\Pi^{\circ}0$		morning set	4655 Oct 20 21:57	18° <b>≏</b> 41'26	
evening max el	4653 Apr 29 07:53	26° <b>Ⅲ</b> 24'10	46°17'43	•	4655 Oct 30 00:57	0°M	
δ ·	4653 May 03 00:05	0ಂತಾ			4655 Nov 23 03:36	0° <b>⊼</b>	
greatest brilliancy	4653 Jun 07 00:40	25°5946'26	-4 8m	max. Earth dist.	4655 Nov 24 18:03		1.72044 AU
retrograde	4653 Jun 18 00:38	27°\$59'57		man. Barar alge.	1000 1101 21 10.00	1 7 0 0 0 0 .	1.,2011110
evening set	4653 Jul 03 01:29	23°536'03		superior conj	4655 Nov 27 10:16	5° <b>х</b> 20′11	0°50'08
desc. node	4653 Jul 03 20:47	23° <b>©</b> 09'12		minimum elong	4655 Nov 27 19:58	5° × 50'27	0°49'45
inferior conj	4653 Jul 09 10:56	19°5945'48	1°20'26	minimum clong	4655 Dec 17 04:01	0°る	0 4243
minimum elong	4653 Jul 09 07:59		1°19'33	desc. node	4655 Dec 19 15:58	3°る07'26	
min. Earth dist.	4653 Jul 09 02:53	19°958'27	0.28660 AU	evening rise	4656 Jan 06 02:54	24°る58'39	
	4653 Jul 15 14:48	19 \$3827 16° \$303'27	0.28000 AU	evening rise	4656 Jan 10 03:07	24 <b>O</b> 3639	
morning rise direct						0 <b>≈</b> 0° <b>∺</b>	
	4653 Jul 30 20:22	11°935'10	4.7		4656 Feb 03 01:41	0° <b>π</b> 0° <b>Υ</b>	
greatest brilliancy	4653 Aug 09 21:45	13°923'50	-4.7m		4656 Feb 27 01:16		
	4653 Sep 05 02:23	0°N	45040100		4656 Mar 22 04:43	0°8	
morning max el	4653 Sep 17 12:05	11° <b>Ω</b> 10'58	45°43'23	asc. node	4656 Apr 10 18:03	24° <b>8</b> 01'09	
	4653 Oct 06 02:15	0°Щ			4656 Apr 15 16:02	0°П	
asc. node	4653 Oct 24 23:05	20° Mp 41'21			4656 May 10 16:51	0ა <b>ௐ</b>	
	4653 Nov 02 03:15	0∘ <b>ত</b>			4656 Jun 05 17:05	$0$ ° $\Omega$	
	4653 Nov 27 15:21	0°M₊			4656 Jul 03 19:01	0° <b>m</b> ∕	
	4653 Dec 22 08:15	0° <b>∡</b> ¹		evening max el	4656 Jul 08 23:08	5° <b>m</b> 04'54	45°33'36
	4654 Jan 15 14:47	0°る		desc. node	4656 Jul 31 08:40	24° Mp 14'10	
	4654 Feb 08 15:51	0° <b>≈</b>			4656 Aug 09 12:26	0∘ <b>⊽</b>	
desc. node	4654 Feb 13 13:34	6° <b>≈</b> 08′20		greatest brilliancy	4656 Aug 16 07:00	3° <b>ჲ</b> 02'20	-4.7m
	4654 Mar 04 14:21	0° <b>∀</b>		retrograde	4656 Aug 26 16:49	4° <b>≙</b> 58'43	
morning set	4654 Mar 20 18:01	20° <b>)</b> 15′57			4656 Sep 11 20:07	30°₽,₩)	
	4654 Mar 28 12:16	$0^{\circ}\Upsilon$		evening set	4656 Sep 13 07:59	29° <b>m</b> 07'36	
	4654 Apr 21 11:22	$9^{\circ}$ 8		inferior conj	4656 Sep 17 03:51	26° m/45'58	-8°19'33
	*			minimum elong	4656 Sep 16 22:52	26° m 53'47	
superior conj	4654 Apr 29 22:44	10° <b>8</b> 34'47	-1°15'13	min. Earth dist.	4656 Sep 17 07:07	26° m/40'52	0.29064 AU
minimum elong	4654 Apr 30 08:24	11° <b>8</b> 04'56		morning rise	4656 Sep 20 13:43	24° m) 39'21	
max. Earth dist.	4654 May 03 19:47		1.72049 AU	direct	4656 Oct 08 18:45	18° <b>m</b> ) 27'47	
Lorent dibt.		021.0	= 3 10		10.15	/ - /	

greatest brilliancy	4656 Oct 19 09:53	20° mp 31'36	-4 8m	evening rise	4659 Mar 23 09:39	12° <b>Ƴ</b> 32'48	
greatest orimancy	4656 Nov 04 22:33	0° <b>⊽</b>	-4.0111	evening rise	4659 Apr 06 08:18	0°8	
asc. node	4656 Nov 21 10:41	14° <b>≏</b> 02'03			4659 Apr 30 11:09	0°II	
morning max el	4656 Nov 27 11:52	19° <b>£</b> 53'07	46°16'20	asc. node	4659 May 09 05:53	10° <b>I</b> I50'54	
<i>y</i>	4656 Dec 07 08:56	0°M			4659 May 24 20:12	0°9	
	4657 Jan 03 08:05	0° <b>∡</b> 7			4659 Jun 18 13:34	$0^{\circ}\Omega$	
	4657 Jan 28 16:19	8°0			4659 Jul 13 18:43	0° <b>m</b> )	
	4657 Feb 22 07:53	0° <b>≈</b>			4659 Aug 08 19:12	0∘ <b>⊽</b>	
desc. node	4657 Mar 13 01:33	23° <b>≈</b> 05'01		desc. node	4659 Aug 28 20:34	22° <b>₽</b> 03'42	
	4657 Mar 18 15:42	0° <b>)</b> €			4659 Sep 05 09:33	$0^{\circ}$ M	
	4657 Apr 11 20:13	$0$ ° $\Upsilon$		evening max el	4659 Sep 19 09:59	14°ML00'04	45°48'16
	4657 May 06 00:12	0°8			4659 Oct 07 16:21	0° <b>∡</b> ¹	
	4657 May 30 05:21	$\Pi$ $^{\circ}0$		greatest brilliancy	4659 Oct 29 04:17	12° <b>∡</b> ¹27'56	-4.8m
morning set	4657 Jun 02 09:00	3° <b>Ⅱ</b> 53'49		retrograde	4659 Nov 07 07:34	13° <b>∡</b> ¹59'46	
	4657 Jun 23 12:22	0∘ <b>হু</b>		evening set	4659 Nov 23 04:52	9° <b>∡</b> 11'36	
asc. node	4657 Jul 04 03:30	13° <b>5</b> 06'02		inferior conj	4659 Nov 28 06:07	6° <b>∤</b> 11'14	-5°08'16
				minimum elong	4659 Nov 28 15:51	5° <b>∡</b> 756′15	5°05'47
superior conj	4657 Jul 10 00:23	20° <b>©</b> 19'48	0°14'02	min. Earth dist.	4659 Nov 29 04:42	5° <b>∡</b> ³36'30	0.27508 AU
minimum elong	4657 Jul 09 21:23	20° <b>©</b> 10'35	0°13'52	morning rise	4659 Dec 04 02:03	2° <b>҂</b> 42'57	
behind sun begin	4657 Jul 09 10:01	19° <b>©</b> 35'35			4659 Dec 09 20:02	30°RML	
behind sun end	4657 Jul 10 08:46	20°545'36		direct	4659 Dec 19 05:00	28°M12'23	
max. Earth dist.	4657 Jul 11 06:10	21° <b>©</b> 51'30	1.73322 AU	asc. node	4659 Dec 19 22:30	28°M13'01	
	4657 Jul 17 20:52	$0$ $^{\circ}$ $\Omega$			4659 Dec 28 23:20	0° <b>∡</b> ¹	
	4657 Aug 11 06:14	0° <b>m</b>		greatest brilliancy	4659 Dec 30 09:06	0° <b>∡</b> 731'40	-4.9m
evening rise	4657 Aug 15 10:45	5° m 08'54			4660 Feb 06 12:13	0° <b>る</b>	
	4657 Sep 04 16:25	0∘ <b>⊽</b>		morning max el	4660 Feb 07 19:54	1°る20'00	46°55'45
	4657 Sep 29 04:11	0°M			4660 Mar 05 07:24	0° <b>≈</b>	
desc. node	4657 Oct 23 18:19	29°M59'06			4660 Mar 31 02:54	0° <b>∀</b>	
	4657 Oct 23 18:37	0° <b>∡</b> 7		desc. node	4660 Apr 09 13:29	11° <b>)</b> 14′00	
	4657 Nov 17 12:41	5°0			4660 Apr 25 04:19	0°Υ	
	4657 Dec 12 12:08	0° <b>₩</b>			4660 May 19 22:08	0°Ⅱ 0°8	
	4658 Jan 06 22:31	0° <b>Υ</b>			4660 Jun 13 13:07	0.2 0.Т	
asc. node	4658 Feb 02 12:57 4658 Feb 13 20:15	11° <b>Υ</b> 54'30		asc. node	4660 Jul 08 03:04 4660 Jul 31 15:24	0 95 28°9545'19	
evening max el	4658 Feb 14 09:40	$12^{\circ}$ <b>Y</b> 28'40	47°08'18	asc. Houe	4660 Aug 01 15:48	28 <b>9</b> 43 19	
evening max er	4658 Mar 05 03:21	0° <b>8</b>	4/ 0010	morning set	4660 Aug 10 06:15	10° <b>Ω</b> 32'40	
greatest brilliancy	4658 Mar 26 20:38	13° <b>8</b> 47'11	-4.9m	morning set	4660 Aug 26 02:27	0° m)	
retrograde	4658 Apr 06 02:54	15° <b>8</b> 46'16	4.9III	max. Earth dist.	4660 Sep 13 15:18	22° <b>m</b> ) 49'55	1.73262 AU
evening set	4658 Apr 23 13:25	9° <b>8</b> 52'11		max. Lartii dist.	чооо вер 13 13.16	22 IIV +> 33	1.75202 710
inferior conj	4658 Apr 27 01:13	7° <b>8</b> 42'40	7°57'47	superior conj	4660 Sep 15 18:12	25° Mp 26'56	1°22'06
minimum elong	4658 Apr 27 09:57	7° <b>8</b> 29'01	7°56'31	minimum elong	4660 Sep 15 13:25	25° m/ 12'12	
min. Earth dist.	4658 Apr 26 20:11	7° <b>8</b> 50'32	0.27715 AU		4660 Sep 19 10:42	0∘ <u>⊽</u>	
morning rise	4658 May 01 06:44	5° <b>8</b> 07'37					
C	4658 May 14 16:26				4660 Oct 13 17:08	0°M₊	
direct	4030 Iviay 14 10.20	30° <b>ŖΎ</b>		evening rise	4660 Oct 13 17:08 4660 Oct 22 08:05	0°ጤ 10°ጤ40'21	
	4658 May 17 22:33	30° <b>₹Ƴ</b> 29° <b>Ƴ</b> 47'16		evening rise	4660 Oct 13 17:08 4660 Oct 22 08:05 4660 Nov 06 22:44		
	•			evening rise  desc. node	4660 Oct 22 08:05	10°M40'21	
greatest brilliancy	4658 May 17 22:33	29° <b>Y</b> 47'16	-4.8m	-	4660 Oct 22 08:05 4660 Nov 06 22:44	10° <b>M</b> 40'21 0° <b>√</b>	
greatest brilliancy desc. node	4658 May 17 22:33 4658 May 21 05:52	29° <b>Ƴ</b> 47'16 0° <b>႘</b>	-4.8m	-	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09	10° <b>M</b> .40'21 0° <b>√</b> 16° <b>√</b> 28'57	
	4658 May 17 22:33 4658 May 21 05:52 4658 May 27 09:58	29° <b>Y</b> 47'16 0° <b>엉</b> 1° <b>엉</b> 27'27	-4.8m	-	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09 4660 Dec 01 04:09	10°M40'21 0°ダ 16°ダ28'57 0°る	
	4658 May 17 22:33 4658 May 21 05:52 4658 May 27 09:58 4658 Jun 05 10:54	29° <b>Y</b> 47'16 0° <b>엉</b> 1° <b>엉</b> 27'27 5° <b>엉</b> 39'17		-	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09 4660 Dec 01 04:09 4660 Dec 25 09:44	10°M40'21 0°♂ 16°♂28'57 0°云 0°≈ 0°升 0°Y	
desc. node	4658 May 17 22:33 4658 May 21 05:52 4658 May 27 09:58 4658 Jun 05 10:54 4658 Jul 05 16:05	29° <b>Y</b> 47'16 0° <b>႘</b> 1° <b>႘</b> 27'27 5° <b>႘</b> 39'17 0° <b>Ⅱ</b>		-	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09 4660 Dec 01 04:09 4660 Dec 25 09:44 4661 Jan 18 16:36	10°M40'21 0° ♂ 16° ♂28'57 0° ♂ 0° ≫ 0° 升	
desc. node	4658 May 17 22:33 4658 May 21 05:52 4658 May 27 09:58 4658 Jun 05 10:54 4658 Jul 05 16:05 4658 Jul 06 04:20	29° <b>Y</b> 47'16 0° <b>8</b> 1° <b>8</b> 27'27 5° <b>8</b> 39'17 0° <b>I</b> I 0° <b>I</b> I29'31		-	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09 4660 Dec 01 04:09 4660 Dec 25 09:44 4661 Jan 18 16:36 4661 Feb 12 04:07	10°M40'21 0°♂ 16°♂28'57 0°云 0°≈ 0°升 0°Y	
desc. node	4658 May 17 22:33 4658 May 21 05:52 4658 May 27 09:58 4658 Jun 05 10:54 4658 Jul 05 16:05 4658 Jul 06 04:20 4658 Aug 03 15:22	29° <b>Y</b> 47'16 0° <b>႘</b> 1° <b>႘</b> 27'27 5° <b>႘</b> 39'17 0°Ⅲ 0°Ⅲ29'31		desc. node	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09 4660 Dec 01 04:09 4660 Dec 25 09:44 4661 Jan 18 16:36 4661 Feb 12 04:07 4661 Mar 09 03:20	10°M40'21 0°ダ 16°ダ28'57 0°云 0°≈ 0°升 0°Υ 0°Υ	
desc. node	4658 May 17 22:33 4658 May 21 05:52 4658 May 27 09:58 4658 Jun 05 10:54 4658 Jul 05 16:05 4658 Jul 06 04:20 4658 Aug 03 15:22 4658 Aug 30 09:07	29° <b>Y</b> 47'16 0° <b>႘</b> 1° <b>႘</b> 27'27 5° <b>႘</b> 39'17 0°Ⅲ 0°Ⅲ29'31 0°፡ 0°Ω		desc. node	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09 4660 Dec 01 04:09 4660 Dec 25 09:44 4661 Jan 18 16:36 4661 Feb 12 04:07 4661 Mar 09 03:20 4661 Mar 13 08:06	10°M40'21 0° ₹ 16° ₹28'57 0°₹ 0° ₹ 0° ₩ 0° ₩ 0° ₩ 4° ₩ 56'59	46°19'56
desc. node morning max el	4658 May 17 22:33 4658 May 21 05:52 4658 May 27 09:58 4658 Jun 05 10:54 4658 Jul 05 16:05 4658 Jul 06 04:20 4658 Aug 03 15:22 4658 Aug 30 09:07 4658 Sep 25 01:37	29° <b>Y</b> 47'16 0° <b>8</b> 1° <b>8</b> 27'27 5° <b>8</b> 39'17 0° <b>1</b> 0° <b>1</b> 0° <b>1</b> 0° <b>2</b> 0° <b>3</b> 0° <b>1</b> 1° <b>1</b> ,45'32 0° <b>2</b>		desc. node asc. node evening max el	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09 4660 Dec 01 04:09 4660 Dec 25 09:44 4661 Jan 18 16:36 4661 Feb 12 04:07 4661 Mar 09 03:20 4661 Mar 13 08:06 4661 Apr 04 04:35	10° \mathbb{\pi}.40'21 0° \mathbb{\pi}. 16° \mathbb{\pi}.28'57 0° \mathbb{\pi}. 0° \mathbb{\pi}. 0° \mathbb{\pi}. 0° \mathbb{\pi}. 0° \mathbb{\pi}. 4° \mathbb{\pi}.56'59 0° \mathbb{\pi}. 24° \mathbb{\pi}.07'12 0° \mathbb{\pi}.	
desc. node morning max el	4658 May 17 22:33 4658 May 21 05:52 4658 May 27 09:58 4658 Jun 05 10:54 4658 Jul 05 16:05 4658 Jul 06 04:20 4658 Aug 03 15:22 4658 Aug 30 09:07 4658 Sep 25 01:37 4658 Sep 26 13:12 4658 Oct 20 01:38 4658 Nov 13 14:01	29° <b>Y</b> 47'16 0° <b>8</b> 1° <b>8</b> 27'27 5° <b>8</b> 39'17 0° <b>1</b> 0° <b>1</b> 29'31 0° <b>2</b> 0° <b>3</b> 0° <b>3</b> 1° <b>1</b> 945'32 0° <b>2</b> 0° <b>1</b>		desc. node  asc. node  evening max el  greatest brilliancy	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09 4660 Dec 01 04:09 4660 Dec 25 09:44 4661 Jan 18 16:36 4661 Feb 12 04:07 4661 Mar 09 03:20 4661 Apr 04 04:35 4661 Apr 26 22:46 4661 May 03 00:14 4661 Jun 04 16:42	10° \mathbb{\pi}.40'21 0° \mathbb{\pi}. 16° \mathbb{\pi}.28'57 0° \mathbb{\pi}. 0° \mathbb{\pi}. 0° \mathbb{\pi}. 0° \mathbb{\pi}. 0° \mathbb{\pi}. 4° \mathbb{\pi}.56'59 0° \mathbb{\pi}. 24° \mathbb{\pi}.07'12 0° \mathbb{\pi}. 23° \mathbb{\pi}.33' \mathbb{\pi}.33'	46°19'56 -4.8m
desc. node morning max el asc. node	4658 May 17 22:33 4658 May 21 05:52 4658 May 27 09:58 4658 Jun 05 10:54 4658 Jul 05 16:05 4658 Jul 06 04:20 4658 Aug 03 15:22 4658 Aug 30 09:07 4658 Sep 25 01:37 4658 Sep 26 13:12 4658 Oct 20 01:38 4658 Nov 13 14:01 4658 Dec 07 18:46	29° <b>Y</b> 47'16 0° <b>8</b> 1° <b>8</b> 27'27 5° <b>8</b> 39'17 0° <b>1</b> 0° <b>1</b> 0° <b>1</b> 0° <b>2</b> 0° <b>2</b> 0° <b>3</b> 0° <b>3</b> 0° <b>4</b> 0° <b>1</b> 0° <b>1</b> 0° <b>1</b> 0° <b>3</b>		desc. node  asc. node  evening max el  greatest brilliancy retrograde	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09 4660 Dec 01 04:09 4660 Dec 25 09:44 4661 Jan 18 16:36 4661 Feb 12 04:07 4661 Mar 09 03:20 4661 Apr 04 04:35 4661 Apr 26 22:46 4661 May 03 00:14 4661 Jun 04 16:42 4661 Jun 15 17:11	10° \(\mathbb{\pi}\)40'21\\ 0° \(\mathbb{\pi}\) 16° \(\mathbb{\pi}\)28'57\\ 0° \(\mathbb{\pi}\) 0° \(\mathbb{\pi}\) 0° \(\mathbb{\pi}\) 0° \(\mathbb{\pi}\) 4° \(\mathbb{\pi}\)56'59\\ 0° \(\mathbb{\pi}\) 24° \(\mathbb{\pi}\)07'12\\ 0° \(\mathbb{\pi}\) 23° \(\mathbb{\pi}\)33'53\\ 25° \(\mathbb{\pi}\)48'08	
desc. node morning max el	4658 May 17 22:33 4658 May 21 05:52 4658 May 27 09:58 4658 Jun 05 10:54 4658 Jul 05 16:05 4658 Jul 06 04:20 4658 Aug 03 15:22 4658 Aug 30 09:07 4658 Sep 25 01:37 4658 Sep 26 13:12 4658 Oct 20 01:38 4658 Nov 13 14:01 4658 Dec 07 18:46 4658 Dec 31 11:56	29° <b>Y</b> 47'16 0° <b>8</b> 1° <b>8</b> 27'27 5° <b>8</b> 39'17 0° <b>1</b> 0° <b>1</b> 0° <b>1</b> 0° <b>2</b> 0° <b>3</b> 0° <b>1</b> 1° <b>1</b> 045'32 0° <b>2</b> 0° <b>1</b> 0° <b>3</b> 0° <b>1</b> 1° <b>1</b> 045'32		asc. node  asc. node  evening max el  greatest brilliancy retrograde evening set	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09 4660 Dec 01 04:09 4660 Dec 25 09:44 4661 Jan 18 16:36 4661 Feb 12 04:07 4661 Mar 09 03:20 4661 Apr 04 04:35 4661 Apr 26 22:46 4661 Jan 04 16:42 4661 Jun 04 16:42 4661 Jun 15 17:11 4661 Jun 30 17:37	10° \(\mathbb{\pi}\)40'21\\ 0° \(\mathbb{\pi}\) 16° \(\mathbb{\pi}\)28'57\\ 0° \(\mathbb{\pi}\) 0° \(\mathbb{\pi}\) 0° \(\mathbb{\pi}\) 0° \(\mathbb{\pi}\) 4° \(\mathbb{\pi}\)56'59\\ 0° \(\mathbb{\pi}\) 24° \(\mathbb{\pi}\)07'12\\ 0° \(\mathbb{\pi}\) 23° \(\mathbb{\pi}\)33'53\\ 25° \(\mathbb{\pi}\)48'08\\ 21° \(\mathbb{\pi}\)23'41	
desc. node morning max el asc. node morning set	4658 May 17 22:33 4658 May 21 05:52 4658 May 27 09:58 4658 Jun 05 10:54 4658 Jul 05 16:05 4658 Jul 06 04:20 4658 Aug 03 15:22 4658 Aug 30 09:07 4658 Sep 25 01:37 4658 Sep 26 13:12 4658 Oct 20 01:38 4658 Nov 13 14:01 4658 Dec 07 18:46 4658 Dec 31 11:56 4658 Dec 31 11:56	29°Y47'16 0°႘ 1°႘27'27 5°႘39'17 0°Ⅲ 0°Ⅲ29'31 0°ℱ 0°№ 1°™45'32 0°№ 0°№ 29°ズ 37'55		asc. node  asc. node  evening max el  greatest brilliancy retrograde evening set desc. node	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09 4660 Dec 01 04:09 4660 Dec 25 09:44 4661 Jan 18 16:36 4661 Feb 12 04:07 4661 Mar 09 03:20 4661 Apr 04 04:35 4661 Apr 26 22:46 4661 Jan 04 16:42 4661 Jun 04 16:42 4661 Jun 15 17:11 4661 Jun 30 17:37 4661 Jul 02 22:48	10° M40'21 0° ♂ 16° √28'57 0° ♂ 0° ※ 0° भ 0° भ 0° भ 0° भ 0° भ 0° भ 24° M07'12 0° © 23° ©33'53 25° ©48'08 21° ©23'41 20° ©07'46	-4.8m
desc. node morning max el asc. node	4658 May 17 22:33 4658 May 21 05:52 4658 May 27 09:58 4658 Jun 05 10:54 4658 Jul 05 16:05 4658 Jul 06 04:20 4658 Aug 03 15:22 4658 Aug 30 09:07 4658 Sep 25 01:37 4658 Sep 26 13:12 4658 Oct 20 01:38 4658 Nov 13 14:01 4658 Dec 07 18:46 4658 Dec 31 11:56 4658 Dec 31 18:59 4659 Jan 16 03:47	29°Y47'16 0°႘ 1°႘27'27 5°႘39'17 0°Ⅲ 0°Ⅲ29'31 0°ಽ 0°Ո 1°M45'32 0°료 0°Ո 29°ズ37'55 0°ጜ 19°ጜ16'30		asc. node  asc. node  evening max el  greatest brilliancy retrograde evening set desc. node inferior conj	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09 4660 Dec 01 04:09 4660 Dec 25 09:44 4661 Jan 18 16:36 4661 Feb 12 04:07 4661 Mar 09 03:20 4661 Apr 04 04:35 4661 Apr 26 22:46 4661 May 03 00:14 4661 Jun 04 16:42 4661 Jun 15 17:11 4661 Jun 30 17:37 4661 Jul 02 22:48 4661 Jul 07 02:51	10° M40'21 0° ズ 16° ズ28'57 0° 云 0° ※ 0° 光 0° Y 0° Y 0° Y 0° B 4° 856'59 0° II 24° II07'12 0° ⑤ 23° ⑤33'53 25° ⑤48'08 21° ⑤23'41 20° ⑥07'46 17° ⑤34'01	-4.8m -1°00'07
desc. node morning max el asc. node morning set	4658 May 17 22:33 4658 May 21 05:52 4658 May 27 09:58 4658 Jun 05 10:54 4658 Jul 05 16:05 4658 Jul 06 04:20 4658 Aug 03 15:22 4658 Aug 30 09:07 4658 Sep 25 01:37 4658 Sep 26 13:12 4658 Oct 20 01:38 4658 Nov 13 14:01 4658 Dec 07 18:46 4658 Dec 31 11:56 4658 Dec 31 11:56	29°Y47'16 0°႘ 1°႘27'27 5°႘39'17 0°Ⅲ 0°Ⅲ29'31 0°ℱ 0°№ 1°™45'32 0°№ 0°№ 29°ズ 37'55		asc. node  asc. node  evening max el  greatest brilliancy retrograde evening set desc. node inferior conj minimum elong	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09 4660 Dec 01 04:09 4660 Dec 25 09:44 4661 Jan 18 16:36 4661 Feb 12 04:07 4661 Mar 09 03:20 4661 Apr 04 04:35 4661 Apr 26 22:46 4661 Jun 04 16:42 4661 Jun 04 16:42 4661 Jun 30 17:37 4661 Jul 02 22:48 4661 Jul 07 02:51 4661 Jul 07 00:37	10° \(\mathbb{\pi}\)40'21\\ 0° \(\mathbb{\pi}\) 16° \(\mathbb{\pi}\)28'57\\ 0° \(\mathbb{\pi}\) 0° \(\mathbb{\pi}\) 0° \(\mathbb{\pi}\) 0° \(\mathbb{\pi}\) 4° \(\mathbb{\pi}\)56'59\\ 0° \(\mathbb{\pi}\) 24° \(\mathbb{\pi}\)07'12\\ 0° \(\mathbb{\pi}\) 23° \(\mathbb{\pi}\)33'53\\ 25° \(\mathbb{\pi}\)48'08\\ 21° \(\mathbb{\pi}\)23'41\\ 20° \(\mathbb{\pi}\)07'46\\ 17° \(\mathbb{\pi}\)37'30	-4.8m -1°00'07 0°59'28
desc. node morning max el asc. node morning set desc. node	4658 May 17 22:33 4658 May 21 05:52 4658 May 27 09:58 4658 Jun 05 10:54 4658 Jul 05 16:05 4658 Jul 06 04:20 4658 Aug 03 15:22 4658 Aug 30 09:07 4658 Sep 25 01:37 4658 Sep 26 13:12 4658 Oct 20 01:38 4658 Dec 07 18:46 4658 Dec 31 11:56 4658 Dec 31 11:56 4659 Jan 16 03:47 4659 Jan 24 16:40	29°Y47'16 0°8 1°827'27 5°839'17 0°11 0°1129'31 0°50 0°10 1°1045'32 0°10 0°11 29°137'55 0°13 19°1316'30 0°∞	45°58'13	asc. node  asc. node  evening max el  greatest brilliancy retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09 4660 Dec 01 04:09 4660 Dec 25 09:44 4661 Jan 18 16:36 4661 Feb 12 04:07 4661 Mar 09 03:20 4661 Apr 04 04:35 4661 Apr 26 22:46 4661 Jan 04 16:42 4661 Jun 04 16:42 4661 Jun 30 17:37 4661 Jul 07 02:51 4661 Jul 07 00:37 4661 Jul 06 19:00	10° M40'21 0° 🖈 16° №28'57 0° ♂ 0° № 0° भ 0° भ 0° भ 4° ♂ 56'59 0° II 24° II 07'12 0° © 23° © 33'53 25° © 48'08 21° © 23'41 20° © 07'46 17° © 34'01 17° © 34'01 17° © 34'619	-4.8m -1°00'07
desc. node morning max el asc. node morning set desc. node	4658 May 17 22:33 4658 May 21 05:52 4658 May 27 09:58 4658 Jun 05 10:54 4658 Jul 05 16:05 4658 Jul 06 04:20 4658 Aug 03 15:22 4658 Aug 30 09:07 4658 Sep 25 01:37 4658 Sep 26 13:12 4658 Oct 20 01:38 4658 Nov 13 14:01 4658 Dec 31 11:56 4658 Dec 31 11:56 4658 Dec 31 18:59 4659 Jan 16 03:47 4659 Feb 10 10:37	29°Y47'16 0°8 1°827'27 5°839'17 0°11 0°1129'31 0°56 0°10 0°10 1°1045'32 0°10 0°11 29°137'55 0°13 19°1316'30 0°≈ 21°≈03'51	45°58'13 -0°56'15	asc. node  asc. node  evening max el  greatest brilliancy retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09 4660 Dec 01 04:09 4660 Dec 25 09:44 4661 Jan 18 16:36 4661 Feb 12 04:07 4661 Mar 09 03:20 4661 Apr 04 04:35 4661 Apr 26 22:46 4661 May 03 00:14 4661 Jun 04 16:42 4661 Jun 15 17:11 4661 Jun 30 17:37 4661 Jul 07 02:51 4661 Jul 07 00:37 4661 Jul 06 19:00 4661 Jul 13 07:59	10° \(\mathbb{\pi}\).40'21\\ 0° \(\mathbb{\pi}\).28'57\\ 0° \(\mathbb{\pi}\).0° \(\ma	-4.8m -1°00'07 0°59'28
desc. node morning max el asc. node morning set desc. node superior conj minimum elong	4658 May 17 22:33 4658 May 21 05:52 4658 May 27 09:58 4658 Jun 05 10:54 4658 Jul 05 16:05 4658 Jul 06 04:20 4658 Aug 03 15:22 4658 Aug 30 09:07 4658 Sep 25 01:37 4658 Sep 26 13:12 4658 Oct 20 01:38 4658 Nov 13 14:01 4658 Dec 31 11:56 4658 Dec 31 11:56 4658 Dec 31 18:59 4659 Jan 16 03:47 4659 Feb 10 10:37 4659 Feb 09 22:51	29°Y47'16 0°8 1°827'27 5°839'17 0°11 0°1129'31 0°56 0°10 0°10 1°1045'32 0°10 0°11 0°15 19	-0°56'15 0°55'47	asc. node  asc. node  evening max el  greatest brilliancy retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09 4660 Dec 01 04:09 4660 Dec 25 09:44 4661 Jan 18 16:36 4661 Feb 12 04:07 4661 Mar 09 03:20 4661 Apr 04 04:35 4661 Apr 26 22:46 4661 May 03 00:14 4661 Jun 04 16:42 4661 Jun 15 17:11 4661 Jun 30 17:37 4661 Jul 07 02:51 4661 Jul 07 00:37 4661 Jul 07 00:37 4661 Jul 06 19:00 4661 Jul 13 07:59 4661 Jul 28 11:44	10° \(\mathbb{\pi}\).40'21\\ 0° \(\mathbb{\pi}\).16° \(\mathbb{\pi}\).28'57\\ 0° \(\mathbb{\pi}\).0° \(\m	-4.8m -1°00'07 0°59'28 0.28629 AU
desc. node morning max el asc. node morning set desc. node	4658 May 17 22:33 4658 May 21 05:52 4658 May 27 09:58 4658 Jun 05 10:54 4658 Jul 05 16:05 4658 Jul 06 04:20 4658 Aug 03 15:22 4658 Aug 30 09:07 4658 Sep 25 01:37 4658 Sep 26 13:12 4658 Oct 20 01:38 4658 Nov 13 14:01 4658 Dec 07 18:46 4658 Dec 31 11:56 4658 Dec 31 11:56 4658 Dec 31 18:59 4659 Jan 16 03:47 4659 Feb 10 10:37 4659 Feb 09 22:51 4659 Feb 10 05:24	29° <b>Y</b> 47'16 0° <b>8</b> 1° <b>8</b> 27'27 5° <b>8</b> 39'17 0° <b>1</b> 0° <b>1</b> 29'31 0° <b>5</b> 0° <b>1</b> 0° <b>1</b> 29'31 0° <b>5</b> 0° <b>1</b> 0° <b>1</b> 1° <b>1</b> 45'32 0° <b>2</b> 0° <b>1</b> 0° <b>3</b> 1° <b>5</b> 16'30 0°≈ 21°≈03'51 20°≈26'49 20°≈47'27	45°58'13 -0°56'15	asc. node  asc. node  evening max el  greatest brilliancy retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09 4660 Dec 01 04:09 4660 Dec 25 09:44 4661 Jan 18 16:36 4661 Feb 12 04:07 4661 Mar 09 03:20 4661 Apr 04 04:35 4661 Apr 26 22:46 4661 Apr 04 16:42 4661 Jun 04 16:42 4661 Jun 15 17:11 4661 Jun 07 02:51 4661 Jul 07 00:37 4661 Jul 07 00:37 4661 Jul 06 19:00 4661 Jul 13 07:59 4661 Jul 28 11:44 4661 Aug 07 13:20	10° \(\mathbb{\pi}\).40'21\\ 0° \(\mathbb{\pi}\).16° \(\mathbb{\pi}\).28'57\\ 0° \(\mathbb{\pi}\).0° \(\m	-4.8m -1°00'07 0°59'28 0.28629 AU
desc. node morning max el asc. node morning set desc. node superior conj minimum elong	4658 May 17 22:33 4658 May 21 05:52 4658 May 27 09:58 4658 Jun 05 10:54 4658 Jul 05 16:05 4658 Jul 06 04:20 4658 Aug 03 15:22 4658 Aug 30 09:07 4658 Sep 25 01:37 4658 Sep 26 13:12 4658 Oct 20 01:38 4658 Nov 13 14:01 4658 Dec 31 11:56 4658 Dec 31 11:56 4658 Dec 31 18:59 4659 Jan 16 03:47 4659 Feb 10 10:37 4659 Feb 09 22:51	29°Y47'16 0°8 1°827'27 5°839'17 0°11 0°1129'31 0°56 0°10 0°10 1°1045'32 0°10 0°11 0°15 19	-0°56'15 0°55'47	asc. node  asc. node  evening max el  greatest brilliancy retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	4660 Oct 22 08:05 4660 Nov 06 22:44 4660 Nov 20 06:09 4660 Dec 01 04:09 4660 Dec 25 09:44 4661 Jan 18 16:36 4661 Feb 12 04:07 4661 Mar 09 03:20 4661 Apr 04 04:35 4661 Apr 26 22:46 4661 May 03 00:14 4661 Jun 04 16:42 4661 Jun 15 17:11 4661 Jun 30 17:37 4661 Jul 07 02:51 4661 Jul 07 00:37 4661 Jul 07 00:37 4661 Jul 06 19:00 4661 Jul 13 07:59 4661 Jul 28 11:44	10° \(\mathbb{\pi}\).40'21\\ 0° \(\mathbb{\pi}\).16° \(\mathbb{\pi}\).28'57\\ 0° \(\mathbb{\pi}\).0° \(\m	-4.8m -1°00'07 0°59'28 0.28629 AU -4.7m

	4661 Oct 05 19:26	0° m			4664 Jun 05 08:24	0°N	
asc. node	4661 Oct 24 00:56	20° m/05'00			4664 Jul 03 15:55	o°mp	
	4661 Nov 01 17:14	0∘ <b>ಹ</b>		evening max el	4664 Jul 06 15:04	2° m 53'35	45°34'11
	4661 Nov 27 03:58	0° <b>M</b>		desc. node	4664 Jul 30 10:48	23° m 03'30	
	4661 Dec 21 20:12	0° <b>∡</b> ¹			4664 Aug 11 17:11	0∘ <u>⊽</u>	
	4662 Jan 15 02:22	0°ರ		greatest brilliancy	4664 Aug 13 22:06	0° <b>ჲ</b> 51′29	-4.7m
	4662 Feb 08 03:14	0° <b>≈</b>		retrograde	4664 Aug 24 08:16	2° <b>≙</b> 48'11	
desc. node	4662 Feb 12 15:42	5° <b>≈</b> 39'24			4664 Sep 05 07:30	30°R, Mp	
	4662 Mar 04 01:37	0° <b>∀</b>		evening set	4664 Sep 10 21:19	27° Mp 01'12	
morning set	4662 Mar 18 04:24	17° <b>)</b> 42'41		inferior conj	4664 Sep 14 19:56	24° <b>m</b> 35'14	-8°14'00
	4662 Mar 27 23:28	$0^{\circ}\Upsilon$		minimum elong	4664 Sep 14 14:18	24° Mp 44'04	8°13'31
	4662 Apr 20 22:30	$0^{\circ}S$		min. Earth dist.	4664 Sep 14 22:15	24° Mp 31'35	0.29079 AU
				morning rise	4664 Sep 18 07:15	22° m/26'08	
superior conj	4662 Apr 27 11:24	8° <b>8</b> 09'56		direct	4664 Oct 06 11:03	16° <b>m</b> 17'08	
minimum elong	4662 Apr 27 20:36	8° <b>8</b> 38'40		greatest brilliancy	4664 Oct 17 00:57	18° <b>m</b> 19'21	-4.8m
max. Earth dist.	4662 May 01 06:40		1.71999 AU	_	4664 Nov 05 11:59	0∘ <b>⊽</b>	
	4662 May 15 00:13	0°II		asc. node	4664 Nov 20 12:44	13° <b>2</b> 09'16	
evening rise	4662 Jun 05 16:09	26° <b>I</b> I50'33		morning max el	4664 Nov 25 02:14	17° <b>£</b> 35′20	46°14'41
asc. node	4662 Jun 05 17:41	26° <b>I</b> 55'18			4664 Dec 07 03:40	0° <b>M</b>	
	4662 Jun 08 05:32	0° <b>©</b>			4665 Jan 02 22:54	0° <b>∡</b>	
	4662 Jul 02 14:47	0° <b>Ω</b>			4665 Jan 28 05:31	0°る 0°≈	
	4662 Jul 27 04:26 4662 Aug 20 23:47	0° <b>ट</b> 0°₥		desc. node	4665 Feb 21 20:14 4665 Mar 12 03:32	0 ≈ 22°≈34'20	
	4662 Sep 15 03:31	0°M		desc. node	4665 Mar 18 03:31	22 <b>≈</b> 34 20 0° <b>H</b>	
desc. node	4662 Sep 25 08:23	12°ML00'31			4665 Apr 11 07:40	0° <b>Υ</b>	
dese. Hode	4662 Oct 10 20:04	0° <b>₹</b>			4665 May 05 11:22	%8 0°8	
	4662 Nov 06 10:39	0°ਤੋ			4665 May 29 16:20	0°II	
evening max el	4662 Dec 01 07:11	26° <b>පි</b> 08'16	46°46'25	morning set	4665 May 31 00:38	1° <b>Ⅱ</b> 39'53	
* · · · · · · · · · · · · · · · · · · ·	4662 Dec 05 06:02	0° <b>≈</b>			4665 Jun 22 23:14	0ಂತಿ	
greatest brilliancy	4663 Jan 10 13:47	26°≈38'30	-4.9m	asc. node	4665 Jul 03 05:37	12° <b>©</b> 39'10	
asc. node	4663 Jan 16 10:26	28° <b>≈</b> 11'55					
retrograde	4663 Jan 20 14:31	28° <b>≈</b> 32'36		superior conj	4665 Jul 07 17:19	18° <b>©</b> 10'50	0°10'45
evening set	4663 Feb 04 15:34	24° <b>≈</b> 02'39		minimum elong	4665 Jul 07 15:00	18°503'42	0°10'38
min. Earth dist.	4663 Feb 09 15:26	21° <b>≈</b> 06′00	0.26687 AU	behind sun begin	4665 Jul 06 21:39	17° <b>©</b> 10'16	
inferior conj	4663 Feb 10 03:32	20° <b>≈</b> 47'31	5°55'23	behind sun end	4665 Jul 08 08:21	18° <b>9</b> 57'09	
minimum elong	4663 Feb 09 16:50	21° <b>≈</b> 03'53	5°52'44	max. Earth dist.	4665 Jul 09 02:08	19° <b>©</b> 51'53	1.73297 AU
morning rise	4663 Feb 14 18:18	18° <b>≈</b> 02'39			4665 Jul 17 07:42	$0^{\circ}\Omega$	
direct	4663 Mar 02 14:57	13° <b>≈</b> 06'41			4665 Aug 10 17:06	O° Mp	
greatest brilliancy	4663 Mar 12 02:53	14°≈50'03	-4.9m	evening rise	4665 Aug 13 04:57	3° <b>m</b> 03'54	
	4663 Apr 05 01:28	0° <b>∺</b>			4665 Sep 04 03:25	0∘ <b>ত</b>	
morning max el	4663 Apr 21 21:54	15° <b>)</b> 38′57	46°44'37		4665 Sep 28 15:28	0°M	
	4663 May 05 18:22	0° <b>Υ</b>		desc. node	4665 Oct 22 20:15	29°M29'13	
desc. node	4663 May 08 01:11	2° <b>Υ</b> 27'13			4665 Oct 23 06:23	0° <b>∡</b>	
	4663 Jun 01 18:28	0°H 0°S			4665 Nov 17 01:09	0°る 0°≈	
	4663 Jun 27 15:08	0ಂខ ೧.π			4665 Dec 12 01:38	0° <b>₩</b>	
	4663 Jul 22 23:35 4663 Aug 17 00:17	0° <b>U</b>			4666 Jan 06 13:46 4666 Feb 02 08:10	0° <b>Υ</b>	
asc. node	4663 Aug 29 03:17	14° <b>Ω</b> 39'17		evening max el	4666 Feb 11 23:12	10° <b>Υ</b> 04'08	47°08'59
asc. node	4663 Sep 10 18:11	0°M)		asc. node	4666 Feb 12 22:19	10 <b>γ</b> 04 08	47 08 39
	4663 Oct 05 05:41	0° <del>ت</del>		use. Houe	4666 Mar 05 15:24	0° <b>と</b>	
morning set	4663 Oct 18 14:28	ა <b>—</b> 16° <b>ჲ</b> 30'07		greatest brilliancy	4666 Mar 24 12:34	11° <b>8</b> 27'53	-4 9m
	4663 Oct 29 11:55	0° <b>™</b>		retrograde	4666 Apr 03 17:02	13° <b>8</b> 25'37	
max. Earth dist.	4663 Nov 22 05:51	29°M32'46	1.72086 AU	evening set	4666 Apr 21 06:46	7° <b>8</b> 27'44	
	4663 Nov 22 14:35	0° <b>∡</b> ¹		inferior conj	4666 Apr 24 15:32	5° <b>8</b> 22'47	8°08'01
				minimum elong	4666 Apr 24 23:45	5° <b>8</b> 09'56	8°06'56
superior conj	4663 Nov 25 00:41	3° <b>₹</b> '01'08	0°52'59	min. Earth dist.	4666 Apr 24 10:27	5° <b>8</b> 30'45	0.27680 AU
minimum elong	4663 Nov 25 10:34	3° <b>∡</b> 31'58	0°52'36	morning rise	4666 Apr 28 16:58	2° <b>8</b> 53'33	
	4663 Dec 16 15:05	ರ°0			4666 May 04 05:54	30° <b>₹Ƴ</b>	
desc. node	4663 Dec 18 18:02	2° <b>る</b> 39'16		direct	4666 May 15 11:49	27° <b>Ƴ</b> 27'57	
evening rise	4664 Jan 03 15:03	22° <b>る</b> 31'27		greatest brilliancy	4666 May 24 23:36	29° <b>Ƴ</b> 08'01	-4.8m
	4664 Jan 09 14:17	0° <b>≈</b>			4666 May 27 07:20	$9^{\circ}$ 8	
	4664 Feb 02 12:59	0° <b>∀</b>		desc. node	4666 Jun 04 12:57	4° <b>8</b> 13'45	
	4664 Feb 26 12:45	0° <b>Υ</b>		morning max el	4666 Jul 03 17:54	28° <b>8</b> 11'01	45°59'27
_	4664 Mar 21 16:29	0°8			4666 Jul 05 14:43	0°II	
asc. node	4664 Apr 09 19:57	23° <b>8</b> 29'53			4666 Aug 03 07:16	0°©	
	4664 Apr 15 04:19	0°II			4666 Aug 29 22:33	$\Omega^{\circ}\Omega$	
	4664 May 10 06:07	0ංම			4666 Sep 24 13:50	0° <b>m</b>	

asc. node	4666 Sep 25 15:05	1° <b>m</b> 14'59		evening max el	4669 Apr 24 14:40	21° <b>∏</b> 53'44	46°22'12
	4666 Oct 19 13:11	0∘ <b>⊽</b>			4669 May 03 01:08	0 ಲ	
	4666 Nov 13 01:13	0°M		greatest brilliancy	4669 Jun 02 08:43	21° <b>©</b> 22'30	-4.8m
	4666 Dec 07 05:49	0°⊀		retrograde	4669 Jun 13 10:04	23° <b>©</b> 37'27	
morning set	4666 Dec 29 00:04	27° <b>∡</b> 11′05		evening set	4669 Jun 28 10:04	19° <b>©</b> 12'29	
-	4666 Dec 31 06:00	ರ°0		desc. node	4669 Jul 02 00:52	17° <b>©</b> 05'46	
desc. node	4667 Jan 15 05:51	18° <b>る</b> 48'30		inferior conj	4669 Jul 04 18:50	15° <b>5</b> 23'26	-0°39'46
	4667 Jan 24 03:40	0° <b>≈</b>		minimum elong	4669 Jul 04 17:21	15° <b>©</b> 25'45	0°39'19
				min. Earth dist.	4669 Jul 04 10:55	15° <b>©</b> 35'48	0.28596 AU
superior conj	4667 Feb 07 20:50	18° <b>≈</b> 30′27	-0°53'08	morning rise	4669 Jul 11 01:05	11° <b>©</b> 38'34	
minimum elong	4667 Feb 07 09:19	17° <b>≈</b> 54'13	0°52'40	direct	4669 Jul 26 03:38	7° <b>©</b> 13'32	
max. Earth dist.	4667 Feb 07 08:46	17° <b>≈</b> 52′28	1.71135 AU	greatest brilliancy	4669 Aug 05 04:21	9° <b>5</b> 02'27	-4.7m
	4667 Feb 17 00:05	0° <b>∀</b>			4669 Sep 05 09:51	$0$ $^{\circ}$ $\Omega$	
	4667 Mar 12 20:40	$0^{\circ}$ Y		morning max el	4669 Sep 12 21:07	6° <b>Ω</b> 54'10	45°42'45
evening rise	4667 Mar 20 20:12	10° <b>Y</b> ′00′52			4669 Oct 05 11:51	0° <b>™</b>	
	4667 Apr 05 19:20	0°8		asc. node	4669 Oct 23 03:01	19° <b>m</b> 30'34	
	4667 Apr 29 22:16	0°П			4669 Nov 01 06:46	0∘ <b>⊽</b>	
asc. node	4667 May 08 07:53	10° <b>∏</b> 22'41			4669 Nov 26 16:16	0° <b>™</b>	
	4667 May 24 07:32	0°50			4669 Dec 21 07:54	0° <b>∡</b>	
	4667 Jun 18 01:20	$0$ ° $\Omega$			4670 Jan 14 13:42	0°る	
	4667 Jul 13 07:23	0° m/y			4670 Feb 07 14:22	0° <b>≈</b>	
	4667 Aug 08 09:40	0∘ <b>⊽</b>		desc. node	4670 Feb 11 17:41	5°≈10'53	
desc. node	4667 Aug 27 22:30	21° <b>Ω</b> 23'05			4670 Mar 03 12:35	0° <b>)</b> {	
	4667 Sep 05 04:24	0°M	45046144	morning set	4670 Mar 15 14:38	15° <b>¥</b> 10′03	
evening max el	4667 Sep 16 23:22	11°M42'08	45°46'44		4670 Mar 27 10:19	0°Υ	
4 41 711	4667 Oct 08 07:10	0° 🔏	4.0		4670 Apr 20 09:15	0°8	
greatest brilliancy	4667 Oct 26 17:21	10° <b>₹</b> 08'20	-4.8m	aumorior coni	4670 Apr. 24 22:59	50 🔾 15117	1010142
retrograde	4667 Nov 04 21:00	11° <b>х</b> 40′36 6° <b>х</b> 47′23		superior conj	4670 Apr 24 23:58	5° <b>8</b> 45'47 6° <b>8</b> 12'55	
evening set	4667 Nov 20 21:24 4667 Nov 25 19:54		5025150	minimum elong max. Earth dist.	4670 Apr 25 08:39 4670 Apr 28 19:50	10° <b>8</b> 32'31	1.71949 AU
inferior conj minimum elong	4667 Nov 26 05:54	3° <b>х</b> <sup>7</sup> 51′01 3° <b>х</b> <sup>7</sup> 35′39	5°23'31	max. Earm dist.	4670 May 14 10:55	0° <b>Ⅱ</b>	1./1949 AU
min. Earth dist.	4667 Nov 26 19:02	3° <b>x</b> 35 39 3° <b>x</b> 15′29	0.27578 AU	evening rise	4670 Jun 03 07:13	0 H 24°H35'47	
morning rise	4667 Dec 01 13:37	0° <b>₹</b> 25'56	0.27378 AU	asc. node	4670 Jun 04 19:49	26°II28'50	
morning rise	4667 Dec 02 08:38	30°RM		use. Hode	4670 Jun 07 16:14	0°95	
direct	4667 Dec 16 19:27	25°M50'53			4670 Jul 02 01:35	$0 {\circ} \Omega$	
asc. node	4667 Dec 19 00:34	25°M56'45			4670 Jul 26 15:28	0° <b>m</b> )	
greatest brilliancy	4667 Dec 28 00:35	28°M11'33	-4.9m		4670 Aug 20 11:17	0∘ <b>⊽</b>	
8	4667 Dec 31 23:58	0° <b>⊼</b>			4670 Sep 14 15:52	0°M₊	
morning max el	4668 Feb 05 10:50	28° <b>₹</b> 59'22	46°55'05	desc. node	4670 Sep 24 10:21	11°M28'40	
	4668 Feb 06 10:39	0°る			4670 Oct 10 09:55	0° <b>∡</b> 7	
	4668 Mar 04 23:37	0° <b>≈</b>			4670 Nov 06 03:35	ರ°0	
	4668 Mar 30 16:45	0° <b>)</b> €		evening max el	4670 Nov 28 21:56	23° <b>る</b> 48'33	46°44'19
desc. node	4668 Apr 08 15:22	10° <b>)</b> 39'46		C	4670 Dec 05 07:41	0° <b>≈</b>	
	4668 Apr 24 16:55	$0^{\circ}$ Y		greatest brilliancy	4671 Jan 08 02:27	24° <b>≈</b> 10′34	-4.9m
	4668 May 19 09:58	0° <b>႘</b>		asc. node	4671 Jan 15 12:29	25° <b>≈</b> 55'49	
	4668 Jun 13 00:26	$\Pi$ °0		retrograde	4671 Jan 18 03:05	26° <b>≈</b> 03'57	
	4668 Jul 07 14:00	$0$ $\circ$ $\odot$		evening set	4671 Feb 02 00:53	21° <b>≈</b> 38′56	
asc. node	4668 Jul 30 17:25	28° <b>©</b> 18'45		min. Earth dist.	4671 Feb 07 04:23	18° <b>≈</b> 36'59	0.26667 AU
	4668 Aug 01 02:29	$0^{\circ}\Omega$		inferior conj	4671 Feb 07 15:46	18° <b>≈</b> 19'34	5°36'19
morning set	4668 Aug 07 23:59	8° <b>Ω</b> 27'10		minimum elong	4671 Feb 07 05:17	18° <b>≈</b> 35'36	5°33'38
	4668 Aug 25 13:01	0° <b>m</b>		morning rise	4671 Feb 12 09:54	15° <b>≈</b> 29'51	
max. Earth dist.	4668 Sep 11 12:57	20° m 55'59	1.73293 AU	direct	4671 Feb 28 03:39	10° <b>≈</b> 39'10	
				greatest brilliancy	4671 Mar 09 15:56	12° <b>≈</b> 22'48	-4.9m
superior conj	4668 Sep 13 12:14	23° <b>m</b> 21'49			4671 Apr 05 10:04	0° <b>∀</b>	
minimum elong	4668 Sep 13 06:53	23° m 05'20	1°21'06	morning max el	4671 Apr 19 10:48	13° <b>)</b> 14'18	46°45'53
	4668 Sep 18 21:18	0∘ <b>⊽</b>			4671 May 05 12:51	0°Υ •••••	
	4668 Oct 13 03:52	0°M		desc. node	4671 May 07 03:20	1° <b>Y</b> 44'07	
evening rise	4668 Oct 20 00:27	8°M29'09			4671 Jun 01 09:05	0° <b>B</b>	
J 1	4668 Nov 06 09:40	0° <b>⊼</b> ¹			4671 Jun 27 03:57	$\Pi^{\circ 0}$	
desc. node	4668 Nov 19 08:12	16° <b>₹</b> 01'09			4671 Jul 22 11:23	ია <b>O</b>	
	4668 Nov 30 15:19	ි ව°0		1	4671 Aug 16 11:28	0°Ω	
	4668 Dec 24 21:14	0° <b>∺</b>		asc. node	4671 Aug 28 05:12	14° <b>Ω</b> 11'51	
	4669 Jan 18 04:34	0° <del>Υ</del> 0°Υ			4671 Sep 10 05:00	0° <b>₽</b>	
	4669 Feb 11 16:47	0°Y		morning set	4671 Oct 04 16:18	0° <b>ჲ</b> 14° <b>ჲ</b> 21'25	
asc. node	4669 Mar 08 17:12 4669 Mar 12 09:59	4° <b>8</b> 21'02		morning set	4671 Oct 16 07:25 4671 Oct 28 22:29	0° <b>M</b>	
use. Houe	4669 Apr 03 21:04	4 <b>O</b> 21 02 0° <b>Ⅱ</b>		max. Earth dist.	4671 Nov 19 17:44		1.72136 AU
	.007 rpr 05 21.04	v <u>н</u>		max. Durin dist.	.0/11107 1/ 1/.77	2, IIV0/13	1.,2150 AU

	4671 Nov 22 01:12	0° <b>∡</b>		inferior conj	4674 Apr 22 05:35	3° <b>8</b> 02'11	8°17'27
				minimum elong	4674 Apr 22 13:13	2° <b>8</b> 50'17	8°16'32
superior conj	4671 Nov 22 15:31	0° <b>∡</b> ¹44'37	0°55'43	min. Earth dist.	4674 Apr 22 00:28	3° <b>8</b> 10'11	0.27648 AU
minimum elong	4671 Nov 23 01:30	1° <b>≯</b> 15'44	0°55'20	morning rise	4674 Apr 26 02:57	0° <b>8</b> 38'58	
	4671 Dec 16 01:50	0°ಕ			4674 Apr 27 05:46	30° <b>₹Ƴ</b>	
desc. node	4671 Dec 17 20:08	2° <b>る</b> 12'14		direct	4674 May 13 00:46	25° <b>Y</b> 07'38	
evening rise	4672 Jan 01 03:12	20° <b>පි</b> 05'12		greatest brilliancy	4674 May 22 13:18	26° <b>Y</b> 48'13	-4.8m
	4672 Jan 09 01:11	0° <b>≫</b>		desc. node	4674 May 29 19:09	0°8	
	4672 Feb 02 00:03 4672 Feb 26 00:01	0° <b>Υ</b>		morning max el	4674 Jun 03 15:01 4674 Jul 01 07:50	2° <b>8</b> 50'47 25° <b>8</b> 53'25	46°00'56
	4672 Mar 21 04:01	0°8		morning max cr	4674 Jul 05 12:25	0° <b>I</b> I	40 00 30
asc. node	4672 Apr 08 22:00	22° <b>8</b> 59'52			4674 Aug 02 22:44	0°50	
	4672 Apr 14 16:21	0°II			4674 Aug 29 11:39	$0^{\circ}\Omega$	
	4672 May 09 19:08	0°99			4674 Sep 24 01:46	0° <b>m</b> )	
	4672 Jun 04 23:33	$0^{\circ}\Omega$		asc. node	4674 Sep 24 17:07	0° Mp 45′36	
	4672 Jul 03 13:04	0° <b>m</b>			4674 Oct 19 00:30	0∘ <b>ত</b>	
evening max el	4672 Jul 04 06:21	0°Mp41′52	45°34'55		4674 Nov 12 12:14	$0^{\circ}$ M	
desc. node	4672 Jul 29 12:47	21° <b>m</b> 52'04			4674 Dec 06 16:41	0°⊀	
greatest brilliancy	4672 Aug 11 13:39	28° m/42'43	-4.7m	morning set	4674 Dec 26 12:57	24° <b>∡</b> ′47′16	
	4672 Aug 16 00:18	0∘ <b>ʊ</b>			4674 Dec 30 16:48	0°る	
retrograde	4672 Aug 21 23:48	0° <b>£</b> 39'51		desc. node	4675 Jan 14 07:50	18° <b>る</b> 20'50	
	4672 Aug 27 19:26	30°RM)		Earth diet	4675 Jan 23 14:28	0°≈	1 71140 ATT
evening set inferior conj	4672 Sep 08 10:44 4672 Sep 12 12:18	24° m 57'04 22° m 26'41	9°07'42	max. Earth dist.	4675 Feb 04 16:21	15***11*24	1.71148 AU
minimum elong	4672 Sep 12 12.18 4672 Sep 12 06:02	22° Tp 36'30		superior conj	4675 Feb 05 07:28	15° <b>≈</b> 58'57	-0°49'56
min. Earth dist.	4672 Sep 12 13:54	22° m/24'10	0.29091 AU	minimum elong	4675 Feb 04 20:19	15°≈23'51	
morning rise	4672 Sep 16 01:16	20° m 14'54	0.27071710	minimum ciong	4675 Feb 16 10:54	0° <b>∀</b>	0 1,7 20
direct	4672 Oct 04 03:07	14° mp 08'33			4675 Mar 12 07:32	0°Υ	
greatest brilliancy	4672 Oct 14 16:49	16° <b>m</b> 09'56	-4.8m	evening rise	4675 Mar 18 06:55	7° <b>Y</b> 29'53	
	4672 Nov 05 21:12	0∘ <b>⊽</b>		-	4675 Apr 05 06:17	$9^{\circ}$ 8	
asc. node	4672 Nov 19 14:48	12° <b>≏</b> 19′01			4675 Apr 29 09:22	$\Pi^{\circ}0$	
morning max el	4672 Nov 22 16:17	15° <b>≏</b> 18′23	46°13'05	asc. node	4675 May 07 09:58	9° <b>∏</b> 54'45	
	4672 Dec 06 21:25	0°M₊			4675 May 23 18:52	$0$ $\circ$ $\odot$	
	4673 Jan 02 13:07	0° <b>∡</b>			4675 Jun 17 13:07	$0^{\circ}\Omega$	
	4673 Jan 27 18:19	5°0			4675 Jul 12 20:05	0° mp	
	4673 Feb 21 08:17	0°≈			4675 Aug 08 00:16	0∘ <b>ʊ</b>	
desc. node	4673 Mar 11 05:30	22°≈04'15		desc. node	4675 Aug 27 00:30	20° <b>Ω</b> 42'26	
	4673 Mar 17 15:06 4673 Apr 10 18:54	0° <b>∀</b> 0° <b>Υ</b>		evening max el	4675 Sep 04 23:41 4675 Sep 14 13:43	0° <b>M</b> 9° <b>M</b> 27′03	15015122
	4673 May 04 22:19	0°8		evening max ei	4675 Oct 09 02:44	9 1162703 0° <b>⊼</b> 1	43 43 23
morning set	4673 May 28 15:52	29° <b>8</b> 25'19		greatest brilliancy	4675 Oct 24 06:02	7° <b>∡</b> 749'21	-4.8m
morning sec	4673 May 29 03:05	0°II		retrograde	4675 Nov 02 11:00	9°×722'30	
	4673 Jun 22 09:50	0°छ		evening set	4675 Nov 18 14:13	4° <b>₹</b> 24'17	
asc. node	4673 Jul 02 07:33	12° <b>©</b> 12'40		inferior conj	4675 Nov 23 09:52	1° <b>∡</b> ³31'46	-5°42'56
				minimum elong	4675 Nov 23 20:04	1° <b>≯</b> 16′06	5°40'32
superior conj	4673 Jul 05 10:08	16° <b>©</b> 02'22	0°07'29	min. Earth dist.	4675 Nov 24 09:07	0° <b>∡</b> 756′05	0.27647 AU
minimum elong	4673 Jul 05 08:31	15° <b>©</b> 57'24	0°07'23		4675 Nov 25 21:56	30°RM	
behind sun begin	4673 Jul 04 11:49	14° <b>©</b> 53'39		morning rise	4675 Nov 29 01:14	28°M10'12	
behind sun end	4673 Jul 06 05:14	17° <b>©</b> 01'10		direct	4675 Dec 14 10:35	23°M30'36	
max. Earth dist.	4673 Jul 06 21:04	17°9549'55	1.73268 AU	asc. node	4675 Dec 18 02:33	23°M46'37	4.0
	4673 Jul 16 18:15	0° <b>W</b> 0° <b>W</b>		greatest brilliancy	4675 Dec 25 15:38	25°M51'44 0°⊀	-4.9m
evening rise	4673 Aug 10 03:41 4673 Aug 10 23:19	1°Mp00'20		morning max el	4676 Jan 02 18:39 4676 Feb 03 02:26	0 <b>x</b> . 26° <b>x</b> 40'59	46°54'25
evening rise	4673 Sep 03 14:09	ារ្គ0020 0° <b>Ω</b>		morning max cr	4676 Feb 06 08:05	20 × 4032	40 34 23
	4673 Sep 28 02:30	0° <b>m</b>			4676 Mar 04 15:25	0° <b>≈</b>	
desc. node	4673 Oct 21 22:23	29°M00'53			4676 Mar 30 06:22	0° <b>ℋ</b>	
	4673 Oct 22 17:52	0° <b>∡</b> ¹		desc. node	4676 Apr 07 17:32	10° <b>)</b> €06'48	
	4673 Nov 16 13:19	8°0			4676 Apr 24 05:25	0° <b>Υ</b>	
	4673 Dec 11 14:53	0° <b>≈</b>			4676 May 18 21:47	0°8	
	4674 Jan 06 04:55	0° <b>∀</b>			4676 Jun 12 11:47	$\Pi$ °0	
	4674 Feb 02 03:41	$0^{\circ}\Upsilon$			4676 Jul 07 01:01	$0$ $\circ$ $\odot$	
evening max el	4674 Feb 09 12:10	7° <b>Ƴ</b> 38'40	47°09'20	asc. node	4676 Jul 29 19:22	27° <b>©</b> 51'43	
asc. node	4674 Feb 12 00:12	10° <b>Y</b> 10′02			4676 Jul 31 13:15	$0$ $^{\circ}\Omega$	
	4674 Mar 06 07:31	0°8	4.0	morning set	4676 Aug 05 17:33	6° <b>Ω</b> 20'55	
greatest brilliancy	4674 Mar 22 03:55	9° <b>8</b> 07'24	-4.9m		4676 Aug 24 23:41	0° m/y	1 52215 : **
retrograde	4674 Apr 01 06:55	11° <b>8</b> 04'24		max. Earth dist.	4676 Sep 09 10:46	19° Mp 02'25	1.73315 AU
evening set	4674 Apr 18 23:38	5° <b>8</b> 02'38					

superior conj	4676 Sep 11 06:12	21° m) 16'20	1°20'07		4679 Apr 05 16:32	0° <b>}{</b>	
	•	21 mg 10 20 20° mg 58'14		morning may al	•	10° <b>)</b> (46'43	46°47'11
minimum elong	4676 Sep 11 00:20	20 III/3814 0° <b>亞</b>	1 20 02	morning max el	4679 Apr 16 22:55	10 <del>χ</del> 4043	40 4/11
	4676 Sep 18 07:57 4676 Oct 12 14:38	0°M		desc. node	4679 May 05 07:08 4679 May 06 05:19	1°Υ′00'26	
arranina riaa		6°ML18'21		desc. node	•		
evening rise	4676 Oct 17 16:58				4679 May 31 23:45	0° <b>Β</b>	
	4676 Nov 05 20:38	0° <b>∡</b> 7			4679 Jun 26 16:56	0°∏	
desc. node	4676 Nov 18 10:15	15° <b>∡</b> ³33′08			4679 Jul 21 23:24	0°©	
	4676 Nov 30 02:34	ව°0 0°			4679 Aug 15 22:56	0°Ω	
	4676 Dec 24 08:49	0° <b>≈</b>		asc. node	4679 Aug 27 07:16	13° <b>Ω</b> 43'55	
	4677 Jan 17 16:37	0° <b>∀</b>			4679 Sep 09 16:08	0° m/	
	4677 Feb 11 05:32	0° <b>Υ</b>			4679 Oct 04 03:17	0∘ <b>⊽</b>	
	4677 Mar 08 07:13	0°8		morning set	4679 Oct 14 00:11	12° <b>£</b> 11'04	
asc. node	4677 Mar 11 12:07	3° <b>8</b> 45'30			4679 Oct 28 09:25	0°M₊	
	4677 Apr 03 13:52	$\Pi^{\circ}0$		max. Earth dist.	4679 Nov 17 06:43	24°M44'00	1.72184 AU
evening max el	4677 Apr 22 07:00	19° <b>Ⅱ</b> 41'06	46°24'14				
	4677 May 03 03:30	0°€		superior conj	4679 Nov 20 06:19	28° <b>™</b> 27'04	0°58'20
greatest brilliancy	4677 May 31 00:57	19° <b>©</b> 10'52	-4.8m	minimum elong	4679 Nov 20 16:22	28°M58'20	0°57'59
retrograde	4677 Jun 11 02:44	21° <b>©</b> 25'49			4679 Nov 21 12:09	0° <b>∡</b> ¹	
evening set	4677 Jun 26 02:38	17° <b>©</b> 00'25			4679 Dec 15 12:53	8°0	
desc. node	4677 Jul 01 02:50	14° <b>5</b> 01'46		desc. node	4679 Dec 16 22:03	1° <b>る</b> 43'38	
inferior conj	4677 Jul 02 10:44	13° <b>©</b> 11'58	-0°19'15	evening rise	4679 Dec 29 15:24	17° <b>る</b> 38'19	
minimum elong	4677 Jul 02 10:01	13°©13'05	0°19'02		4680 Jan 08 12:24	0° <b>≈</b>	
min. Earth dist.	4677 Jul 02 02:48	13° <b>©</b> 24'21	0.28565 AU		4680 Feb 01 11:26	0° <b>)</b> €	
morning rise	4677 Jul 08 17:57	9°526'01			4680 Feb 25 11:37	0°Υ	
direct	4677 Jul 23 19:49	5°902'40			4680 Mar 20 15:56	0°8	
greatest brilliancy	4677 Aug 02 19:08	6°950'50	-4.7m	asc. node	4680 Apr 08 00:04	22° <b>8</b> 28'40	
greatest orimaney	4677 Sep 05 11:20	0° <b>U</b>	1.7111	use. Houe	4680 Apr 14 04:49	0°II	
morning max el	4677 Sep 10 13:14	4° <b>Ω</b> 44'44	45°42'25		4680 May 09 08:38	0°©	
morning max ci	4677 Oct 05 04:14	0°M)	43 42 23		4680 Jun 04 15:17	0°Ω	
asc. node	4677 Oct 22 05:07	18° <b>m</b> ) 55'51		avaning may al	4680 Jul 01 20:46	28° <b>Ω</b> 27'01	15025112
asc. node		0∘ <b>⊽</b>		evening max el	4680 Jul 03 11:28	0° Mp	43 33 43
	4677 Oct 31 20:22			JJ.		-	
	4677 Nov 26 04:40	0°M 0°. <b>₹</b>		desc. node	4680 Jul 28 14:45	20° m 37'28	4.7
	4677 Dec 20 19:41	0° <b>∡</b>		greatest brilliancy	4680 Aug 09 04:46	26° Mp 32'15	-4.7m
	4678 Jan 14 01:10	ರ್∘ರ		retrograde	4680 Aug 19 15:25	28° Mp 30'27	
	4678 Feb 07 01:38	0° <b>≈</b>		evening set	4680 Sep 05 23:55	22° Tp 51'39	
desc. node	4678 Feb 10 19:38	4°≈41'49		inferior conj	4680 Sep 10 04:35	20° m 16'51	
	4678 Mar 02 23:44	0° <b>∺</b>		minimum elong	4680 Sep 09 21:44	20° m 27'36	
morning set	4678 Mar 13 01:04	12° <b>)</b> 37′23		min. Earth dist.	4680 Sep 10 05:31	20° Mp 15'22	0.29106 AU
	4678 Mar 26 21:21	$0$ ° $\mathbf{\gamma}$		morning rise	4680 Sep 13 19:26	18° Mp 02'12	
	4678 Apr 19 20:11	$0^{\circ}S$		direct	4680 Oct 01 18:58	11° <b>m</b> ) 58'27	
				greatest brilliancy	4680 Oct 12 09:10	13° <b>m</b> 59'49	-4.8m
superior conj	4678 Apr 22 12:41	3° <b>8</b> 21'31	-1°20'14		4680 Nov 06 04:28	0∘ <b>⊽</b>	
minimum elong	4678 Apr 22 20:47	3° <b>8</b> 46'48	1°20'05	asc. node	4680 Nov 18 16:44	11° <b>≏</b> 27'56	
max. Earth dist.	4678 Apr 26 11:08	8° <b>8</b> 16'26	1.71897 AU	morning max el	4680 Nov 20 06:44	13° <b>ഫ</b> 01'03	46°11'34
	4678 May 13 21:47	$\Pi$ $^{\circ}0$			4680 Dec 06 15:17	0° <b>M</b>	
evening rise	4678 May 31 22:18	22° <b>Ⅲ</b> 20′27			4681 Jan 02 03:39	0° <b>∡</b> ¹	
asc. node	4678 Jun 03 21:47	26° <b>Ⅱ</b> 01'16			4681 Jan 27 07:25	8°0	
	4678 Jun 07 03:07	$0$ $\circ$ $\odot$			4681 Feb 20 20:37	0° <b>≈</b>	
	4678 Jul 01 12:37	$0^{\circ}\Omega$		desc. node	4681 Mar 10 07:38	21° <b>≈</b> 33'52	
	4678 Jul 26 02:47	0° <b>m</b>			4681 Mar 17 02:58	0° <b>∀</b>	
	4678 Aug 19 23:08	0∘ <u>⊽</u>			4681 Apr 10 06:26	$0^{\circ}$ Y	
	4678 Sep 14 04:35	0°M			4681 May 04 09:36	0°8	
desc. node	4678 Sep 23 12:28	10°M56'15		morning set	4681 May 26 06:59	27° <b>8</b> 09'09	
	4678 Oct 10 00:13	0° <b>∡</b> ¹		S	4681 May 28 14:11	0°Ⅱ	
	4678 Nov 05 21:09	0°ප			4681 Jun 21 20:49	0°೯	
evening max el	4678 Nov 26 11:51	21° <b>පි</b> 26'16	46°42'16	asc. node	4681 Jul 01 09:34	11°5545'14	
	4678 Dec 05 11:03	0°≈			V. V/.JT	10 17	
greatest brilliancy	4679 Jan 05 15:48	0 <b>~</b> 21° <b>≈</b> 43'12	-4.9m	superior conj	4681 Jul 03 03:01	13° <b>©</b> 52'57	0°04'10
asc. node	4679 Jan 14 14:26	21 ≈43 12 23°≈33'53	7.7111	minimum elong	4681 Jul 03 02:06	13°950'08	0°04'07
retrograde	4679 Jan 15 15:13	23°≈35'10		behind sun begin	4681 Jul 02 03:34	13 \$3008 12°\$40'42	0 0-107
•	4679 Jan 30 10:37	23 ≈33 10 19°≈14'42		behind sun begin	4681 Jul 04 00:38	12 940 42 14°959'34	
evening set			0.26650 AU				1 72227 411
min. Earth dist.	4679 Feb 04 17:53	16°≈07'20	0.26650 AU 5°16'44	max. Earth dist.	4681 Jul 04 15:11	15° <b>©</b> 44'22 0° <b>Ω</b>	1.73237 AU
inferior conj	4679 Feb 05 04:11	15°≈51'34		ovonina rica	4681 Jul 16 05:09		
minimum elong	4679 Feb 04 18:00	16°≈07'10	5°14'01	evening rise	4681 Aug 08 17:51	28° <b>Ω</b> 56'16	
morning rise	4679 Feb 10 01:33	12°≈57'01			4681 Aug 09 14:36	0° <b>m</b>	
direct	4679 Feb 25 16:03	8°≈11'20	4.0		4681 Sep 03 01:14	0∘ <b>亚</b>	
greatest brilliancy	4679 Mar 07 05:48	9° <b>≈</b> 55'54	-4.9m		4681 Sep 27 13:55	0°M	

desc. node	4681 Oct 21 00:23	28° <b>™</b> 30'47			4684 Mar 29 20:11	0° <b>)</b> €	
	4681 Oct 22 05:48	0° <b>∡</b> ¹		desc. node	4684 Apr 06 19:32	9° <b>)</b> 32'41	
	4681 Nov 16 02:00	5°0			4684 Apr 23 18:06	$0^{\circ}$ Y	
	4681 Dec 11 04:41	0° <b>≈</b>			4684 May 18 09:46	0°B	
	4682 Jan 05 20:44	0° <b>∀</b>			4684 Jun 11 23:16	$\Pi^{\circ}0$	
	4682 Feb 02 00:14	$_{0}$ $^{\circ}$ $\gamma$			4684 Jul 06 12:09	0°ಅ	
evening max el	4682 Feb 07 01:24	5° <b>Υ</b> 12'48	47°09'53	asc. node	4684 Jul 28 21:28	27° <b>©</b> 24'38	
asc. node	4682 Feb 11 02:20	9° <b>Υ</b> 15'52	17 07 33	use. noue	4684 Jul 31 00:10	0°Ω	
ase. Houe	4682 Mar 07 05:51	0°8		morning set	4684 Aug 03 11:07	4° <b>Ω</b> 14'13	
areatast brillianas		6° <b>8</b> 44'59	4.0	morning set	•	0°M)	
greatest brilliancy	4682 Mar 19 18:30		-4.9111	T. 41 T.4	4684 Aug 24 10:29		1 72222 ATT
retrograde	4682 Mar 29 21:11	8° <b>8</b> 42'15		max. Earth dist.	4684 Sep 07 07:15	1/*11004*19	1.73333 AU
evening set	4682 Apr 16 16:20	2° <b>8</b> 36'26					
inferior conj	4682 Apr 19 19:37	0° <b>8</b> 40'19		superior conj	4684 Sep 09 00:17	19° <b>m</b> y 10'47	1°18'59
minimum elong	4682 Apr 20 02:36	0° <b>8</b> 29'26	8°25'21	minimum elong	4684 Sep 08 17:55		1°18'52
min. Earth dist.	4682 Apr 19 14:02	0° <b>8</b> 49'00	0.27618 AU		4684 Sep 17 18:45	0∘ <b>⊽</b>	
	4682 Apr 20 21:31	30° <b>ŖƳ</b>			4684 Oct 12 01:31	0° <b>M</b> ₊	
morning rise	4682 Apr 23 12:59	28° <b>Ƴ</b> 23'17		evening rise	4684 Oct 15 09:40	4° <b>ጤ</b> 07'49	
direct	4682 May 10 14:02	22° <b>Y</b> 46'02			4684 Nov 05 07:41	0° <b>∡</b> ¹	
greatest brilliancy	4682 May 20 02:37	24° <b>Y</b> 26′57	-4.8m	desc. node	4684 Nov 17 12:12	15° <b>х</b> 04'33	
· ·	4682 May 31 09:44	0° <b>႘</b>			4684 Nov 29 13:54	6°0	
desc. node	4682 Jun 02 17:00	1° <b>8</b> 29'25			4684 Dec 23 20:32	0°≈	
morning max el	4682 Jun 28 22:42	23° <b>8</b> 36'58	46°02'26		4685 Jan 17 04:51	0° <b>)</b> €	
morning max ci	4682 Jul 05 09:43	0° <b>I</b>	40 02 20		4685 Feb 10 18:32	0°Υ	
		0°ಅ				%8 0°8	
	4682 Aug 02 14:20	0°Ω			4685 Mar 07 21:34 4685 Mar 10 14:08		
	4682 Aug 29 00:59			asc. node		3° <b>8</b> 08'47	
asc. node	4682 Sep 23 19:15	0° Mp 15'44			4685 Apr 03 07:15	0°П	
	4682 Sep 23 13:57	0° <b>т</b> р		evening max el	4685 Apr 19 23:03	17° <b>Ⅱ</b> 26'57	46°26'20
	4682 Oct 18 12:05	0∘ <b>ಹ</b>			4685 May 03 07:46	$0$ $\circ$ $\odot$	
	4682 Nov 11 23:31	0°M₊		greatest brilliancy	4685 May 28 17:43	16° <b>©</b> 59'14	-4.8m
	4682 Dec 06 03:53	0° <b>∡</b> ¹		retrograde	4685 Jun 08 18:57	19° <b>©</b> 13'20	
morning set	4682 Dec 24 01:43	22° <b>尽</b> 22'05		evening set	4685 Jun 23 19:17	14° <b>5</b> 47'33	
	4682 Dec 30 03:59	ರ°0		inferior conj	4685 Jun 30 02:31	10° <b>©</b> 59'54	0°01'26
desc. node	4683 Jan 13 09:53	17° <b>る</b> 52'17		minimum elong	4685 Jun 30 02:34	10° <b>©</b> 59'49	0°01'24
	4683 Jan 23 01:38	0° <b>≈</b>		transit middle	4685 Jun 30 02:34	10° <b>©</b> 59'49	0°01'24
max. Earth dist.	4683 Feb 02 00:54	12° <b>≈</b> 32'10	1.71159 AU	transit begin	4685 Jun 29 22:32	11° <b>©</b> 06'08	
				transit end	4685 Jun 30 06:37	10° <b>©</b> 53'30	
superior conj	4683 Feb 02 17:41	13° <b>≈</b> 24'58	-0°46'35	min. Earth dist.	4685 Jun 29 18:45		0.28530 AU
minimum elong	4683 Feb 02 07:00	12°≈51'20		desc. node	4685 Jun 30 04:53	10°956'12	0.20030110
minimum clong	4683 Feb 15 22:04	0° <b>H</b>	0 4007	morning rise	4685 Jul 06 10:29	7° <b>©</b> 12'52	
		0° <b>Υ</b>		C		2°951'21	
	4683 Mar 11 18:43			direct	4685 Jul 21 11:43		4.7
evening rise	4683 Mar 15 17:18	4°Υ56'50		greatest brilliancy	4685 Jul 31 09:48	4° <b>©</b> 38'33	-4.7m
	4683 Apr 04 17:32	0°8			4685 Sep 05 11:37	$0^{\circ}\Omega$	
	4683 Apr 28 20:44	$\Pi^{\circ}0$		morning max el	4685 Sep 08 04:24	2° <b>Ω</b> 32′50	45°42'09
asc. node	4683 May 06 11:55	9°Ⅱ25′29			4685 Oct 04 20:20	0° <b>m</b> ∕	
	4683 May 23 06:30	0		asc. node	4685 Oct 21 06:59	18° <b>m</b> 20'43	
	4683 Jun 17 01:15	$0 {\circ} \Omega$			4685 Oct 31 09:52	0∘ <b>ত</b>	
	4683 Jul 12 09:11	O° Mp			4685 Nov 25 16:59	0° <b>M</b> ₊	
	4683 Aug 07 15:20	0∘ <b>ত</b>			4685 Dec 20 07:23	0° <b>∡</b> ¹	
desc. node	4683 Aug 26 02:40	20°₽01'04			4686 Jan 13 12:32	ರ°0	
	4683 Sep 04 19:50	0°M			4686 Feb 06 12:49	0° <b>≈</b>	
evening max el	4683 Sep 12 04:44	7°M13'06	45°44'05	desc. node	4686 Feb 09 21:47	4°≈13'32	
V 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4683 Oct 10 05:47	0° <b>∡</b> 7		***************************************	4686 Mar 02 10:49	0° <b>)</b> €	
greatest brilliancy	4683 Oct 21 18:38		-4.8m	morning set	4686 Mar 10 11:15	10° <b>)</b> €04'04	
		7° <b>₹</b> 04'00	-4.0111	morning set		0°Υ°	
retrograde	4683 Oct 31 01:04				4686 Mar 26 08:21		
evening set	4683 Nov 16 07:10	2° <b>≯</b> 01'06			4686 Apr 19 07:06	0°8	
	4683 Nov 19 16:48	30°RM	5050111		1606 1 20 00 50	001 455150	1001100
inferior conj	4683 Nov 20 23:55	29°M12'15		superior conj	4686 Apr 20 00:59	0° <b>8</b> 55'52	
minimum elong	4683 Nov 21 10:13	28°M56'26		minimum elong	4686 Apr 20 08:23	1° <b>8</b> 18'58	
min. Earth dist.	4683 Nov 21 22:55		0.27717 AU	max. Earth dist.	4686 Apr 24 00:49		1.71844 AU
morning rise	4683 Nov 26 12:42	25°M54'17			4686 May 13 08:39	$\Pi$ °0	
direct	4683 Dec 12 01:57	21°M10'17		evening rise	4686 May 29 12:46	20° <b>Ⅲ</b> 03′07	
asc. node	4683 Dec 17 04:33	21°M41'05		asc. node	4686 Jun 02 23:45	25° <b>Ⅱ</b> 33'49	
greatest brilliancy	4683 Dec 23 06:07	23°M30'50	-4.9m		4686 Jun 06 13:59	$0$ $\circ$ $\odot$	
-	4684 Jan 04 00:15	0° <b>∡</b> ¹			4686 Jun 30 23:36	$0^{\circ}\Omega$	
morning max el	4684 Jan 31 17:48	24° <b>₹</b> 21'16	46°53'25		4686 Jul 25 14:03	0° my	
V.	4684 Feb 06 05:05	0°る	<del></del>		4686 Aug 19 10:55	0° <b>ت</b>	
	4684 Mar 04 07:18	0° <b>≈</b>			4686 Sep 13 17:17	0° <b>m</b> .	
	100117101 07 07.10	J /V.			7000 Sep 13 17.17	O IIO	

daga mada	4696 Can 22 14:26	100 <b>m</b> 22122		morning got	4690 May 22, 22:14	24° <b>8</b> 54'35	
desc. node	4686 Sep 22 14:26 4686 Oct 09 14:34	10°M23'33 0°⊀		morning set	4689 May 23 22:14	0°II	
	4686 Nov 05 14:56	0°궁			4689 May 28 00:50 4689 Jun 21 07:22	0°e 0 π	
evening max el	4686 Nov 24 00:56	0 3 19° <b>ろ</b> 02'38	46°40'18	asc. node	4689 Jun 30 11:41	11° <b>©</b> 19'20	
evening max er	4686 Dec 05 15:52	19 <b>3</b> 02 38	40 40 16	asc. node	4009 Juli 30 11.41	11 301920	
greatest brilliancy	4687 Jan 03 05:33	0 ∞ 19°≈17'18	-4.9m	superior conj	4689 Jun 30 19:50	11° <b>5</b> 44'29	0°00'50
retrograde	4687 Jan 13 03:08	21°≈07'47	-4.9111	minimum elong	4689 Jun 30 19:39	11°943'56	0°00'49
asc. node	4687 Jan 13 16:30	21°≈07'47		behind sun begin	4689 Jun 29 20:30	10°932'36	0 00 47
evening set	4687 Jan 27 20:42	16°≈51'12		behind sun end	4689 Jul 01 18:48	12°955'16	
inferior conj	4687 Feb 02 16:45	13°≈24'56	4°56'33	max. Earth dist.	4689 Jul 02 09:31	13°940'35	1.73210 AU
minimum elong	4687 Feb 02 06:57	13°≈39'57	4°53'51	max. Earth dist.	4689 Jul 15 15:39	0°Ω	1.73210 AC
min. Earth dist.	4687 Feb 02 07:47	13°≈38'40	0.26638 AU	evening rise	4689 Aug 06 12:17	26° <b>Ω</b> 53'04	
morning rise	4687 Feb 07 17:16	10°≈25'45	0.20036 AC	evening rise	4689 Aug 09 01:09	0° <b>m</b> )	
direct	4687 Feb 23 04:11	5°≈44'37			4689 Sep 02 11:57	0∘ <b>ಹ</b> ೧.ಗ	
greatest brilliancy	4687 Mar 04 20:15	7°≈30'49	-4.9m		4689 Sep 27 00:57	o° <b>m</b> .	
greatest offinancy	4687 Apr 05 20:37	0° <b>∀</b>	4.7111	desc. node	4689 Oct 20 02:20	28°ML01'46	
morning max el	4687 Apr 14 10:47	8° <b>₩</b> 19'05	46°48'19	dese. Hode	4689 Oct 21 17:22	0° <b>₹</b>	
desc. node	4687 May 05 07:18	0° <b>Υ</b> 17'53	40 40 17		4689 Nov 15 14:20	∘ੰਤ	
dese. Hode	4687 May 05 00:46	0° <b>Υ</b>			4689 Dec 10 18:12	0°≈	
	4687 May 31 14:06	0°8			4690 Jan 05 12:22	0° <b>∺</b>	
	4687 Jun 26 05:41	0°II			4690 Feb 01 21:02	0° <b>Υ</b>	
	4687 Jul 21 11:13	0 . ಪ		evening max el	4690 Feb 04 15:39	2° <b>Υ</b> 50'48	47°10'22
	4687 Aug 15 10:11	$0^{\circ}\Omega$		asc. node	4690 Feb 10 04:23	8° <b>Υ</b> 21'41	47 10 22
asc. node	4687 Aug 26 09:20	13° <b>Ω</b> 16'41		use. Houe	4690 Mar 08 11:49	0°8	
use. Houe	4687 Sep 09 03:02	0° mp		greatest brilliancy	4690 Mar 17 08:38	4° <b>8</b> 23'20	-4.9m
	4687 Oct 03 13:59	0∘ <del>⊽</del>		retrograde	4690 Mar 27 12:03	6° <b>8</b> 21'24	1.5111
morning set	4687 Oct 11 16:56	ა <b>_</b> 10° <b>ჲ</b> 01'26		evening set	4690 Apr 14 08:50	0° <b>8</b> 11'51	
morning set	4687 Oct 27 20:04	0°M		evening set	4690 Apr 14 16:39	30°RΥ	
max. Earth dist.	4687 Nov 14 21:45	22°M28'02	1.72233 AU	inferior conj	4690 Apr 17 09:36	28° <b>Υ</b> 19'43	8°33'51
max. Darur dist.	1007 1107 11 21:15	22 11020 02	1.72233710	minimum elong	4690 Apr 17 15:55	28° <b>Y</b> ′09'54	8°33'14
superior conj	4687 Nov 17 21:17	26°M10'49	1°00'51	min. Earth dist.	4690 Apr 17 03:14	28° <b>Υ</b> 29'38	0.27583 AU
minimum elong	4687 Nov 18 07:20	26°M42'04	1°00'30	morning rise	4690 Apr 20 23:10	26° <b>Υ</b> 08'42	0.27303710
minimum ciong	4687 Nov 20 22:52	0° <b>∡</b> 7	1 00 30	direct	4690 May 08 03:45	20° <b>Υ</b> 25'57	
	4687 Dec 14 23:42	0° <b>ਰ</b>		greatest brilliancy	4690 May 17 15:14	22° <b>Υ</b> 06'29	-4.8m
desc. node	4687 Dec 16 00:08	0°る16'20		greatest orimaney	4690 Jun 01 11:54	0°8	4.0111
evening rise	4687 Dec 27 03:55	15° <b>る</b> 13'22		desc. node	4690 Jun 01 19:03	0° <b>8</b> 12'24	
e vennig rise	4688 Jan 07 23:20	0°≈		morning max el	4690 Jun 26 14:03	21° <b>8</b> 23'16	46°03'52
	4688 Jan 31 22:31	0° <b>)</b> €		morning max or	4690 Jul 05 05:41	0°Ⅱ	10 03 32
	4688 Feb 24 22:52	0° <b>Υ</b>			4690 Aug 02 05:11	0°9	
	4688 Mar 20 03:31	0°8			4690 Aug 28 13:46	$0 {\circ} {\mathfrak O}$	
asc. node	4688 Apr 07 02:00	21° <b>8</b> 58'03		asc. node	4690 Sep 22 21:07	29° <b>Ω</b> 46'24	
use. Hous	4688 Apr 13 16:59	0°Ⅱ		use. Houe	4690 Sep 23 01:41	0° mp	
	4688 May 08 21:54	0°9			4690 Oct 17 23:15	0∘ <mark>ಹ</mark> ಂ.ಗ	
	4688 Jun 04 06:58	$0^{\circ}\Omega$			4690 Nov 11 10:25	0° <b>M</b>	
evening max el	4688 Jun 29 11:27	26° <b>Ω</b> 13'35	45°36'39		4690 Dec 05 14:39	0° <b>∡</b> 7	
e vennig man er	4688 Jul 03 10:29	0° m)	.0 3037	morning set	4690 Dec 21 14:37	19° <b>∡</b> 58'45	
desc. node	4688 Jul 27 16:54	19° <b>m</b> )21'47		morning sec	4690 Dec 29 14:43	0°る	
greatest brilliancy	4688 Aug 06 19:29	24° m/22'10	-4.7m	desc. node	4691 Jan 12 11:56	17° <b>る</b> 25'00	
retrograde	4688 Aug 17 07:38	26° m 22'09			4691 Jan 22 12:23	0° <b>≈</b>	
evening set	4688 Sep 03 13:05	20° m 47'14		max. Earth dist.	4691 Jan 30 09:49	9°≈55'22	1.71174 AU
inferior conj	4688 Sep 07 20:54	18° mp 08'00	-7°53'07				
minimum elong	4688 Sep 07 13:31		7°52'15	superior conj	4691 Jan 31 03:57	10°≈52'23	-0°43'09
min. Earth dist.	4688 Sep 07 20:58	-	0.29117 AU	minimum elong	4691 Jan 30 17:48	10° <b>≈</b> 20'30	
morning rise	4688 Sep 11 13:50	15° m 50'23		· ·	4691 Feb 15 08:51	0° <b>)</b> €	
direct	4688 Sep 29 10:57	9° m 49'25			4691 Mar 11 05:33	$0^{\circ}\Upsilon$	
greatest brilliancy	4688 Oct 10 01:23	11° m 50'54	-4.8m	evening rise	4691 Mar 13 03:44	2° <b>Y</b> 24'57	
· ·	4688 Nov 06 09:02	0∘ <u>⊽</u>		Č	4691 Apr 04 04:25	$9^{\circ}$ 8	
asc. node	4688 Nov 17 18:49	10° <b>£</b> 39'17			4691 Apr 28 07:43	0°II	
morning max el	4688 Nov 17 21:58	10° <b>⊆</b> 47'00	46°10'02	asc. node	4691 May 05 13:57	8° <b>Ⅱ</b> 57'45	
<i>5</i>	4688 Dec 06 08:20	0°M			4691 May 22 17:42	0°9	
	4689 Jan 01 17:38	0° <b>∡</b> 7			4691 Jun 16 12:58	$0 {\circ} {\mathfrak O}$	
	4689 Jan 26 20:04	0°ਤ			4691 Jul 11 21:53	0° m/y	
	4689 Feb 20 08:33	0° <b>≈</b>			4691 Aug 07 06:10	0∘ <b>ಹ</b> ೧.ಗ	
desc. node	4689 Mar 09 09:36	21°≈04'11		desc. node	4691 Aug 25 04:35	0 <b>–</b> 19° <b>≙</b> 19'46	
acce. node	4689 Mar 16 14:24	0° <b>)</b> €		acco. node	4691 Sep 04 16:12	0° <b>M</b>	
	4689 Apr 09 17:30	0° <b>Υ</b>		evening max el	4691 Sep 09 20:01	5°ML00'57	45°42'41
	4689 May 03 20:25	0°8		Croning max of	4691 Oct 11 19:25	0° <b>x</b> 7	10 TZ TI
	.005ug 05 20.25	v O			.0,1.000 11 17.23	~ <i>F</i>	

greatest brilliancy retrograde	4691 Oct 19 07:58 4691 Oct 28 14:52 4691 Nov 13 09:52	3° ₹ 13'13 4° ₹ 46'52 30° RM	-4.8m	superior conj minimum elong	4694 Apr 17 13:09 4694 Apr 17 19:47 4694 Apr 18 17:56	28°Y30'02 28°Y50'44 0°8	
evening set inferior conj	4691 Nov 14 00:19 4691 Nov 18 14:09	29°M39'33 26°M54'25	-6°14'43	max. Earth dist.	4694 Apr 21 12:35 4694 May 12 19:27	3° <b>8</b> 28'13 0°Ⅲ	1.71794 AU
minimum elong	4691 Nov 19 00:28	26°M38'30	6°12'28	evening rise	4694 May 27 03:04	17° <b>Ⅱ</b> 45′18	
min. Earth dist.	4691 Nov 19 13:01	26° <b>™</b> 19'11	0.27784 AU	asc. node	4694 Jun 02 01:53	25° <b>Ⅱ</b> 06'54	
morning rise	4691 Nov 24 00:07	23°M40'00			4694 Jun 06 00:50	0° <b>©</b>	
direct	4691 Dec 09 17:18	18°M51'43			4694 Jun 30 10:35	0°O	
asc. node greatest brilliancy	4691 Dec 16 06:37 4691 Dec 20 20:36	19°M41'49 21°M11'18	4.0m		4694 Jul 25 01:18 4694 Aug 18 22:40	0 <b>ಂಹ</b> 0ಂ⊯	
greatest offinancy	4692 Jan 04 21:05	21 IIG11 18 0° <b>√</b>	-4.7111		4694 Sep 13 05:58	0° <b>™</b>	
morning max el	4692 Jan 29 08:19	22° <b>∡</b> 00'36	46°52'19	desc. node	4694 Sep 21 16:25	9°M50'59	
morning man vi	4692 Feb 06 00:58	0°る	.0 0219	dese. Hode	4694 Oct 09 05:00	0° <b>∡</b> ¹	
	4692 Mar 03 22:34	0° <b>≈</b>			4694 Nov 05 09:09	0°ठ	
	4692 Mar 29 09:32	0° <b>)</b> €		evening max el	4694 Nov 21 13:14	16° <b>පි</b> 37'05	46°38'09
desc. node	4692 Apr 05 21:26	8° <b>¥</b> 59′27			4694 Dec 05 22:56	0° <b>≈</b>	
	4692 Apr 23 06:25	$0^{\circ}\Upsilon$		greatest brilliancy	4694 Dec 31 19:02	16° <b>≈</b> 50′21	-4.9m
	4692 May 17 21:24	$9^{\circ}$ 8		retrograde	4695 Jan 10 14:59	18° <b>≈</b> 39'44	
	4692 Jun 11 10:25	$\Pi$ °0		asc. node	4695 Jan 12 18:32	18° <b>≈</b> 34'07	
_	4692 Jul 05 22:56	0°©		evening set	4695 Jan 25 06:45	14°≈26′15	
asc. node	4692 Jul 27 23:28	26° <b>©</b> 58'23		inferior conj	4695 Jan 31 05:08	10°≈57'20	4°35'28
. ,	4692 Jul 30 10:44	0° <b>Ω</b>		minimum elong	4695 Jan 30 19:47	11°≈11'38	4°32'51
morning set	4692 Aug 01 04:57 4692 Aug 23 20:57	2° <b>Ω</b> 09'24 0° <b>m</b>		min. Earth dist.	4695 Jan 30 21:35 4695 Feb 05 08:46	11°≈08'52 7°≈53'48	0.26632 AU
max. Earth dist.	4692 Sep 05 02:54	עוי 0 15° <b>ווע</b> 04'44	1.73354 AU	morning rise direct	4695 Feb 20 15:59	7 ≈3348 3°≈16'37	
max. Lattii dist.	4072 Sep 03 02.34	דד די עוו 13	1.73334 AO	greatest brilliancy	4695 Mar 02 10:47	5°≈04'58	-4.9m
superior conj	4692 Sep 06 18:35	17° <b>m</b> 06'58	1°17'44	greatest offinaley	4695 Apr 05 23:18	0° <b>\</b>	1.7111
minimum elong	4692 Sep 06 11:45	16° mp 45'57		morning max el	4695 Apr 11 23:14	5° <b>)</b> 52'15	46°49'32
Č	4692 Sep 17 05:16	0∘ <b>⊽</b>		desc. node	4695 May 04 09:26	29° <b>)</b> 35′57	
	4692 Oct 11 12:09	$0^{\circ}$ M			4695 May 04 18:09	$0^{\circ}\mathbf{\Upsilon}$	
evening rise	4692 Oct 13 02:30	1°M58'31			4695 May 31 04:24	$9^{\circ}$ 8	
	4692 Nov 04 18:32	0°⊀			4695 Jun 25 18:27	$\Pi$ °0	
desc. node	4692 Nov 16 14:18	14° <b>∡</b> ³37'02			4695 Jul 20 23:07	0ಂಣ	
	4692 Nov 29 01:01	ರಿಂತ			4695 Aug 14 21:31	0°N	
	4692 Dec 23 08:03	0° <b>≈</b>		asc. node	4695 Aug 25 11:15	12° <b>Ω</b> 48'40	
	4693 Jan 16 16:54 4693 Feb 10 07:24	0° <b>Υ</b> 0° <b>Υ</b>			4695 Sep 08 14:02 4695 Oct 03 00:48	0 <b>ಂಹ</b> 0ಂ <b>ಥು</b>	
	4693 Mar 07 11:52	0° <b>∀</b>		morning set	4695 Oct 09 09:57	0° <b>2</b> 2 7° <b>2</b> 52'25	
asc. node	4693 Mar 09 16:03	2° <b>8</b> 32'09		morning set	4695 Oct 27 06:49	0°M	
use. Hode	4693 Apr 03 00:48	0°II		max. Earth dist.	4695 Nov 12 15:27		1.72281 AU
evening max el	4693 Apr 17 14:16	15° <b>Ⅱ</b> 11'03	46°28'21				
C	4693 May 03 13:48	0ಂತಾ		superior conj	4695 Nov 15 12:33	23°M55'12	1°03'15
greatest brilliancy	4693 May 26 11:10	14° <b>5</b> 348'42	-4.8m	minimum elong	4695 Nov 15 22:30	24°M26'11	1°02'55
retrograde	4693 Jun 06 10:44	17° <b>5</b> 01'16			4695 Nov 20 09:40	0° <b>∡</b> ¹	
evening set	4693 Jun 21 12:05	12° <b>©</b> 34'54			4695 Dec 14 10:39	0°ರ	
inferior conj	4693 Jun 27 18:19	8° <b>©</b> 48'27	0°22'10	desc. node	4695 Dec 15 02:12	0° <b>る</b> 48'35	
minimum elong	4693 Jun 27 19:09	8°547'10	0°21'54	evening rise	4695 Dec 24 16:38	12° <b>る</b> 48'39	
min. Earth dist.	4693 Jun 27 11:03	8°959'52	0.28491 AU		4696 Jan 07 10:28	0° <b>≈</b> 0° <b>∀</b>	
desc. node morning rise	4693 Jun 29 06:56 4693 Jul 04 02:49	7° <b>©</b> 51'13 5° <b>©</b> 00'25			4696 Jan 31 09:49 4696 Feb 24 10:24	0° <b>Υ</b>	
direct	4693 Jul 19 03:07	0°940'37			4696 Mar 19 15:24	0°8	
greatest brilliancy	4693 Jul 29 00:49	2° <b>5</b> 27'12	-4.7m	asc. node	4696 Apr 06 04:04	21° <b>8</b> 26'56	
greatest stillaries	4693 Sep 05 10:29	0° <b>Ω</b>		ase. node	4696 Apr 13 05:29	0°II	
morning max el	4693 Sep 05 18:48	0° <b>Ω</b> 19'47	45°42'02		4696 May 08 11:34	0ංම _	
C	4693 Oct 04 11:55	0° m/y			4696 Jun 03 23:12	$0^{\circ}\Omega$	
asc. node	4693 Oct 20 09:06	17°Mp47'11		evening max el	4696 Jun 27 02:46	24° <b>Ω</b> 00′55	45°37'42
	4693 Oct 30 23:02	0∘ <b>⊽</b>			4696 Jul 03 10:58	0° <b>m</b>	
	4693 Nov 25 05:05	$0^{\circ}$ M.		desc. node	4696 Jul 26 18:50	18° <b>m</b> 02'31	
	4693 Dec 19 18:57	0° <b>∡</b>		greatest brilliancy	4696 Aug 04 09:44	22° <b>m</b> 10'38	-4.7m
	4694 Jan 12 23:49	ರಿಂತ		retrograde	4696 Aug 15 00:16	24° Mp 12'45	
, .	4694 Feb 05 23:56	0° <b>≈</b>		evening set	4696 Sep 01 02:05	18° m 41'49	704442
desc. node	4694 Feb 08 23:45	3°≈44'58		inferior conj	4696 Sep 05 13:05	15° Mp 58'01	
morning set	4694 Mar 01 21:49	0° <b>₩</b> 7° <b>₩</b> 30'15		minimum elong	4696 Sep 05 05:13	16° Mp 10'19	7°43'43 0.29124 AU
morning set	4694 Mar 07 21:13 4694 Mar 25 19:15	0°Υ		min. Earth dist. morning rise	4696 Sep 05 12:01 4696 Sep 09 08:17	15° Mp 59'41 13° Mp 37'13	U.27124 AU
	7077 WIAI 23 17.13	v I		direct	4696 Sep 27 03:08	7° My 39'21	
				G11 00 t	.070 Dep 27 03.00	, ny 57 41	

4 41 111	4606.0 + 07.16.54	00 m- 4010 4	4.0		4600 M 10 16 42	0° <b>Υ</b>	
greatest brilliancy	4696 Oct 07 16:54	9° mp 40'24	-4.8m		4699 Mar 10 16:42		
	4696 Nov 06 12:10	0° <b>亞</b>	46909120		4699 Apr 03 15:40	0°¤ 8°0	
morning max el	4696 Nov 15 14:00	8° <b>Ω</b> 34'34	46°08'39	1-	4699 Apr 27 19:07		
asc. node	4696 Nov 16 20:52 4696 Dec 06 01:15	9° <b>≙</b> 50'46 0° <b>ጤ</b>		asc. node	4699 May 04 16:01	8°∏28'45 0° <b>©</b>	
	4697 Jan 01 07:41	0°11℃			4699 May 22 05:23 4699 Jun 16 01:12	0° <b>U</b>	
		0° <b>ਨ</b> 0° <b>ਨ</b>				0° <b>m</b> )	
	4697 Jan 26 08:53	0°≈			4699 Jul 11 11:12	0∘ <del>ত</del> اللا	
desc. node	4697 Feb 19 20:42 4697 Mar 08 11:35	0 ≈ 20°≈33'39		desc. node	4699 Aug 06 21:45	0 <u>≈</u> 18° <b>≏</b> 36'45	
desc. node	4697 Mar 16 02:08	20 ≈33 39 0° <b>\</b>		desc. node	4699 Aug 24 06:35	0°M	
		0° <b>Υ</b>		avanina may al	4699 Sep 04 13:55	2°M-45'42	45°41'20
	4697 Apr 09 04:56	0°8		evening max el	4699 Sep 07 10:37	2 111643 42 0° <b>1</b> 7	43 41 20
	4697 May 03 07:38				4699 Oct 14 08:14		4.0
morning set	4697 May 21 12:54	22° <b>႘</b> 36'59 0° <b>Ⅱ</b>		greatest brilliancy	4699 Oct 16 21:47	0° ₹ 55'25	-4.8m
	4697 May 27 11:52	0°9		retrograde	4699 Oct 26 04:02	2° <b>∡</b> 728′23	
	4697 Jun 20 18:16	0.50		avanina aat	4699 Nov 06 09:25	30°RM	
aumorior comi	4607 Jun 20 12:00	0.0023110	0002125	evening set	4699 Nov 11 17:26	27°M16'37	6920124
superior conj	4697 Jun 28 12:08	9°533'18		inferior conj	4699 Nov 16 04:20	24°M35'20	
minimum elong	4697 Jun 28 12:42	9°535'02	0°02′34	minimum elong	4699 Nov 16 14:36	24°M19'27	
behind sun begin	4697 Jun 27 13:38	8°523'55		min. Earth dist.	4699 Nov 17 03:22	23°M59'44	0.27850 AU
behind sun end	4697 Jun 29 11:46	10°551148		morning rise	4699 Nov 21 11:18	21°M24'37	
asc. node	4697 Jun 29 13:36	10°951'48	1 72101 ATT	direct	4699 Dec 07 08:08	16°M31'48	
max. Earth dist.	4697 Jun 30 05:07	11° <b>©</b> 39'37	1.73181 AU	asc. node	4699 Dec 15 08:36	17°M45'37	4.0
	4697 Jul 15 02:30	0° <b>Ω</b>		greatest brilliancy	4699 Dec 18 11:27	18°M50'50	-4.9m
evening rise	4697 Aug 04 06:28	24° <b>Ω</b> 48'00			4700 Jan 05 13:11	0° <b>∡</b> ¹	46051100
	4697 Aug 08 12:04	0° <b>m</b>		morning max el	4700 Jan 26 22:02	19° <b>∡</b> 36'44	46°51'28
	4697 Sep 01 23:03	0∘ <b>⊽</b>			4700 Feb 05 20:39	0°る	
	4697 Sep 26 12:24	0°M			4700 Mar 04 13:56	0° <b>≈</b>	
desc. node	4697 Oct 19 04:27	27°M32'06		1 1	4700 Mar 29 23:03	0° <b>)</b> {	
	4697 Oct 21 05:19	0° <b>∡</b>		desc. node	4700 Apr 05 23:37	8° <b>)</b> €26'24	
	4697 Nov 15 03:02	0° <b>ප</b>			4700 Apr 23 18:56	0° <b>Υ</b>	
	4697 Dec 10 08:06	0° <b>≈</b>			4700 May 18 09:18	0° <b>B</b>	
	4698 Jan 05 04:32	0° <b>)</b> €			4700 Jun 11 21:53	0°II	
	4698 Feb 01 18:58	0°Υ	47010124	1	4700 Jul 06 10:06	0°©	
evening max el	4698 Feb 02 06:36	0°Υ29'36	47°10'34	asc. node	4700 Jul 28 01:26	26°530'44	
asc. node	4698 Feb 09 06:15	7° <b>Υ</b> 24'54		morning set	4700 Jul 30 22:26	0° <b>Ω</b> 02'15	
1 '11'	4698 Mar 10 09:08	0°8	4.0		4700 Jul 30 21:42	0° <b>N</b>	
greatest brilliancy	4698 Mar 14 22:17	1° <b>8</b> 59'29	-4.9m	P. 4. P.	4700 Aug 24 07:49	0° <b>m</b> )	1 50050 177
retrograde	4698 Mar 25 02:50	3° <b>8</b> 58'12		max. Earth dist.	4700 Sep 03 21:15	13° Mp 00'00	1.73372 AU
	4698 Apr 08 03:03	30°RΥ			4700 G 05 12 25	1.50m.01100	1017101
evening set	4698 Apr 12 00:49	27° <b>Υ</b> 45'31	0040141	superior conj	4700 Sep 05 12:35	15° Mp 01'09	
inferior conj	4698 Apr 14 23:21	25°Υ56'48	8°40'41	minimum elong	4700 Sep 05 05:21	14° <b>m</b> ) 38'52	1°16'12
minimum elong	4698 Apr 15 04:56	25° <b>Y</b> 48'07	8°40'13		4700 Sep 17 16:08	0° <b>⊽</b>	
min. Earth dist.	4698 Apr 14 15:57	26° <b>Y</b> 08'18	0.27550 AU	evening rise	4700 Oct 11 19:10	29° <b>≏</b> 47'42	
morning rise	4698 Apr 18 09:12	23°Υ51'30			4700 Oct 11 23:09	0° <b>M</b> 0°. <b>⊼</b>	
direct	4698 May 05 17:38	18° <b>Y</b> 03'44	4.0		4700 Nov 05 05:45	0° <b>∡</b> ¹	
greatest brilliancy	4698 May 15 03:13	19° <b>Υ</b> 43'08	-4.8m	desc. node	4700 Nov 16 16:18	14° <b>₹</b> '08'06	
desc. node	4698 May 31 21:06	28° <b>Y</b> 55'58			4700 Nov 29 12:33	0°る	
	4698 Jun 02 07:59	0°8	46905116		4700 Dec 23 19:58	0° <b>₩</b>	
morning max el	4698 Jun 24 05:09	19° <b>8</b> 07'13	46°05'16		4701 Jan 17 05:20		
	4698 Jul 05 01:39	0° <b>∏</b>			4701 Feb 10 20:36	0°Υ •••	
	4698 Aug 01 20:21	0.ಲ		1	4701 Mar 08 02:31	0°8	
	4698 Aug 28 02:54	0°N		asc. node	4701 Mar 09 18:11	1° <b>8</b> 55'18	
asc. node	4698 Sep 21 23:11	29° <b>Ω</b> 16′28			4701 Apr 03 18:55	0°II	4 < 0.2 0.12.2
	4698 Sep 22 13:47	0° <b>Т</b> р		evening max el	4701 Apr 16 04:34	12° <b>Ⅱ</b> 52'20	46°30'23
	4698 Oct 17 10:49	0∘ <b>ফ</b>			4701 May 04 22:25	0°95	4.0-
	4698 Nov 10 21:42	0°M		greatest brilliancy	4701 May 25 04:43	12°537'42	-4.8m
• .	4698 Dec 05 01:48	0° ⊀ <b>7</b>		retrograde	4701 Jun 05 02:21	14°548'56	
morning set	4698 Dec 19 03:57	17° <b>₹</b> 35'37		evening set	4701 Jun 20 05:06	10°9521'24	0040440
	4698 Dec 29 01:48	0°궁		inferior conj	4701 Jun 26 10:15	6°936'35	0°42'48
desc. node	4699 Jan 11 13:54	16° <b>る</b> 56'22		minimum elong	4701 Jun 26 11:50	6°934'05	0°42'18
	4699 Jan 21 23:27	0°≈		min. Earth dist.	4701 Jun 26 03:42	6°9346'51	0.28460 AU
max. Earth dist.	4699 Jan 27 18:22	7°≈16'32	1.71185 AU	desc. node	4701 Jun 29 08:54	4°9546'51	
		0.5		morning rise	4701 Jul 02 19:06	2°5547'44	
superior conj	4699 Jan 28 14:42	8°≈20'26			4701 Jul 08 23:52	30°RⅡ	
minimum elong	4699 Jan 28 05:12	7°≈50'33	0°39'15	direct	4701 Jul 17 18:13	28° <b>Ⅱ</b> 29'09	
_	4699 Feb 14 19:57	0° <b>)</b> (			4701 Jul 26 21:25	0° <b>©</b>	
evening rise	4699 Mar 10 14:25	29° <b>)</b> 52'49		greatest brilliancy	4701 Jul 27 16:35	0° <b>©</b> 15'54	-4.7m

morning max el	4701 Sep 04 09:17	28° <b>©</b> 05'52	45°41'55		4704 Apr 13 18:00	$\Pi$ $\circ$ 0	
	4701 Sep 06 08:50	$0^{\circ}\Omega$			4704 May 09 01:15	0ංම	
	4701 Oct 05 03:36	0° mp			4704 Jun 04 15:32	$0$ $^{\circ}$ $\Omega$	
asc. node	4701 Oct 20 11:10	17° <b>m</b> ) 12'52		evening max el	4704 Jun 25 19:08	21° <b>Ω</b> 51'32	45°38'55
	4701 Oct 31 12:25	0∘ <b>⊽</b>			4704 Jul 04 12:22	0° الله	
	4701 Nov 25 17:24	0°M₊		desc. node	4704 Jul 26 20:50	16° Mp 42'01	
	4701 Dec 20 06:43	0° <b>∡</b> ¹		greatest brilliancy	4704 Aug 03 00:08	20° m,00'33	-4.7m
	4702 Jan 13 11:18	0°ಕ		retrograde	4704 Aug 13 17:11	22° Mp 04'38	
	4702 Feb 06 11:16	0° <b>≈</b>		evening set	4704 Aug 30 15:23	16° Mp 37'53	
desc. node	4702 Feb 09 01:42	3°≈15'41		inferior conj	4704 Sep 04 05:32	13° <b>m</b> 49'23	
	4702 Mar 02 09:01	0° <b>∀</b>		minimum elong	4704 Sep 03 21:14	14° <b>m</b> 02'22	7°34'38
morning set	4702 Mar 06 07:11	4° <b>₩</b> 55'45		min. Earth dist.	4704 Sep 04 03:07	13° <b>m</b> 53'10	0.29130 AU
	4702 Mar 26 06:19	$0^{\circ}\mathbf{\Upsilon}$		morning rise	4704 Sep 08 03:04	11°Mp25'16	
				direct	4704 Sep 25 20:01	5° Mg 30′49	
superior conj	4702 Apr 16 01:33	26° <b>Y</b> 04'24		greatest brilliancy	4704 Oct 06 08:06	7° Mg 30′40	-4.7m
minimum elong	4702 Apr 16 07:22	26° <b>Ƴ</b> 22'38	1°23'53		4704 Nov 07 13:36	0∘ <b>ত</b>	
	4702 Apr 19 04:54	$9^{\circ}$ 8		morning max el	4704 Nov 14 06:36	6° <b>≙</b> 24'08	46°07'01
max. Earth dist.	4702 Apr 19 22:04	0° <b>8</b> 53'39	1.71738 AU	asc. node	4704 Nov 16 22:48	9° <b>≏</b> 03'14	
	4702 May 13 06:21	$\Pi$ $^{\circ}0$			4704 Dec 06 17:46	0° <b>M</b>	
evening rise	4702 May 25 17:35	15° <b>Ⅱ</b> 27'53			4705 Jan 01 21:33	0° <b>∡</b> ′	
asc. node	4702 Jun 02 03:49	24° <b>Ⅲ</b> 39′05			4705 Jan 26 21:33	ರ°0	
	4702 Jun 06 11:46	0° <b>©</b>			4705 Feb 20 08:42	0° <b>≈</b>	
	4702 Jun 30 21:40	$0^{\circ}\Omega$		desc. node	4705 Mar 08 13:43	20° <b>≈</b> 04'05	
	4702 Jul 25 12:42	0° <b>m</b> )			4705 Mar 16 13:41	0° <b>∀</b>	
	4702 Aug 19 10:38	0∘ <b>ত</b>			4705 Apr 09 16:12	$0^{\circ}$ $\Upsilon$	
	4702 Sep 13 18:55	0° <b>M</b> .			4705 May 03 18:40	0°8	
desc. node	4702 Sep 21 18:31	9° <b>M</b> .18'04		morning set	4705 May 20 03:34	20° <b>8</b> 19'52	
	4702 Oct 09 19:50	0° <b>∡</b> ¹		C	4705 May 27 22:43	0° <b>I</b> I	
	4702 Nov 06 04:04	ರ°0			4705 Jun 21 04:59	0°©	
evening max el	4702 Nov 20 01:42	14° <b>⋜</b> 11'44	46°36'06				
<i>3</i>	4702 Dec 07 08:52	0° <b>≈</b>		superior conj	4705 Jun 27 04:35	7° <b>5</b> 23'03	-0°05'56
greatest brilliancy	4702 Dec 30 07:59	14°≈22'21	-4.9m	minimum elong	4705 Jun 27 05:53	7° <b>5</b> 27'05	
retrograde	4703 Jan 09 03:15	16° <b>≈</b> 11'19		behind sun begin	4705 Jun 26 07:58	6°9519'26	
asc. node	4703 Jan 12 20:28	15° <b>≈</b> 54'22		behind sun end	4705 Jun 28 03:49	8°\$34'42	
evening set	4703 Jan 23 16:58	12°≈00'14		max. Earth dist.	4705 Jun 29 02:05	9°9643'21	1.73145 AU
inferior conj	4703 Jan 29 17:24	8°≈29'04	4°13'53	asc. node	4705 Jun 29 15:38	10°9525'07	
minimum elong	4703 Jan 29 08:35	8°≈42'33		use. Houe	4705 Jul 15 13:08	0°Ω	
min. Earth dist.	4703 Jan 29 11:08	8°≈38'39		evening rise	4705 Aug 03 00:56	22° <b>Ω</b> 44'36	
morning rise	4703 Feb 04 00:05	5°≈21'35	0.20030710	evening rise	4705 Aug 08 22:43	0° m)	
direct	4703 Feb 19 04:03	0°≈47'51			4705 Sep 02 09:54	0∘ <u>ರ</u>	
greatest brilliancy	4703 Mar 01 01:03	2°≈38'20	-4 9m		4705 Sep 26 23:36	0° <b>M</b>	
greatest offinancy	4703 Apr 07 00:42	0° <b>∀</b>	4.7111	desc. node	4705 Oct 19 06:27	27°ML02'47	
morning max el	4703 Apr 10 12:50	3° <b>∺</b> 28′00	46°50'52	desc. Hode	4705 Oct 19 00:27 4705 Oct 21 17:04	0° <b>×</b> 7	
desc. node	4703 May 04 11:23	28° <b>H</b> 53'51	40 30 32		4705 Nov 15 15:37	°ੇ ਰ°0	
desc. Hode	4703 May 05 11:14	0° <b>Υ</b>			4705 Dec 10 22:00	0° <b>≈</b>	
	4703 May 31 18:32	%8 0°8			4706 Jan 05 20:51	0° <b>₩</b>	
	4703 Jun 26 07:07	0°II		evening max el	4706 Jan 31 21:52	28° <b>¥</b> 09'32	47°10'42
	4703 Jul 21 10:55	0°e		evening max er	4706 Feb 02 17:38	0° <b>Υ</b>	47 10 42
	4703 Aug 15 08:48	0° <b>U</b>		asc. node	4706 Feb 09 08:25	6° <b>Υ</b> 28'02	
asc. node	4703 Aug 25 13:20	12° <b>Ω</b> 21'15		greatest brilliancy	4706 Mar 13 12:19	29° <b>Y</b> 36'32	-4 9m
ase. Houe	4703 Sep 09 01:00	0° m		greatest orimaney	4706 Mar 14 14:56	0°8	4.7111
	4703 Oct 03 11:37	0∘ <b>ಹ</b>		retrograde	4706 Mar 23 17:22	1° <b>8</b> 35'11	
morning set	4703 Oct 08 03:01	5° <b>≏</b> 43'32		retrograde	4706 Apr 01 10:57	30°RY	
morning set	4703 Oct 27 17:37	0° <b>M</b>		evening set	4706 Apr 10 16:33	25° <b>Υ</b> 20'08	
max. Earth dist.	4703 Nov 11 08:59		1.72328 AU	min. Earth dist.	4706 Apr 13 04:43		0.27513 AU
max. Lattii dist.	4703 NOV 11 08.39	10 11611 51	1.72326 AU	inferior conj	4706 Apr 13 13:03	23° <b>Y</b> '34'21	8°46'44
superior conj	4703 Nov 14 03:47	21°M39'26	1°05'32	minimum elong	4706 Apr 13 17:50	23° <b>Y</b> 26'55	
minimum elong	4703 Nov 14 03.47 4703 Nov 14 13:35	21 1163926 22°M09'56		morning rise	4706 Apr 16 19:18	23 1 20 33 21° <b>Y</b> 34'25	0 70 24
mmmum elong		22°11L0936	1 05 15	•	-	15° <b>Υ</b> 42'11	
	4703 Nov 20 20:32	0° <b>ਨ</b> '		direct	4706 May 04 07:28	15° <b>γ</b> ′42′11 17° <b>γ</b> ′20′12	-4.8m
daga mada	4703 Dec 14 21:38			greatest brilliancy	4706 May 13 15:09		<del>-4</del> .0III
desc. node	4703 Dec 15 04:07	0°る20'15		desc. node	4706 May 31 23:04	27° <b>Y</b> 42'28	
evening rise	4703 Dec 23 05:17	10°る23'44			4706 Jun 03 22:37	0°8	16006144
	4704 Jan 07 21:36	0° <b>≈</b>		morning max el	4706 Jun 22 19:41	16° <b>8</b> 50'28	46°06'44
	4704 Jan 31 21:08	0° <b>)</b> €			4706 Jul 05 20:42	0° <b>Ⅱ</b>	
	4704 Feb 24 21:57	0°Υ			4706 Aug 02 10:57	0ം <b>ഉ</b>	
1	4704 Mar 20 03:19	0°8		1	4706 Aug 28 15:34	0°Ω	
asc. node	4704 Apr 06 06:07	20° <b>8</b> 55'49		asc. node	4706 Sep 22 01:16	28° <b>Ω</b> 47'45	

	4706 Sep 23 01:28	0° m/y		evening max el	4709 Apr 13 18:27	10° <b>Ⅱ</b> 32'49	46°32'27
	4706 Oct 17 21:58	0∘ <b>⊽</b>		evening mun er	4709 May 05 10:00	0°9	.0 3227
	4706 Nov 11 08:37	0°M.		greatest brilliancy	4709 May 22 21:45	10°926'04	-4.8m
	4706 Dec 05 12:38	0° <b>∡</b> ¹		retrograde	4709 Jun 02 17:59	12°936'35	
morning set	4706 Dec 17 17:22	15° <b>∡</b> 13'46		evening set	4709 Jun 17 22:00	8°907'22	
C	4706 Dec 29 12:38	8°0		inferior conj	4709 Jun 24 01:56	4° <b>5</b> 24'37	1°03'32
desc. node	4707 Jan 11 15:58	16° <b>පි</b> 28'51		minimum elong	4709 Jun 24 04:18	4°920'55	1°02'50
	4707 Jan 22 10:18	0° <b>≈</b>		min. Earth dist.	4709 Jun 23 20:09	4°533'42	0.28427 AU
max. Earth dist.	4707 Jan 25 22:58	4° <b>≈</b> 26′00	1.71202 AU	desc. node	4709 Jun 28 10:56	1°543'30	
				morning rise	4709 Jun 30 11:00	0°935'22	
superior conj	4707 Jan 27 01:17	5° <b>≈</b> 48'42	-0°36'06		4709 Jul 01 13:41	30°RⅡ	
minimum elong	4707 Jan 26 16:30	5° <b>≈</b> 21'06	0°35'41	direct	4709 Jul 15 08:48	26° <b>Ⅱ</b> 17'27	
	4707 Feb 15 06:50	0° <b>∀</b>		greatest brilliancy	4709 Jul 25 08:20	28° <b>Ⅱ</b> 04'55	-4.7m
evening rise	4707 Mar 09 00:36	27° <b>)</b> 19'46			4709 Jul 30 00:34	0ංම	
	4707 Mar 11 03:38	0° <b>Υ</b>		morning max el	4709 Sep 02 00:20	25° <b>©</b> 54'08	45°42'01
	4707 Apr 04 02:39	0° <b>B</b>			4709 Sep 06 05:59	$\mathfrak{O}^{\circ}\mathfrak{O}$	
	4707 Apr 28 06:14	0°П			4709 Oct 04 18:42	0° m/y	
asc. node	4707 May 04 17:58	8° <b>Ⅱ</b> 00'15		asc. node	4709 Oct 19 13:02	16° <b>m</b> 39'11	
	4707 May 22 16:48	0° <b>⊙</b>			4709 Oct 31 01:20	0° <b>ሆ</b> 0° <b>亚</b>	
	4707 Jun 16 13:11	0° <b>N</b> 0° <b>™</b>			4709 Nov 25 05:17	0° <b>⊼</b> 7	
	4707 Jul 12 00:17 4707 Aug 07 13:08	0∘ <b>⊽</b> 0 ım			4709 Dec 19 18:04 4710 Jan 12 22:23	0°る	
desc. node	4707 Aug 07 13:08 4707 Aug 24 08:45	0 <b>=</b> 17° <b>£</b> 54'58			4710 Jan 12 22:23 4710 Feb 05 22:12	0°≈	
desc. Hode	4707 Sep 05 11:52	0°M		desc. node	4710 Feb 08 03:51	0 ∞ 2°≈48'10	
evening max el	4707 Sep 06 00:40	0°M30'37	45°40'09	dese. Hode	4710 Mar 01 19:52	0° <b>∺</b>	
greatest brilliancy	4707 Oct 15 12:04	28°M40'23	-4.8m	morning set	4710 Mar 03 17:11	2° <b>∺</b> 22'18	
greatest orimaney	4707 Oct 21 08:46	0° <b>₹</b>	1.0111	morning sec	4710 Mar 25 17:07	0°Υ	
retrograde	4707 Oct 24 17:21	0° <b>х</b> 12'47			171011111 20 17.07	• •	
	4707 Oct 28 00:38	30°RM		superior conj	4710 Apr 13 13:29	23° <b>Ƴ</b> 37'55	-1°24'53
evening set	4707 Nov 10 10:47	24°M56'25		minimum elong	4710 Apr 13 18:26	23° <b>Y</b> 53'25	1°24'49
inferior conj	4707 Nov 14 18:55	22°M19'03	-6°43'22	max. Earth dist.	4710 Apr 17 04:16	28° <b>Y</b> ′09′22	1.71693 AU
minimum elong	4707 Nov 15 05:03	22°Mo3'20	6°41'23		4710 Apr 18 15:39	$8^{\circ}$ 0	
min. Earth dist.	4707 Nov 15 18:15	21°M42'56	0.27919 AU		4710 May 12 17:05	$\Pi^{\circ}0$	
morning rise	4707 Nov 19 22:48	19°M12'13		evening rise	4710 May 23 07:25	13° <b>Ⅲ</b> 08'51	
direct	4707 Dec 05 22:52	14°M14'28		asc. node	4710 Jun 01 05:49	24° <b>Ⅱ</b> 12′02	
asc. node	4707 Dec 15 10:35	15°M56'04			4710 Jun 05 22:33	0ංම	
greatest brilliancy	4707 Dec 17 03:09	16°M33'40	-4.9m		4710 Jun 30 08:35	$0$ $^{\circ}\Omega$	
	4708 Jan 07 00:27	0° <b>∤</b> 7			4710 Jul 24 23:55	0° <b>m</b> )	
morning max el	4708 Jan 25 11:37	17° <b>∡</b> 13'42	46°50'18		4710 Aug 18 22:25	0∘ <b>⊽</b>	
	4708 Feb 06 15:24	0°る			4710 Sep 13 07:45	0°M	
	4708 Mar 04 04:50	0° <b>≈</b>		desc. node	4710 Sep 20 20:29	8°M45'18	
	4708 Mar 29 12:15	0° <b>)</b> {			4710 Oct 09 10:35	0° <b>∡</b> ¹	
desc. node	4708 Apr 05 01:34	7° <b>)</b> €53'31			4710 Nov 05 23:08	0°る	4.602.411.5
	4708 Apr 23 07:10	0°Υ 		evening max el	4710 Nov 17 15:29	11° <b>る</b> 50'59	46°34'15
	4708 May 17 20:53	0°B 0°B			4710 Dec 07 21:26	0°≈	-4.9m
	4708 Jun 11 09:01 4708 Jul 05 20:54	0°20		greatest brilliancy retrograde	4710 Dec 27 20:39 4711 Jan 06 16:14	11°≈55'58 13°≈45'08	-4.9111
asc. node	4708 Jul 27 03:31	26° <b>©</b> 04'32		asc. node	4711 Jan 11 22:34	13°≈10'59	
morning set	4708 Jul 28 15:51	27° <b>9</b> 55'57		evening set	4711 Jan 21 03:48	9°≈36'07	
morning sec	4708 Jul 30 08:18	0°Ω		inferior conj	4711 Jan 27 05:58	6°≈02'55	3°52'00
	4708 Aug 23 18:21	0° m)		minimum elong	4711 Jan 26 21:44		3°49'33
max. Earth dist.	4708 Sep 01 15:29	10° m 56'03	1.73388 AU	min. Earth dist.	4711 Jan 27 00:35	6° <b>≈</b> 11'07	0.26629 AU
	ī	•		morning rise	4711 Feb 01 15:34	2° <b>≈</b> 51'47	
superior conj	4708 Sep 03 06:50	12° <b>m</b> 57'12	1°14'54		4711 Feb 07 19:07	30°Rる	
minimum elong	4708 Sep 02 23:13	12° m 33'46	1°14'43	direct	4711 Feb 16 17:03	28° <b>පි</b> 21'25	
	4708 Sep 17 02:39	0∘ <b>亚</b>			4711 Feb 25 23:47	0° <b>≈</b>	
evening rise	4708 Oct 09 12:21	27° <b>≏</b> 39'48		greatest brilliancy	4711 Feb 26 14:58	0° <b>≈</b> 13'17	-4.9m
	4708 Oct 11 09:45	$0^{\circ}$ M			4711 Apr 07 00:23	0° <b>∀</b>	
	4708 Nov 04 16:32	0° <b>∡</b> ¹		morning max el	4711 Apr 08 03:22	1° <b>)</b> €07'18	46°51'47
desc. node	4708 Nov 15 18:17	13° <b>∡</b> ¹40'27		desc. node	4711 May 03 13:24	28° <b>¥</b> 13'14	
	4708 Nov 28 23:38	0°ප			4711 May 05 03:40	0°Υ	
	4708 Dec 23 07:29	0° <b>≈</b>			4711 May 31 08:20	0° <b>8</b>	
	4709 Jan 16 17:26	0° <b>)</b> €			4711 Jun 25 19:35	0°Ⅱ	
	4709 Feb 10 09:35	0°Υ •••			4711 Jul 20 22:35	0° <b>©</b>	
	4709 Mar 07 17:06	0°8			4711 Aug 14 19:57	0°Ω	
asc. node	4709 Mar 08 20:10	1° <b>8</b> 18'24		asc. node	4711 Aug 24 15:23	11° <b>Ω</b> 54'07	
	4709 Apr 03 13:20	$\Pi^{\circ}0$			4711 Sep 08 11:49	0° <b>m</b> )	

	4711 Oct 02 22:17	0∘ <b>ত</b>		evening set	4714 Apr 08 08:04	22° <b>Υ</b> 55'31	
morning set	4711 Oct 02 22:17 4711 Oct 05 19:59	0 <b>==</b> 3° <b>£</b> 34'54		min. Earth dist.	4714 Apr 10 17:56	22 <b>γ</b> 33 31 21° <b>γ</b> 26'06	0.27472 AU
morning set	4711 Oct 03 19:35 4711 Oct 27 04:15	ე∘ <b>™</b>		inferior conj	4714 Apr 11 02:52	21° <b>Υ</b> 12'11	8°51'53
max. Earth dist.	4711 Nov 09 01:21	15°M59'56	1.72371 AU	minimum elong	4714 Apr 11 06:49	21° <b>Υ</b> 06'02	
max. Darm dist.	1/111101 05 01.21	13 11037 30	1.72371710	morning rise	4714 Apr 14 05:45	19° <b>Υ</b> 17'07	0 313)
superior conj	4711 Nov 11 19:09	19°M24'35	1°07'42	direct	4714 May 01 21:02	13° <b>Y</b> 20′57	
minimum elong	4711 Nov 12 04:44	19°M54'27	1°07'25	greatest brilliancy	4714 May 11 03:40	14° <b>Y</b> 57'56	-4.8m
	4711 Nov 20 07:14	0° <b>∡</b> ¹		desc. node	4714 May 31 01:09	26° <b>Ƴ</b> 31'31	
desc. node	4711 Dec 14 06:13	29° <b>₹</b> 52'59			4714 Jun 04 09:26	0°8	
	4711 Dec 14 08:28	0°₹		morning max el	4714 Jun 20 09:14	14° <b>8</b> 31'14	46°08'07
evening rise	4711 Dec 20 18:11	8° <b>⋜</b> 00'09		C	4714 Jul 05 15:13	$\Pi^{\circ}0$	
_	4712 Jan 07 08:33	0° <b>≈</b>			4714 Aug 02 01:27	0°€	
	4712 Jan 31 08:14	0° <b>∀</b>			4714 Aug 28 04:20	$0^{\circ}\Omega$	
	4712 Feb 24 09:17	$0^{\circ}\mathbf{\Upsilon}$		asc. node	4714 Sep 21 03:10	28° <b>Ω</b> 17'55	
	4712 Mar 19 15:01	$8^{\circ}$ 0			4714 Sep 22 13:19	0° <b>m</b>	
asc. node	4712 Apr 05 08:02	20° <b>8</b> 24'53			4714 Oct 17 09:20	0∘ <b>ত</b>	
	4712 Apr 13 06:23	$\Pi^{\circ}0$			4714 Nov 10 19:44	$0^{\circ}$ M	
	4712 May 08 14:56	0ංම			4714 Dec 04 23:38	0° <b>∡</b>	
	4712 Jun 04 08:10	$0^{\circ}\Omega$		morning set	4714 Dec 15 06:43	12° <b>х</b> 51′06	
evening max el	4712 Jun 23 11:59	19° <b>Ω</b> 43′03	45°39'57		4714 Dec 28 23:36	8°0	
	4712 Jul 04 15:24	0° <b>m</b> )		desc. node	4715 Jan 10 18:01	16° <b>පි</b> 00'44	
desc. node	4712 Jul 25 22:59	15° <b>m</b> ) 18'28			4715 Jan 21 21:18	0° <b>≈</b>	
greatest brilliancy	4712 Jul 31 14:54	17° <b>m</b> y 50'11	-4.7m	max. Earth dist.	4715 Jan 23 02:36	1° <b>≈</b> 32'02	1.71223 AU
retrograde	4712 Aug 11 09:38	19° <b>m</b> 55'27					
evening set	4712 Aug 28 04:29	14° <b>m</b> 33'15		superior conj	4715 Jan 24 11:54	3° <b>≈</b> 16′38	-0°32'27
inferior conj	4712 Sep 01 21:44	11° <b>m</b> 39'56	-7°26'10	minimum elong	4715 Jan 24 03:53	2° <b>≈</b> 51′28	0°32'03
minimum elong	4712 Sep 01 13:03	11° <b>m</b> 53'31	7°24'53		4715 Feb 14 17:53	0° <b>ℋ</b>	
min. Earth dist.	4712 Sep 01 18:06	11° <b>m</b> 45'36	0.29129 AU	evening rise	4715 Mar 06 10:51	24° <b>) (</b> 46′23	
morning rise	4712 Sep 05 21:40	9° <b>m</b> 12'12			4715 Mar 10 14:45	$0$ ° $\mathbf{\Upsilon}$	
direct	4712 Sep 23 12:51	3° Mp 21'40			4715 Apr 03 13:50	$9^{\circ}$ 8	
greatest brilliancy	4712 Oct 03 22:45	5° <b>m</b> ) 19'47	-4.7m		4715 Apr 27 17:33	$\Pi^{\circ}0$	
	4712 Nov 07 13:49	0∘ <b>⊽</b>		asc. node	4715 May 03 20:00	7° <b>Ⅱ</b> 31'31	
morning max el	4712 Nov 11 22:22	4° <b>≙</b> 11'45	46°05'28		4715 May 22 04:24	0°€	
asc. node	4712 Nov 16 00:55	8° <b>≙</b> 16'52			4715 Jun 16 01:22	$0^{\circ}\Omega$	
	4712 Dec 06 09:57	0° <b>M</b> ₊			4715 Jul 11 13:38	0° mp	
	4713 Jan 01 11:14	0° <b>∡</b> ¹			4715 Aug 07 05:03	0° <b>⊽</b>	
	4713 Jan 26 10:05	5°0		desc. node	4715 Aug 23 10:39	17° <b>£</b> 11'05	45020151
1 1	4713 Feb 19 20:34	0° <b>≈</b>		evening max el	4715 Sep 03 13:58	28° <b>£</b> 12'49	45°38'51
desc. node	4713 Mar 07 15:39	19° <b>≈</b> 34'11			4715 Sep 05 11:12	0°M	-4.8m
	4713 Mar 16 01:08	0° <b>∀</b> 0° <b>Υ</b>		greatest brilliancy	4715 Oct 13 02:02	26°M23'39 27°M55'57	-4.8m
	4713 Apr 09 03:20	0°8		retrograde	4715 Oct 22 06:42 4715 Nov 08 03:59	27 IIL3337 22°IIL34'38	
morning sat	4713 May 03 05:35	18° <b>8</b> 03'27		evening set		22°1163438 20°11601'22	6056125
morning set	4713 May 17 18:24 4713 May 27 09:30	0° <b>Ⅱ</b>		inferior conj minimum elong	4715 Nov 12 09:22 4715 Nov 12 19:19	19°M45'57	
	4713 Jun 20 15:39	0°©		min. Earth dist.	4715 Nov 12 19:19 4715 Nov 13 09:04	19°M24'41	0.27989 AU
	4/13 Juli 20 13.37	0 3		morning rise	4715 Nov 17 10:06	16°M58'49	0.27767 AC
superior conj	4713 Jun 24 20:56	5°512'29	-0°09'17	direct	4715 Dec 03 13:22	11°M55'32	
minimum elong	4713 Jun 24 22:59	5°918'50		asc. node	4715 Dec 05 13:22 4715 Dec 14 12:41	14°M09'23	
behind sun begin	4713 Jun 24 03:38	4°919'05	0 0) 12	greatest brilliancy	4715 Dec 14 19:13	14°ML15'47	-4.8m
behind sun end	4713 Jun 25 18:21	6°9518'34		greatest stimule)	4716 Jan 07 09:16	0° <b>∡</b> 7	
max. Earth dist.	4713 Jun 26 23:35	7°5948'43	1.73115 AU	morning max el	4716 Jan 23 01:24	14° <b>×</b> 750'12	46°49'17
asc. node	4713 Jun 28 17:44	9° <b>9</b> 58'40			4716 Feb 06 10:01	0°₹	
	4713 Jul 14 23:48	$0^{\circ}\Omega$			4716 Mar 03 19:49	0° <b>≈</b>	
evening rise	4713 Jul 31 19:07	20° <b>Ω</b> 40′03			4716 Mar 29 01:36	0° <b>)</b> €	
C	4713 Aug 08 09:28	0° <b>m</b> )		desc. node	4716 Apr 04 03:32	7° <b>₩</b> 20'01	
	4713 Sep 01 20:52	0∘ <mark>ಹ</mark>			4716 Apr 22 19:36	$0^{\circ}\mathbf{\Upsilon}$	
	4713 Sep 26 10:56	0° <b>M</b> ₊			4716 May 17 08:42	0°8	
desc. node	4713 Oct 18 08:24	26°M33'00			4716 Jun 10 20:23	$\Pi^{\circ}0$	
	4713 Oct 21 04:57	0° <b>∡</b> ¹			4716 Jul 05 07:57	0°€	
	4713 Nov 15 04:21	0°₹		morning set	4716 Jul 26 09:30	25° <b>©</b> 49'29	
	4713 Dec 10 12:06	0° <b>≈</b>		asc. node	4716 Jul 26 05:31	25° <b>©</b> 37'17	
	4714 Jan 05 13:33	0° <b>∀</b>			4716 Jul 29 19:09	$0^{\circ}\Omega$	
evening max el	4714 Jan 29 12:44	25° <b>)</b> 48′10	47°10'45		4716 Aug 23 05:08	0° <b>m</b>	
	4714 Feb 02 17:21	$0^{\circ}\Upsilon$		max. Earth dist.	4716 Aug 30 11:29	8° <b>m</b> 56'37	1.73409 AU
asc. node	4714 Feb 08 10:26	5° <b>Y</b> 29'32					
greatest brilliancy	4714 Mar 11 03:04	27° <b>Ƴ</b> 14′23	-4.9m	superior conj	4716 Sep 01 01:12	10° <b>m</b> 52'47	1°13'20
retrograde	4714 Mar 21 07:28	29° <b>Y</b> 12′09		minimum elong	4716 Aug 31 17:15	10° <b>™</b> 28'17	1°13'07

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	4716 Sep 16 13:29	0∘ <b>⊽</b>		greatest brilliancy	4719 Feb 24 04:24	27°る45'20	-4.9m
evening rise	4716 Oct 07 05:38	25° <b>£</b> 31'11		,	4719 Mar 01 07:36	0° <b>≈</b>	
Č	4716 Oct 10 20:43	0°M		morning max el	4719 Apr 05 17:37	28° <b>≈</b> 44'18	46°52'46
	4716 Nov 04 03:45	0° <b>√</b>		C	4719 Apr 06 23:41	0° <b>)</b> €	
desc. node	4716 Nov 14 20:23	13° <b>√</b> 11'51		desc. node	4719 May 02 15:32	27° <b>)</b> €32'07	
dose. Hode	4716 Nov 28 11:10	0°る		dose. Hode	4719 May 04 20:16	0° <b>Υ</b>	
	4716 Dec 22 19:27	0° <b>≈</b>			4719 May 30 22:23	0°8	
	4717 Jan 16 05:58	0° <b>)</b> €			4719 Jun 25 08:18	0°II	
	4717 Feb 09 23:01	0° <b>Υ</b>			4719 Jul 20 10:31	0°©	
	4717 Mar 07 08:13	0° <b>8</b>			4719 Aug 14 07:21	$0 {\circ} \Omega$	
asc. node	4717 Mar 07 08:13	0° <b>8</b> 40'06		asc. node	4719 Aug 14 07:21 4719 Aug 23 17:19	11° <b>Ω</b> 25'44	
asc. node	4717 Apr 03 08:36	0°II		asc. node	4719 Sep 07 22:54	0° M)	
evening max el	4717 Apr 03 08:38	8° <b>Ⅱ</b> 13'07	16031135		4719 Oct 02 09:11	0∘ <del>ত</del> رااہ	
evening max er	4717 May 06 02:08	0°©	40 34 33	morning set	4719 Oct 02 03:11 4719 Oct 03 13:23	0 <b>=</b> 1° <b>£</b> 26'56	
areatast brillianas	4717 May 00 02:08 4717 May 20 14:17	8°912'50	1 0	morning set	4719 Oct 03 13:23 4719 Oct 26 15:08	0°M	
greatest brilliancy			-4.6111	may Earth dist			1 72415 AII
retrograde	4717 May 31 10:04	10°523'26		max. Earth dist.	4719 Nov 06 17:03	13 11643 39	1.72415 AU
evening set	4717 Jun 15 15:05	5°952'05	1024120		4710 N 00 11 00	170 <b>m</b> 10140	1000144
inferior conj	4717 Jun 21 17:39	2°5011'39		superior conj	4719 Nov 09 11:00	17°M10'40	1°09'44
minimum elong	4717 Jun 21 20:46	2°506'46	1°23'22	minimum elong	4719 Nov 09 20:19	17°M39'38	1°09'28
min. Earth dist.	4717 Jun 21 12:23		0.28395 AU		4719 Nov 19 18:12	0° <b>⊼</b>	
	4717 Jun 25 06:56	30°RⅡ		desc. node	4719 Dec 13 08:17	29° <b>₹</b> 24'48	
desc. node	4717 Jun 27 13:02	28° <b>Ⅱ</b> 41'28			4719 Dec 13 19:34	0° <b>궁</b>	
morning rise	4717 Jun 28 02:49	28° <b>Ⅲ</b> 22'28		evening rise	4719 Dec 18 07:18	5° <b>る</b> 36'25	
direct	4717 Jul 12 23:35	24° <b>Ⅲ</b> 04'42			4720 Jan 06 19:49	0° <b>≈</b>	
greatest brilliancy	4717 Jul 22 23:55	25° <b>Ⅲ</b> 52'57	-4.7m		4720 Jan 30 19:43	0° <b>∺</b>	
	4717 Jul 31 20:57	$0$ $\circ$ $\odot$			4720 Feb 23 21:03	$0^{\circ}$ Y	
morning max el	4717 Aug 30 16:14	23°5643'40	45°42'11		4720 Mar 19 03:11	0° <b>8</b>	
	4717 Sep 06 02:44	$0^{\circ}\Omega$		asc. node	4720 Apr 04 10:08	19° <b>8</b> 53'09	
	4717 Oct 04 09:54	0°Щ			4720 Apr 12 19:14	$\Pi^{\circ}0$	
asc. node	4717 Oct 18 15:10	16° Mp 05′34			4720 May 08 05:05	0ංම	
	4717 Oct 30 14:29	0∘ <b>⊽</b>			4720 Jun 04 01:27	$0$ $^{\circ}$ $\Omega$	
	4717 Nov 24 17:31	0°M₊		evening max el	4720 Jun 21 04:31	17° <b>Ω</b> 32'57	45°41'07
	4717 Dec 19 05:50	0° <b>√</b>			4720 Jul 04 20:30	0° <b>m</b> )	
	4718 Jan 12 09:55	0°ප		desc. node	4720 Jul 25 00:54	13° <b>m</b> 51'25	
	4718 Feb 05 09:35	0° <b>≈</b>		greatest brilliancy	4720 Jul 29 06:29	15° <b>m</b> 40'22	-4.7m
desc. node	4718 Feb 07 05:49	2°≈18'40		retrograde	4720 Aug 09 01:53	17° <b>m</b> 46'03	
morning set	4718 Mar 01 02:54	29° <b>≈</b> 46'41		evening set	4720 Aug 25 17:49	12° <b>m</b> 28'33	
	4718 Mar 01 07:08	0° <b>ℋ</b>		inferior conj	4720 Aug 30 14:07	9° <b>™</b> 30'27	-7°15'57
	4718 Mar 25 04:17	$0$ ° $\Upsilon$		minimum elong	4720 Aug 30 05:07	9° <b>™</b> 44'33	7°14'33
				min. Earth dist.	4720 Aug 30 09:35	9° <b>m</b> ,37'34	0.29123 AU
superior conj	4718 Apr 11 01:11	21° <b>Y</b> 09'30	-1°25'38	morning rise	4720 Sep 03 16:30	6° Mp 58′55	
minimum elong	4718 Apr 11 05:12	21° <b>Y</b> 22'04	1°25'37	direct	4720 Sep 21 05:38	1°My12'36	
max. Earth dist.	4718 Apr 14 12:21	25° <b>Y</b> 29'50	1.71647 AU	greatest brilliancy	4720 Oct 01 13:42	3° <b>™</b> 08'59	-4.7m
	4718 Apr 18 02:44	$8^{\circ}$			4720 Nov 07 13:05	0∘ <b>ত</b>	
	4718 May 12 04:10	$\Pi$ $^{\circ}0$		morning max el	4720 Nov 09 13:23	1° <b>≏</b> 57'19	46°04'00
evening rise	4718 May 20 21:16	10° <b>Ⅱ</b> 48'46		asc. node	4720 Nov 15 02:56	7° <b>£</b> 30'43	
asc. node	4718 May 31 07:57	23° <b>Ⅱ</b> 44'15			4720 Dec 06 01:59	0° <b>M</b> ₊	
	4718 Jun 05 09:41	$0$ $\circ$ $\odot$			4721 Jan 01 00:55	0°⊀	
	4718 Jun 29 19:51	$0^{\circ}\Omega$			4721 Jan 25 22:42	0°ರ	
	4718 Jul 24 11:29	0° <b>m</b>			4721 Feb 19 08:36	0° <b>≈</b>	
	4718 Aug 18 10:33	0० <b>⊽</b>		desc. node	4721 Mar 06 17:40	19° <b>≈</b> 03'49	
	4718 Sep 12 20:57	$0^{\circ}$ M.			4721 Mar 15 12:48	0° <b>∀</b>	
desc. node	4718 Sep 19 22:30	8°M11'39			4721 Apr 08 14:45	$0$ ° $\Upsilon$	
	4718 Oct 09 01:52	0° <b>∡</b> ¹			4721 May 02 16:47	$6^{\circ}B$	
	4718 Nov 05 19:13	0°ප		morning set	4721 May 15 08:43	15° <b>8</b> 44'34	
evening max el	4718 Nov 15 05:48	9° <b>ට</b> 30'32	46°32'04		4721 May 26 20:31	$\Pi^{\circ}0$	
	4718 Dec 08 15:08	0° <b>≈</b>			4721 Jun 20 02:32	0ಂತಾ	
greatest brilliancy	4718 Dec 25 08:47	9° <b>≈</b> 27'13	-4.9m				
retrograde	4719 Jan 04 05:02	11° <b>≈</b> 16′29		superior conj	4721 Jun 22 12:58	3°500'20	-0°12'40
asc. node	4719 Jan 11 00:35	10°≈19'14		minimum elong	4721 Jun 22 15:46	3°508'58	0°12'31
evening set	4719 Jan 18 14:38	7° <b>≈</b> 09'31		behind sun begin	4721 Jun 22 01:03	2°523'31	
inferior conj	4719 Jan 24 18:13		3°29'17	behind sun end	4721 Jun 23 06:30	3°954'24	
minimum elong	4719 Jan 24 10:39	3° <b>≈</b> 45'49	3°27'01	max. Earth dist.	4721 Jun 24 20:33	5°951'49	1.73075 AU
min. Earth dist.	4719 Jan 24 13:42	3° <b>≈</b> 41'10	0.26632 AU	asc. node	4721 Jun 27 19:40	9° <b>5</b> 31'09	-
morning rise	4719 Jan 30 06:38	0° <b>≈</b> 19'37			4721 Jul 14 10:38	0°N	
Ç	4719 Jan 30 21:09	30°Ŗる		evening rise	4721 Jul 29 13:12	18° <b>Ω</b> 34'40	
direct	4719 Feb 14 06:14	25° <b>ප</b> 52'41		5	4721 Aug 07 20:23	0° m)	
						٦.	

	4721 Sep 01 07:59	0∘ <b>⊽</b>			4724 Apr 22 07:42	$0$ ° $\Upsilon$	
	4721 Sep 25 22:24	0° <b>M</b> ₊			4724 May 16 20:14	0°8	
desc. node	4721 Oct 17 10:32	26° <b>™</b> 03′27			4724 Jun 10 07:31	$\Pi$ $^{\circ}0$	
	4721 Oct 20 16:58	0° <b>∡</b> 7			4724 Jul 04 18:49	$0$ $\circ$ $\odot$	
	4721 Nov 14 17:12	8°0		morning set	4724 Jul 24 02:50	23° <b>©</b> 42'33	
	4721 Dec 10 02:20	0° <b>≈</b>		asc. node	4724 Jul 25 07:30	25° <b>©</b> 10'30	
	4722 Jan 05 06:33	0° <b>)</b> €			4724 Jul 29 05:51	$\mathfrak{O}^{\circ}\mathfrak{O}$	
evening max el	4722 Jan 27 02:29	23° <b>)</b> €23'48	47°10'28		4724 Aug 22 15:43	0° <b>m</b> )	
	4722 Feb 02 18:16	$0$ ° $\Upsilon$		max. Earth dist.	4724 Aug 28 08:28	7° <b>m</b> 00'51	1.73425 AU
asc. node	4722 Feb 07 12:20	4° <b>Ƴ</b> 29'11					
greatest brilliancy	4722 Mar 08 17:55	24° <b>Y</b> 51'31	-4.9m	superior conj	4724 Aug 29 19:15	8° <b>m</b> 47'59	1°11'38
retrograde	4722 Mar 18 20:53	26° <b>Ƴ</b> 48′08		minimum elong	4724 Aug 29 11:00	8° m 22'34	1°11'26
evening set	4722 Apr 05 22:55	20° <b>Ƴ</b> 30'36			4724 Sep 16 00:05	0∘ <b>⊽</b>	
inferior conj	4722 Apr 08 16:31	18° <b>Ƴ</b> 49'03	8°55'57	evening rise	4724 Oct 04 22:49	23° <b>₽</b> 23'06	
minimum elong	4722 Apr 08 19:36	18° <b>Ƴ</b> 44'15	8°55'49		4724 Oct 10 07:26	$0^{\circ}$ M	
min. Earth dist.	4722 Apr 08 07:21	19° <b>Ƴ</b> 03′20	0.27438 AU		4724 Nov 03 14:41	0° <b>∡</b> ¹	
morning rise	4722 Apr 11 16:26	16° <b>Ƴ</b> 58'18		desc. node	4724 Nov 13 22:22	12° <b>∡</b> ¹43'50	
direct	4722 Apr 29 09:59	10° <b>Ƴ</b> 58′26			4724 Nov 27 22:28	0°る	
greatest brilliancy	4722 May 08 16:49	12° <b>Y</b> 35'14	-4.8m		4724 Dec 22 07:10	0° <b>≈</b>	
desc. node	4722 May 30 03:10	25° <b>Ƴ</b> 21'37			4725 Jan 15 18:17	0° <b>∀</b>	
	4722 Jun 04 17:44	0°8			4725 Feb 09 12:12	$0^{\circ}\mathbf{\Upsilon}$	
morning max el	4722 Jun 17 22:11	12° <b>8</b> 09'30	46°09'41		4725 Mar 06 23:09	0°8	
_	4722 Jul 05 09:30	$\Pi^{\circ}0$		asc. node	4725 Mar 07 00:16	0° <b>8</b> 03'11	
	4722 Aug 01 15:55	0°€			4725 Apr 03 03:58	$\Pi^{\circ}$	
	4722 Aug 27 17:03	$0^{\circ}\Omega$		evening max el	4725 Apr 08 23:35	5° <b>Ⅱ</b> 56'30	46°36'42
asc. node	4722 Sep 20 05:16	27° <b>Ω</b> 48'47			4725 May 06 23:10	0°ಲ	
	4722 Sep 22 01:08	o∘mp		greatest brilliancy	4725 May 18 06:08	5° <b>©</b> 59'52	-4.8m
	4722 Oct 16 20:40	0∘ <u>⊽</u>		retrograde	4725 May 29 02:25	8° <b>©</b> 11'07	
	4722 Nov 10 06:48	$0^{\circ}$ M		evening set	4725 Jun 13 08:16	3° <b>©</b> 37'27	
	4722 Dec 04 10:35	0°⊀		inferior conj	4725 Jun 19 09:16	29° <b>Ⅲ</b> 59'22	1°44'58
morning set	4722 Dec 12 20:31	10° <b>∡</b> ³30′06		minimum elong	4725 Jun 19 13:08	29° <b>∏</b> 53′20	1°43'48
S	4722 Dec 28 10:30	5°0		min. Earth dist.	4725 Jun 19 04:11	0° <b>©</b> 07'18	0.28366 AU
desc. node	4723 Jan 09 19:59	15° <b>る</b> 32'40			4725 Jun 19 08:52	30° <b>Ŗ</b> Ⅱ	
max. Earth dist.	4723 Jan 20 08:43	28° <b>ප්</b> 46'11	1.71245 AU	morning rise	4725 Jun 25 18:25	26° <b>Ⅱ</b> 10′38	
	4723 Jan 21 08:12	0° <b>≈</b>		desc. node	4725 Jun 26 14:57	25° <b>Ⅱ</b> 43'16	
				direct	4725 Jul 10 14:57	21° <b>Ⅲ</b> 52'41	
superior conj	4723 Jan 21 23:03	0° <b>≈</b> 46'37	-0°28'46	greatest brilliancy	4725 Jul 20 15:03	23° <b>Ⅱ</b> 41'17	-4.7m
minimum elong	4723 Jan 21 15:51	0° <b>≈</b> 24'00	0°28'26		4725 Aug 02 02:42	0ಂ <b>ತಾ</b>	
	4723 Feb 14 04:50	0° <b>)</b> €		morning max el	4725 Aug 28 08:43	21° <b>©</b> 35'26	45°42'17
evening rise	4723 Mar 03 21:34	22° <b>) 1</b> 4'47			4725 Sep 05 22:29	$0$ $^{\circ}$ $\Omega$	
	4723 Mar 10 01:45	$0^{\circ}$ Y			4725 Oct 04 00:36	0° <b>m</b> ∕	
	4723 Apr 03 00:56	0°8		asc. node	4725 Oct 17 17:13	15° <b>m</b> 32'45	
	4723 Apr 27 04:49	$\Pi$ °0			4725 Oct 30 03:14	0∘ <b>⊽</b>	
asc. node	4723 May 02 22:05	7° <b>Ⅱ</b> 03'00			4725 Nov 24 05:19	0°M	
	4723 May 21 16:00	$0$ $\circ$ $\odot$			4725 Dec 18 17:11	0° <b>∡</b> ¹	
	4723 Jun 15 13:36	$0$ ° $\Omega$			4726 Jan 11 21:01	0°₹	
	4723 Jul 11 03:05	O° <b>m</b> y			4726 Feb 04 20:34	0° <b>≈</b>	
	4723 Aug 06 21:09	0∘ <b>⊽</b>		desc. node	4726 Feb 06 07:48	1° <b>≈</b> 50′29	
desc. node	4723 Aug 22 12:41	16° <b>≏</b> 27'15		morning set	4726 Feb 26 12:49	27°≈12'53	
evening max el	4723 Sep 01 03:22	25° <b>Ω</b> 55'49	45°37'54		4726 Feb 28 18:01	0° <b>∀</b>	
	4723 Sep 05 11:26	0° <b>M</b> ₊			4726 Mar 24 15:03	$0^{\circ}$ Y	
greatest brilliancy	4723 Oct 10 15:30	24°M07'26	-4.8m				
retrograde	4723 Oct 19 20:44	25°M40'31		superior conj	4726 Apr 08 12:58	18° <b>Ƴ</b> 42'28	
evening set	4723 Nov 05 21:19	20° <b>™</b> 13'59		minimum elong	4726 Apr 08 16:01	18° <b>Ƴ</b> 52'00	1°26'14
inferior conj	4723 Nov 09 24:00	17° <b>M</b> 44'47	-7°08'59	max. Earth dist.	4726 Apr 11 22:47	22° <b>Y</b> ′58'41	1.71601 AU
minimum elong	4723 Nov 10 09:43	17° <b>M</b> 29'45			4726 Apr 17 13:26	0°8	
min. Earth dist.	4723 Nov 10 23:42	17° <b>M</b> 08'09	0.28058 AU		4726 May 11 14:50	$\Pi$ °0	
morning rise	4723 Nov 14 21:34	14° <b>M</b> 46′52		evening rise	4726 May 18 11:13	8° <b>Ⅲ</b> 30′13	
direct	4723 Dec 01 04:19	9° <b>™</b> 37'44		asc. node	4726 May 30 09:53	23° <b>∏</b> 17'13	
greatest brilliancy	4723 Dec 12 11:14	11°M59'03	-4.8m		4726 Jun 04 20:23	0°€	
asc. node	4723 Dec 13 14:40	12° <b>M</b> 27'27			4726 Jun 29 06:43	$0$ $\circ$ $\Omega$	
	4724 Jan 07 15:17	0° <b>∡</b>			4726 Jul 23 22:41	0° <b>™</b>	
morning max el	4724 Jan 20 16:17	12° <b>∡</b> ³30′26	46°48'20		4726 Aug 17 22:23	0∘ <b>⊽</b>	
	4724 Feb 06 03:54	0°る			4726 Sep 12 09:56	0° <b>M</b>	
	4724 Mar 03 10:20	0° <b>≈</b>		desc. node	4726 Sep 19 00:35	7° <b>™</b> 39'02	
	4724 Mar 28 14:35	0° <b>)</b> (			4726 Oct 08 17:01	0° ⊀ <sup>7</sup>	
desc. node	4724 Apr 03 05:41	6° <b>)</b> 48′04			4726 Nov 05 15:31	0°₹	

evening max el	4726 Nov 12 20:27	7° <b>る</b> 12'14	46°30'00		4729 May 02 03:40	0° <b>႘</b>	
<i>y</i>	4726 Dec 09 14:07	0° <b>≈</b>		morning set	4729 May 12 22:51	13° <b>8</b> 25'56	
greatest brilliancy	4726 Dec 22 21:19	7° <b>≈</b> 00'41	-4.9m	-	4729 May 26 07:14	$\Pi^{\circ}0$	
retrograde	4727 Jan 01 17:42	8° <b>≈</b> 49'24			4729 Jun 19 13:08	$0$ $\circ$ $\odot$	
asc. node	4727 Jan 10 02:32	7° <b>≈</b> 23'28					
evening set	4727 Jan 16 01:54	4° <b>≈</b> 44'28		superior conj	4729 Jun 20 05:00	0° <b>©</b> 48'57	
inferior conj	4727 Jan 22 06:34	1°≈07'26	3°06'19	minimum elong	4729 Jun 20 08:32	0° <b>©</b> 59'51	0°15'51
minimum elong	4727 Jan 21 23:44	1°≈17'51	3°04'14	behind sun begin	4729 Jun 20 05:54	0°951'43	
min. Earth dist.	4727 Jan 22 03:01 4727 Jan 24 03:00	1°≈12'51 30°Rる	0.26637 AU	behind sun end	4729 Jun 20 11:10 4729 Jun 22 15:40	1°507'59	1 72022 411
morning rise	4727 Jan 24 03:00 4727 Jan 27 21:35	30 なる 27° <b>る</b> 49'13		max. Earth dist. asc. node	4729 Jun 22 15:40 4729 Jun 26 21:42	3° <b>©</b> 50'00 9° <b>©</b> 04'43	1.73032 AU
direct	4727 Feb 11 19:30	27 <b>3</b> 4913		asc. node	4729 Jul 13 21:11	0°Ω	
greatest brilliancy	4727 Feb 21 17:56	25° <b>る</b> 18'54	-4.9m	evening rise	4729 Jul 27 07:15	16° <b>Ω</b> 30'06	
8	4727 Mar 03 04:53	0° <b>≈</b>		0.0000	4729 Aug 07 07:01	0° <b>m</b> )	
morning max el	4727 Apr 03 07:07	26° <b>≈</b> 20'36	46°53'37		4729 Aug 31 18:49	0∘ <u>⊽</u>	
-	4727 Apr 06 21:32	0° <b>)</b> €			4729 Sep 25 09:37	$0^{\circ}$ M	
desc. node	4727 May 01 17:28	26° <b>¥</b> 52′06		desc. node	4729 Oct 16 12:30	25°M34'03	
	4727 May 04 12:09	$0^{\circ}\Upsilon$			4729 Oct 20 04:47	0° <b>≯</b>	
	4727 May 30 11:53	$9^{\circ}$ 8			4729 Nov 14 05:57	0°ಕ	
	4727 Jun 24 20:32	$\Pi^{\circ}0$			4729 Dec 09 16:37	0° <b>≈</b>	
	4727 Jul 19 21:58	0°€			4730 Jan 04 23:49	0° <b>∀</b>	
	4727 Aug 13 18:20	0° <b>Ω</b>		evening max el	4730 Jan 24 15:14	20° <b>)</b> 57'11	47°10'17
asc. node	4727 Aug 22 19:25	10° <b>Ω</b> 59'09		ī	4730 Feb 02 20:25	0°Υ	
morning set	4727 Sep 07 09:36	0° Mp 29° Mp 19′27		asc. node greatest brilliancy	4730 Feb 06 14:30 4730 Mar 06 08:39	3° <b>Υ</b> 28'16 22° <b>Υ</b> 28'40	-4.9m
morning set	4727 Oct 01 06:36 4727 Oct 01 19:45	0° <b>ت</b> 1927		retrograde	4730 Mar 16 10:09	24° <b>Υ</b> 24'27	-4.9111
	4727 Oct 01 19:43 4727 Oct 26 01:42	0°M		evening set	4730 Apr 03 13:12	18° <b>Υ</b> 06'30	
max. Earth dist.	4727 Nov 04 06:36	11°M25'44	1.72460 AU	inferior conj	4730 Apr 05 15:12 4730 Apr 06 06:05	16° <b>Υ</b> 26'08	8°59'05
max. Dartii dist.	1/2/ 110/ 01 00.50	11 11023 11	1.72 100 110	minimum elong	4730 Apr 06 08:15	16° <b>Υ</b> 22'47	8°59'01
superior conj	4727 Nov 07 02:44	14° <b>M</b> 57'27	1°11'39	min. Earth dist.	4730 Apr 05 20:42	16° <b>Ƴ</b> 40'46	0.27401 AU
minimum elong	4727 Nov 07 11:43	15°M25'20	1°11'25	morning rise	4730 Apr 09 03:25	14° <b>Y</b> 39'18	
	4727 Nov 19 04:51	0°⊀		direct	4730 Apr 26 22:30	8° <b>Y</b> 35'58	
desc. node	4727 Dec 12 10:11	28° <b>₹</b> 57'11		greatest brilliancy	4730 May 06 06:08	10° <b>Y</b> 13'09	-4.8m
	4727 Dec 13 06:19	5°0		desc. node	4730 May 29 05:10	24° <b>Y</b> 14'07	
evening rise	4727 Dec 15 20:13	3° <b>⋜</b> 13'11			4730 Jun 04 23:25	$9^{\circ}$ 8	
	4728 Jan 06 06:44	0° <b>≈</b>		morning max el	4730 Jun 15 11:14	9° <b>8</b> 48'30	46°11'17
	4728 Jan 30 06:50	0° <b>)</b> €			4730 Jul 05 03:06	0° <b>I</b>	
	4728 Feb 23 08:28	0° <b>Υ</b>			4730 Aug 01 06:00	0°9	
1-	4728 Mar 18 15:01	0°8			4730 Aug 27 05:31	0° <b>Ω</b>	
asc. node	4728 Apr 03 12:09 4728 Apr 12 07:46	19° <b>8</b> 22'15 0° <b>Ⅱ</b>		asc. node	4730 Sep 19 07:18 4730 Sep 21 12:43	27° <b>Ω</b> 20'03 0° <b>m</b>	
	4728 May 07 18:59	0ಂ <b>ತಾ</b>			4730 Oct 16 07:47	0∘ <del>ত</del> بالا	
	4728 Jun 03 18:39	$0 {\circ} \Omega$			4730 Nov 09 17:42	0°M	
evening max el	4728 Jun 18 20:12	15° <b>Ω</b> 21'50	45°42'20		4730 Dec 03 21:25	0° <b>⊼</b> 7	
S	4728 Jul 05 03:10	0° mp		morning set	4730 Dec 10 10:18	8° <b>₹</b> '09'26	
desc. node	4728 Jul 24 02:56	12° <b>m</b> 22'47		•	4730 Dec 27 21:20	8°0	
greatest brilliancy	4728 Jul 26 22:30	13°M 32'13	-4.7m	desc. node	4731 Jan 08 22:03	15° <b>る</b> 04'59	
retrograde	4728 Aug 06 17:46	15° <b>m</b> 37'58		max. Earth dist.	4731 Jan 17 16:28	26° <b>る</b> 05'36	1.71273 AU
evening set	4728 Aug 23 07:11	10°Mp25'05					
inferior conj	4728 Aug 28 06:32	7° m 22'22		superior conj	4731 Jan 19 09:51	28° <b>る</b> 15'34	
minimum elong	4728 Aug 27 21:16		7°03'36	minimum elong	4731 Jan 19 03:31	27° <b>る</b> 55'42	0°24'42
min. Earth dist.	4728 Aug 28 01:24	7° Mp 30'26	0.29118 AU		4731 Jan 20 19:06	0° <b>≈</b>	
morning rise	4728 Sep 01 11:23	4° Mp 46'54			4731 Feb 13 15:47	0° <b>)</b> (41151	
direct	4728 Sep 12 01:54	30°R <b>Ω</b> 29° <b>Ω</b> 04'48		evening rise	4731 Mar 01 07:50 4731 Mar 09 12:44	19° <b>米</b> 41'51 0° <b>Ƴ</b>	
direct	4728 Sep 18 21:57 4728 Sep 25 23:01	29 <b>3 2</b> 04 48			4731 Mai 09 12:44 4731 Apr 02 12:00	0° <b>8</b>	
greatest brilliancy	4728 Sep 29 05:16	0° mp 59'59	-4.7m		4731 Apr 26 16:03	0°II	
morning max el	4728 Nov 07 03:32	29° Mp 41'38	46°02'28	asc. node	4731 May 01 24:00	6° <b>Ⅱ</b> 34'09	
	4728 Nov 07 03:32	0° <b>ي</b> 0° <b>ي</b>			4731 May 21 03:35	0°95	
asc. node	4728 Nov 14 04:54	6° <b>≏</b> 45'53			4731 Jun 15 01:50	$0^{\circ}\Omega$	
	4728 Dec 05 17:30	0°M			4731 Jul 10 16:37	0° mp	
	4728 Dec 31 14:16	0°⊀			4731 Aug 06 13:30	0∘ <b>⊽</b>	
	4729 Jan 25 11:00	5°0		desc. node	4731 Aug 21 14:50	15° <b>≏</b> 43'11	
	4729 Feb 18 20:17	0° <b>≈</b>		evening max el	4731 Aug 29 17:32	23° <b>≙</b> 40'57	45°37'04
desc. node	4729 Mar 05 19:48	18° <b>≈</b> 34'51			4731 Sep 05 12:51	0° <b>M</b>	
	4729 Mar 15 00:07	0° <b>)</b> €		greatest brilliancy	4731 Oct 08 04:23	21°M51'09	-4.8m
	4729 Apr 08 01:48	$0$ ° $\Upsilon$		retrograde	4731 Oct 17 11:22	23°M25'35	

	4721 N 02 14-27	170 <b>m</b> 52150			4724 4 06 02-24	1.00020100	1926140
evening set	4731 Nov 03 14:37	17°M53'59	7020127	minimum elong	4734 Apr 06 02:34	16° <b>Y</b> 20′08	
inferior conj	4731 Nov 07 14:40	15°M28'36		max. Earth dist.	4734 Apr 09 10:19	20°Υ30'02	1.71560 AU
minimum elong	4731 Nov 08 00:04	15°M14'03			4734 Apr 17 00:26	0° <b>8</b>	
min. Earth dist.	4731 Nov 08 13:52	14°M52'45	0.28128 AU		4734 May 11 01:50	$\Pi^{\circ 0}$	
morning rise	4731 Nov 12 09:03	12°M35'28		evening rise	4734 May 16 00:40	6° <b>Ⅱ</b> 08'58	
direct	4731 Nov 28 19:46	7°M20'31		asc. node	4734 May 29 11:53	22° <b>Ⅱ</b> 49'25	
greatest brilliancy	4731 Dec 10 02:35	9°M42'04	-4.8m		4734 Jun 04 07:26	0	
asc. node	4731 Dec 12 16:40	10° <b>M</b> ₊49'32			4734 Jun 28 17:54	$0 {\circ} \Omega$	
	4732 Jan 07 19:18	0° <b>∡</b> ¹			4734 Jul 23 10:13	0° <b>m</b>	
morning max el	4732 Jan 18 07:53	10° <b>∡</b> 12'39	46°47'06		4734 Aug 17 10:35	0∘ <b>ত</b>	
	4732 Feb 05 21:27	ರ∘ರ			4734 Sep 11 23:20	$0^{\circ}$ M.	
	4732 Mar 03 00:49	0° <b>≈</b>		desc. node	4734 Sep 18 02:32	7° <b>M</b> 04'53	
	4732 Mar 28 03:38	0° <b>∀</b>			4734 Oct 08 08:46	0° <b>∡</b> ¹	
desc. node	4732 Apr 02 07:37	6° <b>ℋ</b> 15'04			4734 Nov 05 12:54	0°ರ	
	4732 Apr 21 19:54	$0$ $^{\circ}$ $\mathbf{\Upsilon}$		evening max el	4734 Nov 10 10:51	4° <b>る</b> 52'29	46°27'51
	4732 May 16 07:50	0°8		Ü	4734 Dec 10 22:26	0° <b>≈</b>	
	4732 Jun 09 18:43	0°II		greatest brilliancy	4734 Dec 20 10:36	4°≈34'32	-4.9m
	4732 Jul 04 05:44	0°ಅ		retrograde	4734 Dec 30 06:01	6°≈21'55	
morning set	4732 Jul 21 20:06	21° <b>©</b> 35'07		asc. node	4735 Jan 09 04:38	4°≈21'44	
asc. node	4732 Jul 24 09:34	24°943'45		evening set	4735 Jan 13 13:33	2°≈18'50	
asc. node	4732 Jul 28 16:36	0°Ω		evening set	4735 Jan 17 14:41	2 ~10 30 30°Rる	
				::			2042111
T (1 11 )	4732 Aug 22 02:25	0° m/)	1 72 420 ATT	inferior conj	4735 Jan 19 19:04	28°₹40'24	
max. Earth dist.	4732 Aug 26 06:24	5°1100/43	1.73439 AU	minimum elong	4735 Jan 19 13:01	28°₹49'39	
				min. Earth dist.	4735 Jan 19 16:48	28° <b>る</b> 43'53	0.26641 AU
superior conj	4732 Aug 27 13:19	6° Mp 42′54		morning rise	4735 Jan 25 12:27	25° <b>る</b> 18'41	
minimum elong	4732 Aug 27 04:49	6° Mp 16′44	1°09'37	direct	4735 Feb 09 08:22	20° <b>る</b> 58'45	
	4732 Sep 15 10:48	0∘ <b>ত</b>		greatest brilliancy	4735 Feb 19 07:54	22° <b>る</b> 52'29	-4.9m
evening rise	4732 Oct 02 16:13	21° <b>≏</b> 15'22			4735 Mar 04 11:58	0° <b>≈</b>	
	4732 Oct 09 18:16	0° <b>M</b> ₊		morning max el	4735 Mar 31 19:40	23° <b>≈</b> 53'42	46°54'22
	4732 Nov 03 01:45	0° <b>∡</b> ¹			4735 Apr 06 18:51	0° <b>ℋ</b>	
desc. node	4732 Nov 13 00:21	12° <b>⊀</b> 15'25		desc. node	4735 Apr 30 19:29	26° <b>₩</b> 11'51	
	4732 Nov 27 09:52	ರ°ರ			4735 May 04 04:04	$0$ ° $\Upsilon$	
	4732 Dec 21 19:02	0° <b>≈</b>			4735 May 30 01:36	$8^{\circ}$	
	4733 Jan 15 06:46	0° <b>∀</b>			4735 Jun 24 09:05	$\Pi^{\circ}0$	
	4733 Feb 09 01:42	$0$ $^{\circ}$ $\mathbf{\Upsilon}$			4735 Jul 19 09:46	0°ಅ	
asc. node	4733 Mar 06 02:13	29° <b>Y</b> 24'36			4735 Aug 13 05:38	$0^{\circ}\Omega$	
	4733 Mar 06 14:34	$0^{\circ}B$		asc. node	4735 Aug 21 21:26	10° <b>£</b> 31′12	
	4733 Apr 03 00:19	0°II			4735 Sep 06 20:36	0° mp	
evening max el	4733 Apr 06 15:21	3° <b>Ⅱ</b> 40′50	46°38'49	morning set	4735 Sep 28 23:45	27° Mp 10'50	
evening max er	4733 May 08 05:09	0°9	40 30 47	morning sec	4735 Oct 01 06:38	೨७° <b>೮</b>	
greatest brilliancy	4733 May 15 21:59	3°945'45	-4.8m		4735 Oct 01 00:38 4735 Oct 25 12:35	o° <b>m</b> .	
retrograde	4733 May 15 21:59 4733 May 26 18:51	5°957'17	-4.0111	max. Earth dist.	4735 Nov 01 20:39	9°M06'26	1.72508 AU
Č	,			max. Earth dist.	4/33 NOV 01 20.39	9 11600 20	1.72308 AU
evening set	4733 Jun 11 01:32	1°921'26			4725 N 04 10 40	100 <b>m</b> 40154	1012127
	4733 Jun 13 09:37 4733 Jun 17 00:45	30°RII	2005124	superior conj	4735 Nov 04 18:40	12°M43'54	
inferior conj		27° <b>II</b> 45'39	2°05'34	minimum elong	4735 Nov 05 03:16	13°M10'35	1-13-15
minimum elong	4733 Jun 17 05:20	27° <b>I</b> I38'30	2°04'12		4735 Nov 18 15:50	0° <b>√</b> ¹	
min. Earth dist.	4733 Jun 16 19:34	27° <b>Ⅱ</b> 53'44	0.28333 AU	desc. node	4735 Dec 11 12:18	28° <b>₹</b> 29'06	
morning rise	4733 Jun 23 09:40	23° <b>Ⅱ</b> 57'41			4735 Dec 12 17:26	0°る	
desc. node	4733 Jun 25 17:01	22° <b>Ⅱ</b> 46'45		evening rise	4735 Dec 13 09:25	0° <b>る</b> 49'50	
direct	4733 Jul 08 06:33	19° <b>∏</b> 39'35			4736 Jan 05 18:00	0° <b>≈</b>	
greatest brilliancy	4733 Jul 18 05:22	21° <b>Ⅱ</b> 27'41	-4.7m		4736 Jan 29 18:18	0° <b>∀</b>	
	4733 Aug 03 00:38	0			4736 Feb 22 20:11	$0$ ° $\mathbf{\Upsilon}$	
morning max el	4733 Aug 26 01:00	19° <b>©</b> 26'05	45°42'23		4736 Mar 18 03:09	$9^{\circ}$ 8	
	4733 Sep 05 17:54	$0 {\circ} \Omega$		asc. node	4736 Apr 02 14:05	18° <b>8</b> 50'13	
	4733 Oct 03 15:19	O° <b>m</b> y			4736 Apr 11 20:38	$\Pi$ $^{\circ}0$	
asc. node	4733 Oct 16 19:05	14° <b>m</b> 58'55			4736 May 07 09:21	$0$ $\circ$ $\odot$	
	4733 Oct 29 16:07	0∘ <b>ত</b>			4736 Jun 03 12:39	$0^{\circ}\Omega$	
	4733 Nov 23 17:19	0°M		evening max el	4736 Jun 16 11:13	13° <b>Ω</b> 07'53	45°43'32
	4733 Dec 18 04:44	0° <b>∡</b> ¹			4736 Jul 05 13:03	0° <b>m</b>	
	4734 Jan 11 08:20	0°ठ		desc. node	4736 Jul 23 05:03	10° m 49'54	
	4734 Feb 04 07:44	0°≈		greatest brilliancy	4736 Jul 24 14:42	11° m/22'56	-4.7m
desc. node	4734 Feb 05 09:55	1°≈22'06		retrograde	4736 Aug 04 09:38	13° m 28'56	
morning set	4734 Feb 23 22:56	24°≈39'04		evening set	4736 Aug 20 20:38	8° m/20'19	
	4734 Feb 28 05:06	0° <b>∀</b>		inferior conj	4736 Aug 25 23:02	5° mp 13'19	-6°53'43
	4734 Mar 24 02:04	0° <b>Υ</b>		minimum elong	4736 Aug 25 13:31	5° Mp 28'16	
	1/37 Mai 27 02.04	V I		min. Earth dist.	4736 Aug 25 17:32	5° My 21'57	0.29111 AU
superior conj	4734 Apr 06 00:32	16° <b>Ƴ</b> 13'45	1026140	min. Earth dist.	4736 Aug 25 17:32 4736 Aug 30 06:25	2° m/33'55	0.47111 AU
superior conj	т <i>і эт г</i> ърі 00 00.52	10 1 13 43	1 20 40	morning HSC	7130 Aug 30 00.23	دد دد ب <sub>ا</sub> ۱	

	4736 Sep 04 00:35	30° <b>₽</b> Ω			4739 Apr 01 23:18	0° <b>႘</b>	
direct	4736 Sep 16 13:53	26° <b>Ω</b> 55'54			4739 Apr 26 03:31	0°II	
greatest brilliancy	4736 Sep 26 21:25	28° <b>Ω</b> 50'42	-4.7m	asc. node	4739 May 01 02:04	6°Ⅱ05'07	
greatest orimaney	4736 Sep 29 19:08	0° m	- <del>4</del> ./III	asc. node	4739 May 20 15:23	0°95	
morning max el	4736 Nov 04 17:37	27° <b>m</b> ) 24'55	46°01'03		4739 Jun 14 14:17	0°Ω	
morning max cr	4736 Nov 07 17:37	ე° <b>ი</b>	40 01 03		4739 Jul 10 06:23	0°m)	
asc. node	4736 Nov 07 08:54 4736 Nov 13 06:59	0 <b>==</b> 6° <b>£</b> 01'05				0∘ <del>ত</del> الأال	
asc. node				desc. node	4739 Aug 06 06:18		
	4736 Dec 05 09:07	0°M₊			4739 Aug 20 16:43	14° <b>£</b> 57'24	45026110
	4736 Dec 31 03:48	0° <b>∡</b>		evening max el	4739 Aug 27 08:42	21° <b>Ω</b> 28'14	45°36'10
	4737 Jan 24 23:33	ි. ව°0		4 41 211	4739 Sep 05 15:55	0°M,	4.0
	4737 Feb 18 08:17	0° <b>≈</b>		greatest brilliancy	4739 Oct 05 17:12	19°M34'40	-4.8m
desc. node	4737 Mar 04 21:43	18°≈04'12		retrograde	4739 Oct 15 02:16	21°M10'21	
	4737 Mar 14 11:44	0° <b>)</b> €		evening set	4739 Nov 01 07:58	15°M34'04	
	4737 Apr 07 13:09	0° <b>Υ</b>		inferior conj	4739 Nov 05 05:26	13°M12'15	
	4737 May 01 14:47	0°8		minimum elong	4739 Nov 05 14:28	12°M58'17	
morning set	4737 May 10 13:08	11° <b>8</b> 06'49		min. Earth dist.	4739 Nov 06 03:52	12° <b>M</b> 37'35	0.28196 AU
	4737 May 25 18:11	$\Pi^{\circ}0$		morning rise	4739 Nov 09 20:34	10°M23'53	
				direct	4739 Nov 26 11:41	5° <b>™</b> 03'23	
superior conj	4737 Jun 17 21:10	28° <b>Ⅲ</b> 37′09	-0°19'20	greatest brilliancy	4739 Dec 07 17:24	7° <b>M</b> 24'14	-4.8m
minimum elong	4737 Jun 18 01:25	28° <b>Ⅲ</b> 50′17	0°19'08	asc. node	4739 Dec 11 18:44	9° <b>IL</b> 14'49	
	4737 Jun 18 24:00	0ං <b>වෙ</b>			4740 Jan 07 21:53	0° <b>∡</b> ¹	
max. Earth dist.	4737 Jun 20 09:28	1° <b>5</b> 43'19	1.72993 AU	morning max el	4740 Jan 15 23:44	7° <b>∡</b> ¹55'15	46°45'48
asc. node	4737 Jun 25 23:48	8° <b>©</b> 37'42			4740 Feb 05 14:46	8°0	
	4737 Jul 13 08:03	$0^{\circ}\Omega$			4740 Mar 02 15:16	0° <b>≈</b>	
evening rise	4737 Jul 25 01:21	14° <b>Ω</b> 24'45			4740 Mar 27 16:42	0° <b>)</b> €	
	4737 Aug 06 17:58	0° <b>m</b>		desc. node	4740 Apr 01 09:37	5° <b>)</b> 42′07	
	4737 Aug 31 06:00	0° <del>ح</del>			4740 Apr 21 08:09	$0^{\circ}$ Y	
	4737 Sep 24 21:10	0° <b>M</b>			4740 May 15 19:32	0° <b>႘</b>	
desc. node	4737 Oct 15 14:28	25°M03'41			4740 Jun 09 06:00	$\Pi^{\circ}0$	
	4737 Oct 19 16:57	0° <b>∡</b> 7			4740 Jul 03 16:44	0° <b>©</b>	
	4737 Nov 13 19:05	0° <b>ට</b>		morning set	4740 Jul 19 13:38	19° <b>©</b> 28'23	
	4737 Dec 09 07:22	0° <b>≈</b>		asc. node	4740 Jul 23 11:34	24°9516'39	
	4738 Jan 04 17:49	0° <b>)</b> €		use. Iroue	4740 Jul 28 03:24	0°Ω	
evening max el	4738 Jan 22 03:59	18° <b>)</b> 29'41	47°10'01		4740 Aug 21 13:08	0° m)	
evening max er			47 1001		4740 Mug 21 13.00	עוי ט	
	4738 Feb 03 00:33	$0_{\circ}(\Lambda)$		may Farth diet	4740 Aug 24 05:16	3° m 17'23	1 73///9 ΔΙΙ
asc node	4738 Feb 03 00:33	0°Υ 2°Υ24'26		max. Earth dist.	4740 Aug 24 05:16	3°Mp17′23	1.73449 AU
asc. node	4738 Feb 05 16:29	2° <b>Y</b> 24'26	4 9m		•	•	
greatest brilliancy	4738 Feb 05 16:29 4738 Mar 03 23:02	2°Υ24'26 20°Υ04'18	-4.9m	superior conj	4740 Aug 25 07:38	4° m/38'33	1°08'00
greatest brilliancy retrograde	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47	2° <b>Υ</b> 24'26 20° <b>Υ</b> 04'18 21° <b>Υ</b> 59'57	-4.9m		4740 Aug 25 07:38 4740 Aug 24 22:56	4° mp 38'33 4° mp 11'46	
greatest brilliancy retrograde evening set	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58	2° <b>Y</b> 24'26 20° <b>Y</b> 04'18 21° <b>Y</b> 59'57 15° <b>Y</b> 42'02		superior conj minimum elong	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32	4°₥38'33 4°₥11'46 0° <u>०</u>	1°08'00
greatest brilliancy retrograde evening set inferior conj	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16	9°01'17	superior conj	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54	4°₥38'33 4°₥11'46 0°ഫ 19°ഫ08'22	1°08'00
greatest brilliancy retrograde evening set inferior conj minimum elong	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22	9°01'17 9°01'15	superior conj minimum elong	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09	4° <b>m</b> 38'33 4° <b>m</b> 11'46 0° <b>Ω</b> 19° <b>Ω</b> 08'22 0° <b>ጤ</b>	1°08'00
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26	9°01'17	superior conj minimum elong evening rise	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54	4° ነ 38'33 4° ነ 11'46 0° <u>ፍ</u> 19° <u>ፍ</u> 08'22 0° ነ ሌ	1°08'00
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54 4738 Apr 06 14:52	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26 12°Y18'47	9°01'17 9°01'15	superior conj minimum elong	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54 4740 Nov 12 02:28	4° ነ 38'33 4° ነ 11'46 0° <u>ፍ</u> 19° <u>ፍ</u> 08'22 0° ነ 0° \$7 11° \$7'47'13	1°08'00
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54 4738 Apr 06 14:52 4738 Apr 24 11:06	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26 12°Y18'47 6°Y12'26	9°01'17 9°01'15 0.27363 AU	superior conj minimum elong evening rise	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54 4740 Nov 12 02:28 4740 Nov 26 21:23	4° ነ 38'33 4° ነ 11'46 0° Ω 19° Ω08'22 0° ነ \ 0° \$\frac{1}{8} \frac{1}{8} \fra	1°08'00
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54 4738 Apr 06 14:52 4738 Apr 24 11:06 4738 May 03 19:15	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26 12°Y18'47 6°Y12'26 7°Y50'10	9°01'17 9°01'15 0.27363 AU	superior conj minimum elong evening rise	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54 4740 Nov 12 02:28 4740 Nov 26 21:23 4740 Dec 21 07:00	4° m/38'33 4° m/11'46 0° Ω 19° Ω08'22 0° m. 0° \$\tilde{x}'\d47'13 0° \$\tilde{x}'\d90' \tilde{x}'\d90'	1°08'00
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54 4738 Apr 06 14:52 4738 Apr 24 11:06 4738 May 03 19:15 4738 May 28 07:14	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26 12°Y18'47 6°Y12'26 7°Y50'10 23°Y07'57	9°01'17 9°01'15 0.27363 AU	superior conj minimum elong evening rise	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54 4740 Nov 12 02:28 4740 Nov 26 21:23 4740 Dec 21 07:00 4741 Jan 14 19:21	4° m 38'33 4° m 11'46 0° Ω 19° Ω 08'22 0° m 0° 🗷 11° 🗷 47'13 0° ጜ 0° ≈ 0° 沃	1°08'00
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54 4738 Apr 06 14:52 4738 Apr 24 11:06 4738 May 03 19:15 4738 May 28 07:14 4738 Jun 05 03:25	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26 12°Y18'47 6°Y12'26 7°Y50'10 23°Y07'57 0°8	9°01'17 9°01'15 0.27363 AU -4.8m	superior conj minimum elong evening rise desc. node	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54 4740 Nov 12 02:28 4740 Nov 26 21:23 4740 Dec 21 07:00 4741 Jan 14 19:21 4741 Feb 08 15:19	4° m 38'33 4° m 11'46 0° Ω 19° Ω 08'22 0° m 0° 🖈 11° 🗗 47'13 0° ጜ 0° ※ 0° 升 0° Υ	1°08'00
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54 4738 Apr 06 14:52 4738 Apr 24 11:06 4738 May 03 19:15 4738 May 28 07:14 4738 Jun 05 03:25 4738 Jun 13 01:03	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26 12°Y18'47 6°Y12'26 7°Y50'10 23°Y07'57 0°8 7°828'40	9°01'17 9°01'15 0.27363 AU -4.8m	superior conj minimum elong evening rise	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54 4740 Nov 12 02:28 4740 Nov 26 21:23 4740 Dec 21 07:00 4741 Jan 14 19:21 4741 Feb 08 15:19 4741 Mar 05 04:10	4° \$\mathbf{m} 38'33 4° \$\mathbf{m} 11'46 0° \$\Lambda\$ 19° \$\Lambda 08'22 0° \$\mathbf{m}\$ 11° \$\nr\$47'13 0° \$\lambda\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 28° \$\mathbf{m} 45'33	1°08'00
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54 4738 Apr 06 14:52 4738 Apr 24 11:06 4738 May 03 19:15 4738 May 28 07:14 4738 Jun 05 03:25 4738 Jun 13 01:03 4738 Jul 04 20:31	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26 12°Y18'47 6°Y12'26 7°Y50'10 23°Y07'57 0°B 7°B28'40 0°II	9°01'17 9°01'15 0.27363 AU -4.8m	superior conj minimum elong evening rise desc. node	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54 4740 Nov 12 02:28 4740 Nov 26 21:23 4740 Dec 21 07:00 4741 Jan 14 19:21 4741 Feb 08 15:19 4741 Mar 05 04:10 4741 Mar 06 06:14	4° \$\mathbf{m} 38'33 4° \$\mathbf{m} 11'46 0° \$\oldsymbol{\Oldsymbol{\Oldsymbol{m}}}\$ 19° \$\oldsymbol{\Oldsymbol{\Oldsymbol{\Oldsymbol{m}}}\$ 0° \$\notin{\Display}\$ 11° \$\notin{\Pi}\$ 47'13 0° \$\oldsymbol{\Oldsymbol{\Oldsymbol{m}}}\$ 0° \$\oldsymbol{\Oldsymbol{\Oldsymbol{m}}}\$ 0° \$\oldsymbol{\Oldsymbol{\Oldsymbol{m}}}\$ 0° \$\oldsymbol{\Oldsymbol{M}}}\$ 0° \$\oldsymbol{\Oldsymbol{\Oldsymbol{m}}}\$ 0° \$\oldsymbol{\Oldsymbol{M}}\$	1°08'00
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54 4738 Apr 06 14:52 4738 Apr 24 11:06 4738 May 03 19:15 4738 May 28 07:14 4738 Jun 05 03:25 4738 Jun 13 01:03 4738 Jul 04 20:31 4738 Jul 31 20:08	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26 12°Y18'47 6°Y12'26 7°Y50'10 23°Y07'57 0°B 7°B28'40 0°I	9°01'17 9°01'15 0.27363 AU -4.8m	superior conj minimum elong evening rise desc. node	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54 4740 Nov 12 02:28 4740 Nov 26 21:23 4740 Dec 21 07:00 4741 Jan 14 19:21 4741 Feb 08 15:19 4741 Mar 05 04:10 4741 Mar 06 06:14 4741 Apr 02 21:25	4° \$\mathbf{m} 38'33 4° \$\mathbf{m} 11'46 0° \$\oldsymbol{\Omega}\$ 19° \$\oldsymbol{\Omega} 08'22 0° \$\mathbf{m}\$ 11° \$\nalpha 47'13 0° \$\oldsymbol{\Omega}\$ 0° \$\times\$	1°08'00 1°07'44
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54 4738 Apr 06 14:52 4738 Apr 24 11:06 4738 May 03 19:15 4738 May 28 07:14 4738 Jun 05 03:25 4738 Jun 13 01:03 4738 Jul 04 20:31 4738 Jul 31 20:08 4738 Aug 26 18:07	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26 12°Y18'47 6°Y12'26 7°Y50'10 23°Y07'57 0°8 7°828'40 0°II 0°\$000000000000000000000000000000	9°01'17 9°01'15 0.27363 AU -4.8m	superior conj minimum elong evening rise desc. node	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54 4740 Nov 12 02:28 4740 Nov 26 21:23 4740 Dec 21 07:00 4741 Jan 14 19:21 4741 Feb 08 15:19 4741 Mar 05 04:10 4741 Mar 06 06:14 4741 Apr 02 21:25 4741 Apr 04 07:15	4° \$\mathbf{m} 38'33 4° \$\mathbf{m} 11'46 0° \$\oldsymbol{\Oldsymbol{\Oldsymbol{m}}}\$ 19° \$\oldsymbol{\Oldsymbol{\Oldsymbol{m}}}\$ 0° \$\mathbf{m}\$ 1° \$\mathbf{m} 25'18	1°08'00 1°07'44
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54 4738 Apr 06 14:52 4738 Apr 24 11:06 4738 May 03 19:15 4738 May 28 07:14 4738 Jun 05 03:25 4738 Jun 13 01:03 4738 Jul 04 20:31 4738 Jul 31 20:08	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26 12°Y18'47 6°Y12'26 7°Y50'10 23°Y07'57 0°8 7°828'40 0°II 0°S 0°A 26°R50'11	9°01'17 9°01'15 0.27363 AU -4.8m	superior conj minimum elong evening rise desc. node asc. node	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54 4740 Nov 12 02:28 4740 Nov 26 21:23 4740 Dec 21 07:00 4741 Jan 14 19:21 4741 Feb 08 15:19 4741 Mar 05 04:10 4741 Apr 02 21:25 4741 Apr 04 07:15 4741 May 10 01:31	4° M 38'33 4° M 11'46 0° Ω 19° Ω 08'22 0° M 0° ¾ 11° ¾ 47'13 0° ☒ 0° ※ 0° ዧ 28° ᡩ 45'33 0° ੴ 0° Ⅲ 1° Ⅲ 25'18 0° ☺	1°08'00 1°07'44 46°40'45
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54 4738 Apr 06 14:52 4738 Apr 24 11:06 4738 May 03 19:15 4738 May 28 07:14 4738 Jun 05 03:25 4738 Jun 13 01:03 4738 Jul 04 20:31 4738 Jul 31 20:08 4738 Aug 26 18:07	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26 12°Y18'47 6°Y12'26 7°Y50'10 23°Y07'57 0°8 7°828'40 0°II 0°\$6 0°\$1 26°\$250'11 0°\$6	9°01'17 9°01'15 0.27363 AU -4.8m	superior conj minimum elong evening rise desc. node	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54 4740 Nov 12 02:28 4740 Nov 26 21:23 4740 Dec 21 07:00 4741 Jan 14 19:21 4741 Feb 08 15:19 4741 Mar 05 04:10 4741 Mar 06 06:14 4741 Apr 02 21:25 4741 Apr 04 07:15	4° M 38'33 4° M 11'46 0° Ω 19° Ω 08'22 0° M 0° ¾ 11° ¾ 47'13 0° ♂ 0° ¥ 0° Y 28° Y 45'33 0° ੴ 0° II 1° II 25'18 0° © 1° © 31'56	1°08'00 1°07'44
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54 4738 Apr 06 14:52 4738 Apr 24 11:06 4738 May 03 19:15 4738 May 28 07:14 4738 Jun 05 03:25 4738 Jun 13 01:03 4738 Jul 04 20:31 4738 Jul 04 20:31 4738 Aug 26 18:07 4738 Sep 18 09:12	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26 12°Y18'47 6°Y12'26 7°Y50'10 23°Y07'57 0°8 7°828'40 0°II 0°S 0°A 26°R50'11	9°01'17 9°01'15 0.27363 AU -4.8m	superior conj minimum elong evening rise desc. node asc. node	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54 4740 Nov 12 02:28 4740 Nov 26 21:23 4740 Dec 21 07:00 4741 Jan 14 19:21 4741 Feb 08 15:19 4741 Mar 05 04:10 4741 Apr 02 21:25 4741 Apr 04 07:15 4741 May 10 01:31	4° M 38'33 4° M 11'46 0° Ω 19° Ω 08'22 0° M 0° ¾ 11° ¾ 47'13 0° ☒ 0° ※ 0° ዧ 28° ᡩ 45'33 0° ੴ 0° Ⅲ 1° Ⅲ 25'18 0° ☺	1°08'00 1°07'44 46°40'45
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54 4738 Apr 06 14:52 4738 Apr 24 11:06 4738 May 03 19:15 4738 May 28 07:14 4738 Jun 05 03:25 4738 Jun 13 01:03 4738 Jul 04 20:31 4738 Jul 04 20:31 4738 Aug 26 18:07 4738 Sep 18 09:12 4738 Sep 21 00:32	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26 12°Y18'47 6°Y12'26 7°Y50'10 23°Y07'57 0°8 7°828'40 0°II 0°\$6 0°\$1 26°\$250'11 0°\$6	9°01'17 9°01'15 0.27363 AU -4.8m	superior conj minimum elong evening rise desc. node asc. node evening max el greatest brilliancy	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54 4740 Nov 12 02:28 4740 Nov 26 21:23 4740 Dec 21 07:00 4741 Jan 14 19:21 4741 Feb 08 15:19 4741 Mar 05 04:10 4741 Mar 06 06:14 4741 Apr 02 21:25 4741 Apr 04 07:15 4741 May 10 01:31 4741 May 13 14:23	4° M 38'33 4° M 11'46 0° Ω 19° Ω 08'22 0° M 0° ¾ 11° ¾ 47'13 0° ♂ 0° ¥ 0° Y 28° Y 45'33 0° ੴ 0° II 1° II 25'18 0° © 1° © 31'56	1°08'00 1°07'44 46°40'45
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54 4738 Apr 06 14:52 4738 Apr 24 11:06 4738 May 03 19:15 4738 May 28 07:14 4738 Jun 05 03:25 4738 Jun 13 01:03 4738 Jul 04 20:31 4738 Jul 31 20:08 4738 Aug 26 18:07 4738 Sep 18 09:12 4738 Sep 21 00:32 4738 Oct 15 19:10	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26 12°Y18'47 6°Y12'26 7°Y50'10 23°Y07'57 0°8 7°828'40 0°II 0°II 0°II 0°II 0°II 0°II 0°II 0°	9°01'17 9°01'15 0.27363 AU -4.8m	superior conj minimum elong evening rise desc. node asc. node evening max el greatest brilliancy	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54 4740 Nov 12 02:28 4740 Nov 26 21:23 4740 Dec 21 07:00 4741 Jan 14 19:21 4741 Feb 08 15:19 4741 Mar 05 04:10 4741 Apr 02 21:25 4741 Apr 04 07:15 4741 May 10 01:31 4741 May 13 14:23 4741 May 24 11:06	4° \$\mathbf{m}\ 38'33 4° \$\mathbf{m}\ 11'46 0° \omega \tag{19'} \omega 08'22 0° \$\mathbf{m}\tag{10'} \omega 747'13 0° \$\omega \tag{0}\tag{10'} \omega \tag{0}\tag{10'} \omega \tag{0}\tag{10'} \omega \tag{0}\tag{10'} \omega \tag{0}\tag{10'} \omega \tag{10'} \ome	1°08'00 1°07'44 46°40'45 -4.8m
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54 4738 Apr 06 14:52 4738 Apr 24 11:06 4738 May 03 19:15 4738 May 28 07:14 4738 Jun 05 03:25 4738 Jun 13 01:03 4738 Jul 04 20:31 4738 Jul 04 20:31 4738 Jul 31 20:08 4738 Aug 26 18:07 4738 Sep 18 09:12 4738 Sep 21 00:32 4738 Oct 15 19:10 4738 Nov 09 04:51	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26 12°Y18'47 6°Y12'26 7°Y50'10 23°Y07'57 0°B 7°B28'40 0°II 0°S 0°A 26°A50'11 0°M 0°S 0°A	9°01'17 9°01'15 0.27363 AU -4.8m	superior conj minimum elong evening rise desc. node asc. node evening max el greatest brilliancy retrograde	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54 4740 Nov 12 02:28 4740 Nov 26 21:23 4740 Dec 21 07:00 4741 Jan 14 19:21 4741 Feb 08 15:19 4741 Mar 05 04:10 4741 Mar 06 06:14 4741 Apr 04 07:15 4741 May 10 01:31 4741 May 13 14:23 4741 May 24 11:06 4741 Jun 07 02:07	4° \$\mathbf{m}_38'33 4° \$\mathbf{m}_11'46 0° \$\oldsymbol{\Omega}_19° \$\oldsymbol{\Omega}_08'22 0° \$\mathbf{m}_10° \$\oldsymbol{\Omega}_47'13 0° \$\oldsymbol{\Omega}_00° \$\oldsymbol{\Omega}_10° \$\olds	1°08'00 1°07'44 46°40'45 -4.8m
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54 4738 Apr 06 14:52 4738 Apr 24 11:06 4738 May 03 19:15 4738 May 28 07:14 4738 Jun 05 03:25 4738 Jun 13 01:03 4738 Jul 04 20:31 4738 Jul 04 20:31 4738 Jul 31 20:08 4738 Aug 26 18:07 4738 Sep 18 09:12 4738 Sep 21 00:32 4738 Oct 15 19:10 4738 Nov 09 04:51 4738 Dec 03 08:27	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26 12°Y18'47 6°Y12'26 7°Y50'10 23°Y07'57 0°8 7°828'40 0°II 0°II 0°II 0°II 0°II 0°II 0°II 0°	9°01'17 9°01'15 0.27363 AU -4.8m	superior conj minimum elong evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54 4740 Nov 12 02:28 4740 Nov 26 21:23 4740 Dec 21 07:00 4741 Jan 14 19:21 4741 Feb 08 15:19 4741 Mar 05 04:10 4741 Mar 06 06:14 4741 Apr 02 21:25 4741 Apr 04 07:15 4741 May 10 01:31 4741 May 13 14:23 4741 May 24 11:06 4741 Jun 07 02:07 4741 Jun 08 18:53	4° \$\mathbf{m} 38'33 4° \$\mathbf{m} 11'46 0° \$\oldsymbol{\Omega}\$ 19° \$\oldsymbol{\Omega} 08'22 0° \$\mathbf{m}\$ 10° \$\oldsymbol{\Z}\$ 47'13 0° \$\oldsymbol{\Sigma}\$ 0° \$\oldsymbol{\Cappa}\$ 0° \$\oldsymbol{\Cappa}\$ 0° \$\oldsymbol{\Cappa}\$ 0° \$\oldsymbol{\Cappa}\$ 0° \$\oldsymbol{\Omega}\$ 1° \$\oldsymbol{\Omega} 31'56 3° \$\oldsymbol{\Omega} 42'49 30° \$\oldsymbol{\Lappa}\$ 29° \$\oldsymbol{\Omega} 04'57 25° \$\oldsymbol{\Lappa} 31'33	1°08'00 1°07'44 46°40'45 -4.8m
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54 4738 Apr 06 14:52 4738 Apr 24 11:06 4738 May 03 19:15 4738 May 28 07:14 4738 Jun 05 03:25 4738 Jun 13 01:03 4738 Jul 04 20:31 4738 Jul 31 20:08 4738 Aug 26 18:07 4738 Sep 18 09:12 4738 Sep 18 09:12 4738 Oct 15 19:10 4738 Nov 09 04:51 4738 Dec 03 08:27 4738 Dec 08 00:22	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26 12°Y18'47 6°Y12'26 7°Y50'10 23°Y07'57 0°B 7°B28'40 0°H 0°B 0°A 26°A50'11 0°M 0°A 5°X49'03	9°01'17 9°01'15 0.27363 AU -4.8m	superior conj minimum elong evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set inferior conj	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54 4740 Nov 12 02:28 4740 Nov 26 21:23 4740 Dec 21 07:00 4741 Jan 14 19:21 4741 Feb 08 15:19 4741 Mar 05 04:10 4741 Mar 06 06:14 4741 Apr 02 21:25 4741 Apr 04 07:15 4741 May 10 01:31 4741 May 12 11:06 4741 Jun 07 02:07 4741 Jun 08 18:53 4741 Jun 14 16:08	4° \$\mathbf{m} 38'33 4° \$\mathbf{m} 11'46 0° \$\oldsymbol{\Omega}\$ 19° \$\oldsymbol{\Omega} 08'22 0° \$\mathbf{m}\$ 10° \$\oldsymbol{\Z}\$ 47'13 0° \$\oldsymbol{\Sigma}\$ 0° \$\oldsymbol{\Cappa}\$ 0° \$\oldsymbol{\Cappa}\$ 0° \$\oldsymbol{\Cappa}\$ 0° \$\oldsymbol{\Cappa}\$ 0° \$\oldsymbol{\Omega}\$ 1° \$\oldsymbol{\Omega} 31'56 3° \$\oldsymbol{\Omega} 42'49 30° \$\oldsymbol{\Lappa}\$ 29° \$\oldsymbol{\Omega} 04'57 25° \$\oldsymbol{\Lappa} 31'33	1°08'00 1°07'44 46°40'45 -4.8m
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greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el  asc. node  morning set desc. node	4738 Feb 05 16:29 4738 Mar 03 23:02 4738 Mar 13 23:47 4738 Apr 01 02:58 4738 Apr 03 19:39 4738 Apr 03 20:52 4738 Apr 03 09:54 4738 Apr 06 14:52 4738 Apr 24 11:06 4738 May 03 19:15 4738 May 28 07:14 4738 Jun 05 03:25 4738 Jun 13 01:03 4738 Jul 04 20:31 4738 Jul 04 20:31 4738 Aug 26 18:07 4738 Sep 18 09:12 4738 Sep 18 09:12 4738 Nov 09 04:51 4738 Dec 03 08:27 4738 Dec 08 00:22 4738 Dec 27 08:22 4739 Jan 08 00:06	2°Y24'26 20°Y04'18 21°Y59'57 15°Y42'02 14°Y02'16 14°Y00'22 14°Y17'26 12°Y18'47 6°Y12'26 7°Y50'10 23°Y07'57 0°B 7°B28'40 0°用 0°S 0°A 26°A50'11 0°™ 0°S 0°A 5°ズ*49'03 0°ጜ 14°ጜ36'45	9°01'17 9°01'15 0.27363 AU -4.8m 46°13'03	superior conj minimum elong evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	4740 Aug 25 07:38 4740 Aug 24 22:56 4740 Sep 14 21:32 4740 Sep 30 09:54 4740 Oct 09 05:09 4740 Nov 02 12:54 4740 Nov 12 02:28 4740 Nov 26 21:23 4740 Dec 21 07:00 4741 Jan 14 19:21 4741 Feb 08 15:19 4741 Mar 05 04:10 4741 Mar 06 06:14 4741 Apr 02 21:25 4741 Apr 04 07:15 4741 May 10 01:31 4741 May 13 14:23 4741 May 24 11:06 4741 Jun 07 02:07 4741 Jun 08 18:53 4741 Jun 14 16:08 4741 Jun 14 21:26 4741 Jun 14 11:00 4741 Jun 21 00:35	4° M38'33 4° M11'46 0° Ω 19° Ω08'22 0° M 0° ¾ 11° ¾47'13 0° ♂ 0° ¾ 0° ¥ 0° ¥ 0° ¥ 30° ¥ 0° ¥ 1° II25'18 0° © 1° II31'33 25° II31'33 25° II31'33 25° II39'36 21° II44'23	1°08'00 1°07'44 46°40'45 -4.8m 2°26'12 2°24'38
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asa nada	4741 Oct. 15, 21:15	14° <b>m</b> 26'25			4744 May 06 22:41	0° <b>©</b>	
asc. node	4741 Oct 15 21:15	14 IIJ 20 23 0° <b>Ω</b>			4744 May 06 23:41	0°Ω	
	4741 Oct 29 04:48				4744 Jun 03 06:54		45044155
	4741 Nov 23 05:11	0°M		evening max el	4744 Jun 14 01:39	10° <b>Ω</b> 53'01	45°44'55
	4741 Dec 17 16:12	0° <b>∡</b> 7			4744 Jul 06 02:07	0° <b>m</b>	
	4742 Jan 10 19:36	0°る		desc. node	4744 Jul 22 06:58	9° m 13'56	
	4742 Feb 03 18:53	0° <b>≈</b>		greatest brilliancy	4744 Jul 22 06:22	9° <b>m</b> ,13′22	-4.7m
desc. node	4742 Feb 04 11:53	0°≈53′20		retrograde	4744 Aug 02 01:43	11°M <b>)</b> 20'21	
morning set	4742 Feb 21 08:47	22° <b>≈</b> 04'33		evening set	4744 Aug 18 09:59	6° Mp 15′34	
	4742 Feb 27 16:08	0° <b>)</b> €		inferior conj	4744 Aug 23 15:22	3° <b>™</b> 04'32	-6°41'38
	4742 Mar 23 13:02	$0$ ° $\Upsilon$		minimum elong	4744 Aug 23 05:41	3° <b>m</b> 19'44	6°39'51
				min. Earth dist.	4744 Aug 23 09:32	3° <b>m</b> 13'41	0.29102 AU
superior conj	4742 Apr 03 11:46	13° <b>Ƴ</b> 44'15	-1°26'56	morning rise	4744 Aug 28 01:22	0° <b>m</b> 21'19	
minimum elong	4742 Apr 03 12:45	13° <b>Ƴ</b> 47'19	1°26'56		4744 Aug 28 15:56	$30^\circ$ R $\Omega$	
max. Earth dist.	4742 Apr 06 22:04	18° <b>Ƴ</b> 02'13	1.71517 AU	direct	4744 Sep 14 05:30	24° <b>Ω</b> 47'06	
	4742 Apr 16 11:21	0°8		greatest brilliancy	4744 Sep 24 13:41	26° <b>Ω</b> 42'07	-4.7m
	4742 May 10 12:45	$\Pi^{\circ}0$			4744 Oct 01 19:52	0° <b>m</b> y	
evening rise	4742 May 13 13:47	3° <b>Ⅱ</b> 46'49		morning max el	4744 Nov 02 08:31	25° m 11'09	45°59'55
asc. node	4742 May 28 13:59	22° <b>II</b> 22'06			4744 Nov 07 05:01	0∘ <b>⊽</b>	
	4742 Jun 03 18:25	0°ಅ		asc. node	4744 Nov 12 09:00	5° <b>≏</b> 17'33	
	4742 Jun 28 05:02	$0^{\circ}\Omega$			4744 Dec 05 00:09	0°M	
	4742 Jul 22 21:41	0° mp			4744 Dec 30 16:52	0° <b>⊼</b> 7	
	4742 Aug 16 22:43	ე∘ <u>ი</u>			4745 Jan 24 11:41	0°る	
	4742 Sep 11 12:40	0° <b>m</b>			4745 Feb 17 19:53	0° <b>≈</b>	
daga mada	*	6°M31'22		desc. node	4745 Mar 03 23:45	0 ∞ 17°≈35'01	
desc. node	4742 Sep 17 04:35			desc. node		0° <b>)</b>	
	4742 Oct 08 00:31	0° <b>₹</b>			4745 Mar 13 23:02		
	4742 Nov 05 10:50	0°る	4 600 510 0		4745 Apr 07 00:14	0° <b>Υ</b>	
evening max el	4742 Nov 08 00:12	2° <b>る</b> 30'52	46°25'33		4745 May 01 01:41	0°8	
	4742 Dec 12 21:48	0° <b>≈</b>		morning set	4745 May 08 02:47	8° <b>8</b> 46'20	
greatest brilliancy	4742 Dec 18 00:17	2° <b>≈</b> 09'16	-4.9m		4745 May 25 04:55	$\Pi$ °0	
retrograde	4742 Dec 27 17:46	3° <b>≈</b> 54'50					
asc. node	4743 Jan 08 06:37	1°≈15′01		superior conj	4745 Jun 15 12:48	26° <b>Ⅱ</b> 24'24	
	4743 Jan 10 20:04	30°Ŗる		minimum elong	4745 Jun 15 17:46	26° <b>Ⅲ</b> 39'44	0°22'26
evening set	4743 Jan 11 01:21	29° <b>る</b> 53'02		max. Earth dist.	4745 Jun 18 01:46	29° <b>Ⅲ</b> 32'42	1.72952 AU
inferior conj	4743 Jan 17 07:33	26° <b>る</b> 13'47	2°19'35		4745 Jun 18 10:37	0ಂಣ	
minimum elong	4743 Jan 17 02:19	26° <b>පි</b> 21'47	2°17'56	asc. node	4745 Jun 25 01:43	8° <b>©</b> 10'54	
min. Earth dist.	4743 Jan 17 06:59	26° <b>ප</b> 14'40	0.26653 AU		4745 Jul 12 18:39	$0^{\circ}\Omega$	
morning rise	4743 Jan 23 03:07	22° <b>る</b> 48'39		evening rise	4745 Jul 22 19:08	12° <b>Ω</b> 19'17	
direct	4743 Feb 06 20:44	18° <b>ප</b> 31'41		-	4745 Aug 06 04:40	0° m/	
greatest brilliancy	4743 Feb 16 22:36	20°る27'00	-4.9m		4745 Aug 30 16:56	0∘ <u>⊽</u>	
· ·	4743 Mar 05 10:24	0° <b>≈</b>			4745 Sep 24 08:30	$0^{\circ}$ M.	
morning max el	4743 Mar 29 07:41	21° <b>≈</b> 25'30	46°55'08	desc. node	4745 Oct 14 16:36	24°M34'36	
<i>S</i>	4743 Apr 06 15:22	0° <b>)</b> €			4745 Oct 19 04:53	0° <b>∡</b> ¹	
desc. node	4743 Apr 29 21:38	25° <b>)</b> 32'42			4745 Nov 13 07:57	0°ਤ	
dese. Hode	4743 May 03 19:36	0°Υ			4745 Dec 08 21:52	0° <b>≈</b>	
	4743 May 29 15:02	0°8			4746 Jan 04 11:43	0° <b>∀</b>	
	4743 Jun 23 21:22	0°II		evening max el	4746 Jan 19 17:30	16° <b>∺</b> 05'41	47°09'44
	4743 Jul 18 21:20	0°©		evening max er	4746 Feb 03 05:58	0° <b>Υ</b>	47 09 44
		0°Ω 0 €3		asc. node	4746 Feb 03 03:38 4746 Feb 04 18:25	1° <b>Υ</b> 20'14	
	4743 Aug 12 16:44					1 γ 20 14 17° <b>Υ</b> '40'08	4.0
asc. node	4743 Aug 20 23:22	10° <b>Ω</b> 03'38		greatest brilliancy	4746 Mar 01 12:34	17 1 40 08 19° <b>Y</b> 36'31	-4.9m
	4743 Sep 06 07:24	0° m/y		retrograde	4746 Mar 11 13:51		
morning set	4743 Sep 26 17:06	25° m 03'31		evening set	4746 Mar 29 16:07	13° <b>Y</b> 19'09	
	4743 Sep 30 17:18	0∘ <b>⊽</b>		inferior conj	4746 Apr 01 09:08	11° <b>Y</b> ′39′06	9°02'23
	4743 Oct 24 23:14	0° <b>M</b>		minimum elong	4746 Apr 01 09:26	11° <b>Y</b> ′38'38	9°02'22
max. Earth dist.	4743 Oct 30 12:46	6° <b>™</b> 54'25	1.72553 AU	min. Earth dist.	4746 Mar 31 22:40	11° <b>Y</b> 55'19	0.27332 AU
				morning rise	4746 Apr 04 02:52	9° <b>Υ</b> 58'08	
superior conj	4743 Nov 02 11:00	10° <b>™</b> 32'29	1°15'07	direct	4746 Apr 22 00:08	3° <b>Ƴ</b> 49'37	
minimum elong	4743 Nov 02 19:11	10°M57'53	1°14'56	greatest brilliancy	4746 May 01 07:56	5° <b>Y</b> 27'25	-4.8m
	4743 Nov 18 02:32	0°⊀		desc. node	4746 May 27 09:16	22° <b>Y</b> ′04'05	
evening rise	4743 Dec 10 23:02	28° <b>₰</b> 28'49			4746 Jun 05 05:32	$0^{\circ}$ 8	
desc. node	4743 Dec 10 14:21	28° <b>₹</b> 01'44		morning max el	4746 Jun 10 15:49	5° <b>8</b> 11'45	46°14'38
	4743 Dec 12 04:16	ರ°0			4746 Jul 04 13:20	$\Pi^{\circ}0$	
	4744 Jan 05 05:02	0° <b>≈</b>			4746 Jul 31 09:53	0ಂತಾ	
	4744 Jan 29 05:34	0° <b>)</b> €			4746 Aug 26 06:25	$0^{\circ}\Omega$	
	4744 Feb 22 07:45	$0^{\circ}\mathbf{Y}$		asc. node	4746 Sep 17 11:19	26° <b>Ω</b> 21'53	
	4744 Mar 17 15:10	0°8			4746 Sep 20 12:02	0° m)	
asc. node	4744 Apr 01 16:11	18° <b>8</b> 18'59			4746 Oct 15 06:13	0∘ <u>⊽</u>	
	*	0°II				0° <b>™</b>	
	4744 Apr 11 09:24	0- П			4746 Nov 08 15:41	O-III	

	4746 Dec 02 19:12	0° <b>∡</b> ¹		avanina aat	4749 Jun 06 12:35	26° <b>Ⅱ</b> 49'43	
				evening set		26°Щ4943 23° <b>Ц</b> 18'56	2046120
morning set	4746 Dec 05 14:39	3° <b>₹</b> 30'19		inferior conj	4749 Jun 12 07:45		
	4746 Dec 26 19:06	0°る		minimum elong	4749 Jun 12 13:42	23° <b>Ⅱ</b> 09'37	2°44'42
desc. node	4747 Jan 07 02:03	14° <b>ろ</b> 09'13	1.71226.411	min. Earth dist.	4749 Jun 12 02:52	23° <b>II</b> 26'35	0.28265 AU
max. Earth dist.	4747 Jan 12 15:32	21°008'05	1.71326 AU	morning rise	4749 Jun 18 15:28	19° <b>Ⅱ</b> 32'32	
	4747 1 14 00 04	220 - 715110	0017105	desc. node	4749 Jun 23 21:02	17° <b>Ⅱ</b> 06'05	
superior conj	4747 Jan 14 08:04	23°₹15'18		direct	4749 Jul 03 13:33	15° <b>Ⅱ</b> 14'21	4.7
minimum elong	4747 Jan 14 03:36	23°る01'17	0-1/11	greatest brilliancy	4749 Jul 13 09:52	17° <b>Ⅱ</b> 00′29	-4.7m
	4747 Jan 19 16:55	0° <b>≈</b>			4749 Aug 04 04:38	0.20 0.20	45040145
	4747 Feb 12 13:43	0° <b>∺</b> 14° <b>∺</b> 38'11		morning max el	4749 Aug 21 07:36	15° <b>©</b> 03'13	45°42'45
evening rise	4747 Feb 24 05:07				4749 Sep 05 06:49	0° <b>Ω</b>	
	4747 Mar 08 10:47	$^{\circ \gamma}$		1	4749 Oct 02 19:55	0° M)	
	4747 Apr 01 10:14	0° <b>B</b>		asc. node	4749 Oct 14 23:15	13° m 53'53	
1	4747 Apr 25 14:40	0° <b>П</b>			4749 Oct 28 17:20	0∘ <b>亚</b>	
asc. node	4747 Apr 30 04:07	5° <b>Ⅱ</b> 36'57			4749 Nov 22 16:56	0°M.	
	4747 May 20 02:56	0° <b>©</b>			4749 Dec 17 03:33	0° <b>∡</b> ¹	
	4747 Jun 14 02:33	$\Omega^{\circ}\Omega$			4750 Jan 10 06:46	0° <b>る</b>	
	4747 Jul 09 20:03	0° <b>m</b>		1 1	4750 Feb 03 05:55	0° <b>≈</b>	
	4747 Aug 05 23:12	0° <b>⊡</b>		desc. node	4750 Feb 03 13:53	0°≈24'59	
desc. node	4747 Aug 19 18:48	14° <b>£</b> 11'58	45025121	morning set	4750 Feb 18 18:33	19° <b>≈</b> 30′00	
evening max el	4747 Aug 25 00:18	19° <b>Ω</b> 17'11	45°35'21		4750 Feb 27 03:04	0° <b>)</b> €	
1 '11'	4747 Sep 05 20:27	0°M	4.7		4750 Mar 22 23:54	0° <b>Υ</b>	
greatest brilliancy	4747 Oct 03 06:11	17°M 19'09	-4.7m		4750 M 21 22 00	11° <b>Y</b> °15′26	1027101
retrograde	4747 Oct 12 16:45	18°M.55'33		superior conj	4750 Mar 31 23:09	11° <b>Y</b> 15'26	
evening set	4747 Oct 30 01:13	13°M15'00	7941120	minimum elong	4750 Mar 31 23:03	15° <b>Y</b> 25'48	
inferior conj	4747 Nov 02 20:08	10°M56'32 10°M43'13	7°40'06	max. Earth dist.	4750 Apr 04 07:01	0° <b>8</b>	1.71469 AU
minimum elong min. Earth dist.	4747 Nov 03 04:44	10°M23'06	0.28260 AU		4750 Apr 15 22:10	0°II	
morning rise	4747 Nov 03 17:44 4747 Nov 07 07:56	8°M12'50	0.28200 AU	evening rise	4750 May 09 23:32 4750 May 11 03:02	0 П 1°П25'26	
direct	4747 Nov 07 07:30 4747 Nov 24 03:34	2°M47'01		asc. node	4750 May 27 15:56	21° <b>II</b> 54'46	
greatest brilliancy	4747 Nov 24 03:34 4747 Dec 05 07:44	5°M06'24	-4.8m	asc. node	4750 Jun 03 05:14	0°95	
asc. node	4747 Dec 03 07:44 4747 Dec 10 20:43	7°M43'43	-4.0111		4750 Jun 27 16:02	0° <b>U</b>	
asc. node	4747 Dec 10 20:43 4748 Jan 07 22:49	7 IIC+3 43 0° <b>⊼</b> 1			4750 Jul 22 09:05	0° <b>m</b> )	
morning max el	4748 Jan 13 15:11	5° <b>×</b> <sup>7</sup> 37'38	46°44'34		4750 Aug 16 10:50	0∘ <b>⊽</b>	
morning max ci	4748 Feb 05 07:27	0°る	40 44 54		4750 Sep 11 02:07	0° <b>™</b>	
	4748 Mar 02 05:14	0° <b>≈</b>		desc. node	4750 Sep 16 06:40	5°M57'45	
	4748 Mar 27 05:20	0° <b>)</b> €		dese. Hode	4750 Oct 07 16:34	0° <b>⊼</b>	
desc. node	4748 Mar 31 11:45	5° <b>)</b> 10'47			4750 Nov 05 09:43	0°ਤ	
dese. Hode	4748 Apr 20 19:58	0° <b>Υ</b>		evening max el	4750 Nov 05 12:51	0° <b>ろ</b> 07'37	46°23'21
	4748 May 15 06:50	ە°8		greatest brilliancy	4750 Dec 15 14:07	29° <b>る</b> 44'12	
	4748 Jun 08 16:58	0° <b>I</b> I		greatest stilliane,	4750 Dec 16 09:06	0° <b>≈</b>	,
	4748 Jul 03 03:28	0°9		retrograde	4750 Dec 25 05:27	1° <b>≈</b> 28'09	
morning set	4748 Jul 17 07:01	17° <b>5</b> 21'49		renograde	4751 Jan 02 18:26	30°Rる	
asc. node	4748 Jul 22 13:33	23°950'11		asc. node	4751 Jan 07 08:35	28° <b>る</b> 03'44	
	4748 Jul 27 14:00	$0^{\circ}\Omega$		evening set	4751 Jan 08 13:24	27° <b>る</b> 26'49	
	4748 Aug 20 23:39	0° m/		inferior conj	4751 Jan 14 20:06	23° <b>♂</b> 47'19	1°55'45
max. Earth dist.	4748 Aug 22 02:31		1.73457 AU	minimum elong	4751 Jan 14 15:43	23° <b>ප</b> 54'01	1°54'22
	C	Î		min. Earth dist.	4751 Jan 14 21:22	23° <b>る</b> 45'23	0.26670 AU
superior conj	4748 Aug 23 01:40	2° m/33'55	1°06'02	morning rise	4751 Jan 20 17:40	20°る19'09	
minimum elong	4748 Aug 22 16:49	2° Mp 06'39	1°05'45	direct	4751 Feb 04 08:58	16° <b>පි</b> 04'27	
•	4748 Sep 14 08:05	0∘ <b>⊽</b>		greatest brilliancy	4751 Feb 14 13:46	18° <b>る</b> 02'05	-4.9m
evening rise	4748 Sep 28 03:16	17° <b>≏</b> 01'04			4751 Mar 06 03:06	0° <b>≈</b>	
	4748 Oct 08 15:52	0°M		morning max el	4751 Mar 26 20:11	18° <b>≈</b> 58'15	46°55'57
	4748 Nov 01 23:53	0°⊀			4751 Apr 06 11:18	0° <b>)</b> €	
desc. node	4748 Nov 11 04:26	11° <b>∡</b> 19′08		desc. node	4751 Apr 28 23:33	24° <b>¥</b> 53'11	
	4748 Nov 26 08:44	ರ°0			4751 May 03 10:58	$0^{\circ}$ $\Upsilon$	
	4748 Dec 20 18:49	0° <b>≈</b>			4751 May 29 04:23	$0^{\circ}$ 8	
	4749 Jan 14 07:50	0° <b>∀</b>			4751 Jun 23 09:35	$\Pi^{\circ}0$	
	4749 Feb 08 04:51	$0^{\circ}\mathbf{\Upsilon}$			4751 Jul 18 08:50	0ಂತಾ	
asc. node	4749 Mar 04 06:20	28° <b>Y</b> 07'35			4751 Aug 12 03:47	$0$ $^{\circ}$ $\Omega$	
	4749 Mar 05 21:52	$9^{\circ}$ 8		asc. node	4751 Aug 20 01:30	9° <b>Ω</b> 36'44	
evening max el	4749 Apr 01 22:50	29° <b>8</b> 09'50	46°42'44		4751 Sep 05 18:13	0° <b>m</b> )	
	4749 Apr 02 18:53	$\Pi^{\circ}0$		morning set	4751 Sep 24 10:33	22° Mp 56'20	
greatest brilliancy	4749 May 11 07:24	29° <b>Ⅱ</b> 20′08	-4.8m		4751 Sep 30 04:02	0∘ <b>⊽</b>	
	4749 May 13 04:39	0ಂತಾ			4751 Oct 24 10:00	0°M₊	
retrograde	4749 May 22 02:58	1°529'41		max. Earth dist.	4751 Oct 28 06:09	4°M45'56	1.72602 AU
	4749 May 30 16:37	30°R∏					

superior conj	4751 Oct 31 03:19	8°M20'38	1°16'40	direct	4754 Apr 19 13:22	1° <b>Y</b> ′24'57	
minimum elong	4751 Oct 31 03:19 4751 Oct 31 11:01	8°M44'32		greatest brilliancy	4754 Apr 28 19:53	3° <b>Υ</b> 02'10	1 9m
minimum clong		0° <b>√</b>	1 10 29	desc. node	-	21° <b>Υ</b> '00'27	-4.0111
	4751 Nov 17 13:23			desc. node	4754 May 26 11:16		
evening rise	4751 Dec 08 12:34	26° ₹ 07'10			4754 Jun 05 06:47	0° <b>8</b>	46016116
desc. node	4751 Dec 09 16:17	27° <b>∡</b> ³33'34		morning max el	4754 Jun 08 06:48	2° <b>8</b> 54'11	46°16'16
	4751 Dec 11 15:16	5°0			4754 Jul 04 06:11	0°II	
	4752 Jan 04 16:12	0° <b>≈</b>			4754 Jul 30 23:51	0°©	
	4752 Jan 28 16:59	0° <b>∀</b>			4754 Aug 25 18:57	0° <b>Ω</b>	
	4752 Feb 21 19:30	0° <b>Υ</b>		asc. node	4754 Sep 16 13:21	25° <b>Ω</b> 52'31	
	4752 Mar 17 03:23	0°8			4754 Sep 19 23:47	0° <b>т</b> р	
asc. node	4752 Mar 31 18:11	17° <b>8</b> 46'52			4754 Oct 14 17:32	0∘ <b>ত</b>	
	4752 Apr 10 22:26	$\Pi^{\circ}0$			4754 Nov 08 02:46	0° <b>M</b>	
	4752 May 06 14:21	0ංම			4754 Dec 02 06:13	0°⊀	
	4752 Jun 03 01:44	$0^{\circ}\Omega$		morning set	4754 Dec 03 05:14	1° <b>∡</b> 11'44	
evening max el	4752 Jun 11 16:48	8° <b>Ω</b> 39'44	45°46'32		4754 Dec 26 06:10	0°ಕ	
	4752 Jul 06 19:42	0° <b>m</b> )		desc. node	4755 Jan 06 04:10	13° <b>る</b> 41'01	
greatest brilliancy	4752 Jul 19 21:38	7° <b>m</b> 03'35	-4.7m	max. Earth dist.	4755 Jan 10 00:52	18° <b>る</b> 31'48	1.71357 AU
desc. node	4752 Jul 21 09:02	7° <b>™</b> 34'56					
retrograde	4752 Jul 30 18:30	9° <b>™</b> 12'18		superior conj	4755 Jan 11 19:20	20°る45'06	-0°13'34
evening set	4752 Aug 15 23:39	4° Mp 11'02		minimum elong	4755 Jan 11 15:52	20° <b>ප</b> 34'11	0°13'24
inferior conj	4752 Aug 21 07:55	0° <b>m</b> ,56′09	-6°29'00	behind sun begin	4755 Jan 11 01:03	19° <b>る</b> 47'41	
minimum elong	4752 Aug 20 22:07	1° <b>m</b> )11'31	6°27'08	behind sun end	4755 Jan 12 06:41	21° <b>る</b> 20'41	
min. Earth dist.	4752 Aug 21 01:28	1°M)06'16	0.29093 AU		4755 Jan 19 04:04	0° <b>≈</b>	
	4752 Aug 22 19:48	30° <b>₹</b> Ω			4755 Feb 12 00:56	0° <b>∀</b>	
morning rise	4752 Aug 25 20:35	28° <b>Ω</b> 09'15		evening rise	4755 Feb 21 15:31	12° <b>)</b> 04'44	
direct	4752 Sep 11 21:35	22° <b>Ω</b> 38'45		•	4755 Mar 07 22:05	$0^{\circ}\mathbf{\Upsilon}$	
greatest brilliancy	4752 Sep 22 05:54	24° <b>Ω</b> 33'53	-4.7m		4755 Mar 31 21:37	0°8	
8	4752 Oct 03 04:08	0° m∕			4755 Apr 25 02:16	0°II	
morning max el	4752 Oct 31 00:29	22° m 59'47	45°58'33	asc. node	4755 Apr 29 06:03	5° <b>∏</b> 07'07	
8	4752 Nov 07 00:58	0∘ <b>⊽</b>			4755 May 19 14:56	0ಂತಿ	
asc. node	4752 Nov 11 10:58	ა <b>—</b> 4° <b>Ω</b> 33'59			4755 Jun 13 15:18	$0^{\circ}\Omega$	
use. Houe	4752 Dec 04 15:13	0° <b>M</b> ₊			4755 Jul 09 10:15	0° m)	
	4752 Dec 30 06:08	0° <b>∡</b> ¹			4755 Aug 05 16:51	0∘ <b>ರ</b> ೧.ಗಿ	
	4753 Jan 24 00:03	0°ਤ		desc. node	4755 Aug 18 20:55	0 <b>–</b> 13° <b>≏</b> 24'58	
	4753 Feb 17 07:45	0° <b>≈</b>		evening max el	4755 Aug 18 20:55 4755 Aug 22 15:58	17° <b>⊆</b> 05'25	45°34'40
desc. node	4753 Mar 03 01:54	0 ∞ 17°≈05'21		evening max cr	4755 Sep 06 03:24	0°M	43 34 40
desc. flode	4753 Mar 13 10:35	0° <b>\</b>		greatest brilliancy	4755 Sep 30 20:05	15°M04'37	-4.7m
		0° <b>Υ</b>			•		<b>-4</b> ./III
	4753 Apr 06 11:33	0.8 0.1		retrograde	4755 Oct 10 07:07	16°MJ41'10 10°MJ56'46	
	4753 Apr 30 12:48			evening set	4755 Oct 27 18:43		7950120
morning set	4753 May 05 16:16	6° <b>8</b> 24'25 0° <b>Ⅱ</b>		inferior conj	4755 Oct 31 11:15	8°M41'29	
	4753 May 24 15:53	0-П		minimum elong	4755 Oct 31 19:22	8°M28'53	7°49'24
	4550 X 10 04 06	240 <b>T</b> 10142	0005150	min. Earth dist.	4755 Nov 01 08:09	8°M09'02	0.28320 AU
superior conj	4753 Jun 13 04:26	24° <b>Ⅱ</b> 10'43		morning rise	4755 Nov 04 19:44	6°M02'14	
minimum elong	4753 Jun 13 10:05	24° <b>II</b> 28'13		direct	4755 Nov 21 19:32	0°M31'25	4.0
max. Earth dist.	4753 Jun 15 18:20	27° <b>Ⅱ</b> 22'00	1.72908 AU	greatest brilliancy	4755 Dec 02 22:30	2°M49'19	-4.8m
_	4753 Jun 17 21:30	0ංම		asc. node	4755 Dec 09 22:44	6° <b>™</b> 15'41	
asc. node	4753 Jun 24 03:46	7°543'44			4756 Jan 07 22:46	0° <b>∡</b>	
	4753 Jul 12 05:31	0°N		morning max el	4756 Jan 11 05:49	3° <b>∡</b> 17'28	46°43'01
evening rise	4753 Jul 20 13:06	10° <b>Ω</b> 13'40			4756 Feb 05 00:09	0°る	
	4753 Aug 05 15:37	0° <b>m</b> p			4756 Mar 01 19:28	0° <b>≈</b>	
	4753 Aug 30 04:05	0∘ <b>⊽</b>			4756 Mar 26 18:20	0° <b>∀</b>	
	4753 Sep 23 20:03	0°M₊		desc. node	4756 Mar 30 13:41	4° <b>)</b> 37′31	
desc. node	4753 Oct 13 18:34	24°M04'12			4756 Apr 20 08:14	$0$ ° $\Upsilon$	
	4753 Oct 18 17:06	0° <b>∡</b> 7			4756 May 14 18:35	$9^{\circ}$ 8	
	4753 Nov 12 21:14	0°₹			4756 Jun 08 04:21	$\Pi$ $^{\circ}0$	
	4753 Dec 08 12:58	0° <b>≈</b>			4756 Jul 02 14:36	0	
	4754 Jan 04 06:36	0° <b>∀</b>		morning set	4756 Jul 15 00:11	15° <b>©</b> 13'27	
evening max el	4754 Jan 17 08:02	13° <b>)</b> 42′53	47°09'18	asc. node	4756 Jul 21 15:39	23° <b>©</b> 22'57	
asc. node	4754 Feb 03 20:34	0° <b>Υ</b> 13'12			4756 Jul 27 00:57	$0$ ° $\Omega$	
	4754 Feb 03 14:23	$\mathbf{\gamma}_{0}$		max. Earth dist.	4756 Aug 19 22:22	29° <b>Ω</b> 22'34	1.73461 AU
greatest brilliancy	4754 Feb 27 01:37	15° <b>Ƴ</b> 13'39	-4.9m		4756 Aug 20 10:32	0° <b>™</b>	
retrograde	4754 Mar 09 04:08	17° <b>Ƴ</b> 10'54					
evening set	4754 Mar 27 04:29	10° <b>Y</b> 55′06		superior conj	4756 Aug 20 19:44	0°Mp28'19	1°03'58
inferior conj	4754 Mar 29 22:23	9° <b>Ƴ</b> 13'51	9°02'27	minimum elong	4756 Aug 20 10:47	0° Mp 00′47	1°03'40
minimum elong	4754 Mar 29 21:44	9° <b>Ƴ</b> 14'50	9°02'28		4756 Sep 13 18:59	0∘ <b>ত</b>	
min. Earth dist.	4754 Mar 29 10:59	9° <b>Ƴ</b> 31'30	0.27295 AU	evening rise	4756 Sep 25 20:54	14° <b>≙</b> 53'33	
morning rise	4754 Apr 01 15:07	7° <b>Ƴ</b> 34'35			4756 Oct 08 02:54	$0^{\circ}$ M	

	4756 NI 01 11 10	00.7			4750 I 22 21 52	00 <b>T</b>	
	4756 Nov 01 11:10	0° <b>∡</b> ¹			4759 Jun 22 21:52	0°II	
desc. node	4756 Nov 10 06:25	10° <b>∡</b> 50′14			4759 Jul 17 20:28	0° <b>©</b>	
	4756 Nov 25 20:21	0°₹			4759 Aug 11 14:58	$0$ ° $\Omega$	
	4756 Dec 20 06:55	0° <b>≈</b>		asc. node	4759 Aug 19 03:29	9° <b>Ω</b> 08'59	
	4757 Jan 13 20:38	0° <b>ℋ</b>			4759 Sep 05 05:09	0° <b>m</b> )	
	4757 Feb 07 18:50	$0$ ° $\mathbf{\gamma}$		morning set	4759 Sep 22 03:40	20° <b>m</b> 47'54	
asc. node	4757 Mar 03 08:16	27° <b>Ƴ</b> 27'14			4759 Sep 29 14:50	0∘ <b>⊽</b>	
	4757 Mar 05 14:13	$9^{\circ}$ 8			4759 Oct 23 20:48	0° <b>M</b>	
evening max el	4757 Mar 30 13:27	26° <b>8</b> 50'03	46°44'27	max. Earth dist.	4759 Oct 26 00:55	2°M41'40	1.72647 AU
	4757 Apr 02 17:54	$\Pi$ $^{\circ}$ 0					
greatest brilliancy	4757 May 09 00:36	27° <b>II</b> 06'05	-4.8m	superior conj	4759 Oct 28 19:27	6° <b>™</b> 08'08	1°18'05
retrograde	4757 May 19 18:04	29° <b>Ⅱ</b> 13'53		minimum elong	4759 Oct 29 02:38	6° <b>M</b> 30′26	1°17'57
evening set	4757 Jun 04 06:02	24° <b>Ⅲ</b> 31'35		č	4759 Nov 17 00:16	0° <b>∡</b> ¹	
inferior conj	4757 Jun 09 23:01	21° <b>II</b> 03'50	3°06'38	evening rise	4759 Dec 06 02:10	23° <b>х</b> ⁴45'44	
minimum elong	4757 Jun 10 05:37	20° <b>I</b> 53'30	3°04'44	desc. node	4759 Dec 08 18:22	27°×705'46	
min. Earth dist.	4757 Jun 09 18:45	21° <b>I</b> I10'31	0.28231 AU	dese. Hode	4759 Dec 11 02:17	0°る	
morning rise	4757 Jun 16 05:45	17° <b>Ⅱ</b> 18'24	0.20231710		4760 Jan 04 03:24	0° <b>≈</b>	
•		17 <b>Ⅱ</b> 1824 14° <b>Ⅱ</b> 20'05				0° <b>∺</b>	
desc. node	4757 Jun 22 23:06				4760 Jan 28 04:23	0° <b>Υ</b> 0° <b>Υ</b>	
direct	4757 Jul 01 04:09	12° <b>I</b> I59'51	4.7		4760 Feb 21 07:11		
greatest brilliancy	4757 Jul 11 00:32	14° <b>Ⅱ</b> 45'42	-4./m		4760 Mar 16 15:31	0°8	
	4757 Aug 04 13:58	0ංම		asc. node	4760 Mar 30 20:09	17° <b>8</b> 14'53	
morning max el	4757 Aug 18 21:48	12°5648'01	45°43'08		4760 Apr 10 11:24	$\Pi$ °0	
	4757 Sep 05 00:54	$0 {\circ} \Omega$			4760 May 06 05:05	0	
	4757 Oct 02 10:13	0° <b>m</b>			4760 Jun 02 21:05	$0$ $^{\circ}$ $\Omega$	
asc. node	4757 Oct 14 01:10	13° <b>m</b> 20'23		evening max el	4760 Jun 09 08:42	6° <b>Ω</b> 28'18	45°47'58
	4757 Oct 28 06:02	0∘ <b>ত</b>			4760 Jul 07 19:55	0° <b>m</b> )	
	4757 Nov 22 04:52	0°M.		greatest brilliancy	4760 Jul 17 12:22	4° <b>m</b> 52'38	-4.7m
	4757 Dec 16 15:05	0° <b>∡</b> ¹		desc. node	4760 Jul 20 11:07	5° <b>m</b> 51'42	
	4758 Jan 09 18:03	0°రె		retrograde	4760 Jul 28 11:21	7° mp 03'17	
desc. node	4758 Feb 02 16:00	29° <b>る</b> 56'38		evening set	4760 Aug 13 13:09	2° m 05'34	
	4758 Feb 02 17:04	0° <b>≈</b>		8-11	4760 Aug 17 01:16	30°R <b>Ω</b>	
morning set	4758 Feb 16 04:45	16° <b>≈</b> 56'17		min. Earth dist.	4760 Aug 18 16:55		0.29083 AU
morning sec	4758 Feb 26 14:09	0° <b>∀</b>		inferior conj	4760 Aug 19 00:12	28° <b>Ω</b> 46'50	
	4758 Mar 22 10:57	0°Υ		minimum elong	4760 Aug 18 14:20	29° <b>Ω</b> 02'16	
	4/36 Wai 22 10.37	0 1		morning rise	4760 Aug 23 15:34	25°Ω56'16	0 13 43
	4750 M 20 10-22	000046102	1926155	•	•		
superior conj	4758 Mar 29 10:33	8° <b>Υ</b> 46'02		direct	4760 Sep 09 13:53	20° <b>Ω</b> 29'36	4.7
minimum elong	4758 Mar 29 09:24	8°Υ42'24		greatest brilliancy	4760 Sep 19 21:25	22° <b>Ω</b> 24'24	-4.7m
max. Earth dist.	4758 Apr 01 13:13	12° <b>Y</b> 40′10	1.71433 AU		4760 Oct 04 03:23	0° m/y	
	4758 Apr 15 09:13	0° <b>8</b>		morning max el	4760 Oct 28 16:48	20° <b>m</b> 49'31	45°57'16
evening rise	4758 May 08 15:50	29° <b>8</b> 01'42			4760 Nov 06 20:19	0∘ <b>ত</b>	
	4758 May 09 10:36	$\Pi^{\circ}0$		asc. node	4760 Nov 10 13:05	3° <b>≏</b> 51'25	
asc. node	4758 May 26 17:58	21° <b>Ⅱ</b> 26'47			4760 Dec 04 06:00	$0^{\circ}$ M	
	4758 Jun 02 16:22	$0$ $\circ$ $\odot$			4760 Dec 29 19:10	0° <b>∡</b> ¹	
	4758 Jun 27 03:21	$0 {\circ} \Omega$			4761 Jan 23 12:13	0°₹	
	4758 Jul 21 20:47	0° <b>m</b>			4761 Feb 16 19:26	0° <b>≈</b>	
	4758 Aug 15 23:17	0∘ <b>ত</b>		desc. node	4761 Mar 02 03:46	16° <b>≈</b> 35′26	
	4758 Sep 10 15:55	0°M.			4761 Mar 12 21:55	0° <b>)</b> €	
desc. node	4758 Sep 15 08:36	5°M22'45			4761 Apr 05 22:38	$0$ ° $\Upsilon$	
	4758 Oct 07 09:08	0° <b>∡</b> ¹			4761 Apr 29 23:40	0°B	
evening max el	4758 Nov 03 01:28	27° <b>∡</b> ¹44'07	46°21'19	morning set	4761 May 03 06:01	4° <b>8</b> 04'02	
Č	4758 Nov 05 09:49	್೦ಂ		Č	4761 May 24 02:36	$\Pi^{\circ}0$	
greatest brilliancy	4758 Dec 13 03:38	27° <b>る</b> 18'52	-4.9m				
retrograde	4758 Dec 22 17:39	29° <b>る</b> 02'02	11,7 222	superior conj	4761 Jun 10 20:08	21° <b>Ⅱ</b> 57'54	-0°29'15
evening set		25° <b>පි</b> 00'30		minimum elong	4761 Jun 11 02:28	22° <b>I</b> 17'30	
asc. node							0 20 30
	4759 Jan 06 01:49			•			1 72970 ATT
	4759 Jan 06 10:42	24° <b>₹</b> 48'42	1921/51	max. Earth dist.	4761 Jun 13 13:09	25° <b>Ⅱ</b> 18'56	1.72870 AU
inferior conj	4759 Jan 06 10:42 4759 Jan 12 08:45	24°ප්48'42 21°ප්21'10		max. Earth dist.	4761 Jun 13 13:09 4761 Jun 17 08:08	25°∏18′56 0°©	1.72870 AU
minimum elong	4759 Jan 06 10:42 4759 Jan 12 08:45 4759 Jan 12 05:14	24° ප් 48' 42 21° ප් 21' 10 21° ප් 26' 32	1°30'44	•	4761 Jun 13 13:09 4761 Jun 17 08:08 4761 Jun 23 05:51	25°∏18'56 0°© 7°©17'22	1.72870 AU
minimum elong min. Earth dist.	4759 Jan 06 10:42 4759 Jan 12 08:45 4759 Jan 12 05:14 4759 Jan 12 11:39	24°る48'42 21°る21'10 21°る26'32 21°る16'45		max. Earth dist.	4761 Jun 13 13:09 4761 Jun 17 08:08 4761 Jun 23 05:51 4761 Jul 11 16:10	25°∏18'56 0°© 7°©17'22 0°Ω	1.72870 AU
minimum elong min. Earth dist. morning rise	4759 Jan 06 10:42 4759 Jan 12 08:45 4759 Jan 12 05:14 4759 Jan 12 11:39 4759 Jan 18 08:12	24°る48'42 21°る21'10 21°る26'32 21°る16'45 17°る50'33	1°30'44	max. Earth dist.	4761 Jun 13 13:09 4761 Jun 17 08:08 4761 Jun 23 05:51 4761 Jul 11 16:10 4761 Jul 18 07:01	25°¶18'56 0°\$ 7°\$17'22 0°\$ 8°\$08'26	1.72870 AU
minimum elong min. Earth dist. morning rise direct	4759 Jan 06 10:42 4759 Jan 12 08:45 4759 Jan 12 05:14 4759 Jan 12 11:39 4759 Jan 18 08:12 4759 Feb 01 21:26	24°정48'42 21°정21'10 21°정26'32 21°정16'45 17°정50'33 13°정37'31	1°30'44 0.26688 AU	max. Earth dist.	4761 Jun 13 13:09 4761 Jun 17 08:08 4761 Jun 23 05:51 4761 Jul 11 16:10 4761 Jul 18 07:01 4761 Aug 05 02:23	25° <b>I</b> 18'56 0° <b>S</b> 7° <b>S</b> 17'22 0° <b>N</b> 8° <b>N</b> 08'26 0° <b>M</b>	1.72870 AU
minimum elong min. Earth dist. morning rise	4759 Jan 06 10:42 4759 Jan 12 08:45 4759 Jan 12 05:14 4759 Jan 12 11:39 4759 Jan 18 08:12 4759 Feb 01 21:26 4759 Feb 12 04:50	24°전48'42 21°전21'10 21°전26'32 21°전16'45 17°전50'33 13°전37'31 15°전37'34	1°30'44 0.26688 AU	max. Earth dist.	4761 Jun 13 13:09 4761 Jun 17 08:08 4761 Jun 23 05:51 4761 Jul 11 16:10 4761 Jul 18 07:01 4761 Aug 05 02:23 4761 Aug 29 15:06	25° II 18'56 0° II 7'22 0° II 8° II 7'22 0° II 8° II 8'26 0° II 90°	1.72870 AU
minimum elong min. Earth dist. morning rise direct	4759 Jan 06 10:42 4759 Jan 12 08:45 4759 Jan 12 05:14 4759 Jan 12 11:39 4759 Jan 18 08:12 4759 Feb 01 21:26 4759 Feb 12 04:50 4759 Mar 06 15:27	24°정48'42 21°정21'10 21°정26'32 21°정16'45 17°정50'33 13°정37'31 15°정37'34 0°≈	1°30'44 0.26688 AU -4.9m	max. Earth dist. asc. node evening rise	4761 Jun 13 13:09 4761 Jun 17 08:08 4761 Jun 23 05:51 4761 Jul 11 16:10 4761 Jul 18 07:01 4761 Aug 05 02:23 4761 Aug 29 15:06 4761 Sep 23 07:29	25°M18'56 0°S 7°S17'22 0°A 8°A08'26 0°M 0°A	1.72870 AU
minimum elong min. Earth dist. morning rise direct	4759 Jan 06 10:42 4759 Jan 12 08:45 4759 Jan 12 05:14 4759 Jan 12 11:39 4759 Jan 18 08:12 4759 Feb 01 21:26 4759 Feb 12 04:50	24°정48'42 21°정21'10 21°정26'32 21°정16'45 17°정50'33 13°정37'31 15°정37'34 0°≈ 16°≈33'34	1°30'44 0.26688 AU	max. Earth dist.	4761 Jun 13 13:09 4761 Jun 17 08:08 4761 Jun 23 05:51 4761 Jul 11 16:10 4761 Jul 18 07:01 4761 Aug 05 02:23 4761 Aug 29 15:06	25° II 18'56 0° II 7'22 0° II 8° II 7'22 0° II 8° II 8'26 0° II 90°	1.72870 AU
minimum elong min. Earth dist. morning rise direct greatest brilliancy	4759 Jan 06 10:42 4759 Jan 12 08:45 4759 Jan 12 05:14 4759 Jan 12 11:39 4759 Jan 18 08:12 4759 Feb 01 21:26 4759 Feb 12 04:50 4759 Mar 06 15:27	24°전48'42 21°전21'10 21°전26'32 21°전16'45 17°전50'33 13°전37'31 15°전37'34 0°≈ 16°≈33'34 0°米	1°30'44 0.26688 AU -4.9m	max. Earth dist. asc. node evening rise	4761 Jun 13 13:09 4761 Jun 17 08:08 4761 Jun 23 05:51 4761 Jul 11 16:10 4761 Jul 18 07:01 4761 Aug 05 02:23 4761 Aug 29 15:06 4761 Sep 23 07:29	25°M18'56 0°S 7°S17'22 0°A 8°A08'26 0°M 0°A	1.72870 AU
minimum elong min. Earth dist. morning rise direct greatest brilliancy	4759 Jan 06 10:42 4759 Jan 12 08:45 4759 Jan 12 05:14 4759 Jan 12 11:39 4759 Jan 18 08:12 4759 Feb 01 21:26 4759 Feb 12 04:50 4759 Mar 06 15:27 4759 Mar 24 09:37	24°정48'42 21°정21'10 21°정26'32 21°정16'45 17°정50'33 13°정37'31 15°정37'34 0°≈ 16°≈33'34	1°30'44 0.26688 AU -4.9m	max. Earth dist. asc. node evening rise	4761 Jun 13 13:09 4761 Jun 17 08:08 4761 Jun 23 05:51 4761 Jul 11 16:10 4761 Jul 18 07:01 4761 Aug 05 02:23 4761 Aug 29 15:06 4761 Sep 23 07:29 4761 Oct 12 20:33	25° II 18'56 0° II 7'22 0° II 8° II 7'22 0° II 8° II 80'26 0° II 0° II 23° II 34'14	1.72870 AU
minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	4759 Jan 06 10:42 4759 Jan 12 08:45 4759 Jan 12 05:14 4759 Jan 12 11:39 4759 Jan 18 08:12 4759 Feb 01 21:26 4759 Feb 12 04:50 4759 Mar 06 15:27 4759 Mar 24 09:37 4759 Apr 06 06:35	24°전48'42 21°전21'10 21°전26'32 21°전16'45 17°전50'33 13°전37'31 15°전37'34 0°≈ 16°≈33'34 0°米	1°30'44 0.26688 AU -4.9m	max. Earth dist. asc. node evening rise	4761 Jun 13 13:09 4761 Jun 17 08:08 4761 Jun 23 05:51 4761 Jul 11 16:10 4761 Jul 18 07:01 4761 Aug 05 02:23 4761 Aug 29 15:06 4761 Sep 23 07:29 4761 Oct 12 20:33 4761 Oct 18 05:12	25° II 18'56 0° II 7'22 0° II 8° II 7'22 0° II 8° II 08'26 0° II 0° II 23° III 34'14 0° II 4	1.72870 AU
minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	4759 Jan 06 10:42 4759 Jan 12 08:45 4759 Jan 12 05:14 4759 Jan 12 11:39 4759 Jan 18 08:12 4759 Feb 01 21:26 4759 Feb 12 04:50 4759 Mar 06 15:27 4759 Mar 24 09:37 4759 Apr 06 06:35 4759 Apr 28 01:35	24°정48'42 21°정21'10 21°정26'32 21°정16'45 17°정50'33 13°정37'31 15°정37'34 0°≈ 16°≈33'34 0° 米 24° 米 14'22	1°30'44 0.26688 AU -4.9m	max. Earth dist. asc. node evening rise	4761 Jun 13 13:09 4761 Jun 17 08:08 4761 Jun 23 05:51 4761 Jul 11 16:10 4761 Jul 18 07:01 4761 Aug 05 02:23 4761 Aug 29 15:06 4761 Sep 23 07:29 4761 Oct 12 20:33 4761 Oct 18 05:12 4761 Nov 12 10:27	25° \$\Pi\$18'56 0° \$\Sigma\$7° \$\Sigma\$17'22 0° \$\Omega\$8° \$\Omega\$08'26 0° \$\mathref{m}\$\$008'26 0° \$\mathref{m}\$\$00 \$\mathref{m}\$\$\$00 \$\mathref{m}\$\$00 \$\mathref{m}\$\$\$00 \$\mathref{m}\$\$\$00 \$\mathref{m}\$\$\$00 \$\mathref{m}\$\$\$00 \$\mathref{m}\$\$\$00 \$\mathref{m}\$\$\$00 \$\mathref{m}\$\$\$00 \$\mathref{m}\$\$\$00 \$\mathref{m}\$\$\$00 \$\mathref{m}\$\$\$\$00 \$\mathref{m}\$\$\$\$00 \$\mathref{m}\$\$\$\$00 \$\mathref{m}\$\$\$\$00 \$\mathref{m}\$\$\$\$\$\$\$00 \$\mathref{m}\$	1.72870 AU

			0.00	- ),		, [8-	
evening max el	4762 Jan 14 23:13	11° <b>)</b> 22′26	47°08'46		4764 May 14 05:54	0° <b>႘</b>	
asc. node	4762 Feb 02 22:32	29° <b>)</b> €04'39			4764 Jun 07 15:19	$\Pi^{\circ}0$	
	4762 Feb 04 01:22	$0^{\circ}\mathbf{Y}$			4764 Jul 02 01:17	0°ಲ	
greatest brilliancy	4762 Feb 24 14:47	12° <b>Y</b> '48'03	-4.9m	morning set	4764 Jul 12 17:32	13°906'52	
retrograde	4762 Mar 06 18:17	14° <b>Y</b> 45'44		asc. node	4764 Jul 20 17:36	22° <b>©</b> 56'37	
evening set	4762 Mar 24 16:21	8° <b>Y</b> 32'37			4764 Jul 26 11:27	$0^{\circ}\Omega$	
inferior conj	4762 Mar 27 11:35	6° <b>Ƴ</b> 49'19	9°01'40	max. Earth dist.	4764 Aug 17 17:43	27° <b>Ω</b> 22'22	1.73466 AU
minimum elong	4762 Mar 27 10:00	6° <b>Y</b> 51'46	9°01'38		C		
min. Earth dist.	4762 Mar 26 23:15	7° <b>Υ</b> ′08'24	0.27254 AU	superior conj	4764 Aug 18 14:02	28° <b>Ω</b> 24'53	1°01'50
morning rise	4762 Mar 30 03:47	5° <b>Y</b> 10′56		minimum elong	4764 Aug 18 05:02	27° <b>Ω</b> 57'11	1°01'31
Č	4762 Apr 10 05:15	30° <b>₹</b> ₩		C	4764 Aug 19 20:57	0° m/	
direct	4762 Apr 17 02:48	29° <b>∺</b> 01'17			4764 Sep 13 05:28	0∘ <u>⊽</u>	
	4762 Apr 24 05:50	0° <b>Υ</b>		evening rise	4764 Sep 23 14:45	12° <b>≏</b> 48′06	
greatest brilliancy	4762 Apr 26 07:39	0° <b>Υ</b> 37'28	-4.9m	C	4764 Oct 07 13:34	0° <b>M</b> .	
desc. node	4762 May 25 13:19	19° <b>Ƴ</b> 59'37			4764 Oct 31 22:08	0° <b>∡</b> ¹	
	4762 Jun 05 06:21	0° <b>႘</b>		desc. node	4764 Nov 09 08:32	10° <b>∡</b> ¹22'39	
morning max el	4762 Jun 05 21:11	0° <b>8</b> 36'14	46°17'55		4764 Nov 25 07:43	0°₹	
	4762 Jul 03 22:18	0°П			4764 Dec 19 18:47	0° <b>≈</b>	
	4762 Jul 30 13:17	0ಂತಾ			4765 Jan 13 09:13	0° <b>)</b> €	
	4762 Aug 25 07:06	$0^{\circ}\Omega$			4765 Feb 07 08:37	0° <b>Υ</b>	
asc. node	4762 Sep 15 15:15	25° <b>Ω</b> 23'41		asc. node	4765 Mar 02 10:14	26° <b>Ƴ</b> 47'40	
	4762 Sep 19 11:13	0° m)			4765 Mar 05 06:29	0°8	
	4762 Oct 14 04:34	0∘ <b>⊽</b>		evening max el	4765 Mar 28 03:06		46°46'18
	4762 Nov 07 13:36	0° <b>™</b>		evening max or	4765 Apr 02 17:26	0°II	10 10 10
morning set	4762 Nov 30 19:39	28°M53'32		greatest brilliancy	4765 May 06 17:46	24° <b>I</b> 53'06	-4.8m
morning sec	4762 Dec 01 16:59	0° <b>⊼</b>		retrograde	4765 May 17 09:11	26° <b>∏</b> 59'34	
	4762 Dec 25 16:56	∞ੇਂਤ		evening set	4765 Jun 01 23:37	22° <b>I</b> 14'24	
desc. node	4762 Dec 25 16:36 4763 Jan 05 06:10	00 13° <b>る</b> 13'31		inferior conj	4765 Jun 07 14:22	18° <b>I</b> I50'04	3°26'36
max. Earth dist.	4763 Jan 07 08:02		1.71387 AU	minimum elong	4765 Jun 07 21:33	18° <b>Ⅱ</b> 38'47	3°24'33
max. Earth dist.	4/03 Jan 0/ 00.02	13 04734	1./130/ AC	min. Earth dist.	4765 Jun 07 10:51	18° <b>Ⅱ</b> 55'34	0.28197 AU
superior conj	4763 Jan 09 06:35	18° <b>る</b> 15'55	-0°00'43	morning rise	4765 Jun 13 19:56	16 <b>Ⅱ</b> 35 54 15° <b>Ⅱ</b> 05'57	0.28197 AU
minimum elong	4763 Jan 09 04:06	18°පි08'07		desc. node	4765 Jun 22 01:09	13 <b>H</b> 0337	
behind sun begin	4763 Jan 08 07:06	18 30807 17° <b>3</b> 02'14	0 0933	direct	4765 Jun 28 18:26	10° <b>Ⅱ</b> 46′28	
behind sun end	4763 Jan 10 01:06	17 <b>ප</b> 02 14		greatest brilliancy	4765 Jul 08 15:47	12° <b>∏</b> 32'48	-4.7m
bennia sun ena	4763 Jan 18 14:54	0°≈		greatest offinancy	4765 Aug 04 20:07	0°95	-4./111
	4763 Feb 11 11:49	0 <b>∞</b> 0° <b>∀</b>		morning max el	4765 Aug 16 12:17	10° <b>©</b> 34'43	45°43'41
evening rise	4763 Feb 19 01:54	9° <b>)</b> 32'11		morning max ci	4765 Sep 04 18:03	0°Ω	43 43 41
evening rise	4763 Mar 07 09:02	0°Υ			4765 Oct 01 23:54	0° <b>m</b> )	
	4763 Mar 31 08:41	0°8		asc. node	4765 Oct 13 03:18	12° Mp 49'02	
	4763 Apr 24 13:32	0°II		asc. node	4765 Oct 27 18:16	ე∘ <u>ი</u>	
asc. node	4763 Apr 28 08:08	4° <b>∏</b> 38'46			4765 Nov 21 16:24	0° <b>™</b>	
ase. Hode	4763 May 19 02:33	0°©			4765 Dec 16 02:18	0° <b>⊼</b> ″	
	4763 Jun 13 03:39	0°N			4766 Jan 09 05:06	0°ਰ	
	4763 Jul 09 00:07	0° <b>m</b> )		desc. node	4766 Feb 01 17:56	0 0 29° <b>る</b> 28'24	
	4763 Aug 05 10:26	0° <del>ت</del>		dese. Hode	4766 Feb 02 04:00	0° <b>≈</b>	
desc. node	4763 Aug 17 22:48	0 <b>—</b> 12° <b>Ω</b> 37'47		morning set	4766 Feb 13 14:31	14° <b>≈</b> 21'54	
evening max el	4763 Aug 20 06:41	14° <b>⊆</b> 52'28	45°33'48	morning set	4766 Feb 26 01:01	0° <b>∀</b>	
evening mun er	4763 Sep 06 12:27	0°M	55 .0		4766 Mar 21 21:45	0° <b>Υ</b>	
greatest brilliancy	4763 Sep 28 10:13	12°M51'05	-4.7m		1700 Mar 21 21.13	0 1	
retrograde	4763 Oct 07 20:57	14°M27'30	,	superior conj	4766 Mar 26 21:32	6° <b>Y</b> 16′05	-1°26'39
evening set	4763 Oct 25 11:53	8°M39'28		minimum elong	4766 Mar 26 19:18	6° <b>Υ</b> 09'03	
inferior conj	4763 Oct 29 02:17	6°M27'09	-7°58'47	max. Earth dist.	4766 Mar 29 17:41	9° <b>Υ</b> 49'54	1.71394 AU
minimum elong	4763 Oct 29 09:50	6°M15'24		man. Darun diot.	4766 Apr 14 19:58	0°8	1.,,155,1110
min. Earth dist.	4763 Oct 29 22:47	5°M55'14		evening rise	4766 May 06 04:26	26° <b>8</b> 38'16	
morning rise	4763 Nov 02 07:28	3°M52'20	0.20303110	evening rise	4766 May 08 21:21	0°II	
morning rise	4763 Nov 10 04:15	30°R <b>Ω</b>		asc. node	4766 May 25 20:03	20° <b>Ⅱ</b> 59'55	
direct	4763 Nov 19 10:58	28° <b>£</b> 16′20		450. 11040	4766 Jun 02 03:11	0.00 To 200	
	4763 Nov 29 01:35	0°M			4766 Jun 26 14:22	$0^{\circ}\Omega$	
greatest brilliancy	4763 Nov 30 13:53	0°M33'33	-4.8m		4766 Jul 21 08:12	0° <b>m</b> )	
asc. node	4763 Dec 09 00:48	4°M51'05			4766 Aug 15 11:26	0∘ <del>⊽</del>	
	4764 Jan 07 21:25	0° <b>∡</b> 7			4766 Sep 10 05:27	0° <b>™</b>	
morning max el	4764 Jan 08 19:29	0° <b>₹</b> 55'33	46°41'37	desc. node	4766 Sep 14 10:40	4° <b>M</b> 49'05	
mun or	4764 Feb 04 16:14	0°る		2000. 11000	4766 Oct 07 01:34	0° <b>⊼</b>	
	4764 Mar 01 09:12	0°≈		evening max el	4766 Oct 31 14:29	25° <b>∡</b> ¹22'55	46°19'11
	4764 Mar 26 06:52	0° <b>)</b> €		2. J III.A OI	4766 Nov 05 10:39	23 × 22 33	, .,
desc. node	4764 Mar 29 15:42	4° <b>)</b> €05'53		greatest brilliancy	4766 Dec 10 16:20	24° <b>る</b> 53'28	-4.9m
Less. House	4764 Apr 19 20:02	0°Υ		retrograde	4766 Dec 20 06:11	24 03328 26° <b>る</b> 36'33	,
	pr 15 20.02	- •					

			2.08.2.2.2	- ),		, F	
evening set	4767 Jan 03 14:22	22° <b>ප</b> 34'18		minimum elong	4769 Jun 08 18:14	20° <b>Ⅱ</b> 04'29	0°32'12
asc. node	4767 Jan 05 12:39	21° <b>る</b> 30'50		max. Earth dist.	4769 Jun 11 08:47	23° <b>Ⅲ</b> 17′58	1.72825 AU
inferior conj	4767 Jan 09 21:16	18° <b>る</b> 55'16	1°07'43		4769 Jun 16 18:53	0ං <b>ම</b>	
minimum elong	4767 Jan 09 18:40	18° <b>る</b> 59'14	1°06'52	asc. node	4769 Jun 22 07:46	6° <b>9</b> 50'12	
min. Earth dist.	4767 Jan 10 01:32	18° <b>る</b> 48'47	0.26717 AU		4769 Jul 11 02:54	$0^{\circ}\Omega$	
morning rise	4767 Jan 15 22:30	15° <b>る</b> 22'33		evening rise	4769 Jul 16 00:34	6° <b>Ω</b> 01'49	
direct	4767 Jan 30 10:31	11° <b>ろ</b> 10'42			4769 Aug 04 13:14	0° <b>m</b> )	
greatest brilliancy	4767 Feb 09 19:34	13° <b>る</b> 12'48	-4.9m		4769 Aug 29 02:11	0∘ <b>亚</b>	
	4767 Mar 07 00:36	0°≈	46057110		4769 Sep 22 19:00	0°M	
morning max el	4767 Mar 21 23:56	14° <b>≈</b> 11'11 0° <b>∀</b>	46°5/18	desc. node	4769 Oct 11 22:40 4769 Oct 17 17:25	23°M.04'26 0° <i>₹</i> 7	
desc. node	4767 Apr 06 01:18 4767 Apr 27 03:42	23° <b>∺</b> 36'23			4769 Nov 11 23:46	0 x.	
desc. Hode	4767 May 02 16:58	23 <b>γ</b> (3023			4769 Dec 07 19:20	0°≈	
	4767 May 28 06:46	0°8			4770 Jan 03 21:21	0° <b>∀</b>	
	4767 Jun 22 09:53	0°II		evening max el	4770 Jan 12 14:08	9° <b>₩</b> 01'27	47°08'01
	4767 Jul 17 07:49	0°©		asc. node	4770 Feb 02 00:28	27° <b>)</b> 54'14	
	4767 Aug 11 01:55	$0^{\circ}\Omega$			4770 Feb 04 16:00	$0^{\circ}$ Y	
asc. node	4767 Aug 18 05:25	8° <b>Ω</b> 41'50		greatest brilliancy	4770 Feb 22 04:14	10° <b>Y</b> ′22'50	-4.9m
	4767 Sep 04 15:51	0° <b>m</b>		retrograde	4770 Mar 04 07:56	12° <b>Y</b> ′20'17	
morning set	4767 Sep 19 21:14	18° <b>m</b> 41'35		evening set	4770 Mar 22 03:44	6° <b>Y</b> 10′50	
	4767 Sep 29 01:26	0∘ <b>⊽</b>		min. Earth dist.	4770 Mar 24 11:50	4° <b>Υ</b> 44'44	0.27217 AU
	4767 Oct 23 07:22	$0^{\circ}$ M.		inferior conj	4770 Mar 25 00:50	4° <b>Υ</b> 24'35	8°59'52
max. Earth dist.	4767 Oct 23 20:21	0°M40'14	1.72687 AU	minimum elong	4770 Mar 24 22:19	4° <b>Y</b> ′28′29	8°59'46
		***** ****		morning rise	4770 Mar 27 17:03	2°Υ46'06	
superior conj	4767 Oct 26 12:09		1°19'22		4770 Apr 01 16:27	30° <b>₹</b> ₩	
minimum elong	4767 Oct 26 18:47	4°M18'44	1°19'16	direct	4770 Apr 14 16:14	26° <b>)</b> € 37'24	4.0
avanina risa	4767 Nov 16 10:56	0° <b>₰</b> 21° <b>₰</b> 26'40		greatest brilliancy	4770 Apr 23 19:56	28° <b>)</b> 12'41 0° <b>°</b>	-4.9m
evening rise desc. node	4767 Dec 03 16:18 4767 Dec 07 20:24	21 <b>x</b> · 20 40 26° <b>x</b> 38'28		desc. node	4770 Apr 28 07:04 4770 May 24 15:21	18° <b>Υ</b> 59'29	
desc. Hode	4767 Dec 10 13:06	20 x 36 26		morning max el	4770 Jun 03 10:43	28° <b>Υ</b> 15'15	46°19'25
	4768 Jan 03 14:27	0° <b>≈</b>		morning max cr	4770 Jun 05 05:13	0°8	40 1723
	4768 Jan 27 15:43	0° <b>)</b>			4770 Jul 03 14:26	0°II	
	4768 Feb 20 18:52	$0^{\circ}\mathbf{Y}$			4770 Jul 30 02:53	0ಂತಾ	
	4768 Mar 16 03:42	0°8			4770 Aug 24 19:23	$0^{\circ}\Omega$	
asc. node	4768 Mar 29 22:14	16° <b>8</b> 43'07		asc. node	4770 Sep 14 17:24	24° <b>Ω</b> 55'10	
	4768 Apr 10 00:28	$\Pi^{\circ}0$			4770 Sep 18 22:46	0° <b>m</b>	
	4768 May 05 20:00	0°€			4770 Oct 13 15:43	0∘ <b>⊽</b>	
	4768 Jun 02 16:59	$0^{\circ}\Omega$			4770 Nov 07 00:34	0° <b>M</b>	
evening max el	4768 Jun 07 01:13	4° <b>Ω</b> 18'30	45°49'39	morning set	4770 Nov 28 10:24	26°M35'52	
areatest brilliansy	4768 Jul 09 05:48	0° Mp 2° Mp 42′42	4.7		4770 Dec 01 03:54	0° <b>ヹ</b>	
greatest brilliancy desc. node	4768 Jul 15 03:32 4768 Jul 19 13:01	4° Mp 05'09	-4./m	desc. node	4770 Dec 25 03:53 4771 Jan 04 08:08	12°る45'24	
retrograde	4768 Jul 26 04:20	4° My 54'45		max. Earth dist.	4771 Jan 04 08:08 4771 Jan 04 14:04	12 843 24 13° <b>る</b> 04'00	1.71417 AU
evening set	4768 Aug 11 03:00	0°1000'37		max. Lartii dist.	4//1 Juli 04 14.04	13 00400	1.71417710
evening sec	4768 Aug 11 03:26	30°R <b>Ω</b>		superior conj	4771 Jan 06 18:26	15° <b>පි</b> 48'14	-0°05'54
inferior conj	4768 Aug 16 16:35	26° <b>Ω</b> 38'03	-6°02'00	minimum elong	4771 Jan 06 16:56	15° <b>る</b> 43'30	
minimum elong	4768 Aug 16 06:44	26° <b>Ω</b> 53'29		behind sun begin	4771 Jan 05 16:48	14° <b>る</b> 27'49	
min. Earth dist.	4768 Aug 16 08:21	26° <b>Ω</b> 50'57	0.29066 AU	behind sun end	4771 Jan 07 17:04	16° <b>る</b> 59'12	
morning rise	4768 Aug 21 10:37	23° <b>Ω</b> 43'49			4771 Jan 18 01:52	0° <b>≈</b>	
direct	4768 Sep 07 06:42	18° <b>Ω</b> 21'13			4771 Feb 10 22:50	0° <b>)</b> €	
greatest brilliancy	4768 Sep 17 12:29	20° <b>Ω</b> 14'55	-4.7m	evening rise	4771 Feb 16 12:45	7° <b>∺</b> 00'47	
	4768 Oct 04 20:15	0°Щ			4771 Mar 06 20:07	0° <b>Υ</b>	
morning max el	4768 Oct 26 09:11	18° <b>m</b> 40'01	45°56'03		4771 Mar 30 19:55	0° <b>B</b>	
ī	4768 Nov 06 14:56	0∘ <b>ʊ</b>		,	4771 Apr 24 01:01	0°II	
asc. node	4768 Nov 09 15:04	3° <b>₽</b> 09'29 0° <b>I</b> L		asc. node	4771 Apr 27 10:09	4°∏09'33 0° <b>©</b>	
	4768 Dec 03 20:27 4768 Dec 29 07:59	0°11℃ 0° <b>7</b> 7			4771 May 18 14:30 4771 Jun 12 16:24	0° <b>U</b>	
	4769 Jan 23 00:14	0°중			4771 Juli 12 16.24 4771 Juli 08 14:30	0° <b>m</b> )	
	4769 Feb 16 07:02	0°≈			4771 Aug 05 04:50	0∘ <del>ত</del> الأس	
desc. node	4769 Mar 01 05:50	16° <b>≈</b> 06'18		desc. node	4771 Aug 17 00:54	0 <b>_</b> 11° <b>≏</b> 49'26	
	4769 Mar 12 09:15	0° <b>)</b> €		evening max el	4771 Aug 17 20:35	12° <b>2</b> 36'38	45°33'12
	4769 Apr 05 09:46	0° <b>Υ</b>		<b>5</b>	4771 Sep 07 01:11	0°M	
	4769 Apr 29 10:38	$9^{\circ}$ 8		greatest brilliancy	4771 Sep 26 00:32	10° <b>M</b> 37'16	-4.7m
morning set	4769 Apr 30 19:13	1° <b>8</b> 41'29		retrograde	4771 Oct 05 11:02	12°M13'51	
	4769 May 23 13:26	$\Pi^{\circ}0$		evening set	4771 Oct 23 05:03	6°M22′06	
				inferior conj	4771 Oct 26 17:29	4° <b>™</b> 12'42	
superior conj	4769 Jun 08 11:15	19° <b>Ⅱ</b> 42'53	-0°32'32	minimum elong	4771 Oct 27 00:26	4° <b>M</b> 01'53	8°05'37

i m d r	4551 0 + 25 12 40	20 <b>M</b> 41116	0.20442.444		4774 ) 4 02 17 05	240 12154	
min. Earth dist.	4771 Oct 27 13:40		0.28443 AU	evening rise	4774 May 03 17:05	24° <b>8</b> 13'54	
morning rise	4771 Oct 30 19:30	1°M42'20		_	4774 May 08 08:26	0°II	
	4771 Nov 02 20:08	30° <b>₹</b> Ω		asc. node	4774 May 24 21:58	20° <b>Ⅱ</b> 31'32	
direct	4771 Nov 17 02:08	26° <b>≏</b> 00'59			4774 Jun 01 14:19	0ංම	
greatest brilliancy	4771 Nov 28 05:49	28° <b>≏</b> 18'13	-4.8m		4774 Jun 26 01:43	$0^{\circ}\Omega$	
	4771 Dec 02 01:02	$0^{\circ}$ M			4774 Jul 20 20:00	0° <b>m</b> y	
asc. node	4771 Dec 08 02:47	3°M28'34			4774 Aug 15 00:03	0∘ <b>ত</b>	
morning max el	4772 Jan 06 09:18	28°M33'24	46°40'17		4774 Sep 09 19:34	0° <b>M</b>	
	4772 Jan 07 19:27	0° <b>∡</b> ¹		desc. node	4774 Sep 13 12:44	4° <b>M</b> .13'54	
	4772 Feb 04 08:18	0°ප			4774 Oct 06 18:49	0° <b>∡</b> ¹	
	4772 Feb 29 23:02	0° <b>≈</b>		evening max el	4774 Oct 29 04:29	23° <b>∡</b> °03′06	46°17'11
	4772 Mar 25 19:33	0° <b>∀</b>			4774 Nov 05 13:23	0°ರ	
desc. node	4772 Mar 28 17:49	3° <b>){</b> 34'01		greatest brilliancy	4774 Dec 08 04:43	22° <b>る</b> 27'01	-4.8m
	4772 Apr 19 08:01	$0^{\circ}\Upsilon$		retrograde	4774 Dec 17 19:06	24° <b>ට</b> 10'14	
	4772 May 13 17:26	0°8		evening set	4775 Jan 01 03:16	20° <b>ට</b> 07'16	
	4772 Jun 07 02:32	0°II		asc. node	4775 Jan 04 14:38	18° <b>ろ</b> 09'47	
	4772 Jul 01 12:17	0°©		inferior conj	4775 Jan 07 09:50	16° <b>る</b> 28'33	0°43'28
				· ·			
morning set	4772 Jul 10 10:40	10°958'31		minimum elong	4775 Jan 07 08:10	16° <b>ろ</b> 31'06	
asc. node	4772 Jul 19 19:37	22°529'24		min. Earth dist.	4775 Jan 07 15:06	16° <b>る</b> 20'32	0.26744 AU
	4772 Jul 25 22:19	$0$ $\circ$ $\Omega$		morning rise	4775 Jan 13 12:38	12° <b>る</b> 54'04	
max. Earth dist.	4772 Aug 15 12:07	25° <b>{\</b> 18'06	1.73471 AU	direct	4775 Jan 28 00:07	8° <b>る</b> 43'26	
				greatest brilliancy	4775 Feb 07 09:39	10° <b>る</b> 46'37	-4.9m
superior conj	4772 Aug 16 08:07	26° <b>Ω</b> 19'37	0°59'35		4775 Mar 07 07:33	0° <b>≈</b>	
minimum elong	4772 Aug 15 23:06	25° <b>Ω</b> 51'53	0°59'16	morning max el	4775 Mar 19 14:33	11° <b>≈</b> 48′51	46°57'44
	4772 Aug 19 07:45	O° Mp			4775 Apr 05 19:52	0° <b>∀</b>	
	4772 Sep 12 16:19	0∘ <b>⊽</b>		desc. node	4775 Apr 26 05:38	22° <b>)</b> 57′23	
evening rise	4772 Sep 21 08:31	10° <b>≏</b> 41'20			4775 May 02 07:56	$0^{\circ}\mathbf{\Upsilon}$	
Z .	4772 Oct 07 00:36	0°M			4775 May 27 20:01	0°B	
	4772 Oct 31 09:26	0° <b>⊼</b> ¹			4775 Jun 21 22:08	0°II	
desc. node	4772 Nov 08 10:29	9° <b>х</b> 53'35			4775 Jul 16 19:26	0°©	
dese. Hode	4772 Nov 24 19:24	0°る			4775 Aug 10 13:07	0° <b>U</b>	
		0°≈		asc. node	•	8° <b>Ω</b> 14'26	
	4772 Dec 19 07:00			asc. node	4775 Aug 17 07:33		
	4773 Jan 12 22:12	0° <b>∀</b>			4775 Sep 04 02:50	0° m)	
	4773 Feb 06 22:52	0° <b>Υ</b>		morning set	4775 Sep 17 14:47	16° Mp 34'21	
asc. node	4773 Mar 01 12:24	26° <b>Y</b> 07′23			4775 Sep 28 12:20	0∘ <b>ত</b>	
	4773 Mar 04 23:20	0°8		max. Earth dist.	4775 Oct 21 14:05	28° <b>≏</b> 32'31	1.72730 AU
evening max el	4773 Mar 25 16:41	22° <b>8</b> 06'49	46°48'13		4775 Oct 22 18:18	$0^{\circ}$ M	
	4773 Apr 02 18:26	$\Pi$ $\circ 0$					
greatest brilliancy	4773 May 04 10:20	22° <b>Ⅲ</b> 38'42	-4.8m	superior conj	4775 Oct 24 04:45	1° <b>M</b> 46'51	1°20'33
retrograde	4773 May 15 00:36	24° <b>∏</b> 44'45		minimum elong	4775 Oct 24 10:48	2°M05'35	1°20'27
evening set	4773 May 30 17:22	19° <b>Ⅲ</b> 56′10			4775 Nov 15 21:57	0° <b>∡</b> ¹	
inferior conj	4773 Jun 05 05:47	16° <b>Ⅲ</b> 35'32	3°46'13	evening rise	4775 Dec 01 06:11	19° <b>∡</b> 05'48	
minimum elong	4773 Jun 05 13:32	16° <b>Ⅲ</b> 23'24	3°44'02	desc. node	4775 Dec 06 22:21	26° <b>∡</b> 09'48	
min. Earth dist.	4773 Jun 05 02:48	16° <b>Ⅱ</b> 40'11	0.28169 AU		4775 Dec 10 00:16	ರ∘ರ	
morning rise	4773 Jun 11 10:03	12° <b>Ⅲ</b> 53'14	0.20107110		4776 Jan 03 01:49	0° <b>≈</b>	
desc. node	4773 Jun 21 03:05	9° <b>∏</b> 04'54			4776 Jan 27 03:20	0° <b>∀</b>	
direct	4773 Jun 26 08:50	9° <b>П</b> 04'34 8° <b>П</b> 32'07			4776 Feb 20 06:49	0° <b>Υ</b>	
	4773 Jul 06 07:10	10° <b>Ⅱ</b> 19'15	-4.7m		4776 Mar 15 16:10	0°8	
greatest brilliancy			-4./111	1.			
	4773 Aug 05 00:43	0.22	45044111	asc. node	4776 Mar 29 00:12	16° <b>8</b> 10'03	
morning max el	4773 Aug 14 03:35	8°9522'08	45°44'11		4776 Apr 09 13:54	0°II	
	4773 Sep 04 11:17	$0$ $\circ$ $\Omega$			4776 May 05 11:25	0°®	
	4773 Oct 01 13:54	0°Щ			4776 Jun 02 13:52	$0$ $\circ$ $\Omega$	
asc. node	4773 Oct 12 05:18	12°Mp 16'10		evening max el	4776 Jun 04 17:57	2° <b>Ω</b> 08'18	45°51'18
	4773 Oct 27 06:52	0∘ <b>⊽</b>			4776 Jul 11 10:30	0° <b>m</b> y	
	4773 Nov 21 04:18	$0^{\circ}$ M		greatest brilliancy	4776 Jul 12 19:20	0° <b>m</b> ,32'47	-4.7m
	4773 Dec 15 13:50	0° <b>∡</b> ¹		desc. node	4776 Jul 18 15:07	2° <b>m</b> 14'05	
	4774 Jan 08 16:26	0° <b>ට</b>		retrograde	4776 Jul 23 21:02	2° Mp 45'17	
desc. node	4774 Jan 31 19:58	28° <b>る</b> 59'33		-	4776 Aug 04 15:53	30° <b>₽</b> Ω	
	4774 Feb 01 15:14	0° <b>≈</b>		evening set	4776 Aug 08 16:58	27° <b>Ω</b> 54'58	
morning set	4774 Feb 11 00:26	11° <b>≈</b> 47'00		inferior conj	4776 Aug 14 08:56	24° <b>Ω</b> 28'38	-5°47'41
	.,, 11 00.20			minimum elong	4776 Aug 13 23:10	24° <b>Ω</b> 43'57	
	4774 Feb. 25, 12-11	()° <del>11</del>			1110 11ug 13 43.10	/د د <del>ر</del> تا و د −	ションフェ
	4774 Feb 25 12:11 4774 Mar 21 08:53	0° <b>∀</b>		•	4776 Aug 13 22-57	24° <b>0</b> 12112	0.29047 ATT
	4774 Feb 25 12:11 4774 Mar 21 08:53	0° <b>ℋ</b> 0° <b>Ƴ</b>		min. Earth dist.	4776 Aug 13 23:57	24° N 42'43	0.29047 AU
·	4774 Mar 21 08:53	0° <b>Ƴ</b>	1927/12	min. Earth dist. morning rise	4776 Aug 19 05:35	21° <b>Q</b> 30'36	0.29047 AU
superior conj	4774 Mar 21 08:53 4774 Mar 24 08:31	0°Υ 3°Υ44'58		min. Earth dist. morning rise direct	4776 Aug 19 05:35 4776 Sep 04 23:33	21° <b>Ω</b> 30'36 16° <b>Ω</b> 12'24	
minimum elong	4774 Mar 21 08:53 4774 Mar 24 08:31 4774 Mar 24 05:11	0°Υ 3°Υ44'58 3°Υ34'31	1°26'11	min. Earth dist. morning rise	4776 Aug 19 05:35 4776 Sep 04 23:33 4776 Sep 15 03:18	21°Ω30'36 16°Ω12'24 18°Ω04'32	0.29047 AU -4.7m
	4774 Mar 21 08:53 4774 Mar 24 08:31 4774 Mar 24 05:11 4774 Mar 26 22:24	0°Υ 3°Υ44'58 3°Υ34'31 6°Υ59'14		min. Earth dist. morning rise direct greatest brilliancy	4776 Aug 19 05:35 4776 Sep 04 23:33 4776 Sep 15 03:18 4776 Oct 05 09:05	21° N 30'36 16° N 12'24 18° N 04'32 0° M	-4.7m
minimum elong	4774 Mar 21 08:53 4774 Mar 24 08:31 4774 Mar 24 05:11	0°Υ 3°Υ44'58 3°Υ34'31	1°26'11	min. Earth dist. morning rise direct	4776 Aug 19 05:35 4776 Sep 04 23:33 4776 Sep 15 03:18	21°Ω30'36 16°Ω12'24 18°Ω04'32	

	4776 Nov 06 09:22	0∘ <b>ত</b>			4779 Apr 23 12:32	$\Pi^{\circ}0$	
asc. node	4776 Nov 08 17:02	0 <b>==</b> 2° <b>£</b> 27'19		asc. node	4779 Apr 26 12:06	0 <u>П</u> 3°П40'02	
asc. node	4776 Dec 03 11:02	0°M		asc. Houc	4779 May 18 02:26	0°95	
	4776 Dec 28 21:01	0° <b>x</b> 7⊓			4779 Jun 12 05:09	$0 {\circ} \mathcal{U}$	
	4777 Jan 22 12:30	°5			4779 Jul 08 04:59	0° m)	
	4777 Feb 15 18:51	0° <b>≈</b>			4779 Aug 04 23:39	0∘ <b>⊽</b>	
desc. node	4777 Feb 28 07:58	15° <b>≈</b> 36'43		evening max el	4779 Aug 15 10:13	10° <b>≏</b> 20'26	45°32'44
	4777 Mar 11 20:46	0° <b>∀</b>		desc. node	4779 Aug 16 03:00	11° <b>≏</b> 00'29	
	4777 Apr 04 21:02	$0^{\circ}\mathbf{\Upsilon}$			4779 Sep 07 18:02	$0^{\circ}$ M.	
morning set	4777 Apr 28 08:14	29° <b>Ƴ</b> 17'57		greatest brilliancy	4779 Sep 23 14:34	8°M23'41	-4.7m
	4777 Apr 28 21:44	$8^{\circ}$ 0		retrograde	4779 Oct 03 01:36	10° <b>M</b> ₀01'07	
	4777 May 23 00:24	$\Pi^{\circ}0$		evening set	4779 Oct 20 22:03	4° <b>M</b> 05'45	
				inferior conj	4779 Oct 24 08:46	1° <b>M</b> 59'02	-8°13'03
superior conj	4777 Jun 06 02:20	17° <b>Ⅲ</b> 27'11	-0°35'45	minimum elong	4779 Oct 24 15:05	1° <b>ጤ</b> 49'11	8°12'26
minimum elong	4777 Jun 06 09:54	17° <b>Ⅱ</b> 50'38	0°35'25	min. Earth dist.	4779 Oct 25 04:30	1°M28'18	0.28501 AU
max. Earth dist.	4777 Jun 09 04:49	21° <b>Ⅱ</b> 17'41	1.72779 AU		4779 Oct 27 13:52	30° <b>₹</b> Ω	
	4777 Jun 16 05:47	$0$ $\circ$ $\odot$		morning rise	4779 Oct 28 07:48	29° <b>≏</b> 33'06	
asc. node	4777 Jun 21 09:50	6° <b>©</b> 22'58		direct	4779 Nov 14 17:20	23° <b>≏</b> 46'23	
	4777 Jul 10 13:49	$0^{\circ}\Omega$		greatest brilliancy	4779 Nov 25 21:52	26° <b>≏</b> 04'03	-4.8m
evening rise	4777 Jul 13 18:05	3° <b>£</b> 54'34			4779 Dec 03 19:04	0°M₊	
	4777 Aug 04 00:13	0° <b>т</b> р		asc. node	4779 Dec 07 04:47	2°M09'25	
	4777 Aug 28 13:24	0∘ <b>ত</b>		morning max el	4780 Jan 03 23:43	26°M13'33	46°38'53
	4777 Sep 22 06:40	0°M			4780 Jan 07 16:27	0° ⊀ <sup>7</sup>	
desc. node	4777 Oct 11 00:38	22°M33'43			4780 Feb 03 23:57	0°る	
	4777 Oct 17 05:50	0° <b>∡</b>			4780 Feb 29 12:38	0° <b>≈</b>	
	4777 Nov 11 13:23	ි. ව°0			4780 Mar 25 08:05	0° <b>)</b> {	
	4777 Dec 07 11:04	0° <b>≈</b>		desc. node	4780 Mar 27 19:44	3° <b>米</b> 01'51 0° <b>Υ</b>	
	4778 Jan 03 17:54	0° <b>∺</b> 6° <b>∺</b> 37'13	47907100		4780 Apr 18 19:53	0°Y	
evening max el	4778 Jan 10 04:06	26°\(\frac{1}{41}\)	4/*0/09		4780 May 13 04:51 4780 Jun 06 13:36	0°U	
asc. node	4778 Feb 01 02:38 4778 Feb 05 12:06	20 <b>π</b> 41 23 0° <b>Υ</b>			4780 Jun 30 23:06	0°€	
greatest brilliancy	4778 Feb 19 18:17	7° <b>Υ</b> 57'18	-4.9m	morning set	4780 Jul 08 03:35	8°\$50'01	
retrograde	4778 Mar 01 21:05	9° <b>Υ</b> 53'48	-4.9111	asc. node	4780 Jul 18 21:42	22° <b>©</b> 03'01	
evening set	4778 Mar 19 14:31	3° <b>Υ</b> 49'03		asc. node	4780 Jul 25 08:58	0°Ω	
•	4770 Will 17 14.51				4700 Jul 25 00.50	0 00	
min Earth dist	4778 Mar 22 00:41	2° <b>℃</b> 19'44	0.27176 AU	max Farth dist	4780 Aug 13 07:49	23°Ω18'26	1 73476 AU
min. Earth dist.	4778 Mar 22 00:41 4778 Mar 22 13:59	2° <b>Y</b> 19'44 1° <b>Y</b> 59'07	0.27176 AU 8°56'58	max. Earth dist.	4780 Aug 13 07:49	23° <b>Ω</b> 18′26	1.73476 AU
inferior conj	4778 Mar 22 13:59	1° <b>Y</b> 59'07	0.27176 AU 8°56'58 8°56'48		C		1.73476 AU 0°57'15
inferior conj minimum elong		1° <b>Υ</b> 59'07 2° <b>Υ</b> 04'26	8°56'58	max. Earth dist. superior conj minimum elong	4780 Aug 14 02:07	24° <b>Ω</b> 14'44	
inferior conj	4778 Mar 22 13:59 4778 Mar 22 10:33	1° <b>Y</b> 59'07	8°56'58	superior conj	C		0°57'15
inferior conj minimum elong	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45	1° <b>Υ</b> 59'07 2° <b>Υ</b> 04'26 0° <b>Υ</b> 19'42	8°56'58	superior conj	4780 Aug 14 02:07 4780 Aug 13 17:08	24° <b>Ω</b> 14'44 23° <b>Ω</b> 47'05	0°57'15
inferior conj minimum elong morning rise	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54	1° <b>Y</b> 59'07 2° <b>Y</b> 04'26 0° <b>Y</b> 19'42 30° <b>R</b> ₩	8°56'58	superior conj	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21	24° N 14'44 23° N 47'05 0° M	0°57'15
inferior conj minimum elong morning rise direct	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56	1° <b>Y</b> 59'07 2° <b>Y</b> 04'26 0° <b>Y</b> 19'42 30° <b>RH</b> 24° <b>H</b> 12'45	8°56'58 8°56'48	superior conj minimum elong	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00	24° <b>\( 1</b> 4'44 23° <b>\( 0</b> 47'05 0° <b>\( 0</b> ) 0° <b>\( 0</b>	0°57'15
inferior conj minimum elong morning rise direct	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39	1°Y59'07 2°Y04'26 0°Y19'42 30°R¥ 24°¥12'45 25°¥47'44	8°56'58 8°56'48	superior conj minimum elong	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27	24° № 14'44 23° № 47'05 0° ₥ 0° ഛ 8° ഛ35'47	0°57'15
inferior conj minimum elong morning rise direct greatest brilliancy	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40	1°Υ59'07 2°Υ04'26 0°Υ19'42 30°R¥ 24°¥12'45 25°¥47'44 0°Υ	8°56'58 8°56'48	superior conj minimum elong	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26	24°A14'44 23°A47'05 0°M 0° ഇ 8° ഇ35'47 0°M	0°57'15
inferior conj minimum elong morning rise direct greatest brilliancy desc. node	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22	1°Υ59'07 2°Υ04'26 0°Υ19'42 30°R¥ 24°¥12'45 25°¥47'44 0°Υ 18°Υ00'30 25°Υ51'08 0° <b>४</b>	8°56'58 8°56'48	superior conj minimum elong evening rise	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Oct 30 20:32	24° \$\alpha 14'44 23° \$\alpha 47'05 0° m 0° \dolds 8° \dolds 35'47 0° m 0° \$\alpha'\$	0°57'15
inferior conj minimum elong morning rise direct greatest brilliancy desc. node	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09	1°Y59'07 2°Y04'26 0°Y19'42 30°R <del>X</del> 24° <del>X</del> 12'45 25° <del>X</del> 47'44 0°Y 18°Y00'30 25°Y51'08 0° <del>X</del> 0° <del>X</del>	8°56'58 8°56'48	superior conj minimum elong evening rise	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Oct 30 20:32 4780 Nov 07 12:30	24° £14'44 23° £47'05 0° m 0° £ 8° £35'47 0° m 0° \$7 9° \$725'23 0° ₹ 0° \$€	0°57'15
inferior conj minimum elong morning rise direct greatest brilliancy desc. node	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jun 05 03:14 4778 Jul 03 06:19 4778 Jul 29 16:22	1°Υ59'07 2°Υ04'26 0°Υ19'42 30°R¥ 24°¥12'45 25°¥47'44 0°Υ 18°Υ00'30 25°Υ51'08 0°Β 0°Π 0°©	8°56'58 8°56'48	superior conj minimum elong evening rise	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Oct 30 20:32 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58	24° £14'44 23° £047'05 0° m 0° Ω 8° Ω35'47 0° m 0° \$\tilde{x}\$ 9° \$\tilde{x}\$25'23 0° \$\tilde{x}\$ 0° \$\tilde{x}\$ 0° \$\tilde{x}\$	0°57'15
inferior conj minimum elong morning rise direct greatest brilliancy desc. node morning max el	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jun 05 03:14 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38	1°Y59'07 2°Y04'26 0°Y19'42 30°RH 24°H12'45 25°H47'44 0°Y 18°Y00'30 25°Y51'08 0°B 0°B 0°B	8°56'58 8°56'48	superior conj minimum elong evening rise desc. node	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Oct 30 20:32 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00	24° £14'44 23° £047'05 0° m 0° Ω 8° Ω35'47 0° m 0° 🗷 9° 🗷 25'23 0° ♂ 0° ≈ 0° 升 0° ጕ	0°57'15
inferior conj minimum elong morning rise direct greatest brilliancy desc. node	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jun 05 03:14 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38 4778 Sep 13 19:22	1°Y59'07 2°Y04'26 0°Y19'42 30°RH 24°H12'45 25°H47'44 0°Y 18°Y00'30 25°Y51'08 0°H 0°S 0°A 24°R26'11	8°56'58 8°56'48	superior conj minimum elong evening rise	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Oct 30 20:32 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00 4781 Feb 28 14:18	24° € 14'44 23° € 47'05 0° m 0° Ω 8° Ω 35'47 0° M 0° ¾ 9° ¾ 25'23 0° ⋈ 0° ⋈ 0° ⋈ 0° ⋈ 0° ⋈ 0° ⋈	0°57'15
inferior conj minimum elong morning rise direct greatest brilliancy desc. node morning max el	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jun 05 03:14 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38 4778 Sep 13 19:22 4778 Sep 18 10:19	1°Y59'07 2°Y04'26 0°Y19'42 30°RH 24°H12'45 25°H47'44 0°Y 18°Y00'30 25°Y51'08 0°H 0°S 0°A 24°A26'11	8°56'58 8°56'48	superior conj minimum elong evening rise desc. node	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Oct 30 20:32 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00 4781 Feb 28 14:18 4781 Mar 04 16:19	24° \$\alpha 14'44 23° \$\alpha 47'05 0° m 0° \oldsymbol{n} 8° \oldsymbol{n} 35'47 0° m 0° \ntilde{x} 9° \ntilde{x} 25'23 0° \oldsymbol{n} 0° \times	0°57'15 0°56'56
inferior conj minimum elong morning rise direct greatest brilliancy desc. node morning max el	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jun 05 03:14 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38 4778 Sep 13 19:22 4778 Sep 18 10:19 4778 Oct 13 02:52	1°Y59'07 2°Y04'26 0°Y19'42 30°RH 24°H12'45 25°H47'44 0°Y 18°Y00'30 25°Y51'08 0°H 0°S 0°A 24°A26'11 0°M 0°S	8°56'58 8°56'48	superior conj minimum elong evening rise desc. node	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Oct 30 20:32 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00 4781 Feb 28 14:18 4781 Mar 04 16:19 4781 Mar 23 06:48	24° \$\alpha 14'44 23° \$\alpha 47'05 0° m 0° \omega 8° \omega 35'47 0° \mathbb{M} 0° \nabla 9° \nabla 25'23 0° \to 0° \to	0°57'15
inferior conj minimum elong morning rise direct greatest brilliancy desc. node morning max el	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38 4778 Sep 13 19:22 4778 Sep 18 10:19 4778 Oct 13 02:52 4778 Nov 06 11:31	1°Y59'07 2°Y04'26 0°Y19'42 30°RH 24°H12'45 25°H47'44 0°Y 18°Y00'30 25°Y51'08 0°H 0°S 0°A 24°A26'11 0°M 0°S 0°M	8°56'58 8°56'48	superior conj minimum elong evening rise desc. node asc. node evening max el	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Oct 30 20:32 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00 4781 Feb 28 14:18 4781 Mar 04 16:19 4781 Mar 23 06:48 4781 Apr 02 20:39	24° \$\alpha 14'44 23° \$\alpha 47'05 0° m 0° \omega 8° \omega 35'47 0° m 0° \$\tilde{\sigma}\$ 9° \$\tilde{\sigma} 25'23 0° \$\tilde{\sigma}\$ 0° \$\tilde{\sigma}\$ 0° \$\tilde{\sigma}\$ 0° \$\tilde{\sigma}\$ 0° \$\tilde{\sigma}\$ 19° \$\tilde{\sigma} 46'29 0° \$\tilde{\sigma}\$	0°57'15 0°56'56 46°49'59
inferior conj minimum elong morning rise direct greatest brilliancy desc. node morning max el	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jun 05 03:14 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38 4778 Sep 13 19:22 4778 Sep 18 10:19 4778 Oct 13 02:52 4778 Nov 06 11:31 4778 Nov 26 01:20	1°Y59'07 2°Y04'26 0°Y19'42 30°RH 24°H12'45 25°H47'44 0°Y 18°Y00'30 25°Y51'08 0°H 0°S 0°A 24°A26'11 0°M 0°S 0°M 24°M18'51	8°56'58 8°56'48	superior conj minimum elong evening rise desc. node asc. node evening max el greatest brilliancy	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Oct 30 20:32 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00 4781 Feb 28 14:18 4781 Mar 04 16:19 4781 Mar 23 06:48 4781 Apr 02 20:39 4781 May 02 02:16	24° \$\alpha 14'44 23° \$\alpha 47'05 0° \$\mathbb{m}\$ 0° \$\alpha\$ 8° \$\alpha 35'47 0° \$\mathbb{m}\$ 0° \$\nabla\$ 0° \$\nabla\$ 0° \$\mathbb{m}\$ 0° \$\mathbb{m}\$ 0° \$\mathbb{m}\$ 0° \$\mathbb{m}\$ 19° \$\mathbb{M}\$ 46'29 0° \$\mathbb{m}\$ 20° \$\mathbb{m}\$ 23'27	0°57'15 0°56'56
inferior conj minimum elong morning rise direct greatest brilliancy desc. node morning max el	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jun 05 03:14 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38 4778 Sep 13 19:22 4778 Sep 18 10:19 4778 Oct 13 02:52 4778 Nov 06 11:31 4778 Nov 26 01:20 4778 Nov 30 14:48	1°Y59'07 2°Y04'26 0°Y19'42 30°RH 24°H12'45 25°H47'44 0°Y 18°Y00'30 25°Y51'08 0°B	8°56'58 8°56'48	superior conj minimum elong evening rise desc. node asc. node evening max el greatest brilliancy retrograde	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Oct 30 20:32 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00 4781 Feb 28 14:18 4781 Mar 04 16:19 4781 Mar 23 06:48 4781 Apr 02 20:39 4781 May 02 02:16 4781 May 12 16:21	24° \$\mathcal{\Omega} 14'44 23° \$\mathcal{\Omega} 47'05 0° \$\mathcal{\Omega} 8° \cdot \cdot 35'47 0° \$\mathcal{\Omega} 9° \$\mathcal{\Omega} 25'23 0° \$\mathcal{\Omega} 0° \$\mathcal{\Omega} 0° \$\mathcal{\Omega} 19° \$\mathcal{\Omega} 46'29 0° \$\mathcal{\Omega} 19° \$\mathcal{\Omega} 46'29 0° \$\mathcal{\Omega} 20° \$\mathcal{\Omega} 23'27 22° \$\mathcal{\Omega} 29'43	0°57'15 0°56'56 46°49'59
inferior conj minimum elong morning rise  direct greatest brilliancy  desc. node morning max el  asc. node	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jun 05 03:14 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38 4778 Sep 13 19:22 4778 Nov 13 02:52 4778 Nov 06 11:31 4778 Nov 26 01:20 4778 Nov 30 14:48 4778 Dec 24 14:49	1°Y59'07 2°Y04'26 0°Y19'42 30°R <del>X</del> 24° <del>X</del> 12'45 25° <del>X</del> 47'44 0°Y 18°Y00'30 25°Y51'08 0° <del>X</del> 0° \textsup 24°\textsup 26'11 0° \textsup 0° \textsup 24°\textsup 26'11 0° \textsup 0° \te	8°56'58 8°56'48 -4.9m 46°20'59	superior conj minimum elong evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00 4781 Feb 28 14:18 4781 Mar 04 16:19 4781 Mar 23 06:48 4781 May 02 02:16 4781 May 12 16:21 4781 May 28 11:02	24° \$\alpha 14'44 23° \$\alpha 47'05 0° \$\mathbb{m}\$ 0° \$\oldsymbol{\Pi}\$ 8° \$\oldsymbol{\Pi}\$35'47 0° \$\mathbb{m}\$ 0° \$\nalpha\$ 0° \$\nalpha\$ 0° \$\mathbb{m}\$ 0° \$\mathbb{m}\$ 0° \$\mathbb{m}\$ 0° \$\mathbb{m}\$ 19° \$\mathbb{M}\$46'29 0° \$\mathbb{m}\$ 20° \$\mathbb{m}\$23'27 22° \$\mathbb{m}\$29'43 17° \$\mathbb{m}\$37'25	0°57'15 0°56'56 46°49'59 -4.8m
inferior conj minimum elong morning rise  direct greatest brilliancy  desc. node morning max el  asc. node  morning set  max. Earth dist.	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jun 05 03:14 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38 4778 Sep 13 19:22 4778 Sep 18 10:19 4778 Oct 13 02:52 4778 Nov 06 11:31 4778 Nov 26 01:20 4778 Nov 30 14:48 4778 Dec 24 14:49 4779 Jan 01 21:48	1°Y59'07 2°Y04'26 0°Y19'42 30°R <del>X</del> 24° <del>X</del> 12'45 25° <del>X</del> 47'44 0°Y 18°Y00'30 25°Y51'08 0° <del>X</del> 0° \textsup 24°\textsup 26'11 0° \textsup 0° \textsup 24°\textsup 11 0° \textsup 0° \textsup 0° \textsup 12 0° \textsup 11 0° \textsup 12'\textsup 11 0° \textsup 12'\textsup 11 0° \textsup 12'\textsup 11 0° \textsup 23'27	8°56'58 8°56'48	superior conj minimum elong evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set inferior conj	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00 4781 Feb 28 14:18 4781 Mar 04 16:19 4781 Mar 23 06:48 4781 Apr 02 20:39 4781 May 02 02:16 4781 May 28 11:02 4781 Jun 02 20:57	24° € 14'44 23° € 47'05 0° ₱ 0° £ 8° £ 35'47 0° ₱ 0° ₹ 9° ₹ 25'23 0° ₹ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 19° 846'29 0° Ħ 20° Ħ 23'27 22° Ħ 29'43 17° Ħ 37'25 14° Ħ 20'39	0°57'15 0°56'56 46°49'59 -4.8m 4°05'35
inferior conj minimum elong morning rise  direct greatest brilliancy  desc. node morning max el  asc. node	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jun 05 03:14 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38 4778 Sep 13 19:22 4778 Nov 13 02:52 4778 Nov 06 11:31 4778 Nov 26 01:20 4778 Nov 30 14:48 4778 Dec 24 14:49	1°Y59'07 2°Y04'26 0°Y19'42 30°R <del>X</del> 24° <del>X</del> 12'45 25° <del>X</del> 47'44 0°Y 18°Y00'30 25°Y51'08 0° <del>X</del> 0° \textsup 24°\textsup 26'11 0° \textsup 0° \textsup 24°\textsup 26'11 0° \textsup 0° \te	8°56'58 8°56'48 -4.9m 46°20'59	superior conj minimum elong  evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde evening set inferior conj minimum elong	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00 4781 Feb 28 14:18 4781 Mar 04 16:19 4781 Mar 23 06:48 4781 Apr 02 20:39 4781 May 02 02:16 4781 May 12 16:21 4781 May 28 11:02 4781 Jun 02 20:57 4781 Jun 03 05:14	24° & 14'44 23° & 47'05 0° m 0° 으 8° 으 35'47 0° m 0° ズ 9° ズ 25'23 0° 云 0° 云 0° 云 0° 云 0° 云 0° 云 0° 云 0° 云 19° 云 46'29 0° II 20° II 23'27 22° II 29'43 17° II 37'25 14° II 20'39 14° II 07'42	0°57'15 0°56'56 46°49'59 -4.8m 4°05'35 4°03'18
inferior conj minimum elong morning rise  direct greatest brilliancy  desc. node morning max el  asc. node  morning set  max. Earth dist. desc. node	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jun 05 03:14 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38 4778 Sep 13 19:22 4778 Sep 18 10:19 4778 Oct 13 02:52 4778 Nov 06 11:31 4778 Nov 26 01:20 4778 Nov 30 14:48 4778 Dec 24 14:49 4779 Jan 01 21:48 4779 Jan 03 10:15	1°Y59'07 2°Y04'26 0°Y19'42 30°R	8°56'58 8°56'48 -4.9m 46°20'59	superior conj minimum elong evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00 4781 Feb 28 14:18 4781 Mar 04 16:19 4781 Mar 23 06:48 4781 Apr 02 20:39 4781 May 02 02:16 4781 May 12 16:21 4781 May 28 11:02 4781 Jun 02 20:57 4781 Jun 03 05:14 4781 Jun 03 05:14	24° \$\alpha 14'44 23° \$\alpha 47'05 0° \$\mathbf{m}\$ 0° \$\alpha\$ 8° \$\textit{m} 35'47 0° \$\mathbf{m}\$ 0° \$\nathrightarrow{\textit{m}}\$ 0° \$\nathrightarrow{\textit{m}}\$ 0° \$\nathrightarrow{\textit{m}}\$ 0° \$\nathrightarrow{\textit{m}}\$ 0° \$\nathrightarrow{\textit{m}}\$ 0° \$\nathrightarrow{\textit{m}}\$ 19° \$\nathrightarrow{\textit{m}}\$ 20° \$\mathrightarrow{\textit{m}}\$ 22° \$\mathrightarrow{\textit{m}}\$ 22° \$\mathrightarrow{\textit{m}}\$ 14° \$\mathrightarrow{\textit{m}}\$ 14° \$\mathrightarrow{\textit{m}}\$ 14° \$\mathrightarrow{\textit{m}}\$ 14° \$\mathrightarrow{\textit{m}}\$ 24'58	0°57'15 0°56'56 46°49'59 -4.8m 4°05'35
inferior conj minimum elong morning rise  direct greatest brilliancy  desc. node morning max el  asc. node  morning set  max. Earth dist. desc. node  superior conj	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jul 03 06:19 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38 4778 Sep 13 19:22 4778 Sep 18 10:19 4778 Oct 13 02:52 4778 Nov 06 11:31 4778 Nov 26 01:20 4778 Nov 30 14:48 4779 Jan 01 21:48 4779 Jan 03 10:15	1°Y59'07 2°Y04'26 0°Y19'42 30°R	8°56'58 8°56'48 -4.9m 46°20'59	superior conj minimum elong evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00 4781 Feb 28 14:18 4781 Mar 04 16:19 4781 Mar 23 06:48 4781 Apr 02 20:39 4781 May 02 02:16 4781 May 12 16:21 4781 May 28 11:02 4781 Jun 02 20:57 4781 Jun 03 05:14 4781 Jun 02 18:11 4781 Jun 08 23:46	24° \$\alpha 14'44 23° \$\alpha 47'05 0° m 0° \oldsymbol{\text{m}} 8° \oldsymbol{\text{m}} 35'47 0° m 0° \ntdot{\text{m}} 9° \nedsymbol{\text{m}} 25'23 0° \text{m} 0° \text{m} 0° \text{m} 0° \text{m} 0° \text{m} 25° \text{Y} 26'37 0° \text{M} 19° \text{Y} 46'29 0° \text{II} 20° \text{II} 23'27 22° \text{II} 29'43 17° \text{II} 37'25 14° \text{II} 20'39 14° \text{II} 07'42 14° \text{II} 24'58 10° \text{II} 40'42	0°57'15 0°56'56 46°49'59 -4.8m 4°05'35 4°03'18
inferior conj minimum elong morning rise  direct greatest brilliancy  desc. node morning max el  asc. node  morning set  max. Earth dist. desc. node  superior conj minimum elong	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jun 05 03:14 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38 4778 Sep 13 19:22 4778 Sep 18 10:19 4778 Oct 13 02:52 4778 Nov 06 11:31 4778 Nov 26 01:20 4778 Nov 30 14:48 4778 Dec 24 14:49 4779 Jan 01 21:48 4779 Jan 04 06:16 4779 Jan 04 06:16	1°Y59'07 2°Y04'26 0°Y19'42 30°R	8°56'58 8°56'48 -4.9m 46°20'59	superior conj minimum elong  evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00 4781 Feb 28 14:18 4781 Mar 04 16:19 4781 Mar 23 06:48 4781 Apr 02 20:39 4781 May 02 02:16 4781 May 12 16:21 4781 May 28 11:02 4781 Jun 02 05:14 4781 Jun 03 05:14 4781 Jun 02 18:11 4781 Jun 08 23:46 4781 Jun 08 23:46 4781 Jun 08 05:11	24° € 14'44 23° € 47'05 0° ₱ 0° ₽ 8° ₽ 35'47 0° ₱ 0° ₹ 9° ₹ 25'23 0° ₹ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 25° ¥ 26'37 0° 8 19° 8 46'29 0° ₱ 20° ₱ 23'27 22° ₱ 29'43 17° ₱ 37'25 14° ₱ 20'39 14° ₱ 107'42 14° ₱ 24'58 10° ₱ 40'42 6° ₱ 34'24	0°57'15 0°56'56 46°49'59 -4.8m 4°05'35 4°03'18
inferior conj minimum elong morning rise  direct greatest brilliancy  desc. node morning max el  asc. node  morning set  max. Earth dist. desc. node  superior conj minimum elong behind sun begin	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38 4778 Sep 13 19:22 4778 Sep 18 10:19 4778 Oct 13 02:52 4778 Nov 06 11:31 4778 Nov 26 01:20 4778 Nov 30 14:48 4778 Dec 24 14:49 4779 Jan 01 21:48 4779 Jan 04 06:16 4779 Jan 04 05:44 4779 Jan 04 05:44 4779 Jan 03 04:23	1°Y59'07 2°Y04'26 0°Y19'42 30°R	8°56'58 8°56'48 -4.9m 46°20'59	superior conj minimum elong  evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00 4781 Feb 28 14:18 4781 Mar 04 16:19 4781 Mar 23 06:48 4781 Apr 02 20:39 4781 May 02 02:16 4781 May 12 16:21 4781 May 28 11:02 4781 Jun 02 20:57 4781 Jun 03 05:14 4781 Jun 02 18:11 4781 Jun 08 23:46 4781 Jun 20 05:11 4781 Jun 23 23:20	24° \$\alpha 14'44 23° \$\alpha 47'05 0° m 0° \omega 8° \omega 35'47 0° m 0° \neq 9° \neq 25'23 0° \omega 0° \neq 6'25'23 0° \omega 0° \neq 6'25'23 0° \omega 19° \omega 46'29 0° \omega 123'27 22° \omega 29'43 17° \omega 37'25 14° \omega 20'39 14° \omega 107'42 14° \omega 24'58 10° \omega 40'42 6° \omega 13'24 6° \omega 17'31	0°57'15 0°56'56 46°49'59 -4.8m 4°05'35 4°03'18 0.28139 AU
inferior conj minimum elong morning rise  direct greatest brilliancy  desc. node morning max el  asc. node  morning set  max. Earth dist. desc. node  superior conj minimum elong	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jun 05 03:14 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38 4778 Sep 13 19:22 4778 Sep 18 10:19 4778 Oct 13 02:52 4778 Nov 06 11:31 4778 Nov 26 01:20 4778 Nov 30 14:48 4778 Dec 24 14:49 4779 Jan 01 21:48 4779 Jan 04 06:16 4779 Jan 04 06:16	1°Y59'07 2°Y04'26 0°Y19'42 30°R	8°56'58 8°56'48 -4.9m 46°20'59	superior conj minimum elong  evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00 4781 Feb 28 14:18 4781 Mar 04 16:19 4781 Mar 23 06:48 4781 Apr 02 20:39 4781 May 02 02:16 4781 May 12 16:21 4781 May 28 11:02 4781 Jun 02 20:57 4781 Jun 03 05:14 4781 Jun 02 18:11 4781 Jun 08 23:46 4781 Jun 02 05:11 4781 Jun 03 05:11 4781 Jun 03 21:50	24° € 14'44 23° € 47'05 0° ₱ 0° ₽ 8° ₽ 35'47 0° ₱ 0° ₹ 9° ₹ 25'23 0° ₹ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 25° ¥ 26'37 0° 8 19° 8 46'29 0° ₱ 20° ₱ 23'27 22° ₱ 29'43 17° ₱ 37'25 14° ₱ 20'39 14° ₱ 107'42 14° ₱ 24'58 10° ₱ 40'42 6° ₱ 34'24	0°57'15 0°56'56 46°49'59 -4.8m 4°05'35 4°03'18
inferior conj minimum elong morning rise  direct greatest brilliancy  desc. node morning max el  asc. node  morning set  max. Earth dist. desc. node  superior conj minimum elong behind sun begin	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38 4778 Sep 13 19:22 4778 Sep 18 10:19 4778 Oct 13 02:52 4778 Nov 06 11:31 4778 Nov 26 01:20 4778 Nov 30 14:48 4778 Dec 24 14:49 4779 Jan 04 06:16 4779 Jan 04 06:16 4779 Jan 04 05:44 4779 Jan 03 04:23 4779 Jan 03 04:23 4779 Jan 05 07:06	1°Y59'07 2°Y04'26 0°Y19'42 30°R 米 24° Ж 12'45 25° Ж 47'44 0°Y 18°Y00'30 25°Y51'08 0° В 0° П 0° © 0° Л 24° Л 26'11 0° Т 0° Т 10° Т 10° Т 10° Т 10° Т 10° Т 10° Т 11° Т 13° Т 18'48 11° Т 18'51 18'48 11° Т 18'51	8°56'58 8°56'48 -4.9m 46°20'59	superior conj minimum elong  evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00 4781 Feb 28 14:18 4781 Mar 04 16:19 4781 Mar 23 06:48 4781 Apr 02 20:39 4781 May 02 02:16 4781 May 12 16:21 4781 May 28 11:02 4781 Jun 02 20:57 4781 Jun 03 05:14 4781 Jun 02 18:11 4781 Jun 02 23:20 4781 Jun 03 21:50 4781 Jul 03 21:50	24° \$\mathcal{\Omega} 14'44 23° \$\mathcal{\Omega} 47'05 0° \$\mathcal{\Omega} \\ 10° \$\mathcal{\Omega} 46'29 0° \$\mathcal{\Omega} \\ 20° \$\mathcal{\Omega} 23'27 22° \$\mathcal{\Omega} 29'43 17° \$\mathcal{\Omega} 37'25 14° \$\mathcal{\Omega} 23'27 22° \$\mathcal{\Omega} 129'43 17° \$\mathcal{\Omega} 37'25 14° \$\mathcal{\Omega} 24'58 10° \$\mathcal{\Omega} 40'42 6° \$\mathcal{\Omega} 34'24 6° \$\mathcal{\Omega} 17'31 8° \$\mathcal{\Omega} 05'09	0°57'15 0°56'56 46°49'59 -4.8m 4°05'35 4°03'18 0.28139 AU
inferior conj minimum elong morning rise  direct greatest brilliancy  desc. node morning max el  asc. node  morning set  max. Earth dist. desc. node  superior conj minimum elong behind sun begin	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38 4778 Sep 13 19:22 4778 Sep 18 10:19 4778 Oct 13 02:52 4778 Nov 06 11:31 4778 Nov 26 01:20 4778 Nov 30 14:48 4778 Dec 24 14:49 4779 Jan 01 21:48 4779 Jan 04 06:16 4779 Jan 04 06:16 4779 Jan 04 05:44 4779 Jan 03 04:23 4779 Jan 05 07:06 4779 Jan 17 12:53	1°Y59'07 2°Y04'26 0°Y19'42 30°R	8°56'58 8°56'48 -4.9m 46°20'59	superior conj minimum elong evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct greatest brilliancy	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00 4781 Feb 28 14:18 4781 Mar 04 16:19 4781 Mar 23 06:48 4781 Apr 02 20:39 4781 May 02 02:16 4781 May 12 16:21 4781 May 28 11:02 4781 Jun 02 20:57 4781 Jun 03 05:14 4781 Jun 02 18:11 4781 Jun 08 23:46 4781 Jun 02 05:11 4781 Jun 03 05:11 4781 Jun 03 21:50	24° \$\mathcal{A}\text{14'44} 23° \$\mathcal{A}\text{47'05} 0° \$\mathcal{m}\text{0°} \\\ 0° \$\mathcal{m}\text{0°} \\\ 0° \$\mathcal{m}\text{0°} \\\ 0° \$\mathcal{m}\text{0°} \\ 0° \$\mathcal{m}\text{25'23} \\ 0° \$\mathcal{m}\text{0°} \\ 19° \$\mathcal{m}\text{26'37} \\ 0° \$\mathcal{m}\text{20'37} \\ 10° \$\mathcal{m}\text{20'27} \\ 22° \$\mathcal{m}\text{29'43} \\ 17° \$\mathcal{m}\text{37'25} \\ 14° \$\mathcal{m}\text{24'58} \\ 10° \$\mathcal{m}\text{40'42} \\ 6° \$\mathcal{m}\text{34'24} \\ 6° \$\mathcal{m}\text{17'31} \\ 8° \$\mathcal{m}\text{05'09} \\ 0° \$\mathcal{m}\text{00'9} \\ 0° \$\	0°57'15 0°56'56 46°49'59 -4.8m 4°05'35 4°03'18 0.28139 AU
inferior conj minimum elong morning rise  direct greatest brilliancy  desc. node morning max el  asc. node  morning set  max. Earth dist. desc. node  superior conj minimum elong behind sun begin behind sun end	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jun 05 03:14 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38 4778 Sep 13 19:22 4778 Sep 18 10:19 4778 Oct 13 02:52 4778 Nov 06 11:31 4778 Nov 26 01:20 4778 Nov 30 14:48 4778 Dec 24 14:49 4779 Jan 01 21:48 4779 Jan 04 06:16 4779 Jan 04 05:44 4779 Jan 05 07:06 4779 Jan 17 12:53 4779 Feb 10 09:54	1°Y59'07 2°Y04'26 0°Y19'42 30°R H 24° H 12'45 25° H 47'44 0°Y 18°Y00'30 25°Y51'08 0°B 0°B 24°B 26'11 0°D 0°A 24°B 18'51 0°A 0°B 10°B 23'27 12°B 17'40 13°B 28'27 13°B 18'48 11°B 59'18 14°B 38'18 0°≈ 0°H	8°56'58 8°56'48 -4.9m 46°20'59	superior conj minimum elong evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct greatest brilliancy	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Oct 30 20:32 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00 4781 Feb 28 14:18 4781 Mar 04 16:19 4781 Mar 23 06:48 4781 Apr 02 20:39 4781 May 02 02:16 4781 May 12 16:21 4781 May 12 16:21 4781 Jun 02 20:57 4781 Jun 03 05:14 4781 Jun 02 18:11 4781 Jun 02 23:46 4781 Jun 03 21:50 4781 Aug 05 03:19 4781 Aug 05 03:19 4781 Aug 05 03:19 4781 Aug 11 19:27	24° \$\mathcal{A}\text{14'44} 23° \$\mathcal{A}\text{47'05} 0° \$\mathcal{m}\text{0°} \\ 0° \$\mathcal{m}\text{25'23} \\ 0° \$\mathcal{m}\text{26'37} \\ 0° \$\mathcal{m}\text{19'} \\ 20° \$\mathcal{m}\text{23'27} \\ 22° \$\mathcal{m}\text{29'43} \\ 17° \$\mathcal{m}\text{37'25} \\ 14° \$\mathcal{m}\text{24'58} \\ 10° \$\mathcal{m}\text{40'42} \\ 6° \$\mathcal{m}\text{34'24} \\ 6° \$\mathcal{m}\text{17'31} \\ 8° \$\mathcal{m}\text{05'09} \\ 0° \$\mathcal{m}\text{0} \\ 0° \$\mathcal{m}\text{0}'\text{58} \\ 10° \$\mathcal{m}\text{17'31} \\ 8° \$\mathcal{m}\text{05'09} \\ 0° \$\mathcal{m}\text{0}'\text{58} \\ 10° \$\mathcal{m}\text{11'45} \\ 0° \$m	0°57'15 0°56'56 46°49'59 -4.8m 4°05'35 4°03'18 0.28139 AU
inferior conj minimum elong morning rise  direct greatest brilliancy  desc. node morning max el  asc. node  morning set  max. Earth dist. desc. node  superior conj minimum elong behind sun begin behind sun end	4778 Mar 22 13:59 4778 Mar 22 10:33 4778 Mar 25 06:45 4778 Mar 25 19:54 4778 Apr 12 04:56 4778 Apr 21 08:39 4778 Apr 30 10:40 4778 May 23 17:22 4778 May 31 23:09 4778 Jun 05 03:14 4778 Jul 03 06:19 4778 Jul 29 16:22 4778 Aug 24 07:38 4778 Sep 13 19:22 4778 Sep 13 19:22 4778 Nov 06 11:31 4778 Nov 26 01:20 4778 Nov 30 14:48 4778 Dec 24 14:49 4779 Jan 04 05:44 4779 Jan 04 05:44 4779 Jan 04 05:44 4779 Jan 05 07:06 4779 Jan 17 12:53 4779 Feb 10 09:54 4779 Feb 13 23:17	1°Y59'07 2°Y04'26 0°Y19'42 30°R	8°56'58 8°56'48 -4.9m 46°20'59	superior conj minimum elong evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct greatest brilliancy	4780 Aug 14 02:07 4780 Aug 13 17:08 4780 Aug 18 18:21 4780 Sep 12 03:00 4780 Sep 19 02:27 4780 Oct 06 11:26 4780 Oct 30 20:32 4780 Nov 07 12:30 4780 Nov 24 06:51 4780 Dec 18 18:58 4781 Jan 12 10:58 4781 Feb 06 13:00 4781 Feb 28 14:18 4781 Mar 04 16:19 4781 Mar 23 06:48 4781 Apr 02 20:39 4781 May 02 02:16 4781 May 12 16:21 4781 May 12 16:21 4781 Jun 02 20:57 4781 Jun 03 05:14 4781 Jun 02 18:11 4781 Jun 02 23:20 4781 Jun 03 21:50 4781 Aug 05 03:19 4781 Aug 11 19:27 4781 Aug 11 19:27 4781 Sep 04 03:51	24° \$\alpha 14'44 23° \$\alpha 47'05 0° \$\mathbb{m}\$ 0° \$\oldsymbol{\Pi}\$ 8° \$\oldsymbol{\Pi} 35'47 0° \$\mathbb{m}\$ 0° \$\oldsymbol{\Pi}\$ 0° \$\oldsymbol{\Pi}\$ 0° \$\oldsymbol{\Pi}\$ 0° \$\oldsymbol{\Pi}\$ 25° \$\oldsymbol{\Pi} 26'37 0° \$\oldsymbol{\Pi}\$ 19° \$\oldsymbol{\Pi} 46'29 0° \$\oldsymbol{\Pi}\$ 20° \$\oldsymbol{\Pi} 23'27 22° \$\oldsymbol{\Pi} 29'43 17° \$\oldsymbol{\Pi} 37'25 14° \$\oldsymbol{\Pi} 20'39 14° \$\oldsymbol{\Pi} 107'42 14° \$\oldsymbol{\Pi} 24'58 10° \$\oldsymbol{\Pi} 40'42 6° \$\oldsymbol{\Pi} 13'424 6° \$\oldsymbol{\Pi} 17'31 8° \$\oldsymbol{\Pi} 05'09 0° \$\oldsymbol{\Pi} 6° \$\oldsymbol{\Pi} 11'45 0° \$\oldsymbol{\Oldsymbol{\Pi}} 11'45 0° \$\oldsymbol{\Oldsymbol{\Pi}} 11'45 0° \$\oldsymbol{\Oldsymbol{\Pi}} 11'45	0°57'15 0°56'56 46°49'59 -4.8m 4°05'35 4°03'18 0.28139 AU

	4781 Oct 26 19:04 4781 Nov 20 15:50	0° <b>Մ</b>		evening max el	4784 Jun 02 10:15	29° <b>©</b> 58'12	
	4781 Nov 20 15:50 4781 Dec 15 01:00	0°11L 0° <b>√</b> 7		greatest brilliancy	4784 Jul 10 11:52 4784 Jul 15 20:00	28° <b>Ω</b> 24'43 0° <b>m</b>	-4.7m
	4782 Jan 08 03:24	°ਨ ਨ		desc. node	4784 Jul 17 17:11	0° <b>m</b> , 20'04	
greatest brilliancy	4782 Jan 29 06:56	26° <b>ට</b> 29'18	-3.9m	retrograde	4784 Jul 21 13:22	0° mp 36'54	
desc. node	4782 Jan 30 22:05	28° <b>る</b> 32'06			4784 Jul 27 02:52	30°R <b>Ω</b>	
	4782 Feb 01 02:05	0° <b>≈</b>		evening set	4784 Aug 06 07:08	25° <b>Ω</b> 50′19	
morning set	4782 Feb 08 10:50	9° <b>≈</b> 14'52		min. Earth dist.	4784 Aug 11 16:00		0.29027 AU
	4782 Feb 24 22:59	0° <b>∀</b>		inferior conj	4784 Aug 12 01:22	22° <b>Ω</b> 20′28	
	4782 Mar 20 19:39	$0^{\circ}$ Y		minimum elong	4784 Aug 11 15:43	22° <b>Ω</b> 35'38	5°30'42
superior aoni	4782 Mar 21 19:32	1° <b>Ƴ</b> 15'00	1025124	morning rise direct	4784 Aug 17 00:33 4784 Sep 02 16:02	19° <b>Ω</b> 18'32 14° <b>Ω</b> 04'49	
superior conj minimum elong	4782 Mar 21 15:09	1° <b>Υ</b> 01'15		greatest brilliancy	4784 Sep 02 10.02 4784 Sep 12 18:34	15° <b>Ω</b> 55'35	-4 7m
max. Earth dist.	4782 Mar 24 06:07	4° <b>Υ</b> 19'00	1.71332 AU	greatest orimaney	4784 Oct 05 18:05	0° m)	4.7111
	4782 Apr 13 17:49	0°8		morning max el	4784 Oct 21 15:17	14° <b>m</b> ) 14'19	45°53'28
evening rise	4782 May 01 05:33	21° <b>8</b> 49'53			4784 Nov 06 02:57	0∘ <b>⊽</b>	
	4782 May 07 19:12	$\Pi$ °0		asc. node	4784 Nov 07 19:10	1° <b>≏</b> 47'08	
asc. node	4782 May 24 00:02	20° <b>Ⅱ</b> 04'29			4784 Dec 03 01:03	$0^{\circ}$ M.	
	4782 Jun 01 01:10	0°©			4784 Dec 28 09:35	0° <b>∡</b> ¹	
	4782 Jun 25 12:47	0° <b>N</b>			4785 Jan 22 00:22	0°る	
	4782 Jul 20 07:31	0ം <del>മ</del> 0ംമ്		4 4-	4785 Feb 15 06:18 4785 Feb 27 09:50	0°≈ 15°≈ ≈07!25	
	4782 Aug 14 12:23 4782 Sep 09 09:27	0° <b>™</b>		desc. node	4785 Mar 11 07:56	15°≈07'25 0° <b>)</b> €	
desc. node	4782 Sep 12 14:40	3°M39'12			4785 Apr 04 07:58	0° <b>Υ</b>	
dese. Hode	4782 Oct 06 12:01	0° <b>⊼</b>		morning set	4785 Apr 25 21:27	26° <b>Y</b> ′56′02	
evening max el	4782 Oct 26 19:11	20° <b>х</b> 46′19	46°15'07	8	4785 Apr 28 08:27	0°8	
-	4782 Nov 05 17:14	ರ∘ರ			4785 May 22 10:59	$\Pi^{\circ}0$	
greatest brilliancy	4782 Dec 05 17:24	20° <b>る</b> 02'29	-4.8m				
retrograde	4782 Dec 15 08:07	21° <b>る</b> 45'20		superior conj	4785 Jun 03 17:41	15° <b>Ⅱ</b> 13'30	
evening set	4782 Dec 29 16:34	17° <b>る</b> 41'45		minimum elong	4785 Jun 04 01:49	15° <b>Ⅱ</b> 38'41	
asc. node	4783 Jan 03 16:45	14° <b>3</b> 48'40	0010115	max. Earth dist.	4785 Jun 07 00:34	19° <b>Ⅱ</b> 17'37	1.72730 AU
inferior conj minimum elong	4783 Jan 04 22:30 4783 Jan 04 21:45	14°る03'27 14°る04'35	0°19'15 0°19'02	asc. node	4785 Jun 15 16:19 4785 Jun 20 11:55	0°© 5°©56'57	
min. Earth dist.	4783 Jan 05 04:45	14 <b>3</b> 04 33	0.26770 AU	asc. node	4785 Jul 10 00:22	0°Ω	
morning rise	4783 Jan 11 02:36	19 <b>ප</b> 3330	0.20770710	evening rise	4785 Jul 11 11:43	1° <b>Ω</b> 48'43	
direct	4783 Jan 25 13:49	6° <b>ප</b> 18'00			4785 Aug 03 10:54	0° m)	
greatest brilliancy	4783 Feb 04 23:26	8° <b>පි</b> 21'31	-4.9m		4785 Aug 28 00:21	0∘ <b>⊽</b>	
	4783 Mar 07 11:48	0° <b>≈</b>			4785 Sep 21 18:04	$0^{\circ}$ M	
morning max el	4783 Mar 17 04:47	9° <b>≈</b> 27'02	46°58'09	desc. node	4785 Oct 10 02:37	22°M03'52	
	4783 Apr 05 13:26	0° <b>∀</b>			4785 Oct 16 18:00	0° <b>⊼</b>	
desc. node	4783 Apr 25 07:41	22° <b>)</b> (20′31 0° <b>°</b>			4785 Nov 11 02:48	0° <b>ට</b>	
	4783 May 01 22:14 4783 May 27 08:45	0° <b>∀</b>			4785 Dec 07 02:43 4786 Jan 03 14:48	0° <b>≈</b> 0° <b>∀</b>	
	4783 Jun 21 09:57	0°II		evening max el	4786 Jan 07 17:04	4° <b>∺</b> 11'18	47°06'11
	4783 Jul 16 06:39	0°50		asc. node	4786 Jan 31 04:35	25° <b>¥</b> 26'42	., 0011
	4783 Aug 09 23:58	$0^{\circ}\Omega$			4786 Feb 06 15:03	$0^{\circ}$ Y	
asc. node	4783 Aug 16 09:32	7° <b>Ω</b> 47'42		greatest brilliancy	4786 Feb 17 08:34	5° <b>Ƴ</b> 32'33	-4.9m
	4783 Sep 03 13:27	0° <b>™</b>		retrograde	4786 Feb 27 09:53	7° <b>Y</b> ′27'56	
morning set	4783 Sep 15 08:18	14° Tp 28'14		evening set	4786 Mar 17 00:43	1° <b>Y</b> 28′26	
F 41 F 4	4783 Sep 27 22:51	0∘ <b>⊽</b>	1 72770 ATT	· r d r d	4786 Mar 19 10:27	30° <b>₹</b> ₩	0.27126 ATT
max. Earth dist.	4783 Oct 19 06:43	26° <b>£</b> 22'43	1.72770 AU	min. Earth dist. inferior conj	4786 Mar 19 13:48 4786 Mar 20 03:05	29° <b>)</b> 54'49 29° <b>)</b> 34'12	0.27136 AU 8°53'01
superior conj	4783 Oct 21 21:28	29° <b>≏</b> 37'12	1°21'35	minimum elong	4786 Mar 19 22:44	29° <b>H</b> 40'58	8°52'46
minimum elong	4783 Oct 22 02:52	29° <b>Ω</b> 53'57		morning rise	4786 Mar 22 20:52	27° <b>)</b> 53'11	0 32 10
	4783 Oct 22 04:50	0°M		direct	4786 Apr 09 17:07	21° <b>¥</b> 48′19	
	4783 Nov 15 08:35	0° <b>∡</b> ¹		greatest brilliancy	4786 Apr 18 21:53	23° <b>)</b> €23'47	-4.9m
evening rise	4783 Nov 28 20:13	16° <b>⊀</b> ¹46'36			4786 May 01 20:30	$0^{\circ}$ Y	
desc. node	4783 Dec 06 00:28	25° <b>∡</b> '42'49		desc. node	4786 May 22 19:25	17° <b>Y</b> ′03'43	
	4783 Dec 09 11:05	5°0		morning max el	4786 May 29 11:26	23° <b>Y</b> 27'14	46°22'49
	4784 Jan 02 12:50	0° <b>≈</b>			4786 Jun 05 00:09	0° <b>Β</b>	
	4784 Jan 26 14:36 4784 Feb 19 18:24	0° <b>Υ</b> 0° <b>Υ</b>			4786 Jul 02 21:39 4786 Jul 29 05:28	0° <b>Ⅱ</b> 0° <b>©</b>	
	4784 Mar 15 04:16	0° <b>∀</b>			4786 Aug 23 19:35	0° <b>U</b>	
asc. node	4784 Mar 28 02:12	15° <b>8</b> 38'20		asc. node	4786 Sep 12 21:19	23° <b>Ω</b> 57'52	
	4784 Apr 09 02:57	0°Щ			4786 Sep 17 21:36	0° m)	
	4784 May 05 02:34	0ಂಣ			4786 Oct 12 13:48	0∘ <b>⊽</b>	
	4784 Jun 02 11:00	$0$ $\circ$ $\Omega$			4786 Nov 05 22:18	0° <b>M</b>	

morning set	4786 Nov 23 16:16	22°M02'25		greatest brilliancy	4789 Apr 29 17:45	18° <b>Ⅱ</b> 06'47	-4.8m
	4786 Nov 30 01:33	0° <b>∡</b> 7		retrograde	4789 May 10 08:18	20° <b>Ⅱ</b> 13'23	
	4786 Dec 24 01:36	ರ°0		evening set	4789 May 26 04:40	15° <b>Ⅱ</b> 17'19	
max. Earth dist.	4786 Dec 30 08:42	7° <b>る</b> 53'21	1.71495 AU	inferior conj	4789 May 31 11:55	12° <b>Ⅱ</b> 04'23	4°24'43
				minimum elong	4789 May 31 20:41	11° <b>Ⅱ</b> 50'43	4°22'22
superior conj	4787 Jan 01 18:05	10° <b>る</b> 53'13	0°01'51	min. Earth dist.	4789 May 31 09:05	12° <b>Ⅱ</b> 08'48	0.28110 AU
minimum elong	4787 Jan 01 18:33	10° <b>る</b> 54'39	0°01'50	morning rise	4789 Jun 06 13:05	8° <b>Ⅱ</b> 27'09	
behind sun begin	4786 Dec 31 17:14	9° <b>ප</b> 35'18		desc. node	4789 Jun 19 07:14	4° <b>∏</b> 07'55	
behind sun end	4787 Jan 02 19:51	12° <b>る</b> 13'59		direct	4789 Jun 21 14:11	4° <b>Ⅱ</b> 01'39	
desc. node	4787 Jan 02 12:15	11°る50'11		greatest brilliancy	4789 Jul 01 11:45	5° <b>Ⅱ</b> 49'06	-4.8m
	4787 Jan 16 23:43	0° <b>≈</b>			4789 Aug 05 04:48	0°©	45045120
avanina riaa	4787 Feb 09 20:49	0° <b>\</b> 1° <b>\</b> 56'31		morning max el	4789 Aug 09 11:41	4° <b>©</b> 01'30 0° <b>Ω</b>	45°45'29
evening rise	4787 Feb 11 09:55 4787 Mar 05 18:18	0°Υ			4789 Sep 03 20:19	0° <b>m</b> y	
	4787 Mar 29 18:24	0° <b>8</b>		asc. node	4789 Sep 30 17:02 4789 Oct 10 09:22	11° Mp 12'38	
	4787 Apr 22 23:59	0°II		asc. node	4789 Oct 26 07:23	0° <b>⊡</b>	
asc. node	4787 Apr 25 14:12	3° <b>Ⅱ</b> 11'13			4789 Nov 20 03:31	o° <b>m</b>	
use. Houe	4787 May 17 14:18	0° <b>©</b>			4789 Dec 14 12:23	0° <b>⊼</b>	
	4787 Jun 11 17:51	$0^{\circ}\Omega$			4790 Jan 07 14:38	0°ਰ	
	4787 Jul 07 19:28	0° m)		desc. node	4790 Jan 29 24:00	28° <b>る</b> 03'06	
	4787 Aug 04 18:46	0∘ <u>v</u>		greatest brilliancy	4790 Jan 31 17:24	0° <b>≈</b> 13'02	-3.9m
evening max el	4787 Aug 13 00:25	8° <b>ഫ</b> 06'18	45°32'20		4790 Jan 31 13:15	0° <b>≈</b>	
desc. node	4787 Aug 15 04:53	10° <b>≏</b> 10'44		morning set	4790 Feb 05 21:01	6° <b>≈</b> 41'06	
	4787 Sep 08 16:31	$0^{\circ}$ M.			4790 Feb 24 10:06	0° <b>∀</b>	
greatest brilliancy	4787 Sep 21 03:56	6° <b>™</b> 10'00	-4.7m				
retrograde	4787 Sep 30 16:42	7° <b>M</b> ₊49'01		superior conj	4790 Mar 19 06:07	28° <b>)</b> 42′40	
evening set	4787 Oct 18 14:52	1°M50'12		minimum elong	4790 Mar 19 00:44	28° <b>¥</b> 25'45	1°24'42
	4787 Oct 21 14:57	30° <b>₹</b> Ω			4790 Mar 20 06:44	0°Υ	
inferior conj	4787 Oct 22 00:07	29° <b>Ω</b> 45'46		max. Earth dist.	4790 Mar 21 15:19	1° <b>Y</b> 42'23	1.71302 AU
minimum elong	4787 Oct 22 05:46	29° <b>Ω</b> 36'59			4790 Apr 13 04:52	0°8	
min. Earth dist.	4787 Oct 22 19:05	29° <b>£</b> 16'17	0.28562 AU	evening rise	4790 Apr 28 17:41	19° <b>8</b> 23'48	
morning rise	4787 Oct 25 20:23	27° <b>£</b> 24'07 21° <b>£</b> 32'11		aca mada	4790 May 07 06:16	0° <b>П</b> 19° <b>П</b> 36'26	
direct greatest brilliancy	4787 Nov 12 09:03 4787 Nov 23 13:45	21 <b>23</b> ° <b>2</b> 50'06	4 9m	asc. node	4790 May 23 02:06 4790 May 31 12:21	19 <b>п</b> 3626	
greatest brilliancy	4787 Dec 04 23:50	0°M	-4.8111		4790 May 31 12.21 4790 Jun 25 00:13	0°€ 0 €	
asc. node	4787 Dec 04 25:50 4787 Dec 06 06:52	0°M52'56			4790 Jul 19 19:24	0°m)	
morning max el	4788 Jan 01 15:14	23°M56'37	46°37'27		4790 Aug 14 01:06	0° <del>م</del>	
morning man vi	4788 Jan 07 12:45	0° <b>⊼</b>	.0 37 27		4790 Sep 08 23:46	0°M	
	4788 Feb 03 15:21	0°ెవ		desc. node	4790 Sep 11 16:45	3°M03'50	
	4788 Feb 29 02:06	0° <b>≈</b>			4790 Oct 06 05:53	0° <b>∡</b> ″	
	4788 Mar 24 20:32	0° <b>)</b> €		evening max el	4790 Oct 24 09:46	18° <b>∡</b> ′28′39	46°13'01
desc. node	4788 Mar 26 21:48	2° <b>)</b> € 30′21			4790 Nov 05 23:19	ರ°0	
	4788 Apr 18 07:44	$0$ ° $\Upsilon$		greatest brilliancy	4790 Dec 03 06:31	17° <b>る</b> 37'58	-4.8m
	4788 May 12 16:16	$9^{\circ}$ 8		retrograde	4790 Dec 12 20:40	19° <b>る</b> 19'39	
	4788 Jun 06 00:43	$\Pi$ °0		evening set	4790 Dec 27 06:07	15° <b>る</b> 15'19	
	4788 Jun 30 09:58	0∘ <b>©</b>		inferior conj	4791 Jan 02 11:14	11° <b>る</b> 37'42	
morning set	4788 Jul 05 20:36	6°5541'31		minimum elong	4791 Jan 02 11:25	11° <b>る</b> 37'25	
asc. node	4788 Jul 17 23:39	21°536'04		transit middle	4791 Jan 02 11:25	11°る37'25 11°る43'22	0°04'46
may Earth dist	4788 Jul 24 19:39	0°Ω 21°Ω24'52	1 72476 AII	transit begin transit end	4791 Jan 02 07:31 4791 Jan 02 15:19	11°る43°22	
max. Earth dist.	4788 Aug 11 05:32	21 3 (24 32	1.73476 AU	asc. node	4791 Jan 02 18:42	11° <b>る</b> 31′27	
superior conj	4788 Aug 11 20:15	22° <b>Ω</b> 10'07	0°54'52	min. Earth dist.	4791 Jan 02 18:43	11° <b>る</b> 26'16	0.26804 AU
minimum elong	4788 Aug 11 11:21	21° <b>Ω</b> 42'44		morning rise	4791 Jan 08 16:21	7°る59'50	0.20004710
g	4788 Aug 18 04:59	0° m)	0 0 . 3 1	direct	4791 Jan 23 03:23	3° <b>ප</b> 51'46	
	4788 Sep 11 13:41	0∘ <b>⊽</b>		greatest brilliancy	4791 Feb 02 13:40	5° <b>る</b> 55'43	-4.9m
evening rise	4788 Sep 16 20:40	6° <b>Ω</b> 31'01			4791 Mar 07 14:58	0° <b>≈</b>	
ū	4788 Oct 05 22:19	$0^{\circ}$ M.		morning max el	4791 Mar 14 18:13	7° <b>≈</b> 01'37	46°58'21
	4788 Oct 30 07:44	0° <b>∡</b> ¹		-	4791 Apr 05 07:10	0° <b>)</b> €	
desc. node	4788 Nov 06 14:37	8° <b>₰</b> 757'04		desc. node	4791 Apr 24 09:47	21° <b>)</b> 42′39	
	4788 Nov 23 18:28	5°0			4791 May 01 12:51	$0$ ° $\Upsilon$	
	4788 Dec 18 07:10	0° <b>≈</b>			4791 May 26 21:50	$9^{\circ}$ 8	
	4789 Jan 12 00:00	0° <b>∀</b>			4791 Jun 20 22:08	$\Pi$ °0	
	4789 Feb 06 03:28	0° <b>Υ</b>			4791 Jul 15 18:15	0ა <b>ௐ</b>	
asc. node	4789 Feb 27 16:19	24° <b>Y</b> '45'08		_	4791 Aug 09 11:12	0°N	
	4789 Mar 04 09:52	0°8	46051115	asc. node	4791 Aug 15 11:29	7° <b>Ω</b> 19'37	
evening max el	4789 Mar 20 21:37	17° <b>8</b> 27'17	46~51'47		4791 Sep 03 00:28	0°Т)	
	4789 Apr 03 00:45	$\Pi^{\circ}0$		morning set	4791 Sep 13 01:48	12° <b>m</b> 20'51	

	4791 Sep 27 09:45	0∘ <b>ত</b>		inferior conj	4794 Mar 17 16:14	27° <b>)</b> €08'40	8°48'06
max. Earth dist.	4791 Sep 27 09:43 4791 Oct 16 22:14	0 <b>==</b> 24° <b>£</b> 08'25	1.72807 AU	minimum elong	4794 Mar 17 11:00	27° <del>X</del> 16'46	8°47'41
max. Earm dist.	4/91 Oct 10 22.14	24 == 08 23	1.72807 AU	_			8 4/41
	4701 0 4 10 14 27	270 0 27110	1022120	morning rise	4794 Mar 20 11:31	25° <b>)</b> (25'29	
superior conj	4791 Oct 19 14:27	27° <b>£</b> 27'19		direct	4794 Apr 07 05:16	19° <b>)</b> € 22'59	4.0
minimum elong	4791 Oct 19 19:13		1°22'27	greatest brilliancy	4794 Apr 16 11:17	20° <b>)</b> 59′20	-4.9m
	4791 Oct 21 15:43	0° <b>M</b> ₊			4794 May 02 21:06	0°Υ 1.60 <b>Ω</b> 0.710.4	
	4791 Nov 14 19:33	0° <b>∡</b>		desc. node	4794 May 21 21:26	16° <b>Y</b> 07'04	
evening rise	4791 Nov 26 10:35	14° <b>₹</b> 27'29		morning max el	4794 May 27 00:38	21° <b>Υ</b> 04'21	46°24'27
desc. node	4791 Dec 05 02:27	25° <b>∡</b> 14'21			4794 Jun 04 20:47	0°8	
	4791 Dec 08 22:13	0°ಕ			4794 Jul 02 13:11	$\Pi$ °0	
	4792 Jan 02 00:13	0° <b>≈</b>			4794 Jul 28 18:52	0°€	
	4792 Jan 26 02:17	0° <b>∀</b>			4794 Aug 23 07:50	$0$ $^{\circ}\Omega$	
	4792 Feb 19 06:26	0° <b>Υ</b>		asc. node	4794 Sep 11 23:27	23° <b>Ω</b> 29'06	
	4792 Mar 14 16:53	0°8			4794 Sep 17 09:12	0°Щ	
asc. node	4792 Mar 27 04:17	15° <b>8</b> 05'10			4794 Oct 12 01:02	0∘ <b>亚</b>	
	4792 Apr 08 16:39	0° <b>I</b> I			4794 Nov 05 09:23	0°M	
	4792 May 04 18:32	0		morning set	4794 Nov 21 07:13	19°M45'10	
evening max el	4792 May 31 01:27	27°5643'38	45°54'24		4794 Nov 29 12:36	0° <b>∡</b>	
	4792 Jun 02 09:37	$0^{\circ}\Omega$			4794 Dec 23 12:40	0°ಕ	
greatest brilliancy	4792 Jul 08 04:36	26° <b>Ω</b> 15′01	-4.7m	max. Earth dist.	4794 Dec 27 20:57	5° <b>る</b> 26'38	1.71530 AU
desc. node	4792 Jul 16 19:05	28° <b>Ω</b> 19'57					
retrograde	4792 Jul 19 05:14	28° <b>Ω</b> 26'42		superior conj	4794 Dec 30 06:04	8° <b>る</b> 25'38	0°05'40
evening set	4792 Aug 03 21:14	23° <b>Ω</b> 43'28		minimum elong	4794 Dec 30 07:30	8° <b>る</b> 30'07	0°05'37
inferior conj	4792 Aug 09 17:40	20° <b>Ω</b> 10'31	-5°17'35	behind sun begin	4794 Dec 29 07:28	7° <b>る</b> 14'46	
minimum elong	4792 Aug 09 08:10	20° <b>Ω</b> 25'26	5°15'22	behind sun end	4794 Dec 31 07:33	9° <b>る</b> 45'29	
min. Earth dist.	4792 Aug 09 08:18	20° <b>Ω</b> 25'15	0.29004 AU	desc. node	4795 Jan 01 14:12	11° <b>る</b> 21'35	
morning rise	4792 Aug 14 19:20	17° <b>Ω</b> 04'41			4795 Jan 16 10:48	0° <b>≈</b>	
direct	4792 Aug 31 07:48	11° <b>Ω</b> 55'14		evening rise	4795 Feb 08 20:55	29° <b>≈</b> 25′22	
greatest brilliancy	4792 Sep 10 10:16	13° <b>Ω</b> 45′23	-4.7m		4795 Feb 09 07:57	0° <b>∀</b>	
	4792 Oct 06 01:14	0° <b>™</b>			4795 Mar 05 05:31	$0^{\circ}$ Y	
morning max el	4792 Oct 19 05:30	11° <b>m</b> 58'37	45°52'27		4795 Mar 29 05:46	0°8	
	4792 Nov 05 20:36	0 <b>∘</b>			4795 Apr 22 11:36	$\Pi$ $^{\circ}0$	
asc. node	4792 Nov 06 21:08	1° <b>≏</b> 05'46		asc. node	4795 Apr 24 16:12	2° <b>∏</b> 41'35	
	4792 Dec 02 15:19	$0^{\circ}$ M			4795 May 17 02:24	$0$ $\circ$ $\odot$	
	4792 Dec 27 22:26	0°⊀			4795 Jun 11 06:52	$0$ $^{\circ}$ $\Omega$	
	4793 Jan 21 12:30	0°₹			4795 Jul 07 10:26	O°My	
	4793 Feb 14 18:02	0° <b>≈</b>			4795 Aug 04 14:53	0∘ <b>⊽</b>	
desc. node	4793 Feb 26 11:55	14° <b>≈</b> 37'46		evening max el	4795 Aug 10 15:31	5° <b>≙</b> 53'30	45°32'03
	4793 Mar 10 19:25	0° <b>∀</b>		desc. node	4795 Aug 14 07:00	9° <b>≙</b> 19'41	
	4793 Apr 03 19:16	$0^{\circ}\Upsilon$			4795 Sep 10 00:34	0°M	
morning set	4793 Apr 23 10:05	24° <b>Ƴ</b> 30'51		greatest brilliancy	4795 Sep 18 16:49	3°M55'04	-4.7m
	4793 Apr 27 19:37	$9^{\circ}$ 8		retrograde	4795 Sep 28 08:06	5° <b>™</b> 35′58	
	4793 May 21 22:02	$\Pi^{\circ}0$			4795 Oct 15 13:57	30° <b>₽</b> Ω	
				evening set	4795 Oct 16 07:24	29° <b>≏</b> 34'11	
superior conj	4793 Jun 01 08:28	12° <b>Ⅱ</b> 56'32	-0°42'02	inferior conj	4795 Oct 19 15:23	27° <b>≙</b> 31'36	-8°23'58
minimum elong	4793 Jun 01 17:07	13° <b>Ⅲ</b> 23′21	0°41'39	minimum elong	4795 Oct 19 20:20	27° <b>£</b> 23'55	8°23'36
max. Earth dist.	4793 Jun 04 17:20	17° <b>Ⅱ</b> 06'59	1.72680 AU	min. Earth dist.	4795 Oct 20 09:11	27° <b>₽</b> 03'56	0.28620 AU
	4793 Jun 15 03:18	$0$ $\circ$ $\odot$		morning rise	4795 Oct 23 09:01	25° <b>≙</b> 14'00	
asc. node	4793 Jun 19 13:49	5° <b>5</b> 28'56		direct	4795 Nov 10 01:06	19° <b>≙</b> 17'20	
evening rise	4793 Jul 09 04:46	29° <b>5</b> 39'44		greatest brilliancy	4795 Nov 21 04:51	21° <b>≏</b> 34'39	-4.8m
	4793 Jul 09 11:21	$0$ $^{\circ}$ $\Omega$		asc. node	4795 Dec 05 08:50	29° <b>≙</b> 37'54	
	4793 Aug 02 22:00	0° <b>m</b> p			4795 Dec 05 21:03	0°M	
	4793 Aug 27 11:44	0∘ <b>ত</b>		morning max el	4795 Dec 30 07:26	21°M41'03	46°35'59
	4793 Sep 21 05:58	0° <b>M</b>			4796 Jan 07 08:39	0° <b>∡</b> ¹	
desc. node	4793 Oct 09 04:43	21°M32'58			4796 Feb 03 06:42	0°ප	
	4793 Oct 16 06:41	0° <b>∡</b> ¹			4796 Feb 28 15:35	0° <b>≈</b>	
	4793 Nov 10 16:45	0°ಕ			4796 Mar 24 09:00	0° <b>∀</b>	
	4793 Dec 06 18:58	0° <b>≈</b>		desc. node	4796 Mar 25 23:52	1° <b>¥</b> 58'47	
	4794 Jan 03 12:44	0° <b>)</b> €			4796 Apr 17 19:34	$0^{\circ}\Upsilon$	
evening max el	4794 Jan 05 05:37		47°05'19		4796 May 12 03:41	$9^{\circ}$ 8	
asc. node	4794 Jan 30 06:33	24° <b>)</b> €09'13			4796 Jun 05 11:49	$\Pi$ °0	
	4794 Feb 08 05:51	$0^{\circ}\Upsilon$			4796 Jun 29 20:50	0°©	
greatest brilliancy	4794 Feb 14 22:31	3° <b>Y</b> 06'44	-4.9m	morning set	4796 Jul 03 13:38	4° <b>©</b> 32'58	
retrograde	4794 Feb 24 22:50	5° <b>Ƴ</b> 01'42		asc. node	4796 Jul 17 01:41	21° <b>©</b> 09'09	
	4794 Mar 12 22:49	30° <b>₹</b> ₩			4796 Jul 24 06:24	$0^{\circ}\Omega$	
evening set	4794 Mar 14 10:35	29° <b>)</b> €07'33		max. Earth dist.	4796 Aug 09 04:00	19° <b>Ω</b> 33'19	1.73478 AU
min. Earth dist.	4794 Mar 17 02:53	27° <b>∺</b> 29′20	0.27102 AU				

superior conj	4796 Aug 09 14:10	20° <b>Ω</b> 04'34	0°52'22	greatest brilliancy	4799 Jan 31 04:29	3° <b>る</b> 31'24	-4.9m
minimum elong	4796 Aug 09 05:24	19° <b>Ω</b> 37'36		greatest stimule;	4799 Mar 07 16:21	0°≈	,
8	4796 Aug 17 15:42	0°m)		morning max el	4799 Mar 12 06:49	4° <b>≈</b> 34'44	46°58'31
	4796 Sep 11 00:29	0∘ <u>⊽</u>		5 5	4799 Apr 05 00:14	0° <b>∀</b>	
evening rise	4796 Sep 14 14:38	4° <b>£</b> 25'17		desc. node	4799 Apr 23 11:42	21° <b>)</b> 05'25	
C	4796 Oct 05 09:18	0°M₊			4799 May 01 03:02	$_{0}$ $^{\circ}$ $\Upsilon$	
	4796 Oct 29 19:00	0° <b>∡</b> ¹			4799 May 26 10:33	0°8	
desc. node	4796 Nov 05 16:33	8° <b>≯</b> 28'02			4799 Jun 20 09:56	$\Pi^{\circ}0$	
	4796 Nov 23 06:11	0°ರ			4799 Jul 15 05:28	0°ಅ	
	4796 Dec 17 19:28	0° <b>≈</b>			4799 Aug 08 22:02	$0^{\circ}\Omega$	
	4797 Jan 11 13:11	0° <b>)</b> €		asc. node	4799 Aug 14 13:37	6° <b>£</b> 53′20	
	4797 Feb 05 18:08	$0$ ° $\mathbf{\Upsilon}$			4799 Sep 02 11:05	0° <b>m</b>	
asc. node	4797 Feb 26 18:28	24° <b>Y</b> 03'40		morning set	4799 Sep 10 19:31	10° <b>m</b> 15'19	
	4797 Mar 04 03:45	$8^{\circ}$ 0			4799 Sep 26 20:18	0∘ <b>ত</b>	
evening max el	4797 Mar 18 13:30	15° <b>8</b> 10'58	46°53'38	max. Earth dist.	4799 Oct 14 14:13	21° <b>≏</b> 56'37	1.72852 AU
	4797 Apr 03 06:35	$\Pi^{\circ}0$					
greatest brilliancy	4797 Apr 27 09:29	15° <b>Ⅱ</b> 51'13	-4.8m	superior conj	4799 Oct 17 07:38	25° <b>≏</b> 19'07	1°23'17
retrograde	4797 May 08 00:27	17° <b>Ⅱ</b> 57'47		minimum elong	4799 Oct 17 11:44	25° <b>≏</b> 31'50	1°23'14
evening set	4797 May 23 22:37	12° <b>Ⅱ</b> 58'12			4799 Oct 21 02:18	0° <b>M</b> ₊	
inferior conj	4797 May 29 03:03	9° <b>Ⅱ</b> 49′03	4°43'25		4799 Nov 14 06:16	0° <b>∡</b>	
minimum elong	4797 May 29 12:14	9° <b>Ⅱ</b> 34'43	4°41'00	evening rise	4799 Nov 24 01:00	12° <b>₹</b> 09'31	
min. Earth dist.	4797 May 28 23:56	9° <b>Ⅱ</b> 53'54	0.28077 AU	desc. node	4799 Dec 04 04:26	24° <b>∡</b> ¹46'40	
morning rise	4797 Jun 04 02:21	6° <b>Ⅱ</b> 14'42			4799 Dec 08 09:07	0°ප	
desc. node	4797 Jun 18 09:08	1° <b>Ⅱ</b> 47'53			4800 Jan 01 11:21	0° <b>≈</b>	
direct	4797 Jun 19 05:26	1° <b>Ⅱ</b> 47′02			4800 Jan 25 13:40	0° <b>∀</b>	
greatest brilliancy	4797 Jun 29 01:17	3° <b>Ⅱ</b> 33'27	-4.8m		4800 Feb 18 18:12	$0$ ° $\mathbf{\gamma}$	
	4797 Aug 05 04:46	$0$ $\circ$ $\odot$			4800 Mar 14 05:16	$0^{\circ}S$	
morning max el	4797 Aug 07 03:45		45°45'59	asc. node	4800 Mar 26 06:15	14° <b>8</b> 32'31	
	4797 Sep 03 12:20	$0^{\circ}\Omega$			4800 Apr 08 06:08	$\Pi^{\circ}0$	
	4797 Sep 30 06:26	0° <b>m</b> ∕			4800 May 04 10:24	$0$ $\circ$ $\odot$	
asc. node	4797 Oct 09 11:19	10° <b>m</b> 40'50		evening max el	4800 May 28 16:18	25° <b>5</b> 29'17	45°56'13
	4797 Oct 25 19:35	0∘ <b>⊽</b>			4800 Jun 02 08:44	$0^{\circ}\Omega$	
	4797 Nov 19 15:06	0°M₊		greatest brilliancy	4800 Jul 05 21:20	24° <b>Ω</b> 06'51	-4.7m
	4797 Dec 13 23:39	0° <b>∡</b>		desc. node	4800 Jul 15 21:12	26° <b>Ω</b> 17'28	
	4798 Jan 07 01:44	0° <b>ठ</b>		retrograde	4800 Jul 16 21:22	26° <b>Ω</b> 18'39	
desc. node	4798 Jan 29 02:03	27° <b>る</b> 34'57		evening set	4800 Aug 01 11:43	21° <b>Ω</b> 38'13	
	4798 Jan 31 00:16	0° <b>≈</b>		inferior conj	4800 Aug 07 10:12	18° <b>Ω</b> 02'41	
greatest brilliancy	4798 Jan 31 18:34	0° <b>≈</b> 57'28	-3.9m	minimum elong	4800 Aug 07 00:56	18° <b>Ω</b> 17'14	
morning set	4798 Feb 03 07:12	4°≈07'47		min. Earth dist.	4800 Aug 07 00:57		0.28979 AU
	4798 Feb 23 21:05	0° <b>∺</b>		morning rise	4800 Aug 12 14:18	14° <b>£</b> 53′11	
	.=	2001/1002		direct	4800 Aug 28 23:29	9° <b>Ω</b> 47'41	
superior conj	4798 Mar 16 16:39	26° <b>∺</b> 10'36		greatest brilliancy	4800 Sep 08 02:37	11° <b>Ω</b> 37'56	-4.7m
minimum elong	4798 Mar 16 10:17	25° <b>¥</b> 50'34			4800 Oct 06 05:26	0° m)	45051100
max. Earth dist.	4798 Mar 18 23:51		1.71271 AU	morning max el	4800 Oct 16 20:06	9° m/45'33	45°51′23
	4798 Mar 19 17:40	0°Υ		asc. node	4800 Nov 05 23:07	0° <b>ჲ</b> 26'23	
	4798 Apr 12 15:45	0°8			4800 Nov 05 13:20	0∘ <b>亚</b>	
evening rise	4798 Apr 26 05:45	16° <b>႘</b> 57'57 0° <b>Ⅱ</b>			4800 Dec 02 05:01	0° <b>M</b> 0° <b>⊀</b>	
aga mada	4798 May 06 17:08 4798 May 22 04:01	0 Ⅱ 19°Ⅱ08'40			4800 Dec 27 10:53 4801 Jan 21 00:19	0°る	
asc. node	-	0°95				0°≈	
	4798 May 30 23:17	0° <b>U</b>		daga mada	4801 Feb 14 05:28		
	4798 Jun 24 11:22 4798 Jul 19 07:02			desc. node	4801 Feb 25 14:02	14°≈09'12 0° <b>米</b>	
	4798 Aug 13 13:37	0 <b>்⊽</b> 0∘∭			4801 Mar 10 06:34 4801 Apr 03 06:12	0 <del>Υ</del> 0° <b>Υ</b>	
	4798 Sep 08 14:00	0° <b>m</b>		morning set	4801 Apr 20 22:25	22° <b>Υ</b> 05'43	
desc. node	4798 Sep 10 18:47	2°M28'47		morning set	4801 Apr 27 06:24	0° <b>8</b>	
desc. Hode	4798 Oct 05 23:59	2 1162847 0°×7			4801 May 21 08:43	0°II	
evening max el	4798 Oct 03 23:59 4798 Oct 21 23:51	16° <b>₹</b> 10'21	46°10'49		4601 May 21 06.43	υц	
Svening max ci	4798 Oct 21 23:31 4798 Nov 06 07:32	10 <b>メ</b> 1021	TO 10 T/	superior conj	4801 May 29 23:10	10° <b>Ⅱ</b> 40'25	-0°45'06
greatest brilliancy	4798 Nov 30 20:12	0 3 15° <b>ਰ</b> 14'47	-4 8m	minimum elong	4801 May 30 08:18	10 <b>H</b> 4023	
retrograde	4798 Nov 30 20.12 4798 Dec 10 08:37	15 81447 16° <b>8</b> 54'46	7.0111	max. Earth dist.	4801 Jun 02 07:57	11 <b>1</b> 10842 14° <b>1</b> 150'41	1.72629 AU
evening set	4798 Dec 10 08:37 4798 Dec 24 19:54	10 03440 12° <b>3</b> 49'23		max. Darm dist.	4801 Jun 14 13:56	0°9	1.,202) AU
inferior conj	4798 Dec 24 19:34 4798 Dec 31 00:01	9° <b>る</b> 12'56	-0°28'48	asc. node	4801 Jun 18 15:54	5°902'35	
minimum elong	4798 Dec 31 00:01 4798 Dec 31 01:08	9° <b>ට</b> 1230		evening rise	4801 Jul 06 21:54	27° <b>©</b> 32'09	
min. Earth dist.	4798 Dec 31 01:08 4798 Dec 31 09:04	8° <b>る</b> 59'06			4801 Jul 08 21:59	0°Ω	
asc. node	4799 Jan 01 20:41	8° <b>ਰ</b> 04'51	0.20010710		4801 Aug 02 08:43	0° <b>m</b>	
morning rise	4799 Jan 06 05:54	5° <b>ප</b> 33'30			4801 Aug 26 22:42	0∘ <b>ಹ</b>	
direct	4799 Jan 20 16:31	1° <b>る</b> 26'21			4801 Sep 20 17:25	0° <b>™</b>	

desc. node	4801 Oct 08 06:41	21°M03'00			4804 Feb 02 21:29	0° <b>ප</b>	
	4801 Oct 15 18:58	0°⊀			4804 Feb 28 04:41	0° <b>≈</b>	
	4801 Nov 10 06:23	0°ಕ			4804 Mar 23 21:13	0° <b>∀</b>	
	4801 Dec 06 11:08	0° <b>≈</b>		desc. node	4804 Mar 25 01:47	1° <b>∺</b> 27′22	
evening max el	4802 Jan 02 18:39	29°≈18'11	47°04'14		4804 Apr 17 07:14	0°Υ	
	4802 Jan 03 11:17	0° <b>∀</b>			4804 May 11 14:57	0°B	
asc. node	4802 Jan 29 08:42	22° <b>)</b> 50′01			4804 Jun 04 22:46	$\Pi^{\circ}0$	
	4802 Feb 10 18:57	0° <b>Υ</b>		_	4804 Jun 29 07:33	0°€	
greatest brilliancy	4802 Feb 12 11:49	0° <b>Υ</b> 40'14	-4.9m	morning set	4804 Jul 01 06:18	2°523'44	
retrograde	4802 Feb 22 12:02	2° <b>Υ</b> 35'29		asc. node	4804 Jul 16 03:44	20°542'50	
	4802 Mar 05 18:06	30° <b>R</b> <del>X</del> 4€/57			4804 Jul 23 16:59	$0^{\circ}\Omega$	
evening set	4802 Mar 11 19:49	26° <b>)</b> 46′57 25° <b>)</b> 03′53	0.27069 ATT		1004 4 07 07-52	170 0 50151	0940147
min. Earth dist.	4802 Mar 14 15:34	23° <b>X</b> 03'53 24° <b>X</b> 42'57	0.27068 AU	superior conj	4804 Aug 07 07:52	17° <b>Ω</b> 58'51 17° <b>Ω</b> 32'28	
inferior conj minimum elong	4802 Mar 15 05:08 4802 Mar 14 23:03	24° <b>H</b> 52'20	8°42'00 8°41'27	minimum elong max. Earth dist.	4804 Aug 06 23:17 4804 Aug 07 02:41	17 <b>δ ί</b> 32 28 17° <b>Ω</b> 42'55	0°49'26 1.73474 AU
morning rise	4802 Mar 18 02:24	24 <b>X</b> 32 20 22° <b>X</b> 57'01	8 41 27	max. Earth dist.	4804 Aug 17 02:16	0° Mp	1./34/4 AU
direct	4802 Apr 04 17:32	16° <b>)</b> 57'31			4804 Sep 10 11:07	0° <del>ت</del>	
greatest brilliancy	4802 Apr 14 00:12	18° <b>)</b> 34'41	-4.9m	evening rise	4804 Sep 12 08:41	o <b>—</b> 2° <b>Ω</b> 20'15	
greatest orimancy	4802 May 03 14:59	0° <b>γ</b>	-4.9111	evening rise	4804 Oct 04 20:07	0°M	
desc. node	4802 May 20 23:27	15°Υ12'29			4804 Oct 29 06:05	0°×7	
morning max el	4802 May 24 14:33	18° <b>Υ</b> 44'02	46°26'11	desc. node	4804 Nov 04 18:34	7° <b>₹</b> 159'54	
	4802 Jun 04 16:26	0°8	.0 2011	dese. node	4804 Nov 22 17:40	0°る	
	4802 Jul 02 04:09	0°II			4804 Dec 17 07:32	0° <b>≈</b>	
	4802 Jul 28 07:48	0°©			4805 Jan 11 02:10	0° <b>)</b> €	
	4802 Aug 22 19:40	$0^{\circ}\Omega$			4805 Feb 05 08:42	$_0$ ° $\gamma$	
asc. node	4802 Sep 11 01:24	23° <b>Ω</b> 01'02		asc. node	4805 Feb 25 20:21	23° <b>Y</b> 21'32	
	4802 Sep 16 20:23	0° mp			4805 Mar 03 21:55	0°8	
	4802 Oct 11 11:51	0∘ <b>⊽</b>		evening max el	4805 Mar 16 05:13	12° <b>8</b> 54'15	46°55'02
	4802 Nov 04 20:02	0°M			4805 Apr 03 14:49	$\Pi^{\circ}0$	
morning set	4802 Nov 18 22:48	17° <b>M</b> 31'15		greatest brilliancy	4805 Apr 25 01:31	13° <b>Ⅲ</b> 35′17	-4.8m
	4802 Nov 28 23:14	0° <b>∡</b> ¹		retrograde	4805 May 05 15:55	15° <b>Ⅱ</b> 40′53	
	4802 Dec 22 23:21	8°0		evening set	4805 May 21 16:24	10° <b>Ⅱ</b> 37'52	
max. Earth dist.	4802 Dec 25 10:37	3° <b>ප</b> 05'35	1.71572 AU	inferior conj	4805 May 26 17:55	7° <b>Ⅱ</b> 32'39	5°01'51
				minimum elong	4805 May 27 03:28	7° <b>Ⅱ</b> 17'43	4°59'24
superior conj	4802 Dec 27 18:26	6° <b>る</b> 00'23	0°09'26	min. Earth dist.	4805 May 26 14:46		0.28045 AU
minimum elong	4802 Dec 27 20:47	6° <b>ප</b> 07'48	0°09'20	morning rise	4805 Jun 01 15:03	4° <b>Ⅱ</b> 01'12	
behind sun begin	4802 Dec 26 23:50	5° <b>る</b> 02'09			4805 Jun 11 23:17	30° <b>₹</b> 8	
behind sun end	4802 Dec 28 17:44	7° <b>る</b> 13'26		direct	4805 Jun 16 20:19	29° <b>8</b> 31'23	
desc. node	4802 Dec 31 16:20	10° <b>る</b> 54'38		desc. node	4805 Jun 17 11:16	29° <b>8</b> 31'51	
	4803 Jan 15 21:35	0°≈			4805 Jun 21 20:12	0°II	
evening rise	4803 Feb 06 07:53	26°≈54'55		greatest brilliancy	4805 Jun 26 14:43	1° <b>II</b> 16'40	
	4803 Feb 08 18:50	0° <b>)</b> €		morning max el	4805 Aug 04 18:49	29° <b>Ⅱ</b> 38'30	45°46'37
	4803 Mar 04 16:31	$^{\circ \gamma}$			4805 Aug 05 03:48	0° <b>⊙</b>	
	4803 Mar 28 16:56 4803 Apr 21 23:01	0°B 0°B			4805 Sep 03 04:06	0° <b>Ω</b> 0° <b>™</b>	
aga mada	*	0 H 2°∏12'22		asc. node	4805 Sep 29 19:41 4805 Oct 08 13:16	0 mg/09'16	
asc. node	4803 Apr 23 18:08 4803 May 16 14:18	2 <b>म</b> 1222		asc. node	4805 Oct 08 13:16 4805 Oct 25 07:40	0 <b>்⊽</b> மெ∭்09 10	
	4803 Jun 10 19:44	0°Ω			4805 Nov 19 02:36	0° <b>M</b>	
	4803 Jul 07 01:20	0° mp			4805 Dec 13 10:48	0° <b>⊼</b>	
	4803 Aug 04 11:18	0∘ <b>ರ</b> ೧.ಗಿ			4806 Jan 06 12:43	°ਤ ਹ°ਤ	
evening max el	4803 Aug 08 07:32	3° <b>≏</b> 43'52	45°31'54	desc. node	4806 Jan 28 04:08	27° <b>る</b> 07'13	
desc. node	4803 Aug 13 09:04	8° <b>£</b> 28'36	515.	4050. 11040	4806 Jan 30 11:10	0°≈	
	4803 Sep 11 23:06	0°M		greatest brilliancy	4806 Jan 31 00:45	0° <b>≈</b> 42'38	-3.9m
greatest brilliancy	4803 Sep 16 06:04	1° <b>M</b> 42'07	-4.7m	morning set	4806 Jan 31 17:59	1°≈36'45	
retrograde	4803 Sep 25 23:40	3°M24'33		<i>5</i> ·	4806 Feb 23 07:56	0° <b>)</b> €	
C	4803 Oct 09 04:43	30° <b>Ŗ</b> Ω					
evening set	4803 Oct 13 23:57	27° <b>≏</b> 20'32		superior conj	4806 Mar 14 03:33	23° <b>)</b> 39′57	-1°22'38
inferior conj	4803 Oct 17 06:53	25° <b>≙</b> 19'19	-8°28'20	minimum elong	4806 Mar 13 20:16	23° <b>) 17</b> ′02	1°22'31
minimum elong	4803 Oct 17 11:07	25° <b>≙</b> 12'44	8°28'04	max. Earth dist.	4806 Mar 16 08:03		1.71246 AU
min. Earth dist.	4803 Oct 17 23:19	24° <b>£</b> 53'45	0.28669 AU		4806 Mar 19 04:31	$0^{\circ}$ Y	
morning rise	4803 Oct 20 22:05	23° <b>≏</b> 05'20			4806 Apr 12 02:36	$9^{\circ}$ 8	
direct	4803 Nov 07 17:36	17° <b>≏</b> 04'39		evening rise	4806 Apr 23 17:41	14° <b>8</b> 31'35	
greatest brilliancy	4803 Nov 18 19:30	19° <b>≏</b> 20′28	-4.8m		4806 May 06 04:02	$\Pi^{\circ}0$	
asc. node	4803 Dec 04 10:51	28° <b>£</b> 26'43		asc. node	4806 May 21 06:05	18° <b>Ⅱ</b> 41′05	
	4803 Dec 06 12:00	0°M			4806 May 30 10:19	0ංම	
morning max el	4803 Dec 27 23:28	19°M26'36	46°34'22		4806 Jun 23 22:41	$0^{\circ}\Omega$	
	4804 Jan 07 03:29	0° <b>∡</b> ¹			4806 Jul 18 18:51	0° <b>m</b> ∕	

	4806 Aug 13 02:22	0∘ <b>ত</b>		desc. node	4809 Feb 24 15:53	13° <b>≈</b> 39'04	
	4806 Sep 08 04:33	0° <b>M</b>			4809 Mar 09 17:58	0° <b>∀</b>	
desc. node	4806 Sep 09 20:44	1°M52'52			4809 Apr 02 17:23	$0^{\circ}\mathbf{\Upsilon}$	
	4806 Oct 05 18:41	0° <b>∡</b> ¹		morning set	4809 Apr 18 10:54	19° <b>Ƴ</b> 40'11	
evening max el	4806 Oct 19 12:58	13° <b>х</b> 49'30	46°08'43	Č	4809 Apr 26 17:25	0° <b>႘</b>	
o ronning man or	4806 Nov 06 18:47	0°ਰ	.0 00 .5		4809 May 20 19:37	0°II	
arantant brillianav		12° <b>る</b> 52'01	-4.8m		400) Way 20 17.37	ОД	
greatest brilliancy	4806 Nov 28 10:15		-4.8m		400034 07 1404	00 <b>T2</b> 440	00.4010.5
retrograde	4806 Dec 07 20:27	14° <b>る</b> 30'23		superior conj	4809 May 27 14:04	8° <b>Ⅱ</b> 24'10	
evening set	4806 Dec 22 09:57	10° <b>る</b> 23'19		minimum elong	4809 May 27 23:37	8° <b>Ⅱ</b> 53'47	0°47'42
inferior conj	4806 Dec 28 12:56	6° <b>る</b> 48'32	-0°52'43	max. Earth dist.	4809 May 30 22:52	12° <b>Ⅱ</b> 34'36	1.72580 AU
minimum elong	4806 Dec 28 14:58	6° <b>ප</b> 45'27	0°52'02		4809 Jun 14 00:46	$0$ $\circ$ $\odot$	
min. Earth dist.	4806 Dec 28 23:46	6° <b>ප</b> 31'58	0.26875 AU	asc. node	4809 Jun 17 17:57	4° <b>©</b> 35'27	
asc. node	4806 Dec 31 22:49	4°₹44'41		evening rise	4809 Jul 04 15:12	25° <b>©</b> 24'18	
morning rise	4807 Jan 03 19:22	3° <b>⋜</b> 07'54		8	4809 Jul 08 08:51	$0^{\circ}\Omega$	
morning rise	4807 Jan 11 07:00	30°R. <b>₹</b>			4809 Aug 01 19:45	0° m)	
1					-	-	
direct	4807 Jan 18 05:21	29° <b>₹</b> 01'03			4809 Aug 26 10:04	0∘ <b>⊽</b>	
	4807 Jan 25 08:30	0°₹			4809 Sep 20 05:19	0° <b>M</b>	
greatest brilliancy	4807 Jan 28 19:53	1°₹08'01	-4.9m	desc. node	4809 Oct 07 08:41	20°M31'54	
	4807 Mar 07 16:28	0° <b>≈</b>			4809 Oct 15 07:43	0° <b>∡</b> 7	
morning max el	4807 Mar 09 19:21	2° <b>≈</b> 07'46	46°58'51		4809 Nov 09 20:33	8°0	
•	4807 Apr 04 16:55	0° <b>∀</b>			4809 Dec 06 03:59	0° <b>≈</b>	
desc. node	4807 Apr 22 13:46	20° <b>)</b> €29'01		evening max el	4809 Dec 31 08:33	26° <b>≈</b> 54'03	47°03'13
dese. Hode	4807 Apr 30 17:03	0°Υ		evening max er	4810 Jan 03 11:12	0° <b>∀</b>	47 03 13
	•					0 <del>X</del> 26'49	
	4807 May 25 23:13	0° <b>8</b>		asc. node	4810 Jan 28 10:36		
	4807 Jun 19 21:49	$\Pi^{\circ}0$		greatest brilliancy	4810 Feb 10 00:28	28° <b>)</b> 12′03	-4.9m
	4807 Jul 14 16:51	0			4810 Feb 17 11:30	$0$ ° $\Upsilon$	
	4807 Aug 08 09:05	$0^{\circ}\Omega$		retrograde	4810 Feb 20 01:39	0° <b>Y</b> 08'09	
asc. node	4807 Aug 13 15:33	6° <b>Ω</b> 25'43			4810 Feb 22 15:04	30°₽ <b>)</b>	
	4807 Sep 01 21:56	0° m		evening set	4810 Mar 09 04:46	24° <b>¥</b> 25'31	
morning set	4807 Sep 08 12:53	8° mp 07'58		min. Earth dist.	4810 Mar 12 03:53	22° <b>)</b> 37'42	0.27032 AU
morning sec	4807 Sep 26 07:03	0∘ <b>⊽</b>		inferior conj	4810 Mar 12 17:58	22° <b>X</b> 16'01	8°34'52
F 4 F 4	•		1 72004 ATT	•			
max. Earth dist.	4807 Oct 12 07:36	19° <b>≏</b> 48'31	1.72894 AU	minimum elong	4810 Mar 12 11:06	22°\(\frac{1}{2}26'35	8°34'10
				morning rise	4810 Mar 15 17:35	20° <b>¥</b> 26′53	
superior conj	4807 Oct 15 00:36	23° <b>≏</b> 09'43	1°23'56	direct	4810 Apr 02 06:20	14° <b>∺</b> 30'59	
minimum elong	4807 Oct 15 04:00	23° <b>≏</b> 20'16	1°23'55	greatest brilliancy	4810 Apr 11 12:37	16° <b>∺</b> 08′21	-4.9m
	4807 Oct 20 13:04	$0^{\circ}$ M.			4810 May 04 04:45	$0^{\circ}\mathbf{\Upsilon}$	
	4807 Nov 13 17:10	0° <b>∡</b> ¹		desc. node	4810 May 20 01:31	14° <b>Ƴ</b> 18'19	
evening rise	4807 Nov 21 15:28	9° <b>₹</b> 51'14		morning max el	4810 May 22 05:07	16° <b>Y</b> ′24'28	46°27'57
desc. node	4807 Dec 03 06:32	24° <b>х</b> 18'47		morning max cr	4810 Jun 04 11:49	0°8	40 27 37
desc. Hode					4810 Jul 01 19:10		
	4807 Dec 07 20:13	ව°0 0°				0°Ⅱ	
	4807 Dec 31 22:41	0° <b>≈</b>			4810 Jul 27 20:53	0ა <b>ௐ</b>	
	4808 Jan 25 01:16	0° <b>ℋ</b>			4810 Aug 22 07:44	$0^{\circ}\Omega$	
	4808 Feb 18 06:09	$0$ ° $\mathbf{\Upsilon}$		asc. node	4810 Sep 10 03:22	22° <b>Ω</b> 31′59	
	4808 Mar 13 17:48	$9^{\circ}$ 8			4810 Sep 16 07:53	0° <b>m</b> ∕	
asc. node	4808 Mar 25 08:15	13° <b>8</b> 59'35			4810 Oct 10 23:03	0∘ <b>ত</b>	
	4808 Apr 07 19:49	$\Pi^{\circ}$			4810 Nov 04 07:07	0°M	
	4808 May 04 02:39	0°ಅ		morning set	4810 Nov 16 14:12	15°M15'34	
avaning may al	4808 May 26 06:56	23° <b>©</b> 13'52	15057151	morning sec		0° <b>⊼</b>	
evening max el	•		<del>1</del> 3 3/3 <del>4</del>		4810 Nov 28 10:17		
	4808 Jun 02 09:11	$0^{\circ}\Omega$			4810 Dec 22 10:25	0° <b>ろ</b>	
greatest brilliancy	4808 Jul 03 13:16	21° <b>Ω</b> 56'34	-4.7m	max. Earth dist.	4810 Dec 22 22:35	0° <b>る</b> 38'03	1.71608 AU
retrograde	4808 Jul 14 13:38	24° <b>Ω</b> 09'19					
desc. node	4808 Jul 14 23:14	24° <b>Ω</b> 09'08		superior conj	4810 Dec 25 06:38	3° <b>る</b> 33'33	0°13'13
evening set	4808 Jul 30 02:06	19° <b>Ω</b> 31'10		minimum elong	4810 Dec 25 09:54	3° <b>る</b> 43'48	0°13'03
min. Earth dist.	4808 Aug 04 17:19	16° <b>Ω</b> 07'44	0.28960 AU	behind sun begin	4810 Dec 24 18:44	2° <b>る</b> 56'17	
inferior conj	4808 Aug 05 02:32	15° <b>Ω</b> 53'16		behind sun end	4810 Dec 26 01:04	4° <b>ට</b> 31'18	
minimum elong	4808 Aug 04 17:33	16° <b>Ω</b> 07'22		desc. node	4810 Dec 30 18:20	10°る26'07	
•	•		4 43 10	desc. Hode			
morning rise	4808 Aug 10 09:07	12° <b>Ω</b> 40′21			4811 Jan 15 08:42	0° <b>≈</b>	
direct	4808 Aug 26 15:04	7° <b>Ω</b> 38′20		evening rise	4811 Feb 03 18:44	24°≈23'02	
greatest brilliancy	4808 Sep 05 19:04	9° <b>Ω</b> 29'12	-4.7m		4811 Feb 08 06:03	0° <b>∀</b>	
	4808 Oct 06 08:30	0° <b>m</b> p			4811 Mar 04 03:52	$0^{\circ}$ Y	
morning max el	4808 Oct 14 11:27	7° <b>m</b> ,33′10	45°50'27		4811 Mar 28 04:27	$0^{\circ}$ 8	
asc. node	4808 Nov 05 01:13	29° Mp 46'39			4811 Apr 21 10:49	$\Pi^{\circ}0$	
	4808 Nov 05 06:09	0∘ <u>v</u>		asc. node	4811 Apr 22 20:14	1° <b>Ⅱ</b> 42'32	
	4808 Dec 01 18:56	0° <b>M</b>			4811 May 16 02:35	0.20 0.20	
	4808 Dec 26 23:32	0° <b>⊼</b> ¹			4811 Jun 10 09:00	0°N	
	4809 Jan 20 12:21	5°0			4811 Jul 06 16:45	0° <b>m</b>	
	4809 Feb 13 17:08	0° <b>≈</b>			4811 Aug 04 08:48	0∘ <b>⊽</b>	

evening max el	4811 Aug 05 23:36	1° <b>≏</b> 33'26	45021120	desc. node	4814 Jan 27 06:05	26° <b>පි</b> 38'10	
desc. node	4811 Aug 12 10:58	7° <b>£</b> 35'17	45 51 56	morning set	4814 Jan 29 04:23	20 <b>3</b> 36 10 29° <b>る</b> 03'32	
greatest brilliancy	4811 Sep 13 19:36	29° <b>£</b> 28'33	-4 7m	morning set	4814 Jan 29 22:22	0°≈	
greatest oriniancy	4811 Sep 15 11:58	0°M	7.7111		4814 Feb 22 19:06	0° <b>₩</b>	
retrograde	4811 Sep 23 14:45	1°ML11'57			1011100 22 19.00	٠ ٨	
renograde	4811 Oct 01 09:45	30° <b>R</b> Ω		superior conj	4814 Mar 11 13:59	21° <b>)</b> €06'54	-1°21'17
evening set	4811 Oct 11 16:10	25° <b>≏</b> 06'21		minimum elong	4814 Mar 11 05:50	20° <b>)</b> 41′19	
inferior conj	4811 Oct 14 22:22	23° <b>ഫ</b> 05'56	-8°31'48	max. Earth dist.	4814 Mar 13 12:01	23° <b>)</b> 31'34	1.71218 AU
minimum elong	4811 Oct 15 01:51	23° <b>ഫ</b> 00'31			4814 Mar 18 15:38	$_0$ ° $\boldsymbol{\gamma}$	
min. Earth dist.	4811 Oct 15 13:33	22° <b>≏</b> 42'17	0.28720 AU		4814 Apr 11 13:41	0°8	
morning rise	4811 Oct 18 11:23	20° <b>£</b> 55'03		evening rise	4814 Apr 21 05:11	12° <b>8</b> 03'08	
direct	4811 Nov 05 10:11	14° <b>≙</b> 50'55			4814 May 05 15:08	$\Pi^{\circ}0$	
greatest brilliancy	4811 Nov 16 10:08	17° <b>≙</b> 04'53	-4.8m	asc. node	4814 May 20 08:08	18° <b>Ⅲ</b> 12'55	
asc. node	4811 Dec 03 12:55	27° <b>≙</b> 16'09			4814 May 29 21:33	0°€	
	4811 Dec 06 23:50	0°M			4814 Jun 23 10:11	$0^{\circ}\Omega$	
morning max el	4811 Dec 25 14:40	17°M08'36	46°32'44		4814 Jul 18 06:51	O° Mp	
	4812 Jan 06 22:23	0° <b>∡</b> ¹			4814 Aug 12 15:17	0∘ <b>ত</b>	
	4812 Feb 02 12:32	ರ°0			4814 Sep 07 19:20	$0^{\circ}$ M.	
	4812 Feb 27 18:05	0°≈		desc. node	4814 Sep 08 22:50	1°M16'57	
	4812 Mar 23 09:44	0° <b>ℋ</b>			4814 Oct 05 13:54	0° <b>∡</b> ¹	
desc. node	4812 Mar 24 03:53	0° <b>升</b> 55'37		evening max el	4814 Oct 17 01:28	11° <b>∡</b> ¹27′26	46°06'41
	4812 Apr 16 19:11	$0$ ° $\mathbf{\Upsilon}$			4814 Nov 07 09:45	0°ප	
	4812 May 11 02:30	$9^{\circ}$ 8		greatest brilliancy	4814 Nov 25 23:57	10° <b>る</b> 29'14	-4.8m
	4812 Jun 04 10:01	$\Pi$ $^{\circ}0$		retrograde	4814 Dec 05 08:36	12° <b>る</b> 06'39	
morning set	4812 Jun 28 23:13	0° <b>©</b> 14'17		evening set	4814 Dec 20 00:15	7° <b>る</b> 57'07	
	4812 Jun 28 18:34	0		inferior conj	4814 Dec 26 01:59	4° <b>る</b> 24'22	
asc. node	4812 Jul 15 05:42	20° <b>©</b> 15'19		minimum elong	4814 Dec 26 04:53	4° <b>る</b> 19'55	
	4812 Jul 23 03:51	$0$ $^{\circ}$ $\Omega$		min. Earth dist.	4814 Dec 26 14:27		0.26923 AU
		_		asc. node	4814 Dec 31 00:43	1° <b>る</b> 27'12	
superior conj	4812 Aug 05 01:53	15° <b>Ω</b> 53'18	0°47'09	morning rise	4815 Jan 01 08:47	0° <b>ප</b> 43'03	
minimum elong	4812 Aug 04 17:33	15° <b>Ω</b> 27'40	0°46'49		4815 Jan 02 18:01	30°R.✓	
max. Earth dist.	4812 Aug 05 00:45	15° <b>Ω</b> 49'50	1.73465 AU	direct	4815 Jan 15 18:24	26° <b>₹</b> 35'41	4.0
	4812 Aug 16 13:05	0° <b>m</b>		greatest brilliancy	4815 Jan 26 11:40	28° <b>₹</b> 45'03	-4.9m
	4812 Sep 09 22:02	0∘ <b>⊽</b>		·	4815 Jan 29 09:44	0°る	46050150
evening rise	4812 Sep 10 03:02	0° <b>£</b> 15′23		morning max el	4815 Mar 07 08:39	29° <b>る</b> 41'58	46°58'58
	4812 Oct 04 07:13 4812 Oct 28 17:32	0° <b>M</b> 0° <i>⊀</i>			4815 Mar 07 15:46	0° <b>≈</b> 0° <b>∀</b>	
daga mada		0 <b>x</b> . 7° <b>x</b> 31'00		daga mada	4815 Apr 04 09:33	0 <del>X</del> 19° <b>¥</b> 52'15	
desc. node	4812 Nov 03 20:42 4812 Nov 22 05:34	0°る		desc. node	4815 Apr 21 15:52	19° <b>π</b> 32°13	
	4812 Dec 16 20:06	0°≈			4815 Apr 30 07:09 4815 May 25 11:58	0° <b>8</b>	
	4813 Jan 10 15:40	0 <b>∞</b> 0° <b>H</b>			4815 Jun 19 09:44	0°II	
	4813 Feb 04 23:53	0° <b>Υ</b>			4815 Jul 14 04:15	0°©	
asc. node	4813 Feb 24 22:23	22° <b>Υ</b> 38'15			4815 Aug 07 20:08	$0 {\circ} \Omega$	
asc. node	4813 Mar 03 16:55	0°8		asc. node	4815 Aug 12 17:33	5° <b>Ω</b> 58'18	
evening max el	4813 Mar 13 20:02	10° <b>8</b> 34'09	46°56'34	use. Houe	4815 Sep 01 08:46	0° <b>m</b> )	
e venning man er	4813 Apr 04 02:26	0°II		morning set	4815 Sep 06 06:29	6° Mp 01'23	
greatest brilliancy	4813 Apr 22 18:08	11° <b>Ⅱ</b> 19'14	-4.8m	morning sec	4815 Sep 25 17:47	0∘ <b>ಹ</b>	
retrograde	4813 May 03 06:53	13° <b>Ⅲ</b> 23'19		max. Earth dist.	4815 Oct 10 03:01	o <b>—</b> 17° <b>≏</b> 46'49	1.72932 AU
evening set	4813 May 19 10:22	8° <b>Ⅱ</b> 16'50					
inferior conj	4813 May 24 08:53	5° <b>Ⅱ</b> 15'44	5°19'45	superior conj	4815 Oct 12 18:00	21° <b>≏</b> 01'44	1°24'28
minimum elong	4813 May 24 18:44	5° <b>Ⅱ</b> 00′19		minimum elong	4815 Oct 12 20:43	21° <b>≏</b> 10′08	
min. Earth dist.	4813 May 24 05:57	5° <b>Ⅲ</b> 20′20	0.28011 AU		4815 Oct 19 23:49	0° <b>M</b> .	
morning rise	4813 May 30 03:35	1° <b>Ⅱ</b> 47′20			4815 Nov 13 04:01	0° <b>∡</b> ¹	
	4813 Jun 02 16:17	30° <b>₹</b> 8		evening rise	4815 Nov 19 06:30	7° <b>∡</b> ³34'59	
direct	4813 Jun 14 10:56	27° <b>8</b> 15'10		desc. node	4815 Dec 02 08:31	23° <b>₹</b> 50'48	
desc. node	4813 Jun 16 13:18	27° <b>8</b> 20'18			4815 Dec 07 07:15	ರ°0	
greatest brilliancy	4813 Jun 24 04:43	28° <b>8</b> 59'46	-4.8m		4815 Dec 31 09:57	0° <b>≈</b>	
	4813 Jun 26 19:47	$\Pi^{\circ}0$			4816 Jan 24 12:50	0° <b>)</b> €	
morning max el	4813 Aug 02 09:10	27° <b>Ⅲ</b> 23'11	45°47'24		4816 Feb 17 18:09	$0^{\circ}$ Y	
	4813 Aug 05 02:06	0°©			4816 Mar 13 06:29	0° <b>8</b>	
	4813 Sep 02 19:49	$0^{\circ}\Omega$		asc. node	4816 Mar 24 10:20	13° <b>8</b> 26'29	
	4813 Sep 29 09:01	0°Щ			4816 Apr 07 09:45	$\Pi^{\circ}0$	
asc. node	4813 Oct 07 15:25	9° m 37'59			4816 May 03 19:18	0.00	
	4813 Oct 24 19:52	0∘ <b>亚</b>		evening max el	4816 May 23 22:02	20° <b>©</b> 59'30	45°59'53
	4813 Nov 18 14:14	0°M			4816 Jun 02 11:00	0° <b>Ω</b>	4.5
	4813 Dec 12 22:11	0°⊀ 0° <b>⋜</b>		greatest brilliancy	4816 Jul 01 04:50	19° <b>Ω</b> 45'55	-4./m
	4814 Jan 05 23:58	0°ಕ		retrograde	4816 Jul 12 06:28	22° <b>Ω</b> 00'06	

1 1	4016 1 1 14 01 00	210 0 5 6 120		1 1	4010 D 20 20 17	00=750121	
desc. node	4816 Jul 14 01:09	21° <b>Ω</b> 56′20		desc. node	4818 Dec 29 20:17	9° <b>ප්</b> 58'31	
evening set	4816 Jul 27 16:39	17° <b>Ω</b> 23'59	4020146		4819 Jan 14 19:30	0° <b>≈</b>	
inferior conj	4816 Aug 02 18:50	13° <b>Ω</b> 43'54		evening rise	4819 Feb 01 05:54	21°≈53′16	
minimum elong	4816 Aug 02 10:10	13° <b>Ω</b> 57′29			4819 Feb 07 16:55	0° <b>∀</b>	
min. Earth dist.	4816 Aug 02 09:19	13° <b>Ω</b> 58'49	0.28936 AU		4819 Mar 03 14:50	0° <b>Υ</b>	
morning rise	4816 Aug 08 03:51	10° <b>Ω</b> 27'52			4819 Mar 27 15:35	0°8	
direct	4816 Aug 24 06:57	5° <b>Ω</b> 29'10			4819 Apr 20 22:14	$\Pi$ °0	
greatest brilliancy	4816 Sep 03 11:03	7° <b>Ω</b> 20'22	-4.7m	asc. node	4819 Apr 21 22:15	1° <b>Ⅱ</b> 13'39	
	4816 Oct 06 09:53	0° m/y			4819 May 15 14:33	0	
morning max el	4816 Oct 12 03:39	5° Mp 23′30	45°49'36		4819 Jun 09 22:02	$0$ $\circ$ $\Omega$	
asc. node	4816 Nov 04 03:11	29° <b>№</b> 07'31			4819 Jul 06 08:05	0° <b>m</b> ∕	
	4816 Nov 04 22:26	0。 <b>ত</b>		evening max el	4819 Aug 03 15:08	29° Mp 22'33	45°31'27
	4816 Dec 01 08:30	$0^{\circ}$ M			4819 Aug 04 06:48	0∘ <b>ত</b>	
	4816 Dec 26 11:55	0° <b>∡</b> ¹		desc. node	4819 Aug 11 13:06	6° <b>≙</b> 42'19	
	4817 Jan 20 00:07	0° <b>ප</b>		greatest brilliancy	4819 Sep 11 09:57	27° <b>♀</b> 17'03	-4.7m
	4817 Feb 13 04:33	0° <b>≈</b>		retrograde	4819 Sep 21 05:36	29° <b>≏</b> 00'47	
desc. node	4817 Feb 23 18:01	13°≈10'26		evening set	4819 Oct 09 08:13	22° <b>≙</b> 54'17	
	4817 Mar 09 05:09	0° <b>)</b> €		inferior conj	4819 Oct 12 14:01	20° <b>£</b> 54'13	-8°34'34
	4817 Apr 02 04:24	0°Υ		minimum elong	4819 Oct 12 16:42	20° <b>≏</b> 50'01	8°34'28
morning set	4817 Apr 15 22:58	17° <b>Υ</b> 13'41		min. Earth dist.	4819 Oct 13 04:08	20° <b>₽</b> 32'09	0.28764 AU
morning sec	4817 Apr 26 04:19	0°8		morning rise	4819 Oct 16 01:03	18° <b>Ω</b> 46'00	0.20701110
	4817 May 20 06:26	0°II		direct	4819 Nov 03 02:21	12° <b>Ω</b> 38'55	
	4017 May 20 00.20	од		greatest brilliancy	4819 Nov 14 01:06	14° <b>⊆</b> 51'15	-4.8m
superior conj	4817 May 25 04:24	6° <b>Ⅱ</b> 06'17	0°51'01	asc. node	4819 Dec 02 14:54	26° <b>£</b> 08'47	-4.0111
minimum elong	4817 May 25 14:20	6° <b>Ⅱ</b> 37'06		asc. nouc	4819 Dec 07 07:55	20 <b>=</b> 0847 0° <b>N</b>	
•	•						46921102
max. Earth dist.	4817 May 28 13:44		1.72531 AU	morning max el	4819 Dec 23 04:56	14°M49'45	46°31'03
1	4817 Jun 13 11:31	0°99			4820 Jan 06 16:18	0° <b>⊼</b>	
asc. node	4817 Jun 16 19:53	4°508'13			4820 Feb 02 02:56	% ප	
evening rise	4817 Jul 02 08:02	23°515'24			4820 Feb 27 06:57	0° <b>≈</b>	
	4817 Jul 07 19:36	$0^{\circ}\Omega$			4820 Mar 22 21:45	0° <b>∀</b>	
	4817 Aug 01 06:37	0° <b>т</b> р		desc. node	4820 Mar 23 05:55	0° <b>∺</b> 25'03	
	4817 Aug 25 21:14	0∘ <b>ত</b>			4820 Apr 16 06:39	0° <b>Υ</b>	
	4817 Sep 19 17:02	0°M₊			4820 May 10 13:35	$0^{\circ}S$	
desc. node	4817 Oct 06 10:47	20°M01'42			4820 Jun 03 20:47	$\Pi$ °0	
	4817 Oct 14 20:18	0° <b>∡</b> 7		morning set	4820 Jun 26 16:03	28° <b>Ⅱ</b> 05'48	
	4817 Nov 09 10:34	0°ප			4820 Jun 28 05:10	$0$ $\circ$	
	4817 Dec 05 20:48	0° <b>≈</b>		asc. node	4820 Jul 14 07:44	19° <b>5</b> 549'11	
evening max el	4817 Dec 28 23:21	24° <b>≈</b> 33'28	47°02'10		4820 Jul 22 14:21	$0^{\circ}\Omega$	
	4818 Jan 03 11:46	0° <b>∀</b>					
asc. node	4818 Jan 27 12:38	20° <b>)</b> 02'27		superior conj	4820 Aug 02 19:43	13° <b>Ω</b> 48'18	0°44'27
greatest brilliancy	4818 Feb 07 12:55	25° <b>)</b> 45′14	-4.9m	minimum elong	4820 Aug 02 11:40	13° <b>Ω</b> 23'34	0°44'06
retrograde	4818 Feb 17 15:30	27° <b>)</b> 42′13		max. Earth dist.	4820 Aug 02 20:35	13° <b>Ω</b> 51′00	1.73458 AU
evening set	4818 Mar 06 13:43	22° <b>ℋ</b> 05'53			4820 Aug 15 23:35	0° mp	
min. Earth dist.	4818 Mar 09 16:08	20° <b>ℋ</b> 13'16	0.26998 AU	evening rise	4820 Sep 07 21:07	28° Mp 10'49	
inferior conj	4818 Mar 10 06:55	19° <b>¥</b> 50'31	8°26'49	•	4820 Sep 09 08:36	0∘ <b>⊽</b>	
minimum elong	4818 Mar 09 23:20	20° <b>)</b> 02′12	8°25'56		4820 Oct 03 17:58	0°M	
morning rise	4818 Mar 13 09:08	17° <b>)</b> 57'43			4820 Oct 28 04:35	0° <b>∡</b> ¹	
direct	4818 Mar 30 19:42	12° <b>)</b> €06'06		desc. node	4820 Nov 02 22:36	7° <b>∡</b> 02'39	
greatest brilliancy	4818 Apr 09 00:49	13° <b>)</b> (42'59	-4.9m		4820 Nov 21 17:06	0°る	
<i>B. v v</i>	4818 May 04 14:33	0°Υ			4820 Dec 16 08:18	0° <b>≈</b>	
desc. node	4818 May 19 03:32	13° <b>Y</b> 25'57			4821 Jan 10 04:53	0° <b>∀</b>	
morning max el	4818 May 19 19:35	14° <b>Υ</b> 05'28	46°29'25		4821 Feb 04 14:51	0°Υ	
morning max cr	4818 Jun 04 06:24	0°8	40 2) 23	asc. node	4821 Feb 24 00:31	21° <b>Υ</b> 55'55	
	4818 Jul 01 09:47	0°II		asc. node	4821 Mar 03 12:00	0° <b>8</b>	
		0°©		avanina may al		8° <b>8</b> 12'42	46°58'02
	4818 Jul 27 09:41			evening max el	4821 Mar 11 09:56		40 38 02
1	4818 Aug 21 19:30	0° <b>Ω</b>		4 41 711	4821 Apr 04 17:20	0°П	4.0
asc. node	4818 Sep 09 05:31	22° <b>Ω</b> 04'23		greatest brilliancy	4821 Apr 20 10:53	9° <b>Ⅱ</b> 04'23	-4.9m
	4818 Sep 15 19:03	0° <b>m</b>		retrograde	4821 Apr 30 21:34	11° <b>II</b> 06'57	
	4818 Oct 10 09:55	0∘ <b>亚</b>		evening set	4821 May 17 04:19	5° <b>Π</b> 56'45	5025100
	4818 Nov 03 17:51	0°M		inferior conj	4821 May 21 23:50	3° <b>Ⅱ</b> 00'02	5°37'09
morning set	4818 Nov 14 05:45	13°M01'29		minimum elong	4821 May 22 09:54	2° <b>∏</b> 44'15	5°34'43
	4818 Nov 27 20:59	0° <b>∡</b>		min. Earth dist.	4821 May 21 21:15	3° <b>∏</b> 04'04	0.27978 AU
max. Earth dist.	4818 Dec 20 08:15	28° <b>∡</b> °04'32	1.71645 AU		4821 May 26 22:13	30° <b>₹</b> 8	
	4818 Dec 21 21:09	0°₹		morning rise	4821 May 27 15:54	29° <b>8</b> 35'00	
				direct	4821 Jun 12 01:03	25° <b>8</b> 00'00	
superior conj	4818 Dec 22 19:13	1° <b>る</b> 09'04		desc. node	4821 Jun 15 15:12	25° <b>8</b> 14'50	
minimum elong	4818 Dec 22 23:21	1° <b>る</b> 22'00	0°16'43	greatest brilliancy	4821 Jun 21 19:06	26° <b>8</b> 44'31	-4.8m

morning max el	4821 Jun 29 02:48 4821 Jul 30 23:06	0° <b>П</b> 25° <b>П</b> 07'51	45°48'11		4824 Jan 24 00:20 4824 Feb 17 06:05	0° <b>ℋ</b> 0° <b>Ƴ</b>	
	4821 Aug 04 23:07	0ංම			4824 Mar 12 19:08	0° <b>႘</b>	
	4821 Sep 02 10:55	$0$ $^{\circ}$ $\Omega$		asc. node	4824 Mar 23 12:17	12° <b>8</b> 53'13	
	4821 Sep 28 21:55	0° <b>m</b>			4824 Apr 06 23:41	$\Pi$ °0	
asc. node	4821 Oct 06 17:21	9° <b>m</b> 07'03			4824 May 03 12:11	0°©	
	4821 Oct 24 07:43	0∘ <b>亚</b>		evening max el	4824 May 21 14:02	18° <b>©</b> 47'29	46°01'52
	4821 Nov 18 01:32 4821 Dec 12 09:11	0° <b>M</b> 0° <b>⊀</b> ¹		areatest brillianav	4824 Jun 02 14:13 4824 Jun 28 20:20	0° <b>Ω</b> 17° <b>Ω</b> 35'23	-4.7m
	4821 Dec 12 09:11 4822 Jan 05 10:51	0° <b>×</b> ' 0° <b>ਰ</b>		greatest brilliancy retrograde	4824 Jul	$1/^{\circ} 0.55'25$ $19^{\circ} \Omega 50'51$	-4./m
desc. node	4822 Jan 26 08:07	0 0 26° <b>る</b> 10'33		desc. node	4824 Jul 13 03:17	19° <b>Ω</b> 38'52	
morning set	4822 Jan 26 14:49	26° <b>ප</b> 31'35		evening set	4824 Jul 25 07:22	15° <b>Ω</b> 16'46	
	4822 Jan 29 09:12	0° <b>≈</b>		inferior conj	4824 Jul 31 11:04	11° <b>Ω</b> 34'34	-4°11'35
	4822 Feb 22 05:55	0° <b>∀</b>		minimum elong	4824 Jul 31 02:47	11° <b>Ω</b> 47'31	4°09'26
				min. Earth dist.	4824 Jul 31 01:01	11° <b>Q</b> 50'16	0.28909 AU
superior conj	4822 Mar 09 00:23	18° <b>)</b> 34′51	-1°19'47	morning rise	4824 Aug 05 22:28	8° <b>Ω</b> 15'32	
minimum elong	4822 Mar 08 15:27	18° <b>∺</b> 06'45		direct	4824 Aug 21 23:17	3° <b>Ω</b> 20′15	
max. Earth dist.	4822 Mar 10 13:42	20° <b>)</b> 32′08	1.71198 AU	greatest brilliancy	4824 Sep 01 02:18	5° <b>Ω</b> 11'01	-4.7m
	4822 Mar 18 02:25	0° <b>Υ</b>			4824 Oct 06 09:53	0° m)	45040141
	4822 Apr 11 00:27	0° <b>8</b>		morning max el	4824 Oct 09 19:59	3° Mp 14'34	45°48'41
evening rise	4822 Apr 18 16:41	9° <b>႘</b> 35'35 0°Ⅱ		asc. node	4824 Nov 03 05:11	28° <b>™</b> 29'01 0° <b>≏</b>	
asc. node	4822 May 05 01:56 4822 May 19 10:04	0 H 17°H45'24			4824 Nov 04 14:23 4824 Nov 30 21:58	0°M	
asc. node	4822 May 19 10:04 4822 May 29 08:27	0°95			4824 Dec 26 00:19	0° <b>⊼</b> ¹	
	4822 Jun 22 21:21	$0^{\circ}\Omega$			4825 Jan 19 11:57	° ਨ ਹ	
	4822 Jul 17 18:32	0° m/y			4825 Feb 12 16:01	0° <b>≈</b>	
	4822 Aug 12 03:59	0∘ <u>⊽</u>		desc. node	4825 Feb 22 20:04	12° <b>≈</b> 41'22	
	4822 Sep 07 10:02	0° <b>M</b> ₊			4825 Mar 08 16:22	0° <b>)</b> €	
desc. node	4822 Sep 08 00:52	0°ML41'18			4825 Apr 01 15:27	$0$ ° $\Upsilon$	
	4822 Oct 05 09:29	0° <b>∡</b> ¹		morning set	4825 Apr 13 10:48	14° <b>Y</b> 46'16	
evening max el	4822 Oct 14 14:16	9° <b>∡</b> 106'52	46°04'43		4825 Apr 25 15:14	0°B	
	4822 Nov 08 05:33	0°る。。			4825 May 19 17:16	$\Pi$ °0	
greatest brilliancy	4822 Nov 23 13:07	8°る06'28	-4.8m		4925 M 22 19 22	20 <b>T</b> 4712.5	0052154
retrograde evening set	4822 Dec 02 21:16 4822 Dec 17 14:42	9° <b>る</b> 43'38 5° <b>る</b> 31'13		superior conj minimum elong	4825 May 22 18:32 4825 May 23 04:47	3° <b>Ⅱ</b> 47'35 4° <b>Ⅱ</b> 19'23	
inferior conj	4822 Dec 17 14:42 4822 Dec 23 14:57	2°る00'43	-1°39'32	max. Earth dist.	4825 May 26 06:31	4 П1923 8°П08'14	1.72483 AU
minimum elong	4822 Dec 23 18:43	1°る54'57		max. Earth dist.	4825 Jun 12 22:18	0°95	1.72 103 710
min. Earth dist.	4822 Dec 24 04:44	1° <b>る</b> 39'39	0.26971 AU	asc. node	4825 Jun 15 21:57	3° <b>5</b> 641'19	
	4822 Dec 26 22:48	30°₽ <b>⋌</b> 7		evening rise	4825 Jun 30 00:47	21° <b>©</b> 06'00	
morning rise	4822 Dec 29 21:58	28° <b>∡</b> 19'16			4825 Jul 07 06:25	$0^{\circ}\Omega$	
asc. node	4822 Dec 30 02:45	28° <b>∡</b> 12'53			4825 Jul 31 17:34	0° <b>m</b>	
direct	4823 Jan 13 07:44	24° <b>∡</b> 10′54			4825 Aug 25 08:30	0∘ <b>ত</b>	
greatest brilliancy	4823 Jan 24 02:53	26° <b>∡</b> ¹22'19	-4.9m		4825 Sep 19 04:51	0° <b>™</b>	
. ,	4823 Jan 31 12:25	0°る	4.605.010.2	desc. node	4825 Oct 05 12:44	19°M30'47	
morning max el	4823 Mar 04 22:46	27° <b>る</b> 19'12	46°59'02		4825 Oct 14 09:01	0° <b>∡</b> ¹	
	4823 Mar 07 13:48 4823 Apr 04 01:36	0° <b>≈</b> 0° <b>∀</b>			4825 Nov 09 00:51 4825 Dec 05 14:10	% ⊗°0 š0	
desc. node	4823 Apr 04 01:30 4823 Apr 20 17:46	19° <b>∺</b> 16′00		evening max el	4825 Dec 26 14:06	0 ∞ 22°≈11'56	47°00'45
dese. Hode	4823 Apr 29 20:50	0°Υ		evening max or	4826 Jan 03 14:03	0° <b>∀</b>	17 00 15
	4823 May 25 00:24	0°8		asc. node	4826 Jan 26 14:45	18° <b>)</b> €33'48	
	4823 Jun 18 21:25	$\Pi^{\circ}0$		greatest brilliancy	4826 Feb 05 01:35	23° <b>) (</b> 17′05	-4.9m
	4823 Jul 13 15:24	0ංම		retrograde	4826 Feb 15 04:47	25° <b>)</b> 14′03	
	4823 Aug 07 06:57	$0^{\circ}\Omega$		evening set	4826 Mar 03 22:13	19° <b>) √</b> 44'38	
asc. node	4823 Aug 11 19:40	5° <b>Ω</b> 31'53		min. Earth dist.	4826 Mar 07 04:22	17° <b>)</b> 46′26	0.26961 AU
	4823 Aug 31 19:22	0° <b>m</b> )		inferior conj	4826 Mar 07 19:31	17° <b>)</b> €23'05	8°17'43
morning set	4823 Sep 04 00:09	3° m 55'40		minimum elong	4826 Mar 07 11:17	17° <b>)</b> (35'47	8°16'38
max. Earth dist.	4823 Sep 25 04:20 4823 Oct 07 23:43	0° <b>Ω</b> 15° <b>Ω</b> 49'34	1.72972 AU	morning rise direct	4826 Mar 11 00:33 4826 Mar 28 08:42	15° <b>¥</b> 26'08 9° <b>¥</b> 39'30	
max. Darui uist.	-1023 OCI 07 23.43	15 ==4734	1./2//2 AU	greatest brilliancy	4826 Apr 06 12:52	11° <b>H</b> 15'46	-4.9m
superior conj	4823 Oct 10 11:19	18° <b>≏</b> 53'58	1°24'52	greatest orinitation	4826 May 04 22:06	0°Υ	.,,,11
minimum elong	4823 Oct 10 13:20	19° <b>⊆</b> 00'13		morning max el	4826 May 17 08:48	11° <b>Υ</b> '42'24	46°30'57
Č	4823 Oct 19 10:26	0°M		desc. node	4826 May 18 05:32	12° <b>Ƴ</b> 33'45	
	4823 Nov 12 14:47	0°⊀			4826 Jun 04 00:45	0°B	
evening rise	4823 Nov 16 21:22	5° <b>∡</b> 18'34			4826 Jul 01 00:24	$\Pi$ °0	
desc. node	4823 Dec 01 10:30	23° <b>∡</b> ¹23'00			4826 Jul 26 22:34	0°9	
	4823 Dec 06 18:13	5°0			4826 Aug 21 07:25	0°N	
	4823 Dec 30 21:09	0° <b>≈</b>		asc. node	4826 Sep 08 07:26	21° <b>Ω</b> 35'30	

	4826 Sep 15 06:25	0° <b>m</b>		retrograde	4829 Apr 28 12:13	8° <b>∏</b> 48'38	
	4826 Oct 09 20:58	0∘ <b>⊽</b>		evening set	4829 May 14 22:10	3° <b>П</b> 34'12	
	4826 Nov 03 04:46	0°M		inferior conj	4829 May 19 14:36	0° <b>П</b> 42'13	5°54'10
morning set	4826 Nov 11 21:33	10°M47'42		minimum elong	4829 May 20 00:52	0°П26'09	
morning sec	4826 Nov 27 07:53	0°×7		min. Earth dist.	4829 May 19 12:27	0° <b>П</b> 45'35	0.27949 AU
max. Earth dist.	4826 Dec 17 17:39	25° <b>₹</b> 29'36	1.71688 AU	mm. Earth dist.	4829 May 20 17:37	30°R₩	0.27747110
max. Earth dist.	4020 Dec 17 17.57	23 × 2730	1.71000710	morning rise	4829 May 25 03:53	27° <b>8</b> 21'00	
superior conj	4826 Dec 20 08:05	28° <b>∡</b> ⁴44'51	0°20'33	direct	4829 Jun 09 14:42	22° <b>8</b> 42'30	
minimum elong	4826 Dec 20 13:01	29° <b>х</b> 1131	0°20'19	desc. node	4829 Jun 14 17:20	23° <b>8</b> 12'11	
minimum clong	4826 Dec 21 08:06	0°ਰ 100 ਨੂੰ	0 20 17	greatest brilliancy	4829 Jun 19 09:38	24° <b>8</b> 27'31	-4.8m
desc. node	4826 Dec 28 22:24	9° <b>ට</b> 30'44		greatest offinality	4829 Jun 30 15:28	0° <b>Ⅱ</b>	-4.0111
desc. node	4827 Jan 14 06:33	9°≈		morning max el	4829 Jul 28 13:25	22° <b>I</b> I51'52	45°49'10
evening rise	4827 Jan 29 16:55	0 ∞ 19°≈22'11		morning max er	4829 Aug 04 19:57	0°95	43 49 10
evening rise		19 <b>≈</b> 22 11 0° <b>)</b> €			•	0°Ω	
	4827 Feb 07 04:06	0° <b>Υ</b>			4829 Sep 02 02:14		
	4827 Mar 03 02:09			1-	4829 Sep 28 11:07	0°M)	
	4827 Mar 27 03:04	0° <b>B</b>		asc. node	4829 Oct 05 19:20	8° m/35'16	
,	4827 Apr 20 10:01	0°II			4829 Oct 23 19:53	0∘ <b>亚</b>	
asc. node	4827 Apr 21 00:11	0° <b>Ⅱ</b> 43'25			4829 Nov 17 13:10	0°M 0°.₹	
	4827 May 15 02:53	0°©			4829 Dec 11 20:32	0° <b>∡</b> 7	
	4827 Jun 09 11:30	0° <b>N</b>			4830 Jan 04 22:04	0°る。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。。	
	4827 Jul 06 00:01	0° <b>т</b> р		morning set	4830 Jan 24 01:50	24° <b>る</b> 00'26	
evening max el	4827 Aug 01 05:48	27° Mp 08'34	45°31'21	desc. node	4830 Jan 25 10:12	25° <b>る</b> 42'00	
	4827 Aug 04 06:09	0∘ <b>ত</b>			4830 Jan 28 20:21	0° <b>≈</b>	
desc. node	4827 Aug 10 15:07	5° <b>≏</b> 47'01			4830 Feb 21 17:01	0° <b>∀</b>	
greatest brilliancy	4827 Sep 09 00:46	25° <b>≏</b> 05'10	-4.7m				
retrograde	4827 Sep 18 20:20	26° <b>≏</b> 49'02		superior conj	4830 Mar 06 11:07	16° <b>∺</b> 02'50	
evening set	4827 Oct 06 23:59	20° <b>≏</b> 42'03		minimum elong	4830 Mar 06 01:26	15° <b>)</b> 32′25	
inferior conj	4827 Oct 10 05:43	18° <b>≙</b> 41'57	-8°36'35	max. Earth dist.	4830 Mar 07 17:42		1.71182 AU
minimum elong	4827 Oct 10 07:36	18° <b>≏</b> 38'59	8°36'31		4830 Mar 17 13:29	$0$ ° $\Upsilon$	
min. Earth dist.	4827 Oct 10 19:06	18° <b>≏</b> 20'59	0.28806 AU		4830 Apr 10 11:32	0°B	
morning rise	4827 Oct 13 15:04	16° <b>≏</b> 36'00		evening rise	4830 Apr 16 04:20	7° <b>8</b> 07'27	
direct	4827 Oct 31 17:59	10° <b>≏</b> 26'12			4830 May 04 13:05	$\Pi^{\circ}0$	
greatest brilliancy	4827 Nov 11 16:36	12° <b>≏</b> 37'37	-4.8m	asc. node	4830 May 18 12:09	17° <b>Ⅲ</b> 17'12	
asc. node	4827 Dec 01 16:55	25° <b>ഫ</b> 02'31			4830 May 28 19:46	$0$ $\circ$ $\odot$	
	4827 Dec 07 13:59	$0^{\circ}$ M.			4830 Jun 22 08:57	$\mathfrak{O}^{\circ}\mathfrak{O}$	
morning max el	4827 Dec 20 18:37	12°M28'43	46°29'31		4830 Jul 17 06:40	0° <b>m</b> y	
	4828 Jan 06 10:04	0° <b>∡</b> ¹			4830 Aug 11 17:09	0∘ <b>⊽</b>	
	4828 Feb 01 17:28	0°రె		desc. node	4830 Sep 07 02:48	0°MJ04'03	
	4828 Feb 26 20:04	0° <b>≈</b>			4830 Sep 07 01:20	0°M	
desc. node	4828 Mar 22 07:50	29° <b>≈</b> 53'03			4830 Oct 05 06:06	0° <b>∡</b> ¹	
	4828 Mar 22 10:06	0° <b>∀</b>		evening max el	4830 Oct 12 03:53	6° <b>∡</b> ¹47'32	46°02'50
	4828 Apr 15 18:30	$_{0}$ $^{\circ}$ $\Upsilon$		C	4830 Nov 09 09:08	ರ°0	
	4828 May 10 01:03	0° <b>႘</b>		greatest brilliancy	4830 Nov 21 01:53	5° <b>⋜</b> 42'41	-4.8m
	4828 Jun 03 07:58	0° <b>I</b> I		retrograde	4830 Nov 30 10:27	7° <b>る</b> 19'59	
morning set	4828 Jun 24 08:30	25° <b>Ⅱ</b> 54'53		evening set	4830 Dec 15 05:26	3° <b>る</b> 04'33	
S	4828 Jun 27 16:08	0∘ <b>©</b>		C	4830 Dec 20 12:24	30°R. <b>✓</b>	
asc. node	4828 Jul 13 09:48	19° <b>©</b> 22'00		inferior conj	4830 Dec 21 03:57	29° <b>∡</b> 36'17	-2°02'40
	4828 Jul 22 01:12	$0^{\circ}\Omega$		minimum elong	4830 Dec 21 08:34	29° <b>∡</b> ¹29'16	
				min. Earth dist.	4830 Dec 21 18:45	29° <b>∡</b> 13'44	0.27021 AU
superior conj	4828 Jul 31 13:22	11° <b>Ω</b> 41'43	0°41'40	morning rise	4830 Dec 27 10:58	25° <b>∡</b> 55′06	
minimum elong	4828 Jul 31 05:39	11° <b>Ω</b> 17'58		asc. node	4830 Dec 29 04:52	25° <b>₹</b> '01'19	
max. Earth dist.	4828 Jul 31 15:22		1.73448 AU	direct	4831 Jan 10 21:39	21° <b>₹</b> '45'29	
	4828 Aug 15 10:25	0° m/y		greatest brilliancy	4831 Jan 21 17:34	23° <b>₹</b> '58'11	-4.9m
evening rise	4828 Sep 05 15:16	26° Mp 05'24		greatest orimane,	4831 Feb 01 22:29	0°る	,
evening rise	4828 Sep 08 19:32	20 ಗ್ಗು 03 24 0° <b>೧</b>		morning max el	4831 Mar 02 13:47	24°る58'00	46°59'10
	4828 Oct 03 05:07	0°M		morning max or	4831 Mar 07 11:19	0° <b>≈</b>	10 27 10
	4828 Oct 27 16:03	0° <b>⊼</b> 7			4831 Apr 03 17:36	0° <b>∺</b>	
desc. node	4828 Nov 02 00:38	6° <b>≯</b> 33'30		desc. node	4831 Apr 19 19:51	18° <b>)</b> 39′50	
acse. Houc	4828 Nov 21 05:01	0°도		desc. Hode	4831 Apr 29 10:37	16 <b>γ</b> (3930	
	4828 Dec 15 20:53	0°≈			4831 May 24 13:00	0° <b>8</b>	
		0° <b>∀</b>			•	0°U	
	4829 Jan 09 18:30	0°π 0°Υ			4831 Jun 18 09:19	0₀ <b>©</b> 0∘П	
asa nodo	4829 Feb 04 06:21				4831 Jul 13 02:50		
asc. node	4829 Feb 23 02:24	21° <b>Y</b> 11'11		aga m-J-	4831 Aug 06 18:03	0° <b>Ω</b> 5° <b>Ω</b> 04'00	
ovenie 1	4829 Mar 03 08:06	0° <b>8</b>	16050117	asc. node	4831 Aug 10 21:36	5° <b>Ω</b> 04'00	
evening max el	4829 Mar 08 22:58	5° <b>8</b> 47'46	40 391/		4831 Aug 31 06:16	0°M) 1°M 40'51	
aranta-t b-::!!!	4829 Apr 05 14:22	0° <b>Ⅱ</b> 6° <b>Ⅱ</b> 47'07	4 Om-	morning set	4831 Sep 01 17:44	1° <b>™</b> 48'51 0° <b>≏</b>	
greatest brilliancy	4829 Apr 18 03:17	6° <b>Ⅱ</b> 47'07	-4.7111		4831 Sep 24 15:09	0 ==	

max. Earth dist.	4831 Oct 05 20:14	13° <b>Ω</b> 51'04	1.73008 AU	direct	4834 Mar 25 21:13	7° <b>){</b> 12'56	
max. Larm dist.	4031 OCT 03 20.14	13 = 31 04	1.75000 AC	greatest brilliancy	4834 Apr 04 01:35	8° <b>)</b> 49'04	-4.9m
superior conj	4831 Oct 08 04:35	16° <b>≏</b> 45'21	1°25'10	greatest ermane;	4834 May 05 03:27	0°Υ	1.711
minimum elong	4831 Oct 08 05:53	16° <b>≏</b> 49'21	1°25'09	morning max el	4834 May 14 21:17	9° <b>Y</b> 17'20	46°32'38
C	4831 Oct 18 21:17	0° <b>M</b> .		desc. node	4834 May 17 07:36	11° <b>Y</b> '42'40	
	4831 Nov 12 01:47	0° <b>∡</b> ¹			4834 Jun 03 18:37	0°8	
evening rise	4831 Nov 14 12:20	3° <b>∡</b> 101'44			4834 Jun 30 14:45	$\Pi^{\circ}0$	
desc. node	4831 Nov 30 12:36	22° <b>∡</b> 54'50			4834 Jul 26 11:15	0°€	
	4831 Dec 06 05:27	8°0			4834 Aug 20 19:11	$0^{\circ}\Omega$	
	4831 Dec 30 08:38	0°≈		asc. node	4834 Sep 07 09:25	21° <b>Ω</b> 07'13	
	4832 Jan 23 12:07	0° <b>)</b> €			4834 Sep 14 17:39	o° <b>m</b> y	
	4832 Feb 16 18:17	$0^{\circ}\Upsilon$			4834 Oct 09 07:56	0∘ <b>ত</b>	
	4832 Mar 12 08:01	$9^{\circ}$ 8			4834 Nov 02 15:37	0°M	
asc. node	4832 Mar 22 14:18	12° <b>8</b> 19'30		morning set	4834 Nov 09 13:23	8°M34'11	
	4832 Apr 06 13:54	$\Pi^{\circ}0$			4834 Nov 26 18:43	0° <b>∡</b> 7	
	4832 May 03 05:30	$0$ $\circ$ $\odot$		max. Earth dist.	4834 Dec 15 03:21	22° <b>₹</b> 55'53	1.71731 AU
evening max el	4832 May 19 06:38	16°536'38	46°03'46				
	4832 Jun 02 19:23	$0 ^{\circ} \Omega$		superior conj	4834 Dec 17 21:04	26° <b>∡</b> ¹21'21	0°24'09
greatest brilliancy	4832 Jun 26 12:19	15° <b>Ω</b> 25'06	-4.8m	minimum elong	4834 Dec 18 02:46	26° <b>∡</b> ³39'12	0°23'52
retrograde	4832 Jul 07 16:31	17° <b>Ω</b> 41'06			4834 Dec 20 18:58	0°る	
desc. node	4832 Jul 12 05:16	17° <b>Ω</b> 16′20		desc. node	4834 Dec 28 00:24	9° <b>ප</b> 02'50	
evening set	4832 Jul 22 22:23	13° <b>Ω</b> 09'09			4835 Jan 13 17:29	0° <b>≈</b>	
min. Earth dist.	4832 Jul 28 16:50		0.28881 AU	evening rise	4835 Jan 27 04:03	16°≈51'50	
inferior conj	4832 Jul 29 03:22	9° <b>Ω</b> 24'49			4835 Feb 06 15:10	0° <b>∀</b>	
minimum elong	4832 Jul 28 19:31	9° <b>Ω</b> 37'06	3°51'53		4835 Mar 02 13:22	0° <b>Y</b>	
morning rise	4832 Aug 03 17:03	6° <b>Ω</b> 02'47			4835 Mar 26 14:29	0° <b>8</b>	
direct	4832 Aug 19 15:57	1° <b>Ω</b> 11'08			4835 Apr 19 21:44	0°П	
greatest brilliancy	4832 Aug 29 17:14	3° <b>Ω</b> 00'46	-4.7m	asc. node	4835 Apr 20 02:17	0° <b>Ⅱ</b> 13'57	
	4832 Oct 06 09:04	0° <b>m</b> )	45045140		4835 May 14 15:11	0° <b>©</b>	
morning max el	4832 Oct 07 12:08	1° Mp 04'44	45°47'43		4835 Jun 09 00:55	$\Omega^{\circ}\Omega$	
asc. node	4832 Nov 02 07:17	27° m 50'40			4835 Jul 05 16:00	0° m/y	45021125
	4832 Nov 04 06:15	0∘ <b>™</b>		evening max el	4835 Jul 29 19:59	24° Mp 54'14 0° <u>Ω</u>	45°31'25
	4832 Nov 30 11:28	0° <b>M</b> 0° <b>⊀</b> ¹		JJ.	4835 Aug 04 06:16		
	4832 Dec 25 12:45 4833 Jan 18 23:50	0° <b>X</b> '		desc. node	4835 Aug 09 17:03	4° <b>£</b> 51'08 22° <b>£</b> 54'03	-4.7m
	4833 Feb 12 03:35	0°≈		greatest brilliancy retrograde	4835 Sep 06 15:22 4835 Sep 16 11:19	24° <b>£</b> 34'03	-4./m
desc. node	4833 Feb 12 03:35 4833 Feb 21 21:56	0 ≈ 12°≈11'23		evening set	4835 Oct 04 15:31	24 <b>⊆</b> 36 44 18° <b>⊆</b> 31'28	
desc. node	4833 Mar 08 03:42	0° <b>\</b>		inferior conj	4835 Oct 04 13:31 4835 Oct 07 21:35	16° <b>⊆</b> 30'56	8037112
	4833 Apr 01 02:36	0° <b>Υ</b>		minimum elong	4835 Oct 07 22:42	16° <b>£</b> 29'12	
morning set	4833 Apr 10 22:42	12° <b>Y</b> 18'47		min. Earth dist.	4835 Oct 07 22:42 4835 Oct 08 10:18		0.28849 AU
morning set	4833 Apr 25 02:15	0°8		morning rise	4835 Oct 11 05:42	14° <b>£</b> 26'47	0.2004) 110
	4833 May 19 04:08	$0^{\circ}\Pi$		direct	4835 Oct 29 09:34	8° <b>£</b> 14'30	
	1055 1114 17 01.00	V <b>1</b>		greatest brilliancy	4835 Nov 09 08:45	10° <b>£</b> 25'48	-4.8m
superior conj	4833 May 20 08:49	1° <b>Ⅱ</b> 29'06	-0°56'41	asc. node	4835 Nov 30 18:58	23° <b>⊆</b> 58'36	
minimum elong	4833 May 20 19:17	2° <b>Ⅱ</b> 01'38			4835 Dec 07 17:50	0°M	
max. Earth dist.	4833 May 24 01:00		1.72429 AU	morning max el	4835 Dec 18 08:58	10°M09'57	46°27'55
	4833 Jun 12 09:06	0ಂಣ			4836 Jan 06 03:18	0° <b>∡</b> 7	
asc. node	4833 Jun 14 24:00	3°9514'15			4836 Feb 01 07:42	8°0	
evening rise	4833 Jun 27 17:38	18° <b>©</b> 56'48			4836 Feb 26 08:56	0° <b>≈</b>	
_	4833 Jul 06 17:15	$0^{\circ}\Omega$		desc. node	4836 Mar 21 09:57	29° <b>≈</b> 22'22	
	4833 Jul 31 04:35	0° <b>m</b> )			4836 Mar 21 22:12	0° <b>)</b> €	
	4833 Aug 24 19:51	0∘ <b>亚</b>			4836 Apr 15 06:06	$0^{\circ}$ Y	
	4833 Sep 18 16:46	0°M₊			4836 May 09 12:17	$8^{\circ 0}$	
desc. node	4833 Oct 04 14:45	18°ML59'47			4836 Jun 02 18:56	$\Pi$ $^{\circ}0$	
	4833 Oct 13 21:53	0° <b>∡</b> ¹		morning set	4836 Jun 22 00:51	23° <b>∏</b> 44'11	
	4833 Nov 08 15:20	0°ರ			4836 Jun 27 02:53	$0$ $\circ$ $\odot$	
	4833 Dec 05 07:56	0° <b>≈</b>		asc. node	4836 Jul 12 11:44	18° <b>©</b> 55'07	
evening max el	4833 Dec 24 04:18	19° <b>≈</b> 49′00	46°59'15		4836 Jul 21 11:50	$0$ ° $\Omega$	
	4834 Jan 03 17:54	0° <b>ℋ</b>					
asc. node	4834 Jan 25 16:38	17° <b>∺</b> 01'38		superior conj	4836 Jul 29 07:06	9° <b>Ω</b> 36′04	0°38'49
greatest brilliancy	4834 Feb 02 14:52	20° <b>)</b> 49′44	-4.9m	minimum elong	4836 Jul 28 23:45	9° <b>Ω</b> 13'27	
retrograde	4834 Feb 12 17:35	22° <b>)</b> 45′51		max. Earth dist.	4836 Jul 29 09:53	9° <b>Ω</b> 44'36	1.73435 AU
evening set	4834 Mar 01 06:42	17° <b>∺</b> 23'39			4836 Aug 14 21:01	0° <b>m</b> )	
min. Earth dist.	4834 Mar 04 17:04	15° <b>¥</b> 19'06	0.26925 AU	evening rise	4836 Sep 03 09:42	24° Mp 01'44	
inferior conj	4834 Mar 05 08:10	14° <b>¥</b> 55'49	8°07'34		4836 Sep 08 06:12	0∘ <b>亚</b>	
minimum elong	4834 Mar 04 23:20	15° <b>¥</b> 09′26	8°06'18		4836 Oct 02 15:58	0°M 0°. <b>₹</b>	
morning rise	4834 Mar 08 16:13	12° <b>¥</b> 54'17			4836 Oct 27 03:15	0° <b>≯</b>	

desc. node	4836 Nov 01 02:45	6° <b>₰</b> 05'27		desc. node	4839 Apr 18 21:54	18° <b>₩</b> 04'28	
	4836 Nov 20 16:44	0°ප			4839 Apr 29 00:03	$0$ ° $\mathbf{\Upsilon}$	
	4836 Dec 15 09:20	0° <b>≈</b>			4839 May 24 01:18	$9^{\circ}$ 8	
	4837 Jan 09 08:02	0° <b>∀</b>			4839 Jun 17 20:54	$\Pi^{\circ}0$	
	4837 Feb 03 21:51	0° <b>Υ</b>			4839 Jul 12 13:56	0°ಅ	
asc. node	4837 Feb 22 04:27	20° <b>Y</b> 27′01			4839 Aug 06 04:50	$0^{\circ}\Omega$	
	4837 Mar 03 04:33	$_{0\circ}$ 8		asc. node	4839 Aug 09 23:36	4° <b>Ω</b> 37'13	
evening max el	4837 Mar 06 12:15	3° <b>8</b> 24'09	47°00'41	morning set	4839 Aug 30 11:16	29° <b>Ω</b> 42'46	
	4837 Apr 06 18:50	$\Pi$ $^{\circ}0$			4839 Aug 30 16:52	0° <b>m</b> )	
greatest brilliancy	4837 Apr 15 19:02	4° <b>Ⅱ</b> 29'41	-4.9m		4839 Sep 24 01:41	0∘ <b>⊽</b>	
retrograde	4837 Apr 26 03:10	6° <b>Ⅱ</b> 30'59		max. Earth dist.	4839 Oct 03 14:56	11° <b>≏</b> 47'52	1.73038 AU
evening set	4837 May 12 15:57	1° <b>I</b> I11'55		max. Earth dist.	1037 000 03 11.50	11 -1,732	1.75050710
evening set	•			aumariar aani	4920 Oat 05 22:01	140 0 20110	1925!10
	4837 May 14 15:58	30°R8		superior conj	4839 Oct 05 22:01	14° <b>£</b> 38'10	1°25'19
inferior conj	4837 May 17 05:17	28° <b>8</b> 24'49		minimum elong	4839 Oct 05 22:35	14° <b>≏</b> 39'57	1°25'19
minimum elong	4837 May 17 15:39	28° <b>8</b> 08'36			4839 Oct 18 07:52	0°M₊	
min. Earth dist.	4837 May 17 03:16	28° <b>8</b> 27'57	0.27922 AU		4839 Nov 11 12:29	0° <b>∡</b> ¹	
morning rise	4837 May 22 15:38	25° <b>8</b> 07'55		evening rise	4839 Nov 12 03:34	0° <b>∡</b> ¹46'47	
direct	4837 Jun 07 04:26	20° <b>8</b> 25'18		desc. node	4839 Nov 29 14:34	22° <b>×</b> 127'23	
desc. node	4837 Jun 13 19:21	21° <b>8</b> 14'41			4839 Dec 05 16:19	0°ठ	
greatest brilliancy	4837 Jun 16 23:51	22° <b>8</b> 10'51	-4 8m		4839 Dec 29 19:45	0° <b>≈</b>	
greatest offinality		0°II	- <del>4</del> .0III			0° <b>∺</b>	
	4837 Jul 01 17:01		45050112		4840 Jan 22 23:34		
morning max el	4837 Jul 26 04:39	20° <b>Ⅱ</b> 38'50	45°50'13		4840 Feb 16 06:13	0°Υ	
	4837 Aug 04 15:48	$0$ $\circ$			4840 Mar 11 20:44	$_{0\circ}$ 8	
	4837 Sep 01 17:02	$0$ $^{\circ}\Omega$		asc. node	4840 Mar 21 16:21	11° <b>8</b> 46'27	
	4837 Sep 27 23:52	0° <b>m</b> )			4840 Apr 06 04:04	$\Pi^{\circ}0$	
asc. node	4837 Oct 04 21:27	8° Mp 05'00			4840 May 02 23:02	0°€	
	4837 Oct 23 07:38	0∘ <del>⊽</del>		evening max el	4840 May 16 23:03	14° <b>©</b> 25'34	46°05'41
	4837 Nov 17 00:24	0° <b>M</b>		evening man er	4840 Jun 03 02:34	0° <b>Ω</b>	.0 00 11
	4837 Dec 11 07:32	0° <b>⊼</b> ¹		greatest brilliancy	4840 Jun 24 04:52	13° <b>Ω</b> 15'39	1 9m
							-4.0111
	4838 Jan 04 08:59	0° <b>云</b>		retrograde	4840 Jul 05 09:01	15° <b>Ω</b> 31'12	
morning set	4838 Jan 21 12:48	21° <b>る</b> 30'02		desc. node	4840 Jul 11 07:12	14° <b>Ω</b> 48'55	
desc. node	4838 Jan 24 12:08	25° <b>る</b> 13'55		evening set	4840 Jul 20 13:25	11° <b>Ω</b> 01'27	
	4838 Jan 28 07:15	0° <b>≈</b>		inferior conj	4840 Jul 26 19:30	7° <b>Ω</b> 15'13	-3°35'56
	4838 Feb 21 03:53	0° <b>∀</b>		minimum elong	4840 Jul 26 12:08	7° <b>Ω</b> 26'45	3°33'57
				min. Earth dist.	4840 Jul 26 08:49	7° <b>Ω</b> 31'57	0.28851 AU
superior conj	4838 Mar 03 21:20	13° <b>)</b> 29′54	-1°16'15	morning rise	4840 Aug 01 11:18	3° <b>£</b> 50′04	
minimum elong	4838 Mar 03 11:01	12° <b>)</b> € 57'27		morning rise	4840 Aug 10 08:36	30°R.€	
•			1.71169 AU	11	•		
max. Earth dist.	4838 Mar 04 23:12	,	1./1169 AU	direct	4840 Aug 17 08:14	29°502'11	
	4838 Mar 17 00:19	0° <b>Υ</b>			4840 Aug 24 13:26	$0^{\circ}\Omega$	
	4838 Apr 09 22:21	0°8		greatest brilliancy	4840 Aug 27 08:03	0° <b>Ω</b> 50'32	
evening rise	4838 Apr 13 15:29	4° <b>8</b> 38'37		morning max el	4840 Oct 05 03:25	28° <b>Ω</b> 53'23	45°46'51
	4838 May 03 23:57	$\Pi^{\circ}0$			4840 Oct 06 07:03	0° <b>m</b>	
asc. node	4838 May 17 14:10	16° <b>Ⅱ</b> 49'40		asc. node	4840 Nov 01 09:14	27° m 12'52	
	4838 May 28 06:47	0°©			4840 Nov 03 21:38	0° <del>ق</del>	
	4838 Jun 21 20:16	0°N			4840 Nov 30 00:36	0° <b>M</b>	
	4838 Jul 16 18:34	0° <b>m</b> )			4840 Dec 25 00:51	0° <b>⊼</b> ¹	
	4838 Aug 11 06:07	0° <b>™</b>			4841 Jan 18 11:23	6°0	
desc. node	4838 Sep 06 04:55	29° <b>£</b> 27'56			4841 Feb 11 14:47	0°≈	
	4838 Sep 06 16:31	0° <b>M</b>		desc. node	4841 Feb 21 00:05	11° <b>≈</b> 43'17	
	4838 Oct 05 02:57	0° <b>∡</b> ¹			4841 Mar 07 14:42	0° <b>ℋ</b>	
evening max el	4838 Oct 09 18:28	4° <b>∡</b> ³31'58	46°01'05		4841 Mar 31 13:29	$0$ ° $\Upsilon$	
	4838 Nov 10 23:14	<sub>0°</sub> ප		morning set	4841 Apr 08 10:26	9° <b>Ƴ</b> 51'28	
greatest brilliancy	4838 Nov 18 14:29	3°₹20'38	-4.8m	•	4841 Apr 24 13:01	0°8	
retrograde	4838 Nov 27 23:46	4° <b>る</b> 57'59					
evening set	4838 Dec 12 20:29	4 03739 0° <b>る</b> 39'38		superior conj	4841 May 17 22:43	29° <b>8</b> 09'55	0°50'22
evening set					•		
	4838 Dec 14 01:10	30°R√7	2025120	minimum elong	4841 May 18 09:22	29° <b>8</b> 42'59	0-39.01
inferior conj	4838 Dec 18 17:05	27° <b>∡</b> 13'35			4841 May 18 14:50	0°II	
minimum elong	4838 Dec 18 22:29	27° <b>∡</b> 05′20		max. Earth dist.	4841 May 21 18:27	3° <b>Ⅱ</b> 54'51	1.72378 AU
min. Earth dist.	4838 Dec 19 08:36	26° <b>∡</b> 749'54	0.27074 AU		4841 Jun 11 19:46	0°€	
morning rise	4838 Dec 24 23:51	23° <b>∡</b> ³32′50		asc. node	4841 Jun 14 01:55	2° <b>5</b> 47'16	
asc. node	4838 Dec 28 06:44	21° <b>₹</b> 55'54		evening rise	4841 Jun 25 09:56	16°9546'14	
direct	4839 Jan 08 12:03	19° <b>∡</b> ¹22'00		-	4841 Jul 06 03:56	$0^{\circ}\Omega$	
greatest brilliancy	4839 Jan 19 07:53	21° <b>×</b> 35'03	-4.9m		4841 Jul 30 15:27	0° <b>m</b> )	
51 carest of financy	4839 Feb 02 22:10	21 × 35 05 0°る	1.7111		4841 Aug 24 07:05	0° <del>ت</del>	
			16050151		•		
morning max el	4839 Feb 28 04:50	22° <b>る</b> 37'49	40~38/34	1 .	4841 Sep 18 04:36	0°M	
	4839 Mar 07 07:45	0° <b>≈</b>		desc. node	4841 Oct 03 16:50	18°M29'16	
	4839 Apr 03 09:06	0° <b>∀</b>			4841 Oct 13 10:42	0°⊀	

	4841 Nov 08 05:50	0°ರ			4844 Jun 26 13:37	0°95	
	4841 Dec 05 01:54	0° <b>≈</b>		asc. node	4844 Jul 11 13:48	18° <b>©</b> 28'37	
evening max el	4841 Dec 21 17:48	17° <b>≈</b> 25'07	46°57'53		4844 Jul 20 22:29	$0^{\circ}\Omega$	
<i>Q</i>	4842 Jan 03 23:12	0° <b>)</b> €					
asc. node	4842 Jan 24 18:41	15° <b>)</b> 27′27		superior conj	4844 Jul 27 00:53	7° <b>Ω</b> 30′22	0°35'56
greatest brilliancy	4842 Jan 31 04:48	18° <b>)</b> 24′22	-4.9m	minimum elong	4844 Jul 26 17:56	7° <b>Q</b> 09'00	0°35'36
retrograde	4842 Feb 10 06:13	20° <b>ℋ</b> 19'16		max. Earth dist.	4844 Jul 27 05:51	7° <b>Ω</b> 45'38	1.73429 AU
evening set	4842 Feb 26 15:23	15° <b>)</b> (04′11			4844 Aug 14 07:41	0° <b>m</b> )	
inferior conj	4842 Mar 02 21:04	12° <b>)</b> (30′15	7°56'34	evening rise	4844 Sep 01 04:07	21° <b>m</b> 57'48	
minimum elong	4842 Mar 02 11:41	12° <b>) √</b> 44'43	7°55'07		4844 Sep 07 16:58	0∘ <b>⊽</b>	
min. Earth dist.	4842 Mar 02 06:21	12° <b>¥</b> 52'58	0.26889 AU		4844 Oct 02 02:58	0° <b>M</b>	
morning rise	4842 Mar 06 08:12	10° <b>)</b> €23'59			4844 Oct 26 14:36	0° <b>∡</b> 7	
direct	4842 Mar 23 09:24	4° <b>){</b> 47'49		desc. node	4844 Oct 31 04:40	5° <b>∡</b> ³36′18	
greatest brilliancy	4842 Apr 01 15:08	6° <b>)</b> €24'36	-4.9m		4844 Nov 20 04:38	0°ප	
	4842 May 05 06:34	$0^{\circ}\mathbf{\Upsilon}$			4844 Dec 14 21:59	0° <b>≈</b>	
morning max el	4842 May 12 09:28	6° <b>Y</b> 52′08	46°34'06		4845 Jan 08 21:49	0° <b>∀</b>	
desc. node	4842 May 16 09:37	10° <b>Y</b> 53′09			4845 Feb 03 13:46	0° <b>Υ</b>	
	4842 Jun 03 11:51	0°B		asc. node	4845 Feb 21 06:34	19° <b>Ƴ</b> 41'56	
	4842 Jun 30 04:50	0°Щ			4845 Mar 03 01:53	0° <b>8</b>	
	4842 Jul 25 23:47	0°©		evening max el	4845 Mar 04 02:47	_	47°02'09
	4842 Aug 20 06:50	0°N			4845 Apr 08 12:13	0°П	
asc. node	4842 Sep 06 11:34	20° <b>Ω</b> 39'36		greatest brilliancy	4845 Apr 13 10:23	2° <b>Ⅱ</b> 11'41	-4.9m
	4842 Sep 14 04:48	0° <b>m</b>		retrograde	4845 Apr 23 18:46	4° <b>Ⅱ</b> 13′23	
	4842 Oct 08 18:49	0° <b>Մ</b> 0° <b>⊙</b>			4845 May 08 08:04	30°R <b>႘</b>	
	4842 Nov 02 02:23			evening set	4845 May 10 09:54	28° <b>8</b> 49'37	(92(110
morning set	4842 Nov 07 05:04 4842 Nov 26 05:28	6°M20′26 0°⊀		inferior conj	4845 May 14 20:04	26° <b>8</b> 07'23 25° <b>8</b> 51'07	6°26'19 6°24'04
max. Earth dist.	4842 Dec 12 14:31	0 <b>x</b> . 20° <b>x</b> 27'00	1.71776 AU	minimum elong min. Earth dist.	4845 May 15 06:29 4845 May 14 17:47		0.27890 AU
max. Earm dist.	4042 Dec 12 14.31	20 \$ 2700	1./1//0 AU	morning rise	4845 May 20 03:21	20° <b>8</b> 55'13	0.27890 AU
superior conj	4842 Dec 15 10:05	23° <b>х</b> 58'11	0°27'41	direct	4845 Jun 04 18:45	18° <b>8</b> 08'16	
minimum elong	4842 Dec 15 16:31	24° 🖈 18'18	0°27'23	desc. node	4845 Jun 12 21:17	19° <b>8</b> 21'46	
minimum clong	4842 Dec 20 05:46	0°중	0 27 23	greatest brilliancy	4845 Jun 14 13:30	19° <b>8</b> 53'45	-4 8m
desc. node	4842 Dec 27 02:22	8° <b>ප</b> 35'04		greatest oriminate	4845 Jul 02 11:41	0°Ⅱ	1.0111
dese. node	4843 Jan 13 04:23	0° <b>≈</b>		morning max el	4845 Jul 23 20:45	18° <b>∏</b> 27'53	45°51'12
evening rise	4843 Jan 24 15:23	14° <b>≈</b> 22'29			4845 Aug 04 11:04	0°95	.0 0112
	4843 Feb 06 02:08	0° <b>∀</b>			4845 Sep 01 07:44	$0^{\circ}\Omega$	
	4843 Mar 02 00:27	$0^{\circ}\Upsilon$			4845 Sep 27 12:43	0° m)	
	4843 Mar 26 01:44	0°8		asc. node	4845 Oct 03 23:23	7° mp 33'46	
asc. node	4843 Apr 19 04:16	29° <b>8</b> 44'35			4845 Oct 22 19:35	0∘ <b>ত</b>	
	4843 Apr 19 09:18	$\Pi^{\circ}0$			4845 Nov 16 11:52	$0^{\circ}$ M	
	4843 May 14 03:24	$0$ $\circ$ $\odot$			4845 Dec 10 18:46	0° <b>∡</b> ¹	
	4843 Jun 08 14:24	$0^{\circ}\Omega$			4846 Jan 03 20:07	8°0	
	4843 Jul 05 08:16	0° <b>m</b>		morning set	4846 Jan 18 23:50	18° <b>る</b> 59'18	
evening max el	4843 Jul 27 10:19	$22^{\circ}$ Mp $40'04$	45°31'32	desc. node	4846 Jan 23 14:13	24° <b>る</b> 45'40	
	4843 Aug 04 07:44	0∘ <b>ত</b>			4846 Jan 27 18:20	0° <b>≈</b>	
desc. node	4843 Aug 08 19:12	3° <b>≙</b> 54'11			4846 Feb 20 14:57	0° <b>∀</b>	
greatest brilliancy	4843 Sep 04 05:20	20° <b>£</b> 41'54	-4.7m				
retrograde	4843 Sep 14 02:40	22° <b>≏</b> 28'11		superior conj	4846 Mar 01 07:28	10° <b>)</b> 55′54	
evening set	4843 Oct 02 06:34	16° <b>≙</b> 20'58		minimum elong	4846 Feb 28 20:37	10° <b>)</b> €21'47	
inferior conj	4843 Oct 05 13:22	14° <b>≏</b> 19'29		max. Earth dist.	4846 Mar 02 07:28		1.71158 AU
minimum elong	4843 Oct 05 13:40	14° <b>£</b> 19'01			4846 Mar 16 11:22	0°Υ •••	
min. Earth dist.	4843 Oct 06 01:12	14° <b>£</b> 00'58	0.28892 AU		4846 Apr 09 09:26	0°8	
morning rise	4843 Oct 08 20:36	12° <b>£</b> 16'46		evening rise	4846 Apr 11 02:40	2° <b>8</b> 08'58	
direct	4843 Oct 27 01:14	6° <b>Ω</b> 02'22	4.0	1	4846 May 03 11:05	0°П	
greatest brilliancy	4843 Nov 07 00:47	8° <b>£</b> 13'48	-4.8m	asc. node	4846 May 16 16:07	16° <b>∏</b> 21'14 0° <b>©</b>	
asc. node	4843 Nov 29 20:57	22° <b>Ω</b> 55'52			4846 May 27 18:02	0°Ω	
morning mey al	4843 Dec 07 20:09 4843 Dec 16 00:07	0° <b>ጤ</b> 7° <b>ጤ</b> 53'11	46°26'21		4846 Jun 21 07:48	0° <b>m</b> )	
morning max el	4844 Jan 05 20:13	/°IIL53111 0°⊀7	+U 2021		4846 Jul 16 06:40 4846 Aug 10 19:23	0ം <b>⊽</b> വു	
	4844 Jan 31 21:49	0 ×. 0°ਤ		desc. node	4846 Sep 05 06:56	0 <u>≈</u> 28° <b>≏</b> 50'31	
	4844 Feb 25 21:46	0°≈		dese. Houe	4846 Sep 06 08:11	28 <b>=</b> 30 31 0° <b>M</b>	
desc. node	4844 Mar 20 11:59	0 ∞ 28°≈51'26			4846 Oct 05 00:59	0° <b>⊼</b> ¹	
	4844 Mar 21 10:16	0° <b>∀</b>		evening max el	4846 Oct 07 09:37	2° <b>∡</b> 16'58	45°59'06
	4844 Apr 14 17:39	0° <b>Υ</b>			4846 Nov 13 12:18	0°る	
	4844 May 08 23:28	0°8		greatest brilliancy	4846 Nov 16 03:31	0° <b>る</b> 58'17	-4.8m
	4844 Jun 02 05:50	0°II		retrograde	4846 Nov 25 12:48	2° <b>る</b> 35'02	
morning set	4844 Jun 19 17:26	21° <b>Ⅲ</b> 34′08		J	4846 Dec 06 22:10	30°R. <b>✓</b>	
-							

evening set	4846 Dec 10 11:47	28° <b>҂</b> 13'53		minimum elong	4849 May 15 23:12	27° <b>8</b> 22'31	1°01'38
inferior conj	4846 Dec 16 06:18	24° <b>₹</b> 50'11	-2°47'32	, and the second	4849 May 18 01:52	0°II	
minimum elong	4846 Dec 16 12:27	24° <b>₹</b> '40'46	2°45'40	max. Earth dist.	4849 May 19 10:27	1° <b>Ⅱ</b> 41'12	1.72323 AU
min. Earth dist.	4846 Dec 16 22:38	24° <b>₹</b> 25'13	0.27127 AU		4849 Jun 11 06:45	0ಂತಾ	
morning rise	4846 Dec 22 12:31	21° <b>х</b> 09′55		asc. node	4849 Jun 13 04:01	2°519'48	
asc. node	4846 Dec 27 08:49	18° <b>∡</b> 53′57		evening rise	4849 Jun 23 02:09	14° <b>©</b> 34'21	
direct	4847 Jan 06 02:26	16° <b>₹</b> 57'55			4849 Jul 05 14:59	$0^{\circ}\Omega$	
greatest brilliancy	4847 Jan 16 22:13	19° <b>∡</b> 10′57	-4.9m		4849 Jul 30 02:39	0° <b>m</b>	
	4847 Feb 03 16:08	5°0			4849 Aug 23 18:37	0∘ <b>⊽</b>	
morning max el	4847 Feb 25 19:08	20°る14'47	46°58'34		4849 Sep 17 16:43	$0^{\circ}$ M	
	4847 Mar 07 03:54	0° <b>≈</b>		desc. node	4849 Oct 02 18:47	17°M57'36	
	4847 Apr 03 00:42	0° <b>∀</b>			4849 Oct 12 23:48	0° <b>∡</b>	
desc. node	4847 Apr 17 23:52	17° <b>∺</b> 28′08			4849 Nov 07 20:45	0°ಕ	
	4847 Apr 28 13:40	$0^{\circ}\Upsilon$			4849 Dec 04 20:40	0° <b>≈</b>	
	4847 May 23 13:51	0°B		evening max el	4849 Dec 19 06:26	14° <b>≈</b> 58′04	46°56'10
	4847 Jun 17 08:45	0°Щ			4850 Jan 04 07:22	0° <b>∀</b>	
	4847 Jul 12 01:19	0°€		asc. node	4850 Jan 23 20:48	13° <b>)</b> 47′55	
	4847 Aug 05 15:52	$0$ ° $\Omega$		greatest brilliancy	4850 Jan 28 18:32	15° <b>)</b> ₹56'44	-4.9m
asc. node	4847 Aug 09 01:44	4° <b>Ω</b> 10'07		retrograde	4850 Feb 07 18:24	17° <b>¥</b> 50'37	
morning set	4847 Aug 28 05:14	27° <b>Ω</b> 37'22		evening set	4850 Feb 23 23:41	12° <b>)</b> 42′17	
	4847 Aug 30 03:43	0° m/y		inferior conj	4850 Feb 28 09:42	10° <b>米</b> 02′28	7°44'27
	4847 Sep 23 12:29	0∘ <b>⊽</b>		minimum elong	4850 Feb 27 23:50	10° <b>)</b> 17'40	
max. Earth dist.	4847 Oct 01 08:58	9° <b>£</b> 41'53	1.73073 AU	min. Earth dist.	4850 Feb 27 19:37	10° <b>)</b> €24'11	0.26860 AU
	40.47.0 + 02.15.51	120 0 21120	1005101	morning rise	4850 Mar 04 00:07	7° <b>)</b> ₹51'21	
superior conj	4847 Oct 03 15:51	12° <b>£</b> 31′28		direct	4850 Mar 20 21:12	2° <b>)</b> € 20'08	4.0
minimum elong	4847 Oct 03 15:43	12° <b>Ω</b> 31'05	1°25'22	greatest brilliancy	4850 Mar 30 04:58	3° <b>)</b> ₹58′25	-4.9m
	4847 Oct 17 18:45	0°M			4850 May 05 08:47	0°Υ 4° <b>Ω</b> 25140	46025146
evening rise	4847 Nov 09 18:58	28°M31'25		morning max el	4850 May 09 21:46	4° <b>Υ</b> 25'40 10° <b>Υ</b> 03'05	46°35'46
44-	4847 Nov 10 23:32	0° 🖍		desc. node	4850 May 15 11:38		
desc. node	4847 Nov 28 16:35 4847 Dec 05 03:35	21°矛58'54 0°る			4850 Jun 03 05:10 4850 Jun 29 19:05	0°B 0°B	
	4847 Dec 29 07:16	0°≈			4850 Jul 25 12:32	0°©	
	4848 Jan 22 11:26	0 <b>∞</b> 0° <b>∀</b>			4850 Aug 19 18:44	0°€0	
	4848 Feb 15 18:35	0° <b>Υ</b>		asc. node	4850 Sep 05 13:28	20° <b>Ω</b> 10'32	
	4848 Mar 11 09:54	0°8		asc. node	4850 Sep 13 16:11	0° m)	
asc. node	4848 Mar 20 18:19	11° <b>8</b> 11'46			4850 Oct 08 05:54	0∘ <del>ত</del> مسم	
use. Houe	4848 Apr 05 18:45	0°II			4850 Nov 01 13:20	o° <b>m</b>	
	4848 May 02 17:23	0°e ∘		morning set	4850 Nov 04 21:19	4° <b>ጤ</b> 07'59	
evening max el	4848 May 14 14:59	12° <b>©</b> 12'05	46°07'36		4850 Nov 25 16:23	0° <b>∡</b> 7	
<i>y</i>	4848 Jun 03 13:00	$0^{\circ}\Omega$		max. Earth dist.	4850 Dec 10 05:28		1.71823 AU
greatest brilliancy	4848 Jun 21 22:06	11° <b>Ω</b> 06'02	-4.8m				
retrograde	4848 Jul 03 01:10	13° <b>Ω</b> 20'40		superior conj	4850 Dec 12 23:36	21° <b>∡</b> ³36′06	0°31'07
desc. node	4848 Jul 10 09:22	12° <b>Ω</b> 15'58		minimum elong	4850 Dec 13 06:41	21° <b>₹</b> '58'17	0°30'48
evening set	4848 Jul 18 04:45	8° <b>Ω</b> 52'54			4850 Dec 19 16:45	ರ∘ರ	
inferior conj	4848 Jul 24 11:47	5° <b>Ω</b> 05'12	-3°17'42	desc. node	4850 Dec 26 04:29	8° <b>る</b> 07'15	
minimum elong	4848 Jul 24 04:56	5° <b>Ω</b> 15'56	3°15'48		4851 Jan 12 15:29	0° <b>≈</b>	
min. Earth dist.	4848 Jul 24 01:19	5° <b>Ω</b> 21'38	0.28816 AU	evening rise	4851 Jan 22 02:58	11° <b>≈</b> 53′18	
morning rise	4848 Jul 30 05:35	1° <b>Ω</b> 36′58			4851 Feb 05 13:24	0° <b>)</b>	
	4848 Aug 02 08:05	30° <b>₹</b> 5			4851 Mar 01 11:52	$0^{\circ}$ Y	
direct	4848 Aug 15 00:12	26° <b>©</b> 52'50			4851 Mar 25 13:20	$9^{\circ}$ 8	
greatest brilliancy	4848 Aug 24 23:27	28° <b>5</b> 40'22	-4.7m	asc. node	4851 Apr 18 06:14	29° <b>8</b> 14'01	
	4848 Aug 28 08:27	$0$ $^{\circ}\Omega$			4851 Apr 18 21:16	$\Pi$ $\circ$ 0	
morning max el	4848 Oct 02 17:58	26° <b>Ω</b> 39'42	45°46'05		4851 May 13 16:00	0ංඔ	
	4848 Oct 06 04:27	0°Щ			4851 Jun 08 04:18	$0$ $^{\circ}$ $\Omega$	
asc. node	4848 Oct 31 11:15	26° Mp 34'56			4851 Jul 05 01:09	0° <b>m</b> )	
	4848 Nov 03 13:02	0∘ <b>⊽</b>		evening max el	4851 Jul 25 01:20	20° <b>m</b> 27'02	45°31'51
	4848 Nov 29 13:57	0°M			4851 Aug 04 10:58	0∘ <b>⊽</b>	
	4848 Dec 24 13:16	0° <b>∡</b> 7		desc. node	4851 Aug 07 21:11	2° <b>£</b> 54'59	4.7
	4849 Jan 17 23:18	ිට ව°0		greatest brilliancy	4851 Sep 01 18:53	18° <b>Ω</b> 29'05	-4.7m
daga = -1-	4849 Feb 11 02:24	0°≈ 11°2212126		retrograde	4851 Sep 11 18:39	20° <b>Ω</b> 17'32	
desc. node	4849 Feb 20 02:08	11°≈13'36		evening set	4851 Sep 29 21:26	14° <b>Ω</b> 10'49	0027127
	4849 Mar 07 02:07	0° <b>Υ</b> 0° <b>Υ</b>		inferior conj	4851 Oct 03 05:15	12° <b>Ω</b> 07'56	
morning set	4849 Mar 31 00:44	7° <b>Υ</b> 21'35		minimum elong	4851 Oct 03 04:45 4851 Oct 03 15:52	12° <b>Ω</b> 08'43	8°37'37
morning set	4849 Apr 05 21:45 4849 Apr 24 00:09	0° <b>8</b>		min. Earth dist. morning rise	4851 Oct 05 15:52 4851 Oct 06 11:53	11° <b>£</b> 51'21 10° <b>£</b> 06'18	0.28927 AU
	-тот <i>) г</i> .рг 24 00.09	v O		direct	4851 Oct 24 17:26	3° <b>£</b> 50′22	
superior conj	4849 May 15 12:28	26° <b>8</b> 49'09	-1°02'00	greatest brilliancy	4851 Nov 04 16:26	5 <b>≥</b> 50 22 6° <b>₽</b> 01'34	-4 8m
superior conj	10-77 111ay 13 12.20	20 0 + 202	1 02 00	Broatest offiliancy	1051 110V UT 10.20	0 -01 54	7.0111

asc. node	4851 Nov 28 23:00	21° <b>≏</b> 54'45			4854 May 27 05:10	0° <b>©</b>	
	4851 Dec 07 21:05	0°M₊			4854 Jun 20 19:16	$0^{\circ}\Omega$	
morning max el	4851 Dec 13 16:05	5° <b>™</b> 38'47	46°24'51		4854 Jul 15 18:45	0° <b>™</b>	
	4852 Jan 05 12:48	0° <b>∡</b>			4854 Aug 10 08:40	0∘ <b>ত</b>	
	4852 Jan 31 11:48	5°0		desc. node	4854 Sep 04 08:52	28° <b>£</b> 12'51	
	4852 Feb 25 10:34	0° <b>≈</b>			4854 Sep 05 24:00	0°M	
desc. node	4852 Mar 19 13:54	28°≈19'54			4854 Oct 04 23:45	0° <b>∡</b> ¹	
	4852 Mar 20 22:24	0° <b>)</b> €		evening max el	4854 Oct 05 00:03	0° <b>₹</b> 00'42	45°57'14
	4852 Apr 14 05:21	0°Υ		greatest brilliancy	4854 Nov 13 17:04	28° <b>×</b> 37'18	-4.8m
		0°8		greatest offinality		20 × 3/10 0°る	-4.0111
	4852 May 08 10:49			. 1	4854 Nov 19 16:50		
	4852 Jun 01 16:56	0°II		retrograde	4854 Nov 23 01:16	0°る12'52	
morning set	4852 Jun 17 09:29	19° <b>Ⅱ</b> 21'50			4854 Nov 26 08:19	30°Ŗ <b>⋌</b> 7	
	4852 Jun 26 00:32	0		evening set	4854 Dec 08 03:16	25° <b>∡</b> ¹48'48	
asc. node	4852 Jul 10 15:51	18° <b>5</b> 01'36		inferior conj	4854 Dec 13 19:34	22° <b>∡</b> ¹27'43	-3°09'26
	4852 Jul 20 09:18	$\mathfrak{O}^{\circ} \mathfrak{O}$		minimum elong	4854 Dec 14 02:24	22° <b>∡</b> 17'14	3°07'23
				min. Earth dist.	4854 Dec 14 12:56	22° <b>∡</b> ¹01'06	0.27179 AU
superior conj	4852 Jul 24 18:13	5° <b>Ω</b> 22'50	0°32'57	morning rise	4854 Dec 20 00:56	18° <b>∡</b> ¹48'03	
minimum elong	4852 Jul 24 11:43	5°Ω02'50		asc. node	4854 Dec 26 10:54	15° <b>₹</b> 57'36	
max. Earth dist.	4852 Jul 25 03:12	5°Ω50'30	1.73416 AU	direct	4855 Jan 03 16:25	14° <b>×</b> 37'30'	
max. Earm uist.			1./3410 AU				4.0
	4852 Aug 13 18:28	0° m/y		greatest brilliancy	4855 Jan 14 12:58	16° <b>≯</b> ⁴48'06	-4.9m
evening rise	4852 Aug 29 22:25	19° <b>m</b> 53'10			4855 Feb 04 05:12	0° <b>ろ</b>	
	4852 Sep 07 03:51	0∘ <b>⊽</b>		morning max el	4855 Feb 23 08:27		46°58'22
	4852 Oct 01 14:03	0°M			4855 Mar 06 23:06	0° <b>≈</b>	
	4852 Oct 26 02:03	0° <b>∡</b> ¹			4855 Apr 02 15:41	0° <b>∀</b>	
desc. node	4852 Oct 30 06:43	5° <b>∡</b> 07'26		desc. node	4855 Apr 17 01:54	16° <b>¥</b> 53′25	
	4852 Nov 19 16:34	o°B			4855 Apr 28 02:49	$0^{\circ}\Upsilon$	
	4852 Dec 14 10:38	0° <b>≈</b>			4855 May 23 01:59	0°8	
	4853 Jan 08 11:38	0° <b>)</b> €			4855 Jun 16 20:15	0°II	
	4853 Feb 03 05:49	0°Υ			4855 Jul 11 12:23	0°50	
asc. node	4853 Feb 20 08:27	18° <b>Υ</b> 55'42			4855 Aug 05 02:39	0° <b>U</b>	
		28° <b>Y</b> '44'13	47902112	1-	•		
evening max el	4853 Mar 01 17:58		4/ 03/13	asc. node	4855 Aug 08 03:38	3° <b>Ω</b> 43'00	
	4853 Mar 02 24:00	0° <b>8</b>		morning set	4855 Aug 25 22:45	25° <b>Ω</b> 31'12	
greatest brilliancy	4853 Apr 11 01:07	29° <b>8</b> 52'11	-4.9m		4855 Aug 29 14:20	0° <b>™</b>	
	4853 Apr 11 09:36	$\Pi$ $^{\circ}0$			4855 Sep 22 23:03	0∘ <b>⊽</b>	
retrograde	4853 Apr 21 10:12	1° <b>∏</b> 54'16		max. Earth dist.	4855 Sep 29 01:15	7° <b>≏</b> 31'19	1.73105 AU
					1		
	4853 May 01 00:46	30° <b>Ŗ</b> ്			•		
evening set	4853 May 01 00:46 4853 May 08 03:36	30°R <b>と</b> 26° <b>と</b> 25'52		superior conj	4855 Oct 01 09:21	10° <b>≙</b> 24'33	1°25'16
•	4853 May 08 03:36	26° <b>8</b> 25'52	6°41'39		4855 Oct 01 09:21		
inferior conj	4853 May 08 03:36 4853 May 12 10:30	26° <b>8</b> 25'52 23° <b>8</b> 48'26	6°41'39 6°39'30	superior conj minimum elong	4855 Oct 01 09:21 4855 Oct 01 08:31	10° <b>≙</b> 21'59	1°25'16 1°25'16
inferior conj minimum elong	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54	26° <b>8</b> 25'52 23° <b>8</b> 48'26 23° <b>8</b> 32'13	6°39'30	minimum elong	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22	10° <b>£</b> 21'59 0° <b>™</b>	
inferior conj minimum elong min. Earth dist.	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46	26° <b>8</b> 25'52 23° <b>8</b> 48'26 23° <b>8</b> 32'13 23° <b>8</b> 52'41			4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11	10° <b>£</b> 21'59 0° <b>M</b> 26° <b>M</b> 16'25	
inferior conj minimum elong min. Earth dist. morning rise	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31	26°\dagger 25'52 23°\dagger 48'26 23°\dagger 32'13 23°\dagger 52'41 20°\dagger 41'15	6°39'30	minimum elong evening rise	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18	10° <b>2</b> 21'59 0°M 26°M16'25 0°⊀	
inferior conj minimum elong min. Earth dist. morning rise direct	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13	26° <b>8</b> 25'52 23° <b>8</b> 48'26 23° <b>8</b> 32'13 23° <b>8</b> 52'41 20° <b>8</b> 41'15 15° <b>8</b> 49'51	6°39'30	minimum elong	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39	10° <b>£</b> 21'59 0° <b>M</b> 26° <b>M</b> 16'25 0° <b>₹</b> 21° <b>₹</b> 31'30	
inferior conj minimum elong min. Earth dist. morning rise direct desc. node	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 11 23:25	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59	6°39'30 0.27864 AU	minimum elong evening rise	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34	10° <b>£</b> 21'59 0° <b>M</b> 26° <b>M</b> 16'25 0° <b>⊀</b> 21° <b>⊀</b> 31'30 0° <b>♂</b>	
inferior conj minimum elong min. Earth dist. morning rise direct	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 11 23:25 4853 Jun 12 02:30	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38	6°39'30	minimum elong evening rise	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31	10° \$\times 21'59\\ 0° \$\mathbb{M}\$\tag{26} \mathbb{M} \tag{16'25}\\ 0° \$\star* \tag{21} \star* \tag{31'30}\\ 0° \$\tag{5} \\ 0° \$\tag{5}\$	
inferior conj minimum elong min. Earth dist. morning rise direct desc. node	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 11 23:25 4853 Jun 12 02:30 4853 Jul 03 02:00	26°\data25'52 23°\data48'26 23°\data32'13 23°\data52'41 20°\data41'15 15°\data49'51 17°\data31'59 17°\data34'38 0°\pi	6°39'30 0.27864 AU -4.8m	minimum elong evening rise	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34	10°至21'59 0°肌 26°肌16'25 0°♂ 21°♂31'30 0°云 0°≈ 0°米	
inferior conj minimum elong min. Earth dist. morning rise direct desc. node	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 11 23:25 4853 Jun 12 02:30	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38	6°39'30 0.27864 AU -4.8m	minimum elong evening rise	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31	10°至21'59 0°肌 26°肌16'25 0°ズ 21°ズ31'30 0°云 0°≈ 0°升 0°Υ	
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 11 23:25 4853 Jun 12 02:30 4853 Jul 03 02:00	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°II 16°II 15'52 0°S	6°39'30 0.27864 AU -4.8m	minimum elong evening rise	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02	10°至21'59 0°肌 26°肌16'25 0°♂ 21°♂31'30 0°云 0°≈ 0°米	
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 11 23:25 4853 Jun 12 02:30 4853 Jul 03 02:00 4853 Jul 21 12:39	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°II 16°II15'52	6°39'30 0.27864 AU -4.8m	minimum elong evening rise	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40	10°至21'59 0°肌 26°肌16'25 0°ズ 21°ズ31'30 0°云 0°≈ 0°升 0°Υ	
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 11 23:25 4853 Jun 12 02:30 4853 Jul 03 02:00 4853 Jul 21 12:39 4853 Aug 04 06:00	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°II 16°II 15'52 0°S	6°39'30 0.27864 AU -4.8m	minimum elong evening rise desc. node	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40 4856 Mar 10 22:46	10°至21'59 0°肌 26°肌16'25 0°♂ 21°♂31'30 0°云 0°≈ 0°升 0°Y 0°Y	
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 11 23:25 4853 Jun 12 02:30 4853 Jul 03 02:00 4853 Jul 21 12:39 4853 Aug 04 06:00 4853 Aug 31 22:20	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°II 16°II 15'52 0°I 0°I 0°I 0°I	6°39'30 0.27864 AU -4.8m	minimum elong evening rise desc. node	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40 4856 Mar 10 22:46 4856 Mar 19 20:21 4856 Apr 05 09:09	10°至21'59 0°M 26°M16'25 0°ズ 21°ズ31'30 0°云 0°云 0°❤ 0°∀ 0°Y 0°Y 10°♥38'19	
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 12 02:30 4853 Jul 03 02:00 4853 Jul 21 12:39 4853 Aug 04 06:00 4853 Aug 31 22:20 4853 Sep 27 01:29 4853 Oct 03 01:23	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°11 16°115'52 0°50 0°10 0°10 7°1002'51	6°39'30 0.27864 AU -4.8m	minimum elong evening rise desc. node	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40 4856 Mar 10 22:46 4856 Mar 19 20:21 4856 Apr 05 09:09 4856 May 02 11:40	10°至21'59 0°M 26°M16'25 0°ズ 21°ズ31'30 0°云 0°云 0°❤ 0°∀ 10°♥ 10°♥ 10°♥ 0°Ⅱ 0°町	1°25'16
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 12 02:30 4853 Jul 03 02:00 4853 Jul 21 12:39 4853 Aug 04 06:00 4853 Aug 31 22:20 4853 Sep 27 01:29 4853 Oct 03 01:23 4853 Oct 22 07:24	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°11 16°115'52 0°9 0°10 0°10 7°1002'51 0°9	6°39'30 0.27864 AU -4.8m	minimum elong evening rise desc. node	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40 4856 Mar 10 22:46 4856 Mar 19 20:21 4856 Apr 05 09:09 4856 May 02 11:40 4856 May 12 05:50	10°至21'59 0°M 26°M16'25 0°ズ 21°ズ31'30 0°云 0°云 0°云 0°云 0°∀ 0°Y 0°∀ 10°♂38'19 0°Ⅱ 0°의 9°©57'11	
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 11 23:25 4853 Jun 12 02:30 4853 Jul 03 02:00 4853 Jul 21 12:39 4853 Aug 04 06:00 4853 Aug 31 22:20 4853 Sep 27 01:29 4853 Oct 03 01:23 4853 Oct 22 07:24 4853 Nov 15 23:13	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°11 16°115'52 0°50 0°10 0°10 7°1002'51 0°50 0°11	6°39'30 0.27864 AU -4.8m	minimum elong evening rise desc. node asc. node	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40 4856 Mar 10 22:46 4856 Mar 19 20:21 4856 Apr 05 09:09 4856 May 02 11:40 4856 May 12 05:50 4856 Jun 04 02:18	10° \$\to 21'59\\ 0° \$\mathbb{M}\$. 26° \$\mathbb{M}\$. 16'25\\ 0° \$\mathscr{A}\$' 31'30\\ 0° \$\mathscr{A}\$ 0° \$\mathscr{A}\$.\\ 0° \$\mathscr{A}\$ 10° \$\mathscr{A}\$ 38'19\\ 0° \$\mathbb{M}\$.\\ 0° \$\mathscr{A}\$.\\ 9° \$\mathscr{A}\$ 57'11\\ 0° \$\mathscr{A}\$.\\	1°25'16 46°09'29
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 12 02:30 4853 Jun 12 02:30 4853 Jul 03 02:00 4853 Jul 21 12:39 4853 Aug 04 06:00 4853 Aug 31 22:20 4853 Oct 03 01:23 4853 Oct 03 01:23 4853 Oct 22 07:24 4853 Nov 15 23:13 4853 Dec 10 05:53	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°Ⅲ 16°Ⅲ15'52 0°№ 0°№ 7°№02'51 0°№ 0°™	6°39'30 0.27864 AU -4.8m	minimum elong evening rise desc. node asc. node evening max el greatest brilliancy	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40 4856 Mar 10 22:46 4856 Mar 19 20:21 4856 Apr 05 09:09 4856 May 02 11:40 4856 May 12 05:50 4856 Jun 04 02:18 4856 Jun 19 15:10	10° \$\to 21'59\\ 0° \$\mathbb{M}\$. 26° \$\mathbb{M}\$. 16'25\\ 0° \$\mathscr{A}\$' 31'30\\ 0° \$\mathscr{A}\$ 0° \$\mathscr{A}\$. 0° \$\mathscr{A}\$ 10° \$\mathscr{A}\$ 38'19\\ 0° \$\mathscr{M}\$ 0° \$\mathscr{M}\$ 0° \$\mathscr{M}\$ 0° \$\mathscr{A}\$ 8° \$\mathscr{A}\$ 57'14	1°25'16 46°09'29
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el asc. node	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 12 02:30 4853 Jun 12 02:30 4853 Jul 03 02:00 4853 Jul 21 12:39 4853 Aug 04 06:00 4853 Aug 31 22:20 4853 Oct 03 01:23 4853 Oct 03 01:23 4853 Oct 22 07:24 4853 Nov 15 23:13 4853 Dec 10 05:53 4854 Jan 03 07:07	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°用 16°用15'52 0°50 0°れ 0°か 7°か02'51 0°50 0°ポ	6°39'30 0.27864 AU -4.8m	minimum elong evening rise desc. node asc. node evening max el greatest brilliancy retrograde	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40 4856 Mar 10 22:46 4856 Mar 19 20:21 4856 May 02 11:40 4856 May 02 11:40 4856 Jun 04 02:18 4856 Jun 04 02:18 4856 Jun 19 15:10 4856 Jun 30 16:56	10°至21'59 0°肌 26°肌16'25 0°水 21°水31'30 0°云 0°※ 0°升 0°Y 0°Y 0°B 10°B38'19 0°肌 0°© 9°©57'11 0°Ω 8°Ω57'14 11°Ω11'11	1°25'16 46°09'29
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el  asc. node	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 12 02:30 4853 Jun 12 02:30 4853 Jul 03 02:00 4853 Jul 21 12:39 4853 Aug 04 06:00 4853 Aug 31 22:20 4853 Oct 03 01:23 4853 Oct 03 01:23 4853 Oct 22 07:24 4853 Nov 15 23:13 4853 Dec 10 05:53 4854 Jan 03 07:07 4854 Jan 16 11:22	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°用 16°用15'52 0°% 0°% 0°% 0°% 0°% 10°% 10°% 10°% 10°%	6°39'30 0.27864 AU -4.8m	minimum elong evening rise desc. node  asc. node  evening max el greatest brilliancy retrograde desc. node	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40 4856 Mar 10 22:46 4856 Mar 10 22:46 4856 Mar 19 20:21 4856 May 02 11:40 4856 May 12 05:50 4856 Jun 04 02:18 4856 Jun 19 15:10 4856 Jun 30 16:56 4856 Jul 09 11:18	10°至21'59 0°M 26°M16'25 0°水 21°水31'30 0°云 0°※ 0°米 0°Y 0°Y 0°B 10°B38'19 0°M 0°G 9°9557'11 0°A 8°A57'14 11°A11'11 9°A39'18	1°25'16 46°09'29
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el asc. node	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 12 02:30 4853 Jun 12 02:30 4853 Jul 03 02:00 4853 Jul 21 12:39 4853 Aug 04 06:00 4853 Aug 31 22:20 4853 Sep 27 01:29 4853 Oct 03 01:23 4853 Oct 03 01:23 4853 Oct 22 07:24 4853 Nov 15 23:13 4854 Jan 03 07:07 4854 Jan 16 11:22 4854 Jan 22 16:15	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°用 16°用15'52 0°© 0°の 0°所 7°™02'51 0°亞 0°™ 0°% 16°830'40 24°817'44	6°39'30 0.27864 AU -4.8m	minimum elong evening rise desc. node  asc. node  evening max el greatest brilliancy retrograde desc. node evening set	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40 4856 Mar 10 22:46 4856 Mar 10 22:46 4856 Mar 19 20:21 4856 Apr 05 09:09 4856 May 02 11:40 4856 May 12 05:50 4856 Jun 04 02:18 4856 Jun 19 15:10 4856 Jun 30 16:56 4856 Jul 09 11:18 4856 Jul 09 11:18	10° \$\to 21'59 0° \$\mathbb{\text{N}}\$ 26° \$\mathbb{\text{N}}\$16'25 0° \$\stacksquare \text{7}\$31'30 0° \$\text{3}\$ 0° \$\text{8}\$ 0° \$\text{Y}\$ 0° \$\text{Y}\$ 0° \$\text{Y}\$ 0° \$\text{Y}\$ 0° \$\text{Y}\$ 0° \$\text{S}\$ 10° \$\text{S}38'19 0° \$\text{H}\$ 0° \$\text{S}\$ 9° \$\text{95}57'11 0° \$\text{Q}\$ 8° \$\text{Q}57'14 11° \$\text{Q}11'11 9° \$\text{Q}39'18 6° \$\text{Q}44'50	1°25'16 46°09'29 -4.8m
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el  asc. node	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 12 02:30 4853 Jun 12 02:30 4853 Jul 03 02:00 4853 Jul 21 12:39 4853 Aug 04 06:00 4853 Aug 31 22:20 4853 Sep 27 01:29 4853 Oct 03 01:23 4853 Oct 03 01:23 4853 Oct 22 07:24 4853 Nov 15 23:13 4853 Dec 10 05:53 4854 Jan 03 07:07 4854 Jan 16 11:22 4854 Jan 22 16:15 4854 Jan 27 05:16	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°用 16°用15'52 0°© 0°の 0°™ 7°™02'51 0°© 0°™ 0°% 16°830'40 24°817'44 0°≈	6°39'30 0.27864 AU -4.8m	minimum elong evening rise desc. node  asc. node  evening max el greatest brilliancy retrograde desc. node	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40 4856 Mar 10 22:46 4856 Mar 19 20:21 4856 Apr 05 09:09 4856 May 02 11:40 4856 May 12 05:50 4856 Jun 04 02:18 4856 Jun 04 02:18 4856 Jun 19 15:10 4856 Jun 30 16:56 4856 Jul 09 11:18 4856 Jul 15 20:08 4856 Jul 22 04:01	10° \$\times 21'59 0° \$\mathbb{M}\$ 26° \$\mathbb{M}\$ 16'25 0° \$\mathbb{A}\$ 21° \$\mathbb{A}\$ 31'30 0° \$\mathref{A}\$ 0° \$\mathref{A}\$ 0° \$\mathref{A}\$ 0° \$\mathref{A}\$ 10° \$\mathref{A}\$ 38'19 0° \$\mathref{M}\$ 0° \$\mathref{A}\$ 9° \$\mathref{S}57'11 0° \$\mathref{A}\$ 8° \$\mathref{A}57'14 11° \$\mathref{A}11'11 9° \$\mathref{A}\$ 39'18 6° \$\mathref{A}44'50 2° \$\mathref{A}\$ 56'05	1°25'16 46°09'29 -4.8m
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el  asc. node	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 12 02:30 4853 Jun 12 02:30 4853 Jul 03 02:00 4853 Jul 21 12:39 4853 Aug 04 06:00 4853 Aug 31 22:20 4853 Sep 27 01:29 4853 Oct 03 01:23 4853 Oct 03 01:23 4853 Oct 22 07:24 4853 Nov 15 23:13 4854 Jan 03 07:07 4854 Jan 16 11:22 4854 Jan 22 16:15	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°用 16°用15'52 0°© 0°の 0°所 7°™02'51 0°亞 0°™ 0°% 16°830'40 24°817'44	6°39'30 0.27864 AU -4.8m	minimum elong evening rise desc. node  asc. node  evening max el greatest brilliancy retrograde desc. node evening set	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40 4856 Mar 10 22:46 4856 Mar 10 22:46 4856 Mar 19 20:21 4856 Apr 05 09:09 4856 May 02 11:40 4856 May 12 05:50 4856 Jun 04 02:18 4856 Jun 19 15:10 4856 Jun 30 16:56 4856 Jul 09 11:18 4856 Jul 09 11:18	10° \$\to 21'59 0° \$\mathbb{\text{N}}\$ 26° \$\mathbb{\text{N}}\$16'25 0° \$\stacksquare \text{7}\$31'30 0° \$\text{3}\$ 0° \$\text{8}\$ 0° \$\text{Y}\$ 0° \$\text{Y}\$ 0° \$\text{Y}\$ 0° \$\text{Y}\$ 0° \$\text{Y}\$ 0° \$\text{S}\$ 10° \$\text{S}38'19 0° \$\text{H}\$ 0° \$\text{S}\$ 9° \$\text{95}57'11 0° \$\text{Q}\$ 8° \$\text{Q}57'14 11° \$\text{Q}11'11 9° \$\text{Q}39'18 6° \$\text{Q}44'50	1°25'16 46°09'29 -4.8m
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el  asc. node	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 12 02:30 4853 Jun 12 02:30 4853 Jul 03 02:00 4853 Jul 21 12:39 4853 Aug 04 06:00 4853 Aug 31 22:20 4853 Sep 27 01:29 4853 Oct 03 01:23 4853 Oct 03 01:23 4853 Oct 22 07:24 4853 Nov 15 23:13 4853 Dec 10 05:53 4854 Jan 03 07:07 4854 Jan 16 11:22 4854 Jan 22 16:15 4854 Jan 27 05:16	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°用 16°用15'52 0°© 0°の 0°™ 7°™02'51 0°© 0°™ 0°% 16°830'40 24°817'44 0°≈	6°39'30 0.27864 AU -4.8m	minimum elong evening rise  desc. node  asc. node  evening max el greatest brilliancy retrograde desc. node evening set inferior conj	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40 4856 Mar 10 22:46 4856 Mar 19 20:21 4856 Apr 05 09:09 4856 May 02 11:40 4856 May 12 05:50 4856 Jun 04 02:18 4856 Jun 04 02:18 4856 Jun 19 15:10 4856 Jun 30 16:56 4856 Jul 09 11:18 4856 Jul 15 20:08 4856 Jul 22 04:01	10° \$\times 21'59 0° \$\mathbb{M}\$ 26° \$\mathbb{M}\$ 16'25 0° \$\mathbb{A}\$ 21° \$\mathbb{A}\$ 31'30 0° \$\mathref{A}\$ 0° \$\mathref{A}\$ 0° \$\mathref{A}\$ 0° \$\mathref{A}\$ 10° \$\mathref{A}\$ 38'19 0° \$\mathref{M}\$ 0° \$\mathref{A}\$ 9° \$\mathref{S}57'11 0° \$\mathref{A}\$ 8° \$\mathref{A}57'14 11° \$\mathref{A}11'11 9° \$\mathref{A}\$ 39'18 6° \$\mathref{A}44'50 2° \$\mathref{A}\$ 56'05	1°25'16 46°09'29 -4.8m -2°59'00 2°57'14
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inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el  asc. node  morning set desc. node	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 12 02:30 4853 Jun 12 02:30 4853 Jul 21 12:39 4853 Aug 04 06:00 4853 Aug 31 22:20 4853 Sep 27 01:29 4853 Oct 03 01:23 4853 Oct 22 07:24 4853 Nov 15 23:13 4853 Dec 10 05:53 4854 Jan 03 07:07 4854 Jan 16 11:22 4854 Jan 27 05:16 4854 Feb 26 18:00 4854 Feb 26 06:43	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°用 16°用15'52 0°9 0°0 0°m 7°m02'51 0°9 0°M 0°が 16°830'40 24°817'44 0°≈ 0°米 8°823'52 7°848'22	6°39'30 0.27864 AU -4.8m 45°52'13 -1°12'05 1°11'45	minimum elong evening rise  desc. node  asc. node  evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40 4856 Mar 10 22:46 4856 Mar 10 22:46 4856 Mar 10 20:21 4856 Apr 05 09:09 4856 May 02 11:40 4856 May 12 05:50 4856 Jun 04 02:18 4856 Jun 04 02:18 4856 Jun 19 15:10 4856 Jun 30 16:56 4856 Jul 09 11:18 4856 Jul 15 20:08 4856 Jul 21 21:44 4856 Jul 21 18:01 4856 Jul 26 23:05 4856 Jul 27 23:43	10° \$\times 21'59 0° \$\tilde{M}\$. 16'25 0° \$\tilde{X}\$? 31'30 0° \$\tilde{S}\$. 0° \$\tilde{X}\$. 0° \$\tilde{Y}\$. 0° \$\tilde{Y}\$. 0° \$\tilde{Y}\$. 0° \$\tilde{Y}\$. 0° \$\tilde{S}\$. 10° \$\tilde{S}\$38'19 0° \$\tilde{M}\$. 0° \$\tilde{S}\$. 0° \$\tilde{S}\$. 0° \$\tilde{S}\$. 11'11 0° \$\tilde{M}\$. 8° \$\tilde{M}\$57'14 11° \$\tilde{M}\$11'11 9° \$\tilde{M}\$39'18 6° \$\tilde{M}\$44'50 2° \$\tilde{M}\$56'05 3° \$\tilde{M}\$05'57 3° \$\tilde{M}\$11'47 30° \$\tilde{S}\$. 29° \$\tilde{S}\$24'54	1°25'16 46°09'29 -4.8m -2°59'00 2°57'14
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el  asc. node  morning set desc. node	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 12 02:30 4853 Jun 12 02:30 4853 Jul 21 12:39 4853 Aug 04 06:00 4853 Aug 31 22:20 4853 Sep 27 01:29 4853 Oct 03 01:23 4853 Oct 22 07:24 4853 Nov 15 23:13 4853 Dec 10 05:53 4854 Jan 03 07:07 4854 Jan 16 11:22 4854 Jan 22 16:15 4854 Feb 26 18:00 4854 Feb 26 06:43 4854 Feb 26 06:43 4854 Feb 27 17:10	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°用 16°用15'52 0°9 0°0 0°m 7°m02'51 0°9 0°M 0°が 16°330'40 24°317'44 0°≈ 0°米 8°823'52 7°848'22 9°836'43	6°39'30 0.27864 AU -4.8m 45°52'13	minimum elong evening rise  desc. node  asc. node  evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong min. Earth dist.  morning rise direct	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40 4856 Mar 10 22:46 4856 Mar 10 22:46 4856 Mar 10 20:21 4856 Apr 05 09:09 4856 May 02 11:40 4856 May 12 05:50 4856 Jun 04 02:18 4856 Jun 19 15:10 4856 Jun 19 15:10 4856 Jun 30 16:56 4856 Jul 20 11:18 4856 Jul 21 21:44 4856 Jul 21 21:44 4856 Jul 21 21:44 4856 Jul 22 04:01 4856 Jul 21 21:44 4856 Jul 22 23:05 4856 Jul 27 23:43 4856 Aug 12 15:45	10° \$\times 21'59 0° \$\tilde{\mathbb{n}}\$ 26° \$\tilde{\mathbb{n}}\$ 16'25 0° \$\forall ^2\$ 21° \$\sigma 31'30 0° \$\tilde{\mathbb{c}}\$ 0° \$\tilde{\mathbb{n}}\$ 10° \$\tilde{\mathbb{n}}\$ 0° \$\tilde{\mathbb{n}}\$ 11° \$\tilde{\mathbb{n}}\$ 11' 11' 9° \$\tilde{\mathbb{n}}\$ 2° \$\tilde{\mathbb{n}}\$ 3° \$\tilde{\mathbb{n}}\$ 11' 47 30° \$\tilde{\mathbb{n}}\$ 29° \$\tilde{\mathbb{n}}\$ 24' \$\tilde{\mathbb{n}}\$ 44' 07	1°25'16 46°09'29 -4.8m -2°59'00 2°57'14 0.28788 AU
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el  asc. node  morning set desc. node  superior conj minimum elong max. Earth dist.	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 12 02:30 4853 Jun 12 02:30 4853 Jul 21 12:39 4853 Aug 04 06:00 4853 Aug 31 22:20 4853 Sep 27 01:29 4853 Oct 03 01:23 4853 Oct 22 07:24 4853 Nov 15 23:13 4853 Dec 10 05:53 4854 Jan 03 07:07 4854 Jan 16 11:22 4854 Jan 22 16:15 4854 Feb 26 18:00 4854 Feb 26 18:00 4854 Feb 26 18:00 4854 Feb 27 17:10 4854 Mar 15 22:13	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°用 16°用15'52 0°% 0°仍 0°阶 7°№02'51 0°Ф 0°% 16°830'40 24°817'44 0°≈ 0°米 8°823'52 7°848'22 9°836'43 0°°	6°39'30 0.27864 AU -4.8m 45°52'13 -1°12'05 1°11'45	minimum elong evening rise  desc. node  asc. node  evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40 4856 Mar 10 22:46 4856 Mar 10 22:46 4856 Mar 19 20:21 4856 Mar 19 20:21 4856 Mar 19 20:21 4856 Mar 19 20:50 4856 Jun 04 02:18 4856 Jun 04 02:18 4856 Jun 19 15:10 4856 Jun 19 15:10 4856 Jun 19 15:10 4856 Jul 20 11:18 4856 Jul 21 20:08 4856 Jul 22 04:01 4856 Jul 21 21:44 4856 Jul 21 21:44 4856 Jul 22 03:05 4856 Jul 27 23:43 4856 Aug 12 15:45 4856 Aug 22 15:33	10° \$\to 21'59\\ 0° \$\mathbb{M}\$. 26° \$\mathbb{M}\$. 16'25\\ 0° \$\mathbb{A}\$ 21° \$\mathbb{A}\$ 31'30\\ 0° \$\mathbb{A}\$ 0° \$\mathbb{M}\$. 0° \$\ma	1°25'16 46°09'29 -4.8m -2°59'00 2°57'14 0.28788 AU
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el  asc. node  morning set desc. node	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 12 02:30 4853 Jun 12 02:30 4853 Jul 21 12:39 4853 Aug 04 06:00 4853 Aug 31 22:20 4853 Aug 31 22:20 4853 Oct 03 01:23 4853 Oct 03 01:23 4853 Oct 22 07:24 4853 Nov 15 23:13 4853 Dec 10 05:53 4854 Jan 03 07:07 4854 Jan 16 11:22 4854 Jan 27 05:16 4854 Feb 20 01:49  4854 Feb 26 18:00 4854 Feb 26 18:00 4854 Feb 27 17:10 4854 Mar 15 22:13 4854 Apr 08 14:02	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°II 16°II15'52 0°® 0°I	6°39'30 0.27864 AU -4.8m 45°52'13 -1°12'05 1°11'45	minimum elong evening rise  desc. node  asc. node  evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong min. Earth dist.  morning rise direct greatest brilliancy	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40 4856 Mar 10 22:46 4856 Mar 10 20:21 4856 Apr 05 09:09 4856 May 02 11:40 4856 May 12 05:50 4856 Jun 04 02:18 4856 Jun 04 02:18 4856 Jun 19 15:10 4856 Jun 19 15:10 4856 Jun 19 15:10 4856 Jul 20 11:18 4856 Jul 15 20:08 4856 Jul 22 04:01 4856 Jul 21 21:44 4856 Jul 21 21:44 4856 Jul 21 21:44 4856 Jul 27 23:43 4856 Aug 12 15:45 4856 Aug 22 15:33 4856 Aug 30 08:51	10° \$\to 21'59\\ 0° \$\mathbb{M}\$. 26° \$\mathbb{M}\$. 16'25\\ 0° \$\mathbb{A}\$ 21° \$\mathbb{A}\$ 31'30\\ 0° \$\mathbb{C}\$ 0° \$\mathbb{M}\$. 0° \$\mathbb{C}\$ 10° \$\mathbb{M}\$ 38'19\\ 0° \$\mathbb{M}\$ 9° \$\mathbb{G}\$ 57'11\\ 0° \$\mathbb{M}\$ 8° \$\mathbb{M}\$ 57'14\\ 11° \$\mathbb{M}\$ 11'11\\ 9° \$\mathbb{M}\$ 39'18\\ 6° \$\mathbb{M}\$ 44'50\\ 2° \$\mathbb{M}\$ 56'05\\ 3° \$\mathbb{M}\$ 05'57\\ 30° \$\mathbb{M}\$ 29° \$\mathbb{G}\$ 24'54\\ 24° \$\mathbb{G}\$ 44'07\\ 26° \$\mathbb{G}\$ 31'40\\ 0° \$\mathbb{M}\$	1°25'16 46°09'29 -4.8m -2°59'00 2°57'14 0.28788 AU -4.7m
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el  asc. node  morning set desc. node  superior conj minimum elong max. Earth dist.	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 12 02:30 4853 Jun 12 02:30 4853 Jul 03 02:00 4853 Jul 21 12:39 4853 Aug 04 06:00 4853 Aug 31 22:20 4853 Oct 03 01:23 4853 Oct 22 07:24 4853 Nov 15 23:13 4853 Dec 10 05:53 4854 Jan 03 07:07 4854 Jan 16 11:22 4854 Jan 27 05:16 4854 Feb 20 01:49  4854 Feb 26 18:00 4854 Feb 26 16:13 4854 Feb 27 17:10 4854 Mar 15 22:13 4854 Apr 08 14:02 4854 Apr 08 14:02 4854 Apr 08 12:05	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°用 16°用15'52 0°% 0°M 7°™02'51 0°₽ 0°M 0°% 16°830'40 24°817'44 0°≈ 0°H 8°\$23'52 7°\$48'22 9°\$36'43 0°\$7 29°\$40'21 0°8	6°39'30 0.27864 AU -4.8m 45°52'13 -1°12'05 1°11'45	minimum elong evening rise  desc. node  asc. node  evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong min. Earth dist.  morning rise direct	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40 4856 Mar 10 22:46 4856 Mar 10 22:46 4856 Mar 19 20:21 4856 May 02 11:40 4856 May 12 05:50 4856 Jun 04 02:18 4856 Jun 04 02:18 4856 Jun 19 15:10 4856 Jun 19 15:10 4856 Jul 15 20:08 4856 Jul 20 11:18 4856 Jul 21 21:44 4856 Jul 21 21:44 4856 Jul 21 18:01 4856 Jul 21 21:44 4856 Jul 21 21:44 4856 Jul 21 18:01 4856 Jul 27 23:43 4856 Aug 12 15:45 4856 Aug 30 08:51 4856 Sep 30 08:22	10° \$\times 21'59 0° \$\tilde{M}\$. 26° \$\tilde{M}\$. 16'25 0° \$\tilde{\sigma}\$? 21° \$\tilde{\sigma}\$31'30 0° \$\tilde{\sigma}\$. 0° \$\tilde{\sigma}\$. 0° \$\tilde{\sigma}\$. 0° \$\tilde{\sigma}\$. 0° \$\tilde{\sigma}\$. 10° \$\tilde{\sigma}\$. 38'19 0° \$\tilde{\sigma}\$. 0° \$\tilde{\sigma}\$. 0° \$\tilde{\sigma}\$. 0° \$\tilde{\sigma}\$. 8° \$\tilde{\sigma}\$. 57'14 11° \$\tilde{\sigma}\$. 11'11 9° \$\tilde{\sigma}\$. 39'18 6° \$\tilde{\sigma}\$. 44'50 2° \$\tilde{\sigma}\$. 26'05 3° \$\tilde{\sigma}\$. 305'57 3° \$\tilde{\sigma}\$. 11'47 30° \$\tilde{\sigma}\$. 29° \$\tilde{\sigma}\$. 24'54 24° \$\tilde{\sigma}\$. 24' \$\tilde{\sigma}\$. 26'21	1°25'16 46°09'29 -4.8m -2°59'00 2°57'14 0.28788 AU
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el  asc. node  morning set desc. node  superior conj minimum elong max. Earth dist.	4853 May 08 03:36 4853 May 12 10:30 4853 May 12 20:54 4853 May 12 07:46 4853 May 17 14:31 4853 Jun 02 09:13 4853 Jun 12 02:30 4853 Jun 12 02:30 4853 Jul 21 12:39 4853 Aug 04 06:00 4853 Aug 31 22:20 4853 Aug 31 22:20 4853 Oct 03 01:23 4853 Oct 03 01:23 4853 Oct 22 07:24 4853 Nov 15 23:13 4853 Dec 10 05:53 4854 Jan 03 07:07 4854 Jan 16 11:22 4854 Jan 27 05:16 4854 Feb 20 01:49  4854 Feb 26 18:00 4854 Feb 26 18:00 4854 Feb 27 17:10 4854 Mar 15 22:13 4854 Apr 08 14:02	26°825'52 23°848'26 23°832'13 23°852'41 20°841'15 15°849'51 17°831'59 17°834'38 0°II 16°II15'52 0°® 0°I	6°39'30 0.27864 AU -4.8m 45°52'13 -1°12'05 1°11'45	minimum elong evening rise  desc. node  asc. node  evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong min. Earth dist.  morning rise direct greatest brilliancy	4855 Oct 01 09:21 4855 Oct 01 08:31 4855 Oct 17 05:22 4855 Nov 07 10:11 4855 Nov 10 10:18 4855 Nov 27 18:39 4855 Dec 04 14:34 4855 Dec 28 18:31 4856 Jan 21 23:02 4856 Feb 15 06:40 4856 Mar 10 22:46 4856 Mar 10 20:21 4856 Apr 05 09:09 4856 May 02 11:40 4856 May 12 05:50 4856 Jun 04 02:18 4856 Jun 04 02:18 4856 Jun 19 15:10 4856 Jun 19 15:10 4856 Jun 19 15:10 4856 Jul 20 11:18 4856 Jul 15 20:08 4856 Jul 22 04:01 4856 Jul 21 21:44 4856 Jul 21 21:44 4856 Jul 21 21:44 4856 Jul 27 23:43 4856 Aug 12 15:45 4856 Aug 22 15:33 4856 Aug 30 08:51	10° \$\to 21'59\\ 0° \$\mathbb{M}\$. 26° \$\mathbb{M}\$. 16'25\\ 0° \$\mathbb{A}\$ 21° \$\mathbb{A}\$ 31'30\\ 0° \$\mathbb{C}\$ 0° \$\mathbb{M}\$. 0° \$\mathbb{C}\$ 10° \$\mathbb{M}\$ 38'19\\ 0° \$\mathbb{M}\$ 9° \$\mathbb{G}\$ 57'11\\ 0° \$\mathbb{M}\$ 8° \$\mathbb{M}\$ 57'14\\ 11° \$\mathbb{M}\$ 11'11\\ 9° \$\mathbb{M}\$ 39'18\\ 6° \$\mathbb{M}\$ 44'50\\ 2° \$\mathbb{M}\$ 56'05\\ 3° \$\mathbb{M}\$ 05'57\\ 30° \$\mathbb{M}\$ 29° \$\mathbb{G}\$ 24'54\\ 24° \$\mathbb{G}\$ 44'07\\ 26° \$\mathbb{G}\$ 31'40\\ 0° \$\mathbb{M}\$	1°25'16 46°09'29 -4.8m -2°59'00 2°57'14 0.28788 AU -4.7m

	4856 Nov 03 03:57	0∘ <b>ত</b>			4859 Jun 07 17:57	0° <b>Ω</b>	
	4856 Nov 29 02:53	0°M			4859 Jul 04 17:54	0° <b>m</b> )	
	4856 Dec 24 01:16	0°×7'		evening max el	4859 Jul 22 17:12	18° <b>m</b> ) 17'21	45°32'17
	4857 Jan 17 10:48	0°ਤੋ		evening max er	4859 Aug 04 15:21	0° <b>ರ</b>	43 32 17
	4857 Feb 10 13:36	0° <b>≈</b>		desc. node	4859 Aug 06 23:08	° <b>-</b> 1° <b>-</b> 255'37	
desc. node	4857 Feb 19 04:00	10°≈44'36		greatest brilliancy	4859 Aug 30 08:07	16° <b>≙</b> 17'27	-4.7m
	4857 Mar 06 13:08	0° <b>∀</b>		retrograde	4859 Sep 09 10:50	18° <b>≏</b> 08'10	
	4857 Mar 30 11:36	$0^{\circ}\mathbf{\Upsilon}$		evening set	4859 Sep 27 12:03	12° <b>ჲ</b> 02'33	
morning set	4857 Apr 03 09:00	4° <b>Ƴ</b> 52'37		inferior conj	4859 Sep 30 21:11	9° <b>ჲ</b> 57'36	-8°36'28
	4857 Apr 23 10:52	$8^{\circ 0}$		minimum elong	4859 Sep 30 19:54	9° <b>ჲ</b> 59'35	8°36'26
				min. Earth dist.	4859 Oct 01 06:13	9° <b>≙</b> 43'30	0.28965 AU
superior conj	4857 May 13 02:22	24° <b>8</b> 30'07	-1°04'30	morning rise	4859 Oct 04 03:38	7° <b>≏</b> 56'22	
minimum elong	4857 May 13 13:07	25° <b>8</b> 03'32	1°04'09	direct	4859 Oct 22 10:10	1° <b>≏</b> 39'44	
max. Earth dist.	4857 May 17 00:39	_	1.72265 AU	greatest brilliancy	4859 Nov 02 07:32	3° <b>≏</b> 49'47	-4.8m
	4857 May 17 12:28	$\Pi^{\circ}0$		asc. node	4859 Nov 28 01:02	20° <b>≏</b> 55'42	
	4857 Jun 10 17:18	0° <b>©</b>			4859 Dec 07 20:36	0° <b>M</b> ₊	
asc. node	4857 Jun 12 06:03	1° <b>©</b> 53'30		morning max el	4859 Dec 11 08:24	3°M25'59 -	46°23'07
evening rise	4857 Jun 20 18:29	12° <b>©</b> 24'11			4860 Jan 05 04:57	0° <b>⊼</b> ¹	
	4857 Jul 05 01:35	$0^{\circ}\Omega$			4860 Jan 31 01:32	0°ප	
	4857 Jul 29 13:28	0° <b>m</b> )		1 1	4860 Feb 24 23:08	0°≈ 27040150	
	4857 Aug 23 05:48	0° <b>№</b> 0° <b>亞</b>		desc. node	4860 Mar 18 16:02	27° <b>≈</b> 49'50 0° <b>米</b>	
desc. node	4857 Sep 17 04:33	บาแน 17° <b>M</b> L26'54			4860 Mar 20 10:17	0° <b>Υ</b>	
desc. node	4857 Oct 01 20:48 4857 Oct 12 12:42	17 IIG20 34 0° <b>⊼</b> 1			4860 Apr 13 16:46 4860 May 07 21:54	0°8	
	4857 Nov 07 11:33	0°ਤ			4860 Jun 01 03:46	0°II	
	4857 Dec 04 15:34	0°≈		morning set	4860 Jun 15 01:37	17° <b>Ⅱ</b> 10′27	
evening max el	4857 Dec 16 18:56	0 <b>~</b> 12° <b>≈</b> 31'56	46°54'39	morning set	4860 Jun 25 11:12	0°95	
evening max er	4858 Jan 04 17:50	0° <b>\</b>	40 54 57	asc. node	4860 Jul 09 17:47	17°935'00	
asc. node	4858 Jan 22 22:41	12° <b>)</b> €05'24		use. noue	4860 Jul 19 19:51	0° <b>Ω</b>	
greatest brilliancy	4858 Jan 26 07:38	13° <b>¥</b> 29'30	-4.9m			* 00	
retrograde	4858 Feb 05 06:50	15° <b>)</b> €23'17		superior conj	4860 Jul 22 11:40	3° <b>Ω</b> 16′24	0°29'55
evening set	4858 Feb 21 08:00	10° <b>)</b> €21'04		minimum elong	4860 Jul 22 05:40	2° <b>Ω</b> 57'54	0°29'38
inferior conj	4858 Feb 25 22:15	7° <b>∺</b> 35'39	7°31'21	max. Earth dist.	4860 Jul 23 01:39	3° <b>£</b> 59′26	1.73398 AU
minimum elong	4858 Feb 25 12:01	7° <b>)</b> €51′24	7°29'29		4860 Aug 13 05:00	0° <b>™</b>	
min. Earth dist.	4858 Feb 25 08:35	7° <b>∺</b> 56'39	0.26833 AU	evening rise	4860 Aug 27 16:57	17° <b>m</b> 50'06	
morning rise	4858 Mar 01 16:08	5° <b>)</b> 19′43			4860 Sep 06 14:27	0∘ <b>⊽</b>	
	4858 Mar 16 00:54	30° <b>R</b> ≈			4860 Oct 01 00:54	$0^{\circ}$ M.	
direct	4858 Mar 18 09:11	29° <b>≈</b> 53'17			4860 Oct 25 13:18	0° <b>∡</b> ¹	
	4858 Mar 20 18:09	0° <b>∀</b>		desc. node	4860 Oct 29 08:49	4° <b>∡</b> ³39'16	
greatest brilliancy	4858 Mar 27 18:33	1° <b>∺</b> 33′05	-4.9m		4860 Nov 19 04:25	0°ಕ	
	4858 May 05 09:12	0° <b>Υ</b>			4860 Dec 13 23:17	0° <b>≈</b>	
morning max el	4858 May 07 11:05	2° <b>Υ</b> 02'48	46°37'29		4861 Jan 08 01:33	0° <b>)</b> €	
desc. node	4858 May 14 13:42	9° <b>Y</b> 15'10		,	4861 Feb 02 22:09	0° <b>Υ</b>	
	4858 Jun 02 21:40	0° <b>Β</b>		asc. node	4861 Feb 19 10:31	18° <b>Y</b> 09'18	47904121
	4858 Jun 29 08:45 4858 Jul 25 00:46	0°© 10°0		evening max el	4861 Feb 27 09:29	26° <b>Y</b> 25'51 0° <b>と</b>	47°04'21
	4858 Aug 19 06:09	0° <b>U</b>		greatest brilliancy	4861 Mar 02 23:00 4861 Apr 08 16:05	27° <b>8</b> 33'07	-4.9m
asc. node	4858 Sep 04 15:30	19° <b>Ω</b> 43'09		retrograde	4861 Apr 19 01:23	29° <b>8</b> 35'00	-4.9111
asc. node	4858 Sep 13 03:09	0° <b>m</b> )		evening set	4861 May 05 21:21	24° <b>8</b> 02'15	
	4858 Oct 07 16:38	0∘ <b>ಹ</b>		inferior conj	4861 May 10 00:53	21° <b>8</b> 29'35	6°56'24
	4858 Oct 31 23:59	0° <b>M</b>		minimum elong	4861 May 10 11:12	21° <b>8</b> 13'29	
morning set	4858 Nov 02 13:23	1°M55'56		min. Earth dist.	4861 May 09 21:38	21° <b>8</b> 34'39	
Č	4858 Nov 25 03:02	0° <b>∡</b> ¹		morning rise	4861 May 15 01:24	18° <b>8</b> 27'26	
max. Earth dist.	4858 Dec 07 20:20	15° <b>₹</b> 52'29	1.71868 AU	direct	4861 May 30 23:47	13° <b>8</b> 31'46	
				greatest brilliancy	4861 Jun 09 15:13	15° <b>8</b> 15'19	-4.8m
superior conj	4858 Dec 10 12:51	19° <b>∡</b> 14′05	0°34'32	desc. node	4861 Jun 11 01:25	15° <b>8</b> 46'26	
minimum elong	4858 Dec 10 20:34	19° <b>∡</b> ³38′09	0°34'11		4861 Jul 03 12:28	$\Pi$ °0	
	4858 Dec 19 03:28	0°ප		morning max el	4861 Jul 19 03:52	14° <b>Ⅱ</b> 02'28	45°53'17
desc. node	4858 Dec 25 06:27	7° <b>る</b> 39'48			4861 Aug 04 00:15	0ංම	
	4859 Jan 12 02:18	0° <b>≈</b>			4861 Aug 31 12:34	$0$ $^{\circ}\Omega$	
evening rise	4859 Jan 19 14:21	9° <b>≈</b> 24'29			4861 Sep 26 13:59	0° <b>m</b>	
	4859 Feb 05 00:20	0° <b>∀</b>		asc. node	4861 Oct 02 03:29	6° m/32'51	
	4859 Feb 28 22:57	0°Υ •••			4861 Oct 21 19:02	0∘ <b>w</b>	
000 mc J-	4859 Mar 25 00:38	0° <b>8</b>			4861 Nov 15 10:25	0°M 0°. <b>7</b>	
asc. node	4859 Apr 17 08:20	28° <b>႘</b> 44'48			4861 Dec 09 16:54	0° <b>∡</b> ¹	
	4859 Apr 18 08:56 4859 May 13 04:20	0ಂ <b>ಲ</b> 0ಂⅡ		morning set	4862 Jan 02 18:04 4862 Jan 13 22:49	0°る 14°る01'46	
	7037 Way 13 04.20	وت ∪		morning set	7002 Jan 13 22.49	14 001 40	

desc. node	4862 Jan 21 18:12	23° <b>る</b> 49'30		minimum elong	4864 Jul 19 14:30	0° <b>Ω</b> 54'39	2020121
desc. node	4862 Jan 26 16:12	23 <b>⊘</b> 4930		min. Earth dist.	4864 Jul 19 10:39	1°Ω00'40	0.28756 AU
	4862 Feb 19 12:45	0 <b>≈</b>		min. Earm dist.	4864 Jul 21 01:21	1 8 €00 40 30°RS	0.28/30 AU
	4602 Feb 19 12.43	0 π		morning rise	4864 Jul 25 17:42	30 ജോ 27°911'56	
superior conj	4862 Feb 24 04:08	5° <b>¥</b> 50'17	1900!45	morning rise direct	4864 Aug 10 06:59	27 S11 30 22°S34'02	
minimum elong	4862 Feb 23 16:30	5° <b>X</b> 13'44		greatest brilliancy	4864 Aug 20 07:53	24° <b>©</b> 22'16	4.7m
max. Earth dist.	4862 Feb 24 22:34		1.71137 AU	greatest offinality	4864 Aug 31 17:40	24 <b>3</b> 22 10	-4. / 111
max. Earth dist.	4862 Mar 15 09:10	0°Υ	1./113/ AO	morning max el	4864 Sep 27 23:12	22° <b>Ω</b> 13'17	45044'50
evening rise	4862 Apr 06 00:45	27° <b>Y</b> 09'24		morning max ci	4864 Oct 05 20:51	0° m	43 44 30
evening rise	4862 Apr 08 07:16	0°8		asc. node	4864 Oct 29 15:17	25° m/20'52	
	4862 May 02 09:05	0°II		asc. node	4864 Nov 02 18:55	23 M/2032 0° <b>೧</b>	
asc. node	4862 May 14 20:12	15° <b>II</b> 25'37			4864 Nov 28 15:57	0° <b>M</b> ₊	
asc. node	4862 May 26 16:21	0°9			4864 Dec 23 13:26	0°×71	
	4862 Jun 20 06:46	0° <b>U</b>			4865 Jan 16 22:29	∘ੰਤ	
	4862 Jul 15 06:55	0° <b>m</b> )			4865 Feb 10 01:01	0° <b>≈</b>	
	4862 Aug 09 22:05	0∘ <del>ಹ</del> ∘ .**		desc. node	4865 Feb 18 06:09	10°≈15'53	
desc. node	4862 Sep 03 10:59	27° <b>♀</b> 35'23		desc. node	4865 Mar 06 00:22	0° <b>∀</b>	
dese. Hode	4862 Sep 05 16:03	0°M			4865 Mar 29 22:44	0° <b>Υ</b>	
evening max el	4862 Oct 02 13:45	27°ML43'02	45°55'27	morning set	4865 Mar 31 20:08	2° <b>Υ</b> 22'18	
evening max er	4862 Oct 04 23:26	0° <b>⊼</b> ¹	43 33 21	morning set	4865 Apr 22 21:54	0°8	
greatest brilliancy	4862 Nov 11 07:08	26° <b>х</b> 17'48	-4.8m		1003 ripi 22 21.3 i	ů <b>O</b>	
retrograde	4862 Nov 20 13:37	27°×752'03	1.0111	superior conj	4865 May 10 15:54	22° <b>8</b> 08'42	-1°06'54
evening set	4862 Dec 05 19:06	23°×724'36		minimum elong	4865 May 11 02:36		1°06'35
inferior conj	4862 Dec 11 09:09	20° <b>×</b> <sup>7</sup> 06'29	-3°30'38	max. Earth dist.	4865 May 14 12:15	26° <b>8</b> 56'01	1.72213 AU
minimum elong	4862 Dec 11 16:37	19° × 55'01		max. Earth dist.	4865 May 16 23:27	0°II	1.72213710
min. Earth dist.	4862 Dec 12 03:42		0.27238 AU		4865 Jun 10 04:15	0°©	
morning rise	4862 Dec 17 13:26	16°×727'40	0.27230 AC	asc. node	4865 Jun 11 07:58	1° <b>9</b> 25'35	
asc. node	4862 Dec 25 12:47	13°×707'46		evening rise	4865 Jun 18 10:17	10°911'09	
direct	4863 Jan 01 06:18	12° 🗷 12'25		evening rise	4865 Jul 04 12:36	0°Ω	
greatest brilliancy	4863 Jan 12 04:28	14°×726'49	-4 9m		4865 Jul 29 00:40	0° <b>m</b>	
greatest orimaney	4863 Feb 04 14:53	0°중	4.7111		4865 Aug 22 17:23	0∘ <del>ಹ</del>	
morning max el	4863 Feb 20 21:15	0 <b>3</b> 15° <b>3</b> 23'44	46°57'52		4865 Sep 16 16:46	0° <b>M</b>	
	4863 Mar 06 17:56	0°≈	.0 0,02	desc. node	4865 Sep 30 22:53	16°M55'11	
	4863 Apr 02 06:44	0° <b>)</b> €			4865 Oct 12 02:02	0° <b>∡</b> 7	
desc. node	4863 Apr 16 03:58	16° <b>₩</b> 18'07			4865 Nov 07 02:53	0° <b>ਰ</b>	
dese. node	4863 Apr 27 16:09	0°Υ			4865 Dec 04 11:21	0° <b>≈</b>	
	4863 May 22 14:20	0°8		evening max el	4865 Dec 14 08:18	10°≈07'24	46°53'11
	4863 Jun 16 07:57	0°II		<i>5</i>	4866 Jan 05 08:12	0° <b>)</b> €	
	4863 Jul 10 23:37	0ಂತ		asc. node	4866 Jan 22 00:45	10° <b>)</b> € 18'37	
	4863 Aug 04 13:35	$0^{\circ}\Omega$		greatest brilliancy	4866 Jan 23 20:16	11° <b>∺</b> 01′20	-4.9m
asc. node	4863 Aug 07 05:39	3° <b>Ω</b> 15'52		retrograde	4866 Feb 02 20:02	12° <b>)</b> 55'44	
morning set	4863 Aug 23 16:18	23° <b>Ω</b> 24'41		evening set	4866 Feb 18 16:33	7° <b>¥</b> 59'18	
C	4863 Aug 29 01:06	0° <b>m</b> )		inferior conj	4866 Feb 23 10:55	5° <b>)</b> 08′25	7°17'18
	4863 Sep 22 09:47	0∘ <del>ত</del>		minimum elong	4866 Feb 23 00:22	5° <b>)</b> 24'35	7°15'16
max. Earth dist.	4863 Sep 26 18:23	5° <b>£</b> 22'54	1.73137 AU	min. Earth dist.	4866 Feb 22 21:20	5° <b>¥</b> 29'13	0.26806 AU
	•			morning rise	4866 Feb 27 08:19	2° <b>)</b> 47'43	
superior conj	4863 Sep 29 03:10	8° <b>≏</b> 18'13	1°25'03	Č	4866 Mar 04 17:03	30° <b>R</b> ≈	
minimum elong	4863 Sep 29 01:37	8° <b>≏</b> 13′28		direct	4866 Mar 15 21:46	27°≈26′09	
-	4863 Oct 16 16:09	0°M₊		greatest brilliancy	4866 Mar 25 07:41	29° <b>≈</b> 06′52	-4.9m
evening rise	4863 Nov 05 01:57	24°ML02'46			4866 Mar 27 15:56	0° <b>)</b> €	
	4863 Nov 09 21:12	0°⊀		morning max el	4866 May 05 01:10	29° <b>)</b> 41′07	46°38'57
desc. node	4863 Nov 26 20:36	21° <b>₹</b> 03'19			4866 May 05 08:46	$0$ ° $\mathbf{\Upsilon}$	
	4863 Dec 04 01:40	8°0		desc. node	4866 May 13 15:41	8° <b>Ƴ</b> 27'01	
	4863 Dec 28 05:55	0° <b>≈</b>			4866 Jun 02 14:12	$8^{\circ}$	
	4864 Jan 21 10:49	0° <b>)</b> €			4866 Jun 28 22:41	$\Pi^{\circ}0$	
	4864 Feb 14 19:00	$0$ ° $\Upsilon$			4866 Jul 24 13:22	$0$ $\circ$ $\odot$	
	4864 Mar 10 12:00	$0^{\circ}$ 8			4866 Aug 18 17:58	$0^{\circ}\Omega$	
asc. node	4864 Mar 18 22:24	10° <b>8</b> 03'46		asc. node	4866 Sep 03 17:36	19° <b>Ω</b> 14'49	
	4864 Apr 05 00:07	$\Pi^{\circ}0$			4866 Sep 12 14:30	0° <b>m</b>	
	4864 May 02 06:55	0ංම			4866 Oct 07 03:43	0∘ <b>⊽</b>	
evening max el	4864 May 09 20:04	7° <b>5</b> 39'21	46°11'30	morning set	4866 Oct 31 05:34	29° <b>≏</b> 43'19	
	4864 Jun 04 21:03	$0^{\circ}\Omega$			4866 Oct 31 10:57	$0^{\circ}$ M	
greatest brilliancy	4864 Jun 17 08:00	6° <b>Ω</b> 46'42	-4.8m		4866 Nov 24 14:00	0°⊀	
retrograde	4864 Jun 28 08:54	9° <b>Ω</b> 00′33		max. Earth dist.	4866 Dec 05 10:57	13° <b>∡</b> ³33′52	1.71911 AU
desc. node	4864 Jul 08 13:15	6° <b>Ω</b> 56'45					
evening set	4864 Jul 13 11:35	4° <b>Ω</b> 35′04		superior conj	4866 Dec 08 02:24	16° <b>₹</b> 52'00	0°37'51
inferior conj	4864 Jul 19 20:11	0° <b>Ω</b> 45'43	-2°39'57	minimum elong	4866 Dec 08 10:38	17° <b>∡</b> 17'43	0°37'29

Second   S		4966 Dag 19 14-21	0°ರ		daga mada	4869 Jun 10 03:20	14° <b>8</b> 04'16	
cenuming ine         4807 in 11 30.28         6% 9% 10 10 10 10 10 10 10 10 10 10 10 10 10	JJ.	4866 Dec 18 14:31			desc. node			
Section   Section   17 a Color   Section   18 a Color	desc. node							45054110
Section 14   150   15					morning max el			45°54'19
ass. racele         4887 tab 22 10.20         0°P         see rede         488 open 20 10.24         0°P         certain colors         488 open 21 10.25         0°P         certain colors         488 open 21 10.25         0°P         certain colors         488 open 21 10.25         0°P         certain colors         488 open 20 10.05         0°P         certain colors         489 open 20 10.05         0°P         certain	evening rise					•		
Method   M						- C		
Meson							-	
4867 Ayr 17 20-54   0"E   4869 Are 19 20-54   1972   19		4867 Mar 24 12:13			asc. node	4869 Oct 01 05:24		
Month   Mont	asc. node	4867 Apr 16 10:18				4869 Oct 21 06:55		
evening max         4870 Jul 20 6074         1870 Jul 20 6034         1970 Jul 20 7034		4867 Apr 17 20:54	$\Pi$ $\circ 0$			4869 Nov 14 21:52	0° <b>M</b> .	
cenump and 1         4867 Jul 2011 100         0°Pg         4873 Jul 2012 100         11°S225 100         11°S25 100         11°S225 100		4867 May 12 17:03	$0$ $\circ$ $\odot$			4869 Dec 09 04:09	0° <b>∡</b> 7	
Section   487 Num   20 90.34   10° 10° 10° 10° 10° 10° 10° 10° 10° 10°		4867 Jun 07 08:07	$0^{\circ}\Omega$			4870 Jan 02 05:13	ರ∘ರ	
Mesc. node		4867 Jul 04 11:30	0° <b>m</b>		morning set	4870 Jan 11 10:20	11° <b>る</b> 32'35	
Second   487 Aug   06   01   01   01   02   03   03   03   03   03   03   03	evening max el	4867 Jul 20 09:34	16° Mp 07′26	45°32'37	desc. node	4870 Jan 20 20:18	23° <b>る</b> 21'19	
Second   487 Aug   06   01   01   01   02   03   03   03   03   03   03   03	C	4867 Aug 04 22:33	0∘ <b>ত</b>				0° <b>≈</b>	
	desc. node	•	0° <b>£</b> 53'43			4870 Feb 18 23:50	0° <b>¥</b>	
evening end   48/7 Sep 0 7 0.251   15 Δ5.711   superior conj   48/7 Sep 2 10.221   93/1676   1707/6   evening end   48/7 Sep 2 10.221   93/1676   1707/6   evening end   48/7 Sep 2 10.221   1705/4   1707/6   evening end   48/7 Sep 2 11.031   1704/7		•		-4 7m				
Pechanic   487 Sep 2 8 10.22   98.6334   maintame dong   4870 Feb 2 10.20   2°34972   1°0543   miniferior of   4867 Sep 2 8 13.05   7°4.64971   8°3479   max. Earth dist   4870 Feb 2 2 01.38   3°34520   1°1132 AU   1°113				,	superior coni	4870 Feb. 21 14:21	3°₩16'36	-1°07'16
Indication conj   4867 Sep 2 8 13.05   7°24.4°20   7°43.4°20   4870 Feb 22 01.38   3°45.2°06 1,71132 AU minimum clong   4867 Sep 2 8 20.32   7°43.4°22   0.2899 AU   evening rise   4870 Apr 0 7 18.24   0°6°0°   4870 Apr 0 7 18.24   4870 A	•	•						
minimater and this interest distant and the second proming in the dist distant and the second proming in the distant and the second proming in the seco	-	•		0024122	•			
min mind mind mind mind mind mind mind m		•			max. Earm dist.			1./1132 AU
moming rise   487 Oct   1   1939   5° 4413   3° 78   487 Okp   07   18.24   6° 8′ 1   1938   4867 Oct   2   1928   5° 92° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10	•	•						
direct         4867 Or 14 3238         30°R №         see. node         4870 May 01 2.016         0°T         14°T565           14°T56           14°T57		•		0.28994 AU	evening rise	•		
direct   4867 or 12 0 0.218   29°m 28°m 38°m 3	morning rise					•		
greatest brillianow         4870 Nor 2 S 09:21         0°-Ω		4867 Oct 14 23:28				4870 May 01 20:16		
greatest brillianuy         4867 Oct 30 22:03         1°±0.8°164         4.8m         4870 Jul 19 18:26         0°C II         4870 Jul 14 19:14         0°C III         0°C III         0°C III         4870 Jul 14 19:14         0°C III         0°C III         4870 Jul 14 19:14         0°C III         0°C III         0°C III         4870 Jul 14 19:14         0°C III         0	direct	4867 Oct 20 02:58	29° <b>m</b> 28'08		asc. node	4870 May 13 22:09	14° <b>Ⅱ</b> 56'56	
Asc. node		4867 Oct 25 09:21	0∘ <b>ত</b>			4870 May 26 03:41	$0$ $\circ$ $\odot$	
moming max el         4867 Dec °0 00.05         1°R 10109         4°21'22         desc. node         4870 Sep 02 12.58         26°26'64'3	greatest brilliancy	4867 Oct 30 22:03	1° <b>≏</b> 36'14	-4.8m		4870 Jun 19 18:26	$0^{\circ}\Omega$	
moming max ell         4867 Dec 09 0.05         1°R10'49         4°21'22         desc. node         4870 Sep 05 08.36         0°R	asc. node	4867 Nov 27 03:00	19° <b>≙</b> 56'47			4870 Jul 14 19:14	0° <b>m</b>	
Marker		4867 Dec 07 19:30	0°M			4870 Aug 09 11:45	0∘ <del>ত</del>	
4868 Jan 94 21:08   0°\$\frac{2}{2}	morning max el	4867 Dec 09 00:05	1° <b>M</b> .10'49	46°21'22	desc. node	•	26° <b>£</b> 56'43	
4868 Jan 3 0 15:26   0° ₹   c   c   c   c   c   c   c   c   c	S	4868 Jan 04 21:08	0° <b>∡¹</b>			•		
desc. node         4868 Feb 24 11:55         0° ≈ service of the ser					evening max el	•		45°53'34
desc. node					evening max er	•		15 5551
4868 Mar 19 22.25   0°\(\frac{\psi}{\psi} \) retrograde   4870 Nov 18 02.03   25°\(\frac{\psi}{\psi} 23035 \)   2°\(\frac{\psi}{\psi} 2468 Apr 13 04.25   0°\(\frac{\psi}{\psi} \) retrograde   4870 Dec 03 12.25   20°\(\frac{\psi}{\psi} 2428 - 35'122 \)   4868 May 37 04.13   0°\(\frac{\psi}{\psi} \)   14°\(\frac{\psi}{\psi} 3833 \)   14:51   0°\(\frac{\psi}{\psi} \)   morning set   4868 May 31 14:51   0°\(\frac{\psi}{\psi} \)   14°\(\frac{\psi}{\psi} 3833 \)   14°\(\psi 0760 \)   16°\(\psi 0760 \)   16°\(\psi 0760 \)   4870 Dec 09 06:40   17°\(\psi 3730 \)   3°4904   4868 May 24 22.08   0°\(\psi \)   16°\(\psi 0757 \)   asc. node   4870 Dec 15 01.38   14°\(\psi 0761 \)   16°\(\psi 27217 \)   asc. node   4870 Dec 15 01.38   14°\(\psi 0761 \)   16°\(\psi 27217 \)   18°\(\psi 0760 \)   18°\(\psi 0860 \)   18°\(\psi 0.062 \)   18°\(\psi 0.0	desc node				greatest brilliancy			-4.8m
March   Ma	desc. node							-4.0111
March   Ma					•			
Maring set   4868 May 31 14:51   0°					•			2051122
Moming set   4868 Jun   2   17:51   14° IS8'34   moming rise   4870 Dec 09 18:27   17° X 1359   0.27298 AU   4868 Jun   24   22:08   0°\$ moming rise   4870 Dec 24   14:51   10° X°21'17   16° AU   16° AU   18° AU   1		•						
Asc. node		•			•			
asc. node	morning set				min. Earth dist.			0.27298 AU
Superior conj   4868 Jul   20 05:03   1° Ω0846   0° 26′ 511   4871 Jan   09 20 1:04   12° 36′ 515   4.9 m     minimum elong   4868 Jul   20 05:03   1° Ω0846   0° 26′ 515   4871 Feb   04 22:08   0° 3° 3     minimum elong   4868 Jul   21 05:03   0° 26′ 515   4871 Feb   04 22:08   0° 3° 3     max. Earth dist.   4868 Jul   21 05:01   2° 20′ 0737   1.73383 AU   4871 Mar   06 12:22   0° ∞ 4     evening rise   4868 Aug   21 15:51   0° 10   15° 104/ 23   4871 Apr   01 21:36   0° 7° 4     evening rise   4868 Aug   22 11:19   15° 104/ 23   4871 Apr   01 21:36   0° 7° 4     4868 Sep   06 01:26   0° 20   4871 Apr   27 05:23   0° 7° 4     4868 Sep   30 12:07   0° 10   4871 Apr   27 05:23   0° 7° 4     4868 Sep   30 12:07   0° 10   4871 Apr   27 05:23   0° 10     4868 Sep   30 12:07   0° 10   4871 Apr   27 05:23   0° 10     4868 Sep   28 01:25   0° 20   4871 Apr   27 05:23   0° 10     4868 Sep   30 12:07   0° 10   4871 Apr   27 05:23   0° 10     4868 Sep   30 12:07   0° 10   4871 Apr   27 05:23   0° 10     4868 Sep   30 12:07   0° 10   4871 Apr   27 05:23   0° 10     4868 Sep   30 12:07   0° 10   4871 Apr   27 05:23   0° 10     4868 Sep   30 12:07   0° 10   4871 Apr   27 05:23   0° 10     4868 Sep   30 12:07   0° 10   4871 Apr   27 05:23   0° 10     4868 Sep   30 12:07   0° 10   4871 Apr   27 05:23   0° 10     4868 Sep   30 12:07   0° 10   4871 Apr   27 05:23   0° 10     4869 Feb   18 12:16   0° 2° 20   4871 Apr   27 05:23   0° 10     4869 Feb   18 12:16   0° 2° 20   4871 Apr   27 05:23   0° 10     4869 Feb   18 12:16   0° 2° 20   0° 20   4871 Apr   27 05:23   0° 20     4869 Feb   18 12:16   0° 2° 20   0° 20   4871 Apr   27 05:23   0° 20     4869 Feb   18 12:16   0° 20   0° 20   4871 Apr   27 05:23   0° 20     4869 Feb   18 12:16   0° 20			0ంత		morning rise	4870 Dec 15 01:38		
Superior conj   4868 Jul   20   05:03   1° Ω08'46   0°26'51   morning max el   4871 Feb   04   22:08   0°3   minimum elong   4868 Jul   19   23:35   0° Ω5'15'6   0°26'35   morning max el   4871 Feb   04   22:08   0°3   46°57'31   4871 Feb   04   22:08   0°3   4871 Feb   04   22:09   0°3   0°3   4871 Feb   04   22:09   0°3   0	asc. node					4870 Dec 24 14:51	10° <b>∡</b> "22′17	
Superior conj   4868 Jul 20 05:03   1°Ω08'46 0°26'51		4868 Jul 19 06:42	$0^{\circ}\Omega$		direct	4870 Dec 29 19:44	9° <b>√</b> 49'11	
minimum elong   minimum el					greatest brilliancy	4871 Jan 09 20:10	12° <b>∡</b> 05′15	-4.9m
Max. Earth dist.   4868 Jul 21 00:10   2°Ω07'37 1.73383 AU   4871 Mar 06 12:22   0°≈	superior conj	4868 Jul 20 05:03	1° <b>Ω</b> 08'46	0°26'51		4871 Feb 04 22:08	ರ∘ರ	
evening rise 4868 Aug 12 15:51 0°™ 4862 3 0°™ 4871 Apr 01 21:36 0°™ 4871 Apr 01 21:36 4868 Sep 06 01:26 0°№ 4871 Apr 01 21:36 15°™ 42'45 4868 Sep 06 01:26 0°№ 4871 Apr 01 21:36 5:55 15°™ 42'45 4868 Sep 06 01:26 0°№ 4871 Apr 01 21:36 0°™ 487	minimum elong	4868 Jul 19 23:35	0° <b>Ω</b> 51'56	0°26'35	morning max el	4871 Feb 18 10:18	12° <b>る</b> 57'38	46°57'31
evening rise	max. Earth dist.	4868 Jul 21 00:10	2° <b>Ω</b> 07'37	1.73383 AU		4871 Mar 06 12:22	0° <b>≈</b>	
evening rise		4868 Aug 12 15:51	0° m			4871 Apr 01 21:36	0° <b>₩</b>	
4868 Sep 06 01:26	evening rise	•			desc. node	*		
4868 Sep 30 12:07   0°M   48671 May 22 02:37   0°B   4868 Oct 25 00:55   0°\$\frac{1}{2}\$   4868 Oct 25 00:55   0°\$\frac{1}{2}\$   4868 Oct 28 10:43   4°\$\frac{1}{2}\$		•						
desc. node   4868 Oct 25 00:55   0°\$\frac{1}{2}\$   4871 Jun 15 19:37   0°\$\frac{1}{1}\$   4868 Oct 28 10:43   4°\$\frac{1}{2}\$\frac{1}{2		•						
desc. node   4868 Oct 28 10:43   4° x° 09'28   4871 Jul 10 10:50   0° 5   4871 Aug 04 00:29   0° Ω     4868 Nov 18 16:35   0° 5   4871 Aug 04 00:29   0° Ω     4868 Dec 13 12:16   0° ≈   asc. node   4871 Aug 06 07:46   2° Ω49'01     4869 Jan 07 15:51   0° ★   morning set   4871 Aug 21 09:59   21° Ω18'36     4869 Feb 02 15:03   0° ♥   4871 Aug 28 11:50   0° №     asc. node   4869 Feb 18 12:36   17° ∇'21'29   4871 Aug 28 11:50   0° №     evening max el   4869 Feb 25 00:36   24° ∇'05'34   47° 05'18   max. Earth dist.   4871 Sep 21 20:29   0° Φ     greatest brilliancy   4869 Apr 06 07:41   25° ⊗14'05   -4.9m   superior conj   4871 Sep 26 11:03   6° Φ12'11   1°24'42     retrograde   4869 Apr 16 16:13   27° ⊗15'01   minimum elong   4871 Sep 26 18:50   6° Φ05'20   1°24'43     evening set   4869 May 07 15:20   19° ⊗10'16   7°10'22   evening rise   4871 Nov 09 08:10   0° x		•				•		
4868 Nov 18 16:35   0°₹   4871 Aug 04 00:29   0°\$ (10	daga mada							
A868 Dec 13 12:16   0° ≈   asc. node   4871 Aug 06 07:46   2° Ω 49'01     A869 Jan 07 15:51   0° 升   morning set   4871 Aug 21 09:59   21° Ω 18'36     A869 Feb 02 15:03   0° Υ   4871 Aug 28 11:50   0° №     asc. node   4869 Feb 18 12:36   17° Υ 21'29   4871 Sep 21 20:29   0° Ω     evening max el   4869 Feb 25 00:36   24° Υ 05'34   47° 05'18   max. Earth dist.   4871 Sep 24 13:54   3° Ω 21'54   1.73172 AU     greatest brilliancy   4869 Apr 06 07:41   25° ℧ 14'05   -4.9m   superior conj   4871 Sep 26 21:03   6° Ω 12'11   1° 24'42     retrograde   4869 Apr 16 16:13   27° ℧ 15'01   minimum elong   4871 Sep 26 18:50   6° Ω 05'20   1° 24'43     evening set   4869 May 03 15:09   21° ℧ 38'12   minimum elong   4869 May 07 15:20   19° ℧ 10'16   7° 10'22   evening rise   4871 Nov 02 17:46   21° № 49'18     minimum elong   4869 May 07 11:44   19° ℧ 15'54   0.27796 AU   desc. node   4871 Nov 25 22:39   20° ☒ 35'12     morning rise   4869 May 28 14:10   11° ℧ 13'19   trip of the condition of the conditio	desc. node							
A869 Jan 07 15:51   0°					,			
asc. node 4869 Feb 18 12:36 17°°°V21'29 4871 Sep 21 20:29 0°° □ evening max el 4869 Feb 25 00:36 24°°Y05'34 47°05'18 max. Earth dist. 4871 Sep 21 20:29 0° □ greatest brilliancy 4869 Mar 02 23:22 0° ௧ evening set 4869 Apr 16 16:13 27° ௧15'01 minimum elong 4869 May 03 15:09 21° ௧38'12 evening set 4869 May 07 15:20 19° ௧10'16 7°10'22 evening rise 4871 Nov 02 17:46 21° № № minimum elong 4869 May 08 01:29 18° ௧54'26 7° 08'29 min. Earth dist. 4869 May 07 11:44 19° ௧15'15 10° ௧15'15'15 10° ௧15'15'15 10° ௧15'15'15 10° ௧15'15 10°								
asc. node 4869 Feb 18 12:36 17°Y21'29 4871 Sep 21 20:29 0° € evening max el 4869 Feb 25 00:36 24°Y05'34 47°05'18 max. Earth dist. 4871 Sep 24 13:54 3° €21'54 1.73172 AU 4869 Mar 02 23:22 0° 8  greatest brilliancy 4869 Apr 06 07:41 25° 814'05 -4.9m superior conj 4871 Sep 26 21:03 6° €12'11 1° 24'42 retrograde 4869 Apr 16 16:13 27° 815'01 minimum elong 4871 Sep 26 18:50 6° €05'20 1° 24'43 evening set 4869 May 03 15:09 21° 838'12 4871 Oct 16 02:57 0° 11 1 1° 24'42 inferior conj 4869 May 07 15:20 19° 810'16 7° 10'22 evening rise 4871 Nov 02 17:46 21° 11 49'18 minimum elong 4869 May 08 01:29 18° 854'26 7° 08'29 4871 Nov 09 08:10 0° ₹ min. Earth dist. 4869 May 12 12:10 16° 813'15 40.27796 AU desc. node 4871 Nov 25 22:39 20° ₹35'12 morning rise 4869 May 28 14:10 11° 813'19 4871 Dec 27 17:23 0° ≈					morning set	-		
evening max el 4869 Feb 25 00:36		4869 Feb 02 15:03				-		
greatest brilliancy 4869 Apr 06 07:41 25° 814'05 -4.9m superior conj 4871 Sep 26 21:03 6° 12'11 1°24'42 retrograde 4869 Apr 16 16:13 27° 815'01 minimum elong 4871 Sep 26 18:50 6° 15'20 1°24'43 evening set 4869 May 03 15:09 21° 838'12 4871 Oct 16 02:57 0° 1 1°24'42 inferior conj 4869 May 07 15:20 19° 810'16 7° 10'22 evening rise 4871 Nov 02 17:46 21° 11.49'18 minimum elong 4869 May 08 01:29 18° 854'26 7° 08'29 4871 Nov 09 08:10 0° ₹ 18.71 Nov 09 08:10 0° ₹ 1	asc. node	4869 Feb 18 12:36				4871 Sep 21 20:29	0∘ <b>⊽</b>	
greatest brilliancy 4869 Apr 06 07:41 25°814'05 -4.9m superior conj 4871 Sep 26 21:03 6°£12'11 1°24'42 retrograde 4869 Apr 16 16:13 27°815'01 minimum elong 4871 Sep 26 18:50 6°£05'20 1°24'43 evening set 4869 May 03 15:09 21°838'12 4871 Oct 16 02:57 0°	evening max el	4869 Feb 25 00:36		47°05'18	max. Earth dist.	4871 Sep 24 13:54	3° <b>≙</b> 21'54	1.73172 AU
retrograde 4869 Apr 16 16:13 27°815'01 minimum elong 4871 Sep 26 18:50 6°£05'20 1°24'43 evening set 4869 May 03 15:09 21°838'12 4871 Oct 16 02:57 0°™ inferior conj 4869 May 07 15:20 19°810'16 7°10'22 evening rise 4871 Nov 02 17:46 21°™ 49'18 minimum elong 4869 May 08 01:29 18°854'26 7°08'29 4871 Nov 09 08:10 0°₹ min. Earth dist. 4869 May 07 11:44 19°815'54 0.27796 AU desc. node 4871 Nov 25 22:39 20°₹35'12 morning rise 4869 May 12 12:10 16°813'15 4871 Dec 03 12:51 0°₹ 4871 Dec 27 17:23 0°≈		4869 Mar 02 23:22	$9^{\circ}$ 8					
retrograde 4869 Apr 16 16:13 27°815'01 minimum elong 4871 Sep 26 18:50 6°£05'20 1°24'43 evening set 4869 May 03 15:09 21°838'12 4871 Oct 16 02:57 0°™ inferior conj 4869 May 07 15:20 19°810'16 7°10'22 evening rise 4871 Nov 02 17:46 21°™ 49'18 minimum elong 4869 May 08 01:29 18°854'26 7°08'29 4871 Nov 09 08:10 0°₹ min. Earth dist. 4869 May 07 11:44 19°815'54 0.27796 AU desc. node 4871 Nov 25 22:39 20°₹35'12 morning rise 4869 May 12 12:10 16°813'15 4871 Dec 03 12:51 0°₹ 4871 Dec 27 17:23 0°≈	greatest brilliancy	4869 Apr 06 07:41	25° <b>8</b> 14'05	-4.9m	superior conj	4871 Sep 26 21:03	6° <b>≙</b> 12'11	1°24'42
evening set 4869 May 03 15:09 21°838'12 4871 Oct 16 02:57 0°M inferior conj 4869 May 07 15:20 19°810'16 7°10'22 evening rise 4871 Nov 02 17:46 21°M 49'18 minimum elong 4869 May 08 01:29 18°854'26 7°08'29 4871 Nov 09 08:10 0° ₹ min. Earth dist. 4869 May 07 11:44 19°815'54 0.27796 AU desc. node 4871 Nov 25 22:39 20° ₹ 35'12 morning rise 4869 May 12 12:10 16°813'15 4871 Dec 03 12:51 0° ₹ direct 4869 May 28 14:10 11°813'19 4871 Dec 27 17:23 0° ≈	retrograde	_	27° <b>8</b> 15'01		minimum elong	4871 Sep 26 18:50	6° <b>≏</b> 05'20	1°24'43
inferior conj 4869 May 07 15:20 19°810'16 7°10'22 evening rise 4871 Nov 02 17:46 21°1\(\mathbb{R}\)49'18 minimum elong 4869 May 08 01:29 18°854'26 7°08'29 4871 Nov 09 08:10 0°\$\mathbb{A}\] min. Earth dist. 4869 May 07 11:44 19°\$\mathbb{B}\]15'54 0.27796 AU desc. node 4871 Nov 25 22:39 20°\$\mathbb{A}\]35'12 morning rise 4869 May 12 12:10 16°\$\mathbb{B}\]13'15 4871 Dec 03 12:51 0°\$\mathbb{B}\] direct 4869 May 28 14:10 11°\$\mathbb{B}\]13'19 4871 Dec 27 17:23 0°\$\$\infty\$	•				3	•		
minimum elong 4869 May 08 01:29 18°S54'26 7°08'29 4871 Nov 09 08:10 0° ₹ min. Earth dist. 4869 May 07 11:44 19°S15'54 0.27796 AU desc. node 4871 Nov 25 22:39 20° ₹35'12 morning rise 4869 May 12 12:10 16°S13'15 4871 Dec 03 12:51 0°S direct 4869 May 28 14:10 11°S13'19 4871 Dec 27 17:23 0°≈	•	•		7°10'22	evening rise			
min. Earth dist. 4869 May 07 11:44 19°8 15'54 0.27796 AU desc. node 4871 Nov 25 22:39 20° ₹35'12 morning rise 4869 May 12 12:10 16°8 13'15 4871 Dec 03 12:51 0°8 direct 4869 May 28 14:10 11°8 13'19 4871 Dec 27 17:23 0°≈		•			<b>5</b> -			
morning rise 4869 May 12 12:10 16°813'15 4871 Dec 03 12:51 0°8 direct 4869 May 28 14:10 11°813'19 4871 Dec 27 17:23 0°≈	•				desc. node			
direct 4869 May 28 14:10 11°♂13'19 4871 Dec 27 17:23 0°≈		•						
•		•						
greatest offinancy 4007 Juli 07 04.00 12 <b>O</b> 3341 -4.0III 48/2 Jüli 20 22:39 0°π				1 8m				
	greatest brilliancy	+007 Jun 07 04:08	12 033'41	-4.0III		+0/2 Jan 20 22:39	υπ	

1877   1872								
according max         4872 Apr/ 415 50 19         4972 Apr/ 415 50 19		4872 Feb 14 07:23	$0$ ° $\mathbf{\Upsilon}$			4874 Jul 24 01:36	0	
centage         4872 App (20 151)         0°FI         4875 App (20 152)         0°FI		4872 Mar 10 01:16	$9^{\circ}$ 8			4874 Aug 18 05:28	$0 {\circ} \Omega$	
concing mase of 1872 May 71 0.07 0.07 2.07 0.070 2.07 0.070	asc. node	4872 Mar 18 00:19	9° <b>8</b> 28'49		asc. node	4874 Sep 02 19:30	18° <b>Ω</b> 46'48	
enumented         4872 May 07 10 27         segrated 1672 may 07 10 27         6922 may 15 00 18         official segrated 1872 may 15 00 18         4752 may 16 00 19 may 17 12 34         17 12 34         17 12 34         17 12 34         17 12 34         17 12 34         17 12 34         17 12 34         17 12 34         17 12 34         17 12 34         17 12 34         17 12 34         18 12 32 32 32         18 12 32 32 32         18 12 32 32 32         18 12 32 32 32         18 12 32 32 32         18 12 32 32 32         18 12 32 32 32 32         18 12 32 32 32 32 32         18 12 32 32 32 32 32 32 32 32 32 32 32 32 32		4872 Apr 04 15:10	$\Pi^{\circ}0$			4874 Sep 12 01:32	0° <b>m</b> )	
1971   1972		4872 May 02 02:39	0°ಲಾ			4874 Oct 06 14:30	0∘ <b>⊽</b>	
1872   1872	evening max el	4872 May 07 10:27	5° <b>©</b> 22'10	46°13'35	morning set	4874 Oct 28 22:07	27° <b>₽</b> 32'52	
greatest printage         4872 lu 15 0.013         47,005         4874 bee 0.00         17,917 by	S	4872 Jun 05 22:29			Č	4874 Oct 30 21:36	0°M.	
rintegration         4872 Jul of 152         6°/£3006         max Farth dist         4872 Due 01 152         4°/£3007           cheaning see         4872 Jul 11 0.030         2°/£2503         min Farth dist         4872 Jul 11 0.030         2°/£2503         min Farth dist         4872 Jul 11 0.030         2°/£2503         min Farth dist         4872 Jul 12 0.030         28°/£2504         0.28°/£2504         desc. node         4872 Due 10 0.000         48°/£2502         0.000         18°/£2502         0.000         18°/£2502         0.000         18°/£2502         0.000	greatest brilliancy			-4 8m				
Minimar   Mini				1.0111	may Farth dist			1 71954 AII
Persistent   1972   11   10   10   10   10   10   10   1	C				max. Larm dist.	40/4 DCC 03 00.43	11 × 13 +0	1./1/34 AU
1						4074 D 05 16-22	1.49.722122	0941102
min Endissis         4872 Ind. 17 0.259         8878-994 0.2875 AU         4872 AU         17 0.713         8878-994 0.2875 AU         4870 AU         10 0.00         0°C           minimum clong         4872 Jul. 17 07.13         2878-34318         21909         cenning         4875 Jul. 10 0.00         0°C           morning         4872 Jul. 27 13.51         2978-3222         cenning         4875 Jul. 10 0.20         0°C           4872 Aug. 17 23.55         2978-1722         4778         4875 Feb. 27 12:20         0°PC           4872 Aug. 17 23.55         2978-1722         4.77         4875 May 2.20         0°C           887 200 6 18 10         0°10         0°10         4875 May 1.51 12:6         2784-170           887 200 6 18 11         0°10         0°10         4875 May 1.51 12:6         278-1470           887 200 6 18 12         0°10         0°10         4875 May 1.50 6.50         0°2           487 200 6 18 12         0°10         0°10         4875 May 1.50 6.50         0°2           487 200 6 18 12         0°10         0°2         0°2         4875 May 1.50 6.50         0°10           487 200 6 18 12         0°10         0°2         0°2         4875 May 1.50 6.50         0°10         1875 May 1.50 6.50         0°10	evening set							
inferione of minimum elong         4872 Jul 1 70 1.01         28% 78.92         2.907.90         desc. node         4875 Jul 1 0.00         6°E4424 1.00					minimum elong			0°40'41
minimationsloom         4872 Jul 2 70-713         28°24318 2 1909         evening rise         4875 Jul 1 354         49°8212 2 1000         69°8212 2 1000         69°8212 2 1000         69°8212 2 1000         69°8212 2 1000         69°8212 2 1000         69°8212 2 1000         69°8212 2 1000         69°8212 2 1000         69°8212 2 1000         69°8212 2 1000         69°8212 2 1000         69°8212 2 1000         69°8212 2 1000         69°8212 2 1000         69°8212 2 1000         69°8212 2 1000         69°82 2 10000         69°82 2 10000	min. Earth dist.	4872 Jul 17 02:59	28° <b>©</b> 49'54	0.28725 AU		4874 Dec 18 01:16		
morning for direct         4872 Aug 07 21.01         4472 340 07 21.02         2476 392 22.05         4787 340 07 22.06         4787 240 07 22.06         2470 22.02         0 "P"           greatest brilliancy         4872 Aug 07 23.56         22°201252         4.7m         4875 Feb 07 27 21.20         0 "P"	inferior conj	4872 Jul 17 12:16	28° <b>©</b> 35'22	-2°20'37	desc. node	4874 Dec 23 10:34	6° <b>る</b> 44'24	
direct         4872 Aug 17 2.216         20°821756         20°821756         22°821752         4875 Feb 27 21.29         0°P           morning mate         4872 Sep 11 6.56         22°821752         47°M         4875 May 12 22.37         0°P           morning mate         4872 Sep 21 1448         20°802738         48°423         asc. node         4875 Aug 12 02.32         0°E           asc. node         4875 Aug 12 02.32         0°E         4875 Aug 17 13.24         0°E         4875 Aug 17 08.42         0°E           4872 Ave 28 04.99         0°B         4875 Aug 18 06.2248         0°G         4875 Aug 18 06.2248         0°G           4872 Ave 28 04.99         0°B         4875 Aug 18 10.0258         0°G         4875 Aug 18 10.0258         0°G           4873 Feb 9 12.21         0°B         evening max el         4875 Aug 18 10.045         0°B         4875 Aug 18 10.0458         49°8170           desc. node         4873 Feb 19 12.21         0°B         evening max el         4875 Aug 18 10.045         47°8170         4875 Aug 18 10.045         47	minimum elong	4872 Jul 17 07:13	28°5643'18	2°19'09		4875 Jan 11 00:20	0° <b>≈</b>	
greatest brillianey         4872 Sep 0   16.56         22°B1752         4.77         4875 Mer 2 2 3373         0°B           morning max el         4872 Sep 2 1 1448         20°B0238         48*423         asc. node         4875 Mer 2 3337         0°B           asc. node         4872 Oct 0 5 1606         0°B         4872 Mer 2 18         20°B         4875 Mer 1 7 0 842         0°B           asc. node         4872 Nov 0 2 09.32         0°B         4875 Mer 2 18         0.650         0°B           4872 Nov 2 0 09.32         0°B         4875 Mer 0 10         0.600         0°B         4875 Mer 0 10         0.600         0°B           4873 Mer 1 0 1015         0°B         0°B         4875 Mer 0 10         1875 Mer 0 10 <td>morning rise</td> <td>4872 Jul 23 11:34</td> <td>24°<b>©</b>59'22</td> <td></td> <td>evening rise</td> <td>4875 Jan 14 13:54</td> <td>4°<b>≈</b>28'12</td> <td></td>	morning rise	4872 Jul 23 11:34	24° <b>©</b> 59'22		evening rise	4875 Jan 14 13:54	4° <b>≈</b> 28'12	
moming max labs         4872 Sep 0 1 16-56         O'L         sec. node         4875 Apr 1 7 12-16         27' BAT 1           asc. node         4872 Oct 12 17-18         20' \$0'20'28         45'44'23         asc. node         4875 Apr 1 7 12-16         27' BAT 2           asc. node         4872 Oct 12 17-18         24' \$1'44'25         4875 Apr 1 7 10-842         0'L         1           asc. node         4872 Nov 2 8 0-490         0'PL         4875 Apr 1 0 60 50'9         0'PL         4875 Apr 1 0 60 50'9         0'PL           desc. node         4873 Lab 1 61 0.05         0'PL         evening max e         4875 Aug 0 50 315         29' \$1'\$ 53'00           desc. node         4873 Feb 10 81.1         0'PL         evening max e         4875 Aug 0 50 315         29' \$1'\$ 53'00           desc. node         4873 Feb 10 81.1         0'PL         evening set         4875 Aug 0 50'31         3' \$4'72'5           desc. node         4873 Mar 0 50'51         0'PL         evening set         4875 Aug 0 50'31         3' \$4'72'5           asc. node         4873 Mar 2 0 0653         0'PL 50'54'51'6         evening set         4875 Sep 2 6 05:14         5' \$45'50'         4875 Sep 2 6 05:14         5' \$45'50'         4875 Sep 2 6 05:14         5' \$45'50'         4875 Sep 2 6 02:17         5' \$46'01'         4875 Sep 2 6	direct	4872 Aug 07 22:16	20°523'56			4875 Feb 03 22:36	0° <b>∀</b>	
moming max labs         4872 Sep 0 1 16-56         O'L         sec. node         4875 Apr 1 7 12-16         27' BAT 1           asc. node         4872 Oct 12 17-18         20' \$0'20'28         45'44'23         asc. node         4875 Apr 1 7 12-16         27' BAT 2           asc. node         4872 Oct 12 17-18         24' \$1'44'25         4875 Apr 1 7 10-842         0'L         1           asc. node         4872 Nov 2 8 0-490         0'PL         4875 Apr 1 0 60 50'9         0'PL         4875 Apr 1 0 60 50'9         0'PL           desc. node         4873 Lab 1 61 0.05         0'PL         evening max e         4875 Aug 0 50 315         29' \$1'\$ 53'00           desc. node         4873 Feb 10 81.1         0'PL         evening max e         4875 Aug 0 50 315         29' \$1'\$ 53'00           desc. node         4873 Feb 10 81.1         0'PL         evening set         4875 Aug 0 50'31         3' \$4'72'5           desc. node         4873 Mar 0 50'51         0'PL         evening set         4875 Aug 0 50'31         3' \$4'72'5           asc. node         4873 Mar 2 0 0653         0'PL 50'54'51'6         evening set         4875 Sep 2 6 05:14         5' \$45'50'         4875 Sep 2 6 05:14         5' \$45'50'         4875 Sep 2 6 05:14         5' \$45'50'         4875 Sep 2 6 02:17         5' \$46'01'         4875 Sep 2 6	greatest brilliancy	4872 Aug 17 23:56	22°912'52	-4 7m		4875 Feb. 27, 21:29		
moming max ell         4872 No. 12 5 1448         20°200.78         48°42 S         esc. node         4875 Apr 17 0.842         0°1         1           asc. node         4872 Nov 0.0 09.32         0°2         1         4875 Nov 0.0 09.32         0°3         1         0°3         1         4875 Nov 0.0 09.32         0°3         1         0°3         1         0°3         1         0°3	8	•		.,,				
asc. node         4872 Oct. 28 17.18         24°8425	morning may al	•		45°44'23	asa node		_	
asc. node         4872 Oct 28 1718         24"94425         4875 Jul 26 2058         0°G2         ************************************	morning max ci	•		43 44 23	asc. nouc	•		
Part								
4872 Nov 28 04-94   0°H.   evening max el   4875 Jul 80 04-95   13°m5778   45°33'00   12°L   4873 Fab 09 12°L   0°Ps   68°L node   4875 Aug 16 1015   2°H5102   10°L   4875 Aug 16 1015   2°H5104   4.7m   4.7	asc. node					•		
1873   1873		4872 Nov 02 09:32				4875 Jun 06 22:08		
desc. node		4872 Nov 28 04:49	0°M₊			4875 Jul 04 05:09	0° <b>m</b> )	
May 1		4872 Dec 23 01:28	0° <b>∡</b> ¹		evening max el	4875 Jul 18 01:45	13° <b>m</b> 57'58	45°33'00
desc. node         4873 Feb. 17 08:11         9°8470   1 mg         retrograde         4875 Aug 25 12:36         11°6440         47m           morning set         4873 Mar 05 11:32         0°94         certification         4875 Sep 26 16:31         7°24725         1876 Geg         3°24725         1876 Geg         1873 Mar 28 09:44         0°P4         certification         4875 Sep 26 05:05         5°34350         8°31560         4875 Sep 26 05:05         5°34350         8°31560         1876 Geg         4875 Sep 26 05:05         5°54350         8°31560         1876 Geg         1876 Geg         1875 Sep 26 05:05         5°54350         8°31560         1876 Geg         1876 Geg         1875 Sep 26 05:05         5°54350         8°31560         1875 Geg         06:01         5°54350         8°31560         1873 Geg         1873 Geg         06:01         3°34344         1873 Geg         20:11 Sep 33:33343         1873 Geg         1873 Geg         06:02         29°18701         3°34344         1873 Geg         1873 Geg         1873 Geg         06:02         29°18701         4873 Geg         1873 Geg         06:02         4873 Geg		4873 Jan 16 10:05	5°0		desc. node	4875 Aug 05 03:15	29° <b>m</b> 51'02	
desc. node         4873 Feb 17 08.11         9°8470   10 08.70   11.20         0°8470   10 08.70   12.20         1820   12.64   10 08.70   12.20         1820   12.64   10 08.70   12.20         1820   12.64   12.64   12.20         1820   12.64   12.		4873 Feb 09 12:21	0° <b>≈</b>			4875 Aug 05 07:52	0∘ <b>ত</b>	
Mary Name	desc. node	4873 Feb 17 08:11	9° <b>≈</b> 47'01		greatest brilliancy	•	11° <b>≙</b> 54'40	-4.7m
morning set   4873 Mar ≥ 9 06.53   29°H5106   evening set   4875 Sep 22 16.31   7°£46730   F31566   4873 Mar ≥ 9 08'46   0°B'   minimum elong   4875 Sep 26 05.05   5°£4556   5°£4516   8°3150   1876 Mark   1875 Sep 26 11.14   5°£4614   8°3150   1876 Mark   1875 Sep 26 11.14   5°£4614   8°3150   1876 Mark   1875 Sep 26 11.14   5°£4614   1875 Sep 26 11.14   1875 Sep 27 11.14						•		
4873 Mar 29 09:44 0°P   1978   197	morning set				•	•		
supprior conj         4873 Apr 22 08:46         0°B         minimum elong         4875 Sep 2 6 10:14         5°Δ40'14         8°31'50         20918 AU           supprior conj         4873 May 08 05:10         19°B46'54         -1°09'13         moming at 4875 Sep 2 6 10:14         5°Δ20'12         20'2018 AU           minimum elong         4873 May 12         00:20         24°B30'44         1.72161 AU         direct         4875 Oct 26 02:49         20°B0'0         -1°08'55         4875 Oct 26 02:49         30°R0         -1°08'0         -1°08'55         4875 Oct 26 02:49         30°R0         -1°08'0         -1°08'0         4875 Oct 26 02:49         20°R0         -1°08'0         -1°08'0         4875 Oct 36 02:49         20°R0         -1°08'0         -1°08'0         4875 Oct 36 02:49         20°R0         -1°08'0         -1°08'0         4875 Oct 36 02:49         20°R0         -1°09'0         -1°08'0         4875 Oct 36 02:49         20°R0         -1°09'0         -1°08'0         4875 Oct 36 02:49         20°R0         -1°09'0         -1°08'0         4875 Oct 36 02:49         20°R0         4879 Oct 30 00:56         9°0         4879 Oct 30 00:56	morning set				•	•		0021156
superior conj superior conj minimum el at 873 May 08 05:10 superior conj minimum el at 873 May 08 15:44 20°81950 1°0855  max. Earth dist. 4873 May 16 10:13 0°11 4873 May 16 10:13 0°12 4873 May 16 10:13 0°12 4873 May 16 10:13 0°12 4873 May 16 10:10 0°25 asc. node 4873 May 16 10:04 4873 May 16 10:04 4873 May 16 10:04 4873 May 16 10:04 0°2585812 asc. node 4873 May 16 10:04 4873 May 16 10:					·	•		
superior conj         4873 May 08 05:10         19°84654         1°09°13         moming rise         4875 Cer         29'15199         3°a3340         1°08°55         4875 Cer         4875 Cer         00'80%         00'80%           max. Earth dist.         4873 May 16 10:13         0°II         1°08°55         1876 Cer         4875 Cer         19:36         2°70 N80°         1           asc. node         4873 Jun 10 10:10         0°©58°58         2         asc. node         4875 Dec 06 14:57         28°24'55         46°1945           evening rise         4873 Jun 10 0 23:27         0°Q         0°E58'82         morning max el         4875 Dec 06 14:57         28°24'85         46°1945           4873 Jun 10 0 23:27         0°Q         0°E58'82         morning max el         4875 Dec 06 14:57         28°24'85'5         46°1945           4873 Jun 10 0 23:27         0°Q         0°E58'82         morning max el         4876 Jun 10 41:238         0°Z         4870 Jun 10 41:238         0°Z		48/3 Apr 22 08:46	0.0		•	•		
minimum elong max. Earth dist. 4873 May 12 00.20 24°850′4 1.72161 AU direct 4875 Oct 16 02:49 30°R max. Earth dist. 4873 May 12 00:20 24°830′44 1.72161 AU direct 4875 Oct 17 19:36 27°m Pat 17 19:40 4875 Oct 30 0:56 0°Δ 4						•		0.29018 AU
max. Earth dist.         4873 May 12 00:20 0:20 0:20 0:20 0:20 0:20 0:20	superior conj	4873 May 08 05:10			morning rise	4875 Sep 29 11:59	3° <b>ჲ</b> 33'40	
A873 May 16 10:13   0°H   10:14   10:15   1	minimum elong	4873 May 08 15:44	20° <b>8</b> 19'50	1°08'55		4875 Oct 06 02:49	30° <b>₽, M</b> )	
asc, node         4873 Jun 10 10:04         0°S58'S         asc, node         4875 Nov 26 05:04         10°A0033         40°19'A5083           evening rise         4873 Jun 10 10:04         0°S58'S3         morning maxel         4875 Nov 26 05:04         10°A0033         40°19'45           4873 Jul 03 23:27         0°S68'32         morning maxel         4875 Doc 07 17:02         0°M         4876 Jul 04 12:38         0°X         4876 Jul 04:48         0°X         0°X         0°X         0°X         0°X         0°X         0°X         0°X	max. Earth dist.	4873 May 12 00:20	24° <b>8</b> 30'44	1.72161 AU	direct	4875 Oct 17 19:36	27° <b>m</b> 18'01	
asc. node         4873 Jun 10 10.04         0°Φ5850         asc. node         4875 Nov 26 05.04         19°Φ0033         19°Φ0034           evening rise         4873 Jun 16 02.03         7°Φ58832         morning max el         4875 Dec 06 14:57         28°Φ5455         46°1945           4873 Jul 28 11:42         0°Φ         4873 Jul 28 11:42         0°Φ         4876 Jul 475 Dec 07 17:02         0°T           4873 Aug 2 04:47         0°Φ         4876 Jul 4876 Jul 41:238         0°Z         4876 Jul 41:238         0°Z           desc. node         4873 Sep 16 04:49         0°M         4876 Mar 19 10:09         0°B         4878 Jul 4876 Mar 19 10:09         0°B           desc. node         4873 Nov 16 18:12         0°B         4876 Mar 19 10:09         0°P         4878 Jul 4876 Mar 19 10:09         0°P         4876 Mar 19 10:09		4873 May 16 10:13	$\Pi^{\circ}0$		greatest brilliancy	4875 Oct 28 12:42	29° <b>m</b> 24'04	-4.8m
asc. node         4873 Jun 10 10.04         0°Φ5850         asc. node         4875 Nov 26 05.04         19°Φ0033         Horizon of the properties of		4873 Jun 09 15:01	0°ಅ			4875 Oct 30 00:56	0∘ <b>ত</b>	
evening rise         4873 Jul 16 02:03         7°Φ5832         morning max el         4875 Dec 0f 14:57         28°Φ5455         46°1945           4873 Jul 28 11:42         0°Ω         4875 Dec 07 17:02         0°IL         4876 Jul 08 23:27         0°IL         4876 Jul 08 23:28         0°Z         0°IL         4876 Jul 08 14:28         0°Z         0°IL         4876 Jul 08 14:28         0°Z         0°Z </td <td>asc. node</td> <td>4873 Jun 10 10:04</td> <td>0°\$58'50</td> <td></td> <td>asc. node</td> <td></td> <td>19°<b>Ω</b>00'33</td> <td></td>	asc. node	4873 Jun 10 10:04	0°\$58'50		asc. node		19° <b>Ω</b> 00'33	
4873 Jul   28   142   20 °Ph   4875 Jul   28   142   20 °Ph   4876 Jul   28   142   20 °Ph   4876 Jul   28   142   20 °Ph   4876 Jul   28   20 °Ph   4876 Jul   29   20 °Ph   4876 Jul   20								46°19'45
4873 Jul 28 11:42   0° to 10° to	e vennig rise				morning max cr			10 17 15
4873 Aug 22 04:47   0°Φ   4876 Fab 30 00:49   0°δ   4876 Fab 24 00:16   0°∞   0°%   4876 Fab 24 00:16   0°∞   0°%   4876 Fab 24 00:16   0°°   0°°   0°%   4876 Fab 24 00:16   0°°   0								
desc. node         4873 Sep 16 04:49 0°M.         0°M.         desc. node         4876 Feb 24 00:16 0:58 0°M.         0°∞         16°M.23'43 1.00 0°M.         desc. node         4876 Mar 16 19:58 0°M.         26°∞48'07 1.00 0°M.         16°M.23'43 1.00 0°M.         4873 Oct 11 15:13 0°√         0°√         4876 Mar 19 10:09 0°M.         0°M.         10°M.			-					
desc. node         4873 Sep 30 00:50   16°ML23'43   0°x²         desc. node         4876 Mar 16 19:58   26°≈48'07   0°θ		•						
4873 Nov   06   181   15:13   0° \$   4876 Mar   19   10:09   0° \$   4876 Mar   19   10:09   0° \$   4873 Nov   06   18:12   0° \$   4873 Nov   06   18:12   0° \$   4876 Mar   19   10:09   0° \$   4873 Nov   06   18:12   0° \$   4873 Nov   06   18:12   12:23   7° \$   4875 Nov   06   20:15   0° \$   6° \$   4876 Mar   07   09:44   12° 13° 46° 51° 27   4876 Mar   07   09:44   12° 13° 46° 51° 27   4876 Mar   07   09:44   12° 13′ 46° 26° 20° 20° 20° 20° 20° 20° 20° 20° 20° 20		•						
4873 Nov 06 18:12   0°δ   4873 Dec 04 07:33   0°∞   4876 May 06 20:15   0°δ   6870   12 12:23   7°∞45/22   46°51'27   4876 May 31 01:39   0°∏   4876 May 31 01:39   0°∏   4874 Jan 106 03:18   0°β   4874 Jan 109:15   10°β 2735   49m   asc. node   4876 Jul 107 21:53   16°Φ 41'46   4876 Jul 107 21:53   16°Φ 41'46   4876 Jul 107 21:53	desc. node	•			desc. node			
evening max el 4873 Dec 04 07:33 0°≈ 46'51'27 4876 May 06 20:15 0°∀ 90' 1 1 22:23 7°≈45'22 46'51'27 4876 May 31 01:39 0° 1 1 22:23 7°≈45'22 46'51'27 4876 May 31 01:39 0° 1 1 22:23 7°≈45'22 46'51'27 4876 May 31 01:39 0° 1 1 22' 1 4876 Jun 10 09:44 12° 1 146'26 asc. node 4874 Jun 10 09:44 12° 1 146'26 asc. node 4874 Jun 10 09:44 12° 1 146'26 asc. node 4874 Jun 10 09:44 12° 1 146'26 asc. node 4874 Jun 10 09:44 12° 1 146'26 asc. node 4876 Jun 10 09:44 12° 1 146'26 asc. node 4876 Jun 10 09:44 12° 1 146'26 asc. node 4876 Jun 10 09:44 12° 1 146'26 asc. node 4876 Jun 10 09:44 12° 1 146'26 asc. node 4876 Jun 10 09:44 12° 1 146'26 asc. node 4876 Jun 10 09:44 146' 12° 1 146'26 asc. node 4876 Jun 10 09:44 12° 1 146'26 asc. node 4876 Jun 10 09:44 146' 12° 1 146'26 asc. node 4876 Jun 10 09:44 146' 12° 1 146'26 asc. node 4876 Jun 10 09:44 146' 12° 1 146'26 asc. node 4876 Jun 10 09:44 146' 12° 1 146' 12°		4873 Oct 11 15:13	0° <b>√</b>			4876 Mar 19 10:09		
evening max el         4873 Dec 11 22:23         7°≈45'22         46°51'27         morning set         4876 May 31 01:39         0°Π         12°Π46'26           asc. node         4874 Jan 21 02:49         8°½27'25		4873 Nov 06 18:12	o°ප			4876 Apr 12 15:45	$0$ ° $\Upsilon$	
March   Mar		4873 Dec 04 07:33	0° <b>≈</b>			4876 May 06 20:15	$0^{\circ}$ 8	
March   Mar	evening max el	4873 Dec 11 22:23	7° <b>≈</b> 45'22	46°51'27		4876 May 31 01:39	$\Pi$ $\circ$ 0	
asc. node		4874 Jan 06 03:18	0° <b>∀</b>		morning set	4876 Jun 10 09:44	12° <b>Ⅱ</b> 46′26	
greatest brilliancy	asc. node	4874 Jan 21 02:49			Č	4876 Jun 24 08:45		
retrograde 4874 Jan 31 09:15 10°\( 27'35 \) evening set 4874 Feb 16 00:58 5°\( 36'59 \) inferior conj 4874 Feb 20 23:17 2°\( 44'036 \) 7°02'18 minimum elong 4876 Jul 17 17:19 28°\( 64'626 \) 0°23'29 minimum elong 4874 Feb 20 12:31 2°\( 45'704 \) 7°00'06 minimum elong 4876 Jul 18 17:13 0°\( Ω \) minimum elong 4874 Feb 20 09:41 3°\( ★0'105 \) 0.26780 AU max. Earth dist. 4876 Aug 12 02:22 0°\( √ \) morning rise 4874 Feb 25 10:46 30°\( √ \) 4874 Feb 25 10:46 30°\( √ \) greatest brilliancy 4874 Mar 13 10:35 24°\( ∞53'93 \) -4.9m evening rise 4876 Oct 24 12:13 0°\( √ \) morning max el 4874 May 02 15:17 27°\( ★19'49 \) 46°40'27 desc. node 4876 Oct 27 12:47 3°\( √ \) 4876 Nov 18 04:27 0°\( √ \) 4876 May 12 17:43 7°\( √ \) 4876 Dec 13 00:56 0°\( √ \) 4877 Jan 07 05:51 0°\( ★ \)				-4 9m	asc node			
evening set 4874 Feb 16 00:58 5°\(\frac{\pmath{3}6'59}{36'59}\) superior conj 4876 Jul 17 22:13 29°\(\frac{\pmath{3}0'13}{36'56}\) 0°23'44 inferior conj 4874 Feb 20 23:17 2°\(\frac{\pmath{4}6'36}{30'8}\) 7°02'18 minimum elong 4876 Jul 17 17:19 28°\(\frac{\pmath{3}6'26}{36'26}\) 0°23'29 minimum elong 4874 Feb 20 12:31 2°\(\frac{\pmath{5}}{5}\) 704 7°00'06 4876 Jul 18 17:13 0°\(\frac{\pmath{3}}{3}\) 13°\(\frac{\pmath{3}}{3}\) 173360 AU morning rise 4874 Feb 25 00:16 0°\(\frac{\pmath{4}}{15'04}\) 4876 Aug 12 02:22 0°\(\pmath{m}\) 4874 Feb 25 10:46 30°\(\pmath{8}\) 8∞\(\pmath{8}\) 8°\(\pmath{8}\) 8°\(\pmath{8}\) 4874 Feb 25 10:46 30°\(\pmath{8}\) 8∞\(\pmath{8}\) 8°\(\pmath{8}\) 8°\(\pmath{8}\) 4876 Sep 05 12:04 0°\(\pmath{9}\) greatest brilliancy 4874 Mar 13 10:35 24°\(\pmath{8}\)8'\(\pmath{9}\)19'49 46°\(\pmath{9}\)127 desc. node 4876 Oct 27 12:47 3°\(\pmath{8}\)41'10 4'10'\(\pmath{8}\) 8\(\pmath{9}\)10°\(\pmath{8}\) 4874 May 02 15:17 27°\(\pmath{1}\)19'49 46°\(\pmath{9}\)127 desc. node 4876 Nov 18 04:27 0°\(\pmath{8}\)18 06:56 0°\(\pmath{8}\)11'10 4'17'\(\pmath{1}\)10°\(\pmath{8}\)11'10 4'17'\(\pmath{9}\)11'10 4'11'\(\pmath{9}\)11'10 4'11'\				4.7111	ase. Houe	40/0 Jul 0/ 21.33	10 34140	
minimum elong   4874 Feb 20 23:17   2° H 40'36   7°02'18   minimum elong   4876 Jul 17 17:19   28° 546'26   0°23'29     minimum elong   4874 Feb 20 12:31   2° H 57'04   7°00'06   4876 Jul 18 17:13   0° Ω     minimum elong   4874 Feb 20 09:41   3° H 01'25   0.26780 AU   max. Earth dist.   4876 Jul 18 21:36   0° Ω13'29   1.73360 AU     morning rise   4874 Feb 25 10:46   30° R ≈   evening rise   4876 Aug 12 02:22   0° m     direct   4874 Mar 13 10:35   24° ≈58'40   evening rise   4876 Sep 05 12:04   0° Ω     greatest brilliancy   4874 Mar 22 20:11   26° ≈39'39   -4.9m   4876 Sep 29 23:01   0° M     d874 Mar 30 06:09   0° H   4876 Oct 27 12:47   3° № 41'10     4874 May 02 15:17   27° H 19'49   46° 40'27   desc. node   4876 Oct 27 12:47   3° № 41'10     desc. node   4874 May 12 17:43   7° Ψ 40'14   4876 Dec 13 00:56   0° ≈     4874 May 12 17:43   7° Ψ 40'14   4876 Dec 13 00:56   0° ≈     4874 Jun 02 06:14   0° ♥   4877 Jan 07 05:51   0° H						4076 I1 17 22.12	200601121	0922144
minimum elong	•			7000110				
min. Earth dist. 4874 Feb 20 09:41 3° ★01'25 0.26780 AU max. Earth dist. 4876 Jul 18 21:36 0° £013'29 1.73360 AU morning rise 4874 Feb 25 00:16 0° ★15'04 4876 Aug 12 02:22 0° Mp 4876 Aug 12 02:22 0° Mp 4876 Aug 23 05:37 13° Mp 41'37 direct 4874 Mar 13 10:35 24°≈58'40 4876 Sep 05 12:04 0° £0 4	·				minimum elong			0°23'29
Morning rise   4874 Feb 25 00:16   0° ★15'04   4876 Aug 12 02:22   0° №	•							
4874 Feb 25 10:46   30°R≈   evening rise   4876 Aug 23 05:37   13° m/41'37     direct   4874 Mar 13 10:35   24°≈58'40   4876 Sep 05 12:04   0° Ω     greatest brilliancy   4874 Mar 22 20:11   26°≈39'39 -4.9m   4876 Sep 29 23:01   0° m     4874 Mar 30 06:09   0° ℋ   4876 Oct 24 12:13   0° ℤ     morning max el   4874 May 02 15:17   27° ℋ19'49 46° 40'27   desc. node   4876 Oct 27 12:47   3° ℤ 41'10     4874 May 05 07:13   0° ♈   4876 Nov 18 04:27   0° ☒     desc. node   4874 May 12 17:43   7° ♈ 40'14   4876 Dec 13 00:56   0° ≈     4874 Jun 02 06:14   0° ☒   4877 Jan 07 05:51   0° ℋ				0.26780 AU	max. Earth dist.			1.73360 AU
direct 4874 Mar 13 10:35 24°≈58'40 4876 Sep 05 12:04 0°Ω greatest brilliancy 4874 Mar 22 20:11 26°≈39'39 -4.9m 4876 Sep 29 23:01 0°™ 4874 Mar 30 06:09 0°ℋ 4874 May 02 15:17 27°ℋ19'49 46°40'27 desc. node 4876 Oct 27 12:47 3°※741'10 4874 May 05 07:13 0°° 4876 Nov 18 04:27 0°♂ desc. node 4874 May 12 17:43 7°° 40'14 4876 Dec 13 00:56 0°≈ 4874 Jun 02 06:14 0°♂	morning rise	4874 Feb 25 00:16	0° <b>)</b> 15′04			4876 Aug 12 02:22	0° <b>™</b>	
greatest brilliancy 4874 Mar 22 20:11 26°≈39'39 -4.9m 4876 Sep 29 23:01 0°™.  4874 Mar 30 06:09 0°ℋ. 4876 Oct 24 12:13 0°ℤ.  morning max el 4874 May 02 15:17 27°ℋ19'49 46°40'27 desc. node 4876 Oct 27 12:47 3°ℤ41'10  4874 May 05 07:13 0°♈ 4876 Nov 18 04:27 0°ℤ.  desc. node 4874 May 12 17:43 7°♈40'14 4876 Dec 13 00:56 0°≈  4874 Jun 02 06:14 0°ੴ 50°€		4874 Feb 25 10:46	30°R≈		evening rise	4876 Aug 23 05:37	13° <b>m</b> 41'37	
greatest brilliancy 4874 Mar 22 20:11 26°≈39'39 -4.9m 4876 Sep 29 23:01 0°M 4876 Mar 30 06:09 0°H 4876 Oct 24 12:13 0°N 4876 May 02 15:17 27°H 19'49 46°40'27 desc. node 4876 Oct 27 12:47 3°N 41'10 4874 May 05 07:13 0°°Y 4876 Mov 18 04:27 0°S 4876 Dec 13 00:56 0°≈ 4874 Jun 02 06:14 0°S 4874 Jun 07 05:51 0°H 4876 Dec 13 00:56 0°H 4876 Dec 13 00:56 0°N 4877 Jan 07 05:51 0°H	direct	4874 Mar 13 10:35	24° <b>≈</b> 58'40			4876 Sep 05 12:04	0∘ <b>亚</b>	
4874 Mar 30 06:09 0° <del>\frac{1}{2} \frac{1}{2} \fra</del>	greatest brilliancy		26° <b>≈</b> 39'39	-4.9m		•	$0^{\circ}$ M	
morning max el 4874 May 02 15:17 27° 光 19'49 46°40'27 desc. node 4876 Oct 27 12:47 3° 矛 41'10 4874 May 05 07:13 0° Ŷ 4876 Nov 18 04:27 0° 舌 desc. node 4874 May 12 17:43 7° Ŷ 40'14 4876 Dec 13 00:56 0° 無 4874 Jun 02 06:14 0° と 4877 Jan 07 05:51 0° 光	Ĭ					•		
4874 May 05 07:13 0° $\Upsilon$ 4876 Nov 18 04:27 0° $\Xi$ desc. node 4874 May 12 17:43 7° $\Upsilon$ 40'14 4876 Dec 13 00:56 0° $\Xi$ 4874 Jun 02 06:14 0° $\Xi$ 4877 Jun 07 05:51 0° $\Xi$	morning max el			46°40'27	desc. node			
desc. node 4874 May 12 17:43 7° Υ 40'14 4876 Dec 13 00:56 0° ★ 4874 Jun 02 06:14 0° ★ 4877 Jan 07 05:51 0° ★		•		.0 .02/	ness. nous			
4874 Jun 02 06:14 0°♥ 4877 Jan 07 05:51 0°♥	desc nodo	•						
	uesc. Houe	•						
48/4 Jun 28 12:13 0°μ 4877 Feb 02 07:47 0°Ψ'								
		48/4 Jun 28 12:13	υт			48// Feb 02 07:47	O.A.	

asc. node	4877 Feb 17 14:30	16° <b>Ƴ</b> 33'45			4879 Sep 21 07:02	0∘ <b>ত</b>	
evening max el	4877 Feb 22 14:37	21° <b>Υ</b> 43'38	47°06'04	max. Earth dist.	4879 Sep 22 10:46	0 <b>—</b> 1° <b>≏</b> 25'37	1.73202 AU
evening max or	4877 Mar 03 00:26	0°8	17 0001	max. Earth dist.	1077 Sep 22 10.10	1 —2557	1.75202710
greatest brilliancy	4877 Apr 03 23:41	22° <b>8</b> 56'20	-4.9m	superior conj	4879 Sep 24 14:55	4° <b>£</b> 06'34	1°24'16
retrograde	4877 Apr 14 06:33	24° <b>8</b> 55'48		minimum elong	4879 Sep 24 12:02	3° <b>≏</b> 57'42	
evening set	4877 May 01 08:53	19° <b>8</b> 14'54		Č	4879 Oct 15 13:33	0°M₊	
inferior conj	4877 May 05 05:46	16° <b>8</b> 51'45	7°23'44	evening rise	4879 Oct 31 09:42	19°M36'52	
minimum elong	4877 May 05 15:39	16° <b>8</b> 36'18	7°21'59		4879 Nov 08 18:55	0° <b>∡</b> ¹	
min. Earth dist.	4877 May 05 02:07	16° <b>8</b> 57'29	0.27765 AU	desc. node	4879 Nov 25 00:43	20° <b>∡</b> °07'45	
morning rise	4877 May 09 22:44	14° <b>8</b> 00'00			4879 Dec 02 23:51	ರ°0	
direct	4877 May 26 04:00	8° <b>8</b> 55'27			4879 Dec 27 04:43	0° <b>≈</b> ≈	
greatest brilliancy	4877 Jun 04 17:41	10° <b>8</b> 37'14	-4.8m		4880 Jan 20 10:24	0° <b>)</b>	
desc. node	4877 Jun 09 05:30	12° <b>8</b> 26'43			4880 Feb 13 19:42	$0^{\circ}$ Y	
	4877 Jul 04 01:34	$\Pi^{\circ}0$			4880 Mar 09 14:29	$9^{\circ}$ 8	
morning max el	4877 Jul 14 07:42	9° <b>Ⅱ</b> 28'43	45°55'29	asc. node	4880 Mar 17 02:24	8° <b>8</b> 54'34	
	4877 Aug 03 11:30	0			4880 Apr 04 06:14	$\Pi$ °0	
	4877 Aug 30 16:41	$0 ^{\circ} \Omega$			4880 May 01 22:43	$0$ $\circ$ $\odot$	
	4877 Sep 25 14:56	0° <b>m</b>		evening max el	4880 May 05 01:43	3° <b>5</b> 07'51	46°15'45
asc. node	4877 Sep 30 07:26	5°₩31'54			4880 Jun 07 10:02	$0$ ° $\Omega$	
	4877 Oct 20 18:23	0∘ <b>ত</b>		greatest brilliancy	4880 Jun 12 16:16	2° <b>Ω</b> 25′03	-4.8m
	4877 Nov 14 08:58	0°M₊		retrograde	4880 Jun 23 18:16	4° <b>Ω</b> 40′28	
	4877 Dec 08 15:03	0° <b>∡</b>		desc. node	4880 Jul 06 17:21	1° <b>Ω</b> 20′23	
	4878 Jan 01 16:02	0° <b>ろ</b>		evening set	4880 Jul 08 19:02	0° <b>Ω</b> 15'37	
morning set	4878 Jan 08 22:11	9° <b>る</b> 05'27			4880 Jul 09 06:19	30° <b>₹ॐ</b>	
desc. node	4878 Jan 19 22:18	22° <b>る</b> 53'48		inferior conj	4880 Jul 15 04:27	26°\$25'40	
	4878 Jan 25 14:04	0° <b>≈</b>		minimum elong	4880 Jul 15 00:03	26°932'33	1°59'48
	4878 Feb 18 10:34	0° <b>)</b> €		min. Earth dist.	4880 Jul 14 19:08	26°5540'14	0.28696 AU
	4070 F 1 10 00 56	00 1/ 4511 1	1004141	morning rise	4880 Jul 21 05:26	22°547'45	
superior conj	4878 Feb 19 00:56	0° <b>)</b> (45'11		direct	4880 Aug 05 14:08	18°5014'31	4.7
minimum elong	4878 Feb 18 12:58	0° <b>)</b> €07'31		greatest brilliancy	4880 Aug 15 15:35	20° <b>©</b> 03'38 0° <b>Ω</b>	-4.7m
max. Earth dist.	4878 Feb 19 03:54 4878 Mar 14 07:00	0° <b>)</b> 54'30 0° <b>Υ</b>	1.71127 AU	mamina may al	4880 Sep 02 09:51	17° <b>Ω</b> 54'44	15012152
evening rise	4878 Mar 31 22:29	22°Υ08'23		morning max el	4880 Sep 23 07:24 4880 Oct 05 10:44	0° m)	45 45 55
evening rise	4878 Apr 07 05:11	0° <b>8</b>		asc. node	4880 Oct 03 10:44 4880 Oct 27 19:24	24° Mp 08'38	
	4878 May 01 07:08	0°II		asc. node	4880 Nov 01 23:56	ე∘ <u>ი</u>	
asc. node	4878 May 13 00:15	14° <b>∏</b> 29'42			4880 Nov 27 17:32	0° <b>™</b>	
asc. node	4878 May 25 14:44	0°95			4880 Dec 22 13:24	0° <b>⊼</b> ″	
	4878 Jun 19 05:51	$0 {\circ} \Omega$			4881 Jan 15 21:35	0°ਰ	
	4878 Jul 14 07:22	0° <b>m</b> )			4881 Feb 08 23:37	0° <b>≈</b>	
	4878 Aug 09 01:15	0∘ <b>⊽</b>		desc. node	4881 Feb 16 10:04	9° <b>≈</b> 17'50	
desc. node	4878 Sep 01 14:57	26° <b>≏</b> 18'31			4881 Mar 04 22:39	0° <b>)</b> €	
	4878 Sep 05 01:08	0°M		morning set	4881 Mar 26 17:37	27° <b>)</b> 19'45	
evening max el	4878 Sep 27 15:16	23°M03'12	45°51'55	. 8	4881 Mar 28 20:43	0° <b>Υ</b>	
Č	4878 Oct 05 02:42	0° <b>∡</b> ¹			4881 Apr 21 19:39	0° <b>႘</b>	
greatest brilliancy	4878 Nov 06 10:45	21° <b>₹</b> 37'51	-4.8m		•		
retrograde	4878 Nov 15 15:00	23° <b>҂</b> 10'48		superior conj	4881 May 05 18:27	17° <b>8</b> 25'03	-1°11'24
evening set	4878 Dec 01 02:57	18° <b>∡</b> ³34'58		minimum elong	4881 May 06 04:49	17° <b>8</b> 57'22	1°11'06
inferior conj	4878 Dec 06 12:14	15° <b>∡</b> ′23'47	-4°11'31	max. Earth dist.	4881 May 09 13:36	22° <b>8</b> 09'00	1.72107 AU
minimum elong	4878 Dec 06 20:48	15° <b>∡</b> 10'37	4°09'08		4881 May 15 21:00	$\Pi$ °0	
min. Earth dist.	4878 Dec 07 09:08	14° <b>₹</b> 51'41	0.27363 AU		4881 Jun 09 01:46	$0$ $\circ$	
morning rise	4878 Dec 12 13:49	11° <b>≯</b> ⁴48'13		asc. node	4881 Jun 09 12:05	0° <b>©</b> 31'54	
asc. node	4878 Dec 23 16:57	7° <b>∡</b> ⁴43'48		evening rise	4881 Jun 13 17:59	5° <b>5</b> 46'27	
direct	4878 Dec 27 09:31	7° <b>≯</b> 27′06			4881 Jul 03 10:16	$0$ $^{\circ}$ $\Omega$	
greatest brilliancy	4879 Jan 07 12:00	9° <b>х</b> 45′03	-4.9m		4881 Jul 27 22:44	0° <b>m</b> )	
	4879 Feb 05 02:53	0°る			4881 Aug 21 16:13	0∘ <b>⊽</b>	
morning max el	4879 Feb 16 00:37	10° <b>る</b> 35'35	46°57'13		4881 Sep 15 16:58	0° <b>M</b> ₊	
	4879 Mar 06 06:04	0° <b>≈</b>		desc. node	4881 Sep 29 02:53	15°M52'15	
	4879 Apr 01 12:01	0° <b>)</b> (			4881 Oct 11 04:34	0° <b>∡</b> ¹	
desc. node	4879 Apr 14 07:59	15° <b>)</b> €08'53			4881 Nov 06 09:49	0°る	
	4879 Apr 26 18:14	$^{\circ \gamma}$			4881 Dec 04 04:28	0°≈ 50××25102	4.00.401.4.4
	4879 May 21 14:34	0° <b>Β</b>		evening max el	4881 Dec 09 13:09	5°≈25'02	46°49'44
	4879 Jun 15 06:58	0° <b>∏</b>			4882 Jan 07 05:15	0° <b>)</b> €	4.0-
	4879 Jul 09 21:47	0.ಂ 0.ಂ		greatest brilliancy	4882 Jan 18 20:42	6° <b>)</b> €04'09	-4.9m
asa nada	4879 Aug 03 11:11	0° <b>Ω</b> 2° <b>Ω</b> 22'10		asc. node	4882 Jan 20 04:43	6° <b>光</b> 31'37 7° <b>光</b> 59'18	
asc. node	4879 Aug 05 09:40			retrograde	4882 Jan 28 22:24		
morning set	4879 Aug 19 03:39 4879 Aug 27 22:24	19° <b>Ω</b> 12'59 0° <b>m</b>		evening set inferior conj	4882 Feb 13 09:42 4882 Feb 18 11:44	3° <b>)</b> 14'33 0° <b>)</b> 12'45	6°46'21
	7017 Mug 21 22.24	V III		microi conj	-1002 FCU 10 11.44	υ <b>Λ</b> 1243	100-0

minimum elong	4882 Feb 18 00:52	0° <b>)</b> 29′23	6°44'09	max. Earth dist.	4884 Jul 16 16:53	28°©11'37	1.73334 AU
min. Earth dist.	4882 Feb 17 22:14	0° <b>)</b> (33′24	0.26756 AU	max. Earth dist.	4884 Jul 18 04:06	0°Ω	1.75554710
mm. zarm uist.	4882 Feb 18 20:03	30°R≈	0.20,00110		4884 Aug 11 13:14	0° m)	
morning rise	4882 Feb 22 16:16	27°≈42'12		evening rise	4884 Aug 21 00:02	11° <b>m</b> 37'08	
direct	4882 Mar 10 23:38	22° <b>≈</b> 31'17		Ü	4884 Sep 04 23:02	0∘ <u>⊽</u>	
greatest brilliancy	4882 Mar 20 08:45	24°≈12'06	-4.9m		4884 Sep 29 10:15	$0^{\circ}$ M	
	4882 Mar 31 21:27	0° <b>∀</b>			4884 Oct 23 23:52	0° <b>∡</b> ¹	
morning max el	4882 Apr 30 05:06	24° <b>)</b> 57'16	46°41'51	desc. node	4884 Oct 26 14:52	3° <b>҂</b> 11'52	
	4882 May 05 04:57	$0^{\circ}$ Y			4884 Nov 17 16:42	8°0	
desc. node	4882 May 11 19:47	6° <b>Ƴ</b> 53'47			4884 Dec 12 14:05	0° <b>≈</b>	
	4882 Jun 01 22:08	$0^{\circ}$ 8			4885 Jan 06 20:29	0° <b>∀</b>	
	4882 Jun 28 01:46	$\Pi$ $^{\circ}0$			4885 Feb 02 01:27	$0^{\circ}\Upsilon$	
	4882 Jul 23 13:54	$0$ $\circ$		asc. node	4885 Feb 16 16:35	15° <b>Ƴ</b> 44'11	
	4882 Aug 17 17:02	$0$ $^{\circ}\Omega$		evening max el	4885 Feb 20 03:46	19° <b>Ƴ</b> 17'52	47°06'50
asc. node	4882 Sep 01 21:33	18° <b>Ω</b> 18'59			4885 Mar 03 03:38	0°8	
	4882 Sep 11 12:40	0°Щ		greatest brilliancy	4885 Apr 01 15:38	20° <b>8</b> 36'31	-4.9m
	4882 Oct 06 01:25	0∘ <b>⊽</b>		retrograde	4885 Apr 11 20:34	22° <b>8</b> 34'38	
morning set	4882 Oct 26 14:41	25° <b>Ω</b> 22'01		evening set	4885 Apr 29 02:24	16° <b>8</b> 49'26	
	4882 Oct 30 08:27	0° <b>™</b>		inferior conj	4885 May 02 20:01	14° <b>8</b> 31'14	
F 4 F	4882 Nov 23 11:32	0° <b>∡</b> ¹		minimum elong	4885 May 03 05:35	14° <b>8</b> 16'16	7°34'47
max. Earth dist.	4882 Nov 30 11:52	8° <b>≯</b> 44'43	1.71998 AU	min. Earth dist.	4885 May 02 16:28	14° <b>8</b> 36'48	0.27734 AU
	4000 D 02 07 07	100 71001	0044111	morning rise	4885 May 07 09:02	11° <b>8</b> 45'02	
superior conj	4882 Dec 03 06:26	12° 🗷 12'21	0°44'11	direct	4885 May 23 17:10	6° <b>8</b> 35'21	4.0
minimum elong	4882 Dec 03 15:30	12° <b>₹</b> 40'41	0°43'48	greatest brilliancy	4885 Jun 02 07:25	8° <b>8</b> 17'13	-4.8m
daga mada	4882 Dec 17 12:13	0°ಕ 6°ಕ16'11		desc. node	4885 Jun 08 07:28	10° <b>8</b> 50'47 0° <b>П</b>	
desc. node	4882 Dec 22 12:31 4883 Jan 10 11:24	0°≈		marning may al	4885 Jul 04 05:36 4885 Jul 11 21:20	0°Щ 7°Щ09'49	15056117
evening rise	4883 Jan 12 01:36	0 ≈ 1°≈59'40		morning max el	4885 Aug 03 04:53	7 Д0949 0°©	43 3047
evening rise	4883 Feb 03 09:48	0° <b>)</b>			4885 Aug 30 06:48	0°€ 0°€	
	4883 Feb 27 08:52	0° <b>Υ</b>			4885 Sep 25 03:33	0° <b>m</b> )	
	4883 Mar 23 11:17	0°8		asc. node	4885 Sep 29 09:32	5° Mg 01'17	
asc. node	4883 Apr 14 14:22	27° <b>8</b> 13'53		ase. node	4885 Oct 20 06:13	0∘ <del>ত</del>	
ase. noue	4883 Apr 16 20:49	0°II			4885 Nov 13 20:23	0° <b>™</b>	
	4883 May 11 18:28	0°9			4885 Dec 08 02:18	0° <b>₹</b>	
	4883 Jun 06 12:35	$0^{\circ}\Omega$			4886 Jan 01 03:12	0°ਰ	
	4883 Jul 03 23:29	0° m/		morning set	4886 Jan 06 10:10	6° <b>る</b> 37'33	
evening max el	4883 Jul 15 17:23	11° <b>m</b> 46'29	45°33'32	desc. node	4886 Jan 19 00:16	22° <b>る</b> 24'57	
desc. node	4883 Aug 04 05:13	28° Mp 46'17			4886 Jan 25 01:13	0° <b>≈</b>	
	4883 Aug 05 20:46	0∘ <b>⊽</b>					
greatest brilliancy	4883 Aug 23 03:46	9° <b>£</b> 44'34	-4.7m	superior conj	4886 Feb 16 11:10	28° <b>≈</b> 11'14	-1°01'55
retrograde	4883 Sep 02 09:56	11° <b>≏</b> 37'39		minimum elong	4886 Feb 15 23:09	27° <b>≈</b> 33'25	1°01'29
evening set	4883 Sep 20 06:36	5° <b>≏</b> 39'47		max. Earth dist.	4886 Feb 16 07:16	27° <b>≈</b> 58'56	1.71133 AU
inferior conj	4883 Sep 23 21:17	3° <b>≏</b> 25'44	-8°28'41		4886 Feb 17 21:45	0° <b>)</b> €	
minimum elong	4883 Sep 23 17:44	3° <b>₽</b> 31'18	8°28'29		4886 Mar 13 18:12	$0^{\circ}$ Y	
min. Earth dist.	4883 Sep 24 02:27	3° <b>₽</b> 17'36	0.29041 AU	evening rise	4886 Mar 29 08:59	19° <b>Ƴ</b> 35'48	
morning rise	4883 Sep 27 04:48	1° <b>≏</b> 22'20			4886 Apr 06 16:25	0° <b>8</b>	
	4883 Sep 29 12:51	30°R Mp			4886 Apr 30 18:26	$0$ ° $\Pi$	
direct	4883 Oct 15 11:51	25° m 07'52		asc. node	4886 May 12 02:14	14° <b>Ⅱ</b> 00'38	
greatest brilliancy	4883 Oct 26 03:58	27° m 12'20	-4.8m		4886 May 25 02:14	0°©	
ī	4883 Nov 01 06:41	0° <b>⊽</b>			4886 Jun 18 17:44	0° <b>N</b>	
asc. node	4883 Nov 25 07:05	18° <b>£</b> 04'45	4.001.010.0		4886 Jul 13 20:01	0° <b>m</b> )	
morning max el	4883 Dec 04 05:15	26° <b>Ω</b> 36'49	46°18'00	4 4.	4886 Aug 08 15:22	0° <b>⊽</b>	
	4883 Dec 07 14:08	0° <b>M</b> 0° <i>₹</i>		desc. node	4886 Aug 31 17:03 4886 Sep 04 18:29	25° <b>£</b> 39'02 0° <b>™</b>	
	4884 Jan 04 04:16	0°る		avaning may al	-	20°M45'13	45050120
	4884 Jan 29 18:27 4884 Feb 23 12:54	0° <b>≈</b>		evening max el	4886 Sep 25 04:57 4886 Oct 05 06:53	20°11L45'15 0° <b>7</b>	45°50'29
desc. node	4884 Mar 15 22:06	0 ∞ 26°≈17'28		greatest brilliancy	4886 Nov 03 23:52	19° <b>∡</b> 17′26	-4.8m
aose, noue	4884 Mar 18 22:10	20 <b>≈</b> 1728		retrograde	4886 Nov 13 04:34	20° <b>x</b> 50'47	т.ош
	4884 Apr 12 03:22	0° <b>Υ</b>		evening set	4886 Nov 28 19:14	20 <b>x</b> 3047 16° <b>x</b> 10′21	
	4884 May 06 07:35	0°8		inferior conj	4886 Dec 04 01:59	13°×1021	-4°31'04
	4884 May 30 12:47	0°II		minimum elong	4886 Dec 04 11:01	12° <b>×</b> <sup>7</sup> 48'55	4°28'37
morning set	4884 Jun 08 01:25	10° <b>Ⅲ</b> 32'33		min. Earth dist.	4886 Dec 04 23:31	12°× 10°35	0.27428 AU
	4884 Jun 23 19:44	0°95		morning rise	4886 Dec 10 01:59	9° <b>х</b> 29'34	
asc. node	4884 Jul 06 23:49	16° <b>©</b> 14'09		asc. node	4886 Dec 22 18:49	5° <b>∡</b> 10'56	
				direct	4886 Dec 25 00:02	5° <b>∡</b> ¹04'54	
superior conj	4884 Jul 15 15:23	26°\$53'08	0°20'33	greatest brilliancy	4887 Jan 05 03:21	7° <b>∡</b> ¹24'06	-4.9m
minimum elong	4884 Jul 15 11:05	26° <b>©</b> 39'54	0°20'20	-	4887 Feb 05 06:11	ರ∘ರ	

morning max el	4887 Feb 13 15:50	8° <b>ප</b> 15'09	16°56'35		4889 Sep 15 05:18	0°M	
morning max er	4887 Mar 05 23:45	0°≈	40 30 33	desc. node	4889 Sep 28 04:55	15°M20'10	
	4887 Apr 01 02:41	0° <b>∺</b>		desc. flode	4889 Oct 10 18:12	0° <b>√</b>	
desc. node	4887 Apr 13 10:01	14° <b>)</b> 33'45			4889 Nov 06 01:51	%	
dese. node	4887 Apr 26 07:27	0°Υ			4889 Dec 04 02:18	0° <b>≈</b>	
	4887 May 21 02:54	0°8		evening max el	4889 Dec 07 03:52	3°≈04'20	46°47'59
	4887 Jun 14 18:42	0°II		evening max er	4890 Jan 08 17:49	0° <b>∀</b>	40 47 37
	4887 Jul 09 09:07	0.2e		greatest brilliancy	4890 Jan 16 09:47	3° <b>¥</b> 36'50	-4.9m
	4887 Aug 02 22:15	$0^{\circ}\Omega$		asc. node	4890 Jan 19 06:49	4° <b>)</b> 31'27	1.5111
asc. node	4887 Aug 04 11:43	1° <b>Ω</b> 54'41		retrograde	4890 Jan 26 11:16	5° <b>¥</b> 31′09	
morning set	4887 Aug 16 21:04	17° <b>Ω</b> 05'32		evening set	4890 Feb 10 18:43	0° <b>¥</b> 52'21	
morning set	4887 Aug 27 09:19	0°m		evening set	4890 Feb 12 07:15	30°R≈	
max. Earth dist.	4887 Sep 20 08:03	29° <b>m</b> ) 29'32	1.73229 AU	min. Earth dist.	4890 Feb 15 11:17	28°≈05'20	0.26728 AU
max. Darm dist.	4887 Sep 20 17:55	0ಂ <b>ರ</b>	1.73227110	inferior conj	4890 Feb 16 00:16	27°≈45'26	6°29'54
	4007 Sep 20 17.55	٥ <b>–</b>		minimum elong	4890 Feb 15 13:22	28°≈02'08	6°27'26
superior conj	4887 Sep 22 08:39	1° <b>£</b> 59'31	1°23'41	morning rise	4890 Feb 20 08:16	25°≈09'47	0 27 20
minimum elong	4887 Sep 22 05:07	1° <b>≏</b> 48'37	1°23'39	direct	4890 Mar 08 12:22	20°≈04'33	
minimum ciong	4887 Oct 15 00:30	0° <b>™</b>	1 2337	greatest brilliancy	4890 Mar 17 21:49	21°≈45'30	-4.9m
evening rise	4887 Oct 29 01:45	17°M23'50		greatest oriniancy	4890 Apr 02 00:40	0° <b>∀</b>	- <del>4</del> .7III
evening rise	4887 Nov 08 06:00	0° <b>√</b>		morning max el	4890 Apr 27 17:54	22° <b>)</b> 32'33	46°43'07
desc. node	4887 Nov 24 02:39	19° <b>х</b> 39'00		morning max er	4890 May 05 01:44	0°Υ	40 43 07
dese. Hode	4887 Dec 02 11:08	0°る		desc. node	4890 May 10 21:46	6°Υ08'20	
	4887 Dec 26 16:18	0° <b>≈</b>		dese. Hode	4890 Jun 01 13:41	0°8	
	4888 Jan 19 22:24	0° <b>∺</b>			4890 Jun 27 15:09	0°II	
	4888 Feb 13 08:17	0°Υ			4890 Jul 23 02:10	0.© 0 H	
	4888 Mar 09 04:06	0° <b>8</b>			4890 Aug 17 04:35	0° <b>U</b>	
asc. node	4888 Mar 16 04:26	8° <b>8</b> 19'03		asc. node	4890 Aug 31 23:39	17° <b>Ω</b> 51'17	
use. Houe	4888 Apr 03 21:54	0°II		ase. Hode	4890 Sep 10 23:48	0° my	
	4888 May 01 20:01	0°©			4890 Oct 05 12:17	0° <del>م</del>	
evening max el	4888 May 02 17:47	0°954'08	46°17'50	morning set	4890 Oct 24 07:00	23° <b>⊆</b> 10'31	
evening max er	4888 Jun 09 19:25	0°Ω	40 17 30	morning set	4890 Oct 29 19:14	0°M	
greatest brilliancy	4888 Jun 10 08:08	0°Ω12'34	-4.8m		4890 Nov 22 22:21	0° <b>⊼</b> ¹	
retrograde	4888 Jun 21 11:03	2° <b>Ω</b> 28'33	4.0111	max. Earth dist.	4890 Nov 27 22:36		1.72046 AU
retrograde	4888 Jul 02 13:15	30°Rூ		max. Earth dist.	1000 1101 27 22.50	0 % 11 13	1.72010710
desc. node	4888 Jul 05 19:19	28° <b>©</b> 25'01		superior conj	4890 Nov 30 20:28	9° <b>∡</b> ¹52'35	0°47'14
evening set	4888 Jul 06 10:50	28° <b>©</b> 04'01		minimum elong	4890 Dec 01 05:52	10° <b>₹</b> 21'55	0°46'51
inferior conj	4888 Jul 12 20:19	24°5013'52	-1°41'05	minimum ciong	4890 Dec 16 23:08	0°る	0 4031
minimum elong	4888 Jul 12 16:36		1°40'00	desc. node	4890 Dec 21 14:31	5° <b>る</b> 48'14	
min. Earth dist.	4888 Jul 12 10:52		0.28663 AU	evening rise	4891 Jan 09 13:22	29° <b>る</b> 31'36	
morning rise							
morning rise				5 / 4 · · · · · · · · · · · · · · · · · ·			
direct	4888 Jul 18 22:51	20°534'10			4891 Jan 09 22:26	0° <b>≈</b>	
direct	4888 Jul 18 22:51 4888 Aug 03 06:05	20°934'10 16°903'15	-4.7m		4891 Jan 09 22:26 4891 Feb 02 20:55	0° <b>≈</b> 0° <b>∀</b>	
direct greatest brilliancy	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23	20°©34'10 16°©03'15 17°©51'52	-4.7m		4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07	0°≈ 0°¥ 0°Υ	
greatest brilliancy	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02	20°©34'10 16°©03'15 17°©51'52 0° <i>\Omega</i>		·	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46	0°₩ 0°Y 0°Y	
	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46	20°\$34'10 16°\$03'15 17°\$51'52 0°\$\$\text{\$\Omega\$}\$\$150 \text{\$\Omega\$}\$\$45'24		asc. node	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20	0°≈ 0°¥ 0°Υ 0°8 26°843'41	
greatest brilliancy morning max el	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46 4888 Oct 05 05:14	20°\$34'10 16°\$03'15 17°\$51'52 0°\$A 15°\$A45'24 0°\$\$		·	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43	0°≈ 0°¥ 0°Y 0°8 26°843'41 0°II	
greatest brilliancy	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21	20°\$34'10 16°\$03'15 17°\$51'52 0°\$ 15°\$45'24 0°\$ 23°\$32'01		·	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11	0°≈ 0°π 0°π 0°π 0°8 26°843'41 0°π 0°∞	
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greatest brilliancy morning max el	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Nov 27 06:24	20°\$34'10 16°\$03'15 17°\$51'52 0°\$ 15°\$45'24 0°\$ 23°\$32'01 0°\$ 0°\$		asc. node	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06	0°≈ 0°¥ 0°Y 0°8 26°843'41 0°I 0°S 0°A 0°I	45°33'58
greatest brilliancy morning max el	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Nov 27 06:24 4888 Dec 22 01:27	20°\$34'10 16°\$03'15 17°\$51'52 0°\$ 15°\$45'24 0°\$ 23°\$32'01 0°\$ 0°\$ 0°\$ 0°\$ 0°\$		asc. node	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06 4891 Jul 13 08:16	0°≈ 0° π 0° γ 0° γ 0° 8 26° 843'41 0° π 0° Ω 0° Ω 9° m 33'32	45°33'58
greatest brilliancy morning max el	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Nov 27 06:24 4888 Dec 22 01:27 4889 Jan 15 09:11	20°©34'10 16°©03'15 17°©51'52 0°N 15°N45'24 0°M 23°M32'01 0°Ω 0°M 0°% 0°%		asc. node	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06 4891 Jul 13 08:16 4891 Aug 03 07:21	0°≈ 0° π 0° γ 0° γ 0° 8 26° 843'41 0° π 0° π 0° π 9° m 33'32 27° m 40'29	45°33'58
morning max el asc. node	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Dec 22 01:27 4889 Jan 15 09:11 4889 Feb 08 10:58	20°\$34'10 16°\$03'15 17°\$51'52 0°\$ 15°\$45'24 0°\$ 23°\$32'01 0°\$ 0°\$ 0°\$ 0°\$ 0°\$		asc. node evening max el desc. node	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06 4891 Jul 13 08:16 4891 Aug 03 07:21 4891 Aug 06 13:57	0°≈ 0°¥ 0°Y 0°8 26°843'41 0°II 0°S 0°A 0°M 9°M33'32 27°M40'29 0°Ω	
greatest brilliancy morning max el	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Nov 27 06:24 4888 Dec 22 01:27 4889 Jan 15 09:11 4889 Feb 08 10:58 4889 Feb 15 12:14	20°\$34'10 16°\$03'15 17°\$51'52 0°\$ 15°\$45'24 0°\$ 23°\$32'01 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 8°\$49'19		asc. node  evening max el desc. node greatest brilliancy	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06 4891 Jul 13 08:16 4891 Aug 03 07:21 4891 Aug 06 13:57 4891 Aug 20 19:01	0°≈ 0°¥ 0°Y 0°8 26°843'41 0°II 0°© 0°A 0°M 9°M33'32 27°M40'29 0°£ 7°£34'38	
morning max el asc. node  desc. node	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Nov 27 06:24 4888 Dec 22 01:27 4889 Jan 15 09:11 4889 Feb 08 10:58 4889 Feb 15 12:14 4889 Mar 04 09:50	20°\$34'10 16°\$03'15 17°\$51'52 0°\$ 15°\$45'24 0°\$ 23°\$32'01 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 8°\$\$49'19 0°\$		asc. node  evening max el desc. node  greatest brilliancy retrograde	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06 4891 Jul 13 08:16 4891 Aug 03 07:21 4891 Aug 06 13:57 4891 Aug 20 19:01 4891 Aug 31 01:15	0°≈ 0°∀ 0°∀ 0°∀ 26°∀43'41 0°Ⅲ 0°№ 0°№ 9°™ 9°™ 9°™ 9°™ 40'29 0°₽ 7°₽34'38 9°₽28'14	
morning max el asc. node	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Nov 27 06:24 4888 Dec 22 01:27 4889 Jan 15 09:11 4889 Feb 08 10:58 4889 Feb 15 12:14 4889 Mar 04 09:50 4889 Mar 24 04:31	20°\$34'10 16°\$03'15 17°\$51'52 0°\$\Omega\$ 15°\$\Omega\$45'24 0°\$\Omega\$ 23°\$\Omega\$32'01 0°\$\Omega\$ 0°\$\Omega\$ 0°\$\Omega\$ 8°\$\approx\$49'19 0°\$\H\$ 24°\$\H\$48'44		evening max el desc. node greatest brilliancy retrograde evening set	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06 4891 Jul 13 08:16 4891 Aug 03 07:21 4891 Aug 06 13:57 4891 Aug 20 19:01 4891 Aug 31 01:15 4891 Sep 17 20:19	0°≈ 0°∀ 0°∀ 0°∀ 26°∀43'41 0°∏ 0°Ω 0°Ω 0°M 9°M33'32 27°M40'29 0°Ω 7°Ω34'38 9°Ω28'14 3°Ω33'42	-4.7m
morning max el asc. node  desc. node	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Nov 27 06:24 4888 Dec 22 01:27 4889 Jan 15 09:11 4889 Feb 08 10:58 4889 Feb 15 12:14 4889 Mar 04 09:50 4889 Mar 24 04:31 4889 Mar 28 07:47	20°\$34'10 16°\$03'15 17°\$51'52 0°\$\Omega\$ 15°\$\Omega\$45'24 0°\$\Omega\$ 23°\$\Omega\$32'01 0°\$\Omega\$ 0°\$\Omega\$ 0°\$\Omega\$ 8°\$\approx\$49'19 0°\$\Omega\$ 24°\$\Cap\$48'44 0°\$\V\$		evening max el desc. node greatest brilliancy retrograde evening set inferior conj	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06 4891 Jul 13 08:16 4891 Aug 03 07:21 4891 Aug 06 13:57 4891 Aug 20 19:01 4891 Aug 31 01:15 4891 Sep 17 20:19 4891 Sep 21 13:27	0°≈ 0°∀ 0°∀ 0°∀ 26°∀43'41 0°∏ 0°Ω 0°Ω 0°M 9°M;33'32 27°M;40'29 0°Ω 7°Ω34'38 9°Ω28'14 3°Ω33'42 1°Ω16'00	-4.7m -8°24'32
morning max el asc. node  desc. node	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Nov 27 06:24 4888 Dec 22 01:27 4889 Jan 15 09:11 4889 Feb 08 10:58 4889 Feb 15 12:14 4889 Mar 04 09:50 4889 Mar 24 04:31	20°\$34'10 16°\$03'15 17°\$51'52 0°\$\Omega\$ 15°\$\Omega\$45'24 0°\$\Omega\$ 23°\$\Omega\$32'01 0°\$\Omega\$ 0°\$\Omega\$ 0°\$\Omega\$ 8°\$\approx\$49'19 0°\$\H\$ 24°\$\H\$48'44		evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06 4891 Jul 13 08:16 4891 Aug 03 07:21 4891 Aug 06 13:57 4891 Aug 20 19:01 4891 Aug 31 01:15 4891 Sep 17 20:19 4891 Sep 21 13:27 4891 Sep 21 09:11	0°≈ 0°∀ 0°∀ 0°∀ 26°∀43'41 0°∏ 0°Ω 0°Ω 0°™ 9°™33'32 27°™40'29 0°Ω 7°Ω34'38 9°Ω28'14 3°Ω33'42 1°Ω16'00 1°Ω22'41	-4.7m -8°24'32 8°24'16
morning max el asc. node  desc. node  morning set	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Nov 27 06:24 4888 Dec 22 01:27 4889 Jan 15 09:11 4889 Feb 08 10:58 4889 Feb 15 12:14 4889 Mar 04 09:50 4889 Mar 24 04:31 4889 Mar 28 07:47 4889 Apr 21 06:37	20°\$34'10 16°\$03'15 17°\$51'52 0°\$\Omega\$ 15°\$\Omega\$45'24 0°\$\Omega\$ 23°\$\Omega\$32'01 0°\$\Omega\$ 0°\$\N\$ 0°\$\S\$ 0°\$\S\$ 8°\$\approx\$49'19 0°\$\H\$ 24°\$\H\$48'44 0°\$\V\$ 0°\$\S\$	45°43'23	evening max el desc. node greatest brilliancy retrograde evening set inferior conj	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06 4891 Jul 13 08:16 4891 Aug 03 07:21 4891 Aug 06 13:57 4891 Aug 20 19:01 4891 Aug 31 01:15 4891 Sep 17 20:19 4891 Sep 21 13:27 4891 Sep 21 09:11 4891 Sep 21 17:58	0°≈ 0° X 0° Y 0° 8 26° 843'41 0° II 0° © 0° Ω 0° M 9° M 33'32 27° M 40'29 0° Ω 7° Ω 34'38 9° Ω 28'14 3° Ω 33'42 1° Ω 16'00 1° Ω 22'41 1° Ω 08'55	-4.7m -8°24'32 8°24'16
morning max el asc. node  desc. node  morning set	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Nov 27 06:24 4888 Dec 22 01:27 4889 Jan 15 09:11 4889 Feb 08 10:58 4889 Feb 15 12:14 4889 Mar 04 09:50 4889 Mar 24 04:31 4889 Mar 28 07:47 4889 Apr 21 06:37	20°\$34'10 16°\$03'15 17°\$51'52 0°\$\Omega\$ 15°\$\Omega\$45'24 0°\$\Omega\$ 23°\$\Omega\$32'01 0°\$\Omega\$ 0°\$\M\$ 0°\$\S^* 0°\$\S\$ 0°\$\S\$ 8°\$\approx\$49'19 0°\$\H\$ 24°\$\H\$48'44 0°\$\Omega\$ 15°\$\S\$01'59	45°43'23 -1°13'28	evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06 4891 Jul 13 08:16 4891 Aug 03 07:21 4891 Aug 06 13:57 4891 Aug 20 19:01 4891 Aug 31 01:15 4891 Sep 17 20:19 4891 Sep 21 13:27 4891 Sep 21 09:11 4891 Sep 21 17:58 4891 Sep 23 14:01	0°≈ 0° % 0° % 0° % 0° % 0° % 0° % 0° % 0	-4.7m -8°24'32 8°24'16
morning max el asc. node  desc. node  morning set  superior conj minimum elong	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Nov 27 06:24 4888 Dec 22 01:27 4889 Jan 15 09:11 4889 Feb 08 10:58 4889 Feb 15 12:14 4889 Mar 04 09:50 4889 Mar 24 04:31 4889 Mar 28 07:47 4889 Apr 21 06:37  4889 May 03 07:31 4889 May 03 17:35	20°\$34'10 16°\$03'15 17°\$51'52 0°\$\Pi\$ 15°\$\Pi\$45'24 0°\$\Pi\$ 23°\$\Pi\$32'01 0°\$\Pi\$ 0°\$\Pi\$ 0°\$\Pi\$ 0°\$\Pi\$ 24°\$\Pi\$48'44 0°\$\Pi\$ 0°\$\Pi\$ 15°\$\Pi\$33'21	-1°13'28 1°13'12	evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06 4891 Jul 13 08:16 4891 Aug 03 07:21 4891 Aug 06 13:57 4891 Aug 20 19:01 4891 Aug 31 01:15 4891 Sep 17 20:19 4891 Sep 21 13:27 4891 Sep 21 13:27 4891 Sep 21 17:58 4891 Sep 23 14:01 4891 Sep 24 21:57	0°≈ 0° H 0°Y 0°8 26°843'41 0° II 0°® 0° R 0° M 9° M33'32 27° M40'29 0° Ω 7° Ω34'38 9° Ω28'14 3° Ω33'42 1° Ω16'00 1° Ω22'41 1° Ω08'55 30° R M 29° M10'56	-4.7m -8°24'32 8°24'16
morning max el asc. node  desc. node  morning set	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Nov 27 06:24 4888 Dec 22 01:27 4889 Jan 15 09:11 4889 Feb 08 10:58 4889 Feb 15 12:14 4889 Mar 04 09:50 4889 Mar 24 04:31 4889 Mar 28 07:47 4889 May 03 07:31 4889 May 03 07:31 4889 May 03 17:35 4889 May 07 04:10	20°\$34'10 16°\$03'15 17°\$51'52 0°\$\alpha\$ 15°\$\alpha\$45'24 0°\$\bar{n}\$ 23°\$\bar{n}\$32'01 0°\$\alpha\$ 0°\$\bar{n}\$ 0°\$\bar{n}\$ 0°\$\bar{n}\$ 24°\$\bar{n}\$48'44 0°\$\bar{n}\$ 0°\$\bar{n}\$ 24°\$\bar{n}\$48'44 0°\$\bar{n}\$ 15°\$\bar{n}\$33'21 19°\$\bar{n}\$50'45	45°43'23 -1°13'28	asc. node  evening max el desc. node  greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.  morning rise direct	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06 4891 Jul 13 08:16 4891 Aug 03 07:21 4891 Aug 06 13:57 4891 Aug 06 13:57 4891 Aug 31 01:15 4891 Sep 17 20:19 4891 Sep 21 13:27 4891 Sep 21 17:58 4891 Sep 23 14:01 4891 Sep 24 21:57 4891 Oct 13 03:40	0°≈ 0° H 0° Y 0° Y 0° B 26° 843'41 0° II 0° © 0° Ω 0° M 9° M 33'32 27° M 40'29 0° Ω 7° Ω 34'38 9° Ω 28'14 3° Ω 33'42 1° Ω 16'00 1° Ω 22'41 1° Ω 08'55 30° R M 29° M 10'56 22° M 57'54	-4.7m -8°24'32 8°24'16 0.29063 AU
morning max el asc. node  desc. node  morning set  superior conj minimum elong max. Earth dist.	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Nov 27 06:24 4888 Dec 22 01:27 4889 Jan 15 09:11 4889 Feb 08 10:58 4889 Feb 15 12:14 4889 Mar 04 09:50 4889 Mar 24 04:31 4889 Mar 28 07:47 4889 Apr 21 06:37  4889 May 03 07:31 4889 May 03 07:31 4889 May 07 04:10 4889 May 07 04:10 4889 May 07 04:10	20°\$34'10 16°\$03'15 17°\$51'52 0°\$\alpha\$ 15°\$\alpha\$45'24 0°\$\bar{\text{m}}\$ 23°\$\bar{\text{m}}\$32'01 0°\$\alpha\$ 0°\$\bar{\text{m}}\$ 0°\$\bar{\text{m}}\$ 0°\$\bar{\text{m}}\$ 24°\$\bar{\text{m}}\$48'44 0°\$\bar{\text{m}}\$ 0°\$\bar{\text{m}}\$ 24°\$\bar{\text{m}}\$48'44 0°\$\bar{\text{m}}\$ 15°\$\bar{\text{m}}\$33'21 19°\$\bar{\text{m}}\$50'45 0°\$\bar{\text{m}}\$	-1°13'28 1°13'12	evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06 4891 Jul 13 08:16 4891 Aug 03 07:21 4891 Aug 06 13:57 4891 Aug 06 13:57 4891 Aug 31 01:15 4891 Sep 17 20:19 4891 Sep 21 13:27 4891 Sep 21 13:27 4891 Sep 21 17:58 4891 Sep 24 21:57 4891 Oct 13 03:40 4891 Oct 23 19:54	0°≈ 0° H 0° Y 0° Y 0° B 26° B 43'41 0° II 0° © 0° Q 0° M 9° M 33'32 27° M 40'29 0° Ω 7° Ω 34'38 9° Ω 28'14 3° Ω 33'42 1° Ω 16'00 1° Ω 22'41 1° Ω 08'55 30° R M 29° M 10'56 22° M 57'54 25° M 01'46	-4.7m -8°24'32 8°24'16 0.29063 AU
morning max el asc. node  desc. node  morning set  superior conj minimum elong	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Nov 27 06:24 4888 Dec 22 01:27 4889 Jan 15 09:11 4889 Feb 08 10:58 4889 Feb 15 12:14 4889 Mar 04 09:50 4889 Mar 24 04:31 4889 Mar 24 04:31 4889 Mar 28 07:47 4889 Apr 21 06:37  4889 May 03 07:31 4889 May 03 07:31 4889 May 07 04:10 4889 May 15 07:55 4889 Jun 08 14:01	20°\$34'10 16°\$03'15 17°\$51'52 0°\$\alpha\$ 15°\$\alpha\$45'24 0°\$\bar{n}\$ 23°\$\bar{n}\$32'01 0°\$\alpha\$ 0°\$\alpha\$ 0°\$\alpha\$ 8°\$\alpha\$49'19 0°\$\alpha\$ 24°\$\alpha\$48'44 0°\$\bar{n}\$ 0°\$\alpha\$ 15°\$\alpha\$33'21 19°\$\alpha\$50'45 0°\$\bar{n}\$	-1°13'28 1°13'12	evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06 4891 Jul 13 08:16 4891 Aug 03 07:21 4891 Aug 06 13:57 4891 Aug 06 13:57 4891 Aug 31 01:15 4891 Sep 17 20:19 4891 Sep 21 13:27 4891 Sep 21 13:27 4891 Sep 21 17:58 4891 Sep 21 17:58 4891 Sep 24 21:57 4891 Oct 13 03:40 4891 Oct 23 19:54 4891 Nov 02 17:22	0°≈ 0° H 0° Y 0° B 26° B 43'41 0° II 0° S 0° A 0° M 9° M 33'32 27° M 40'29 0° S 28'14 3° S 33'42 1° S 16'00 1° S 22'41 1° S 08'55 30° R M 29° M 10'56 22° M 57'54 25° M 01'46 0° S	-4.7m -8°24'32 8°24'16 0.29063 AU
morning max el asc. node  desc. node  morning set  superior conj minimum elong max. Earth dist. asc. node	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 20 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Nov 27 06:24 4888 Dec 22 01:27 4889 Jan 15 09:11 4889 Feb 08 10:58 4889 Feb 15 12:14 4889 Mar 04 09:50 4889 Mar 24 04:31 4889 Mar 24 04:31 4889 Mar 28 07:47 4889 Apr 21 06:37  4889 May 03 07:31 4889 May 03 07:31 4889 May 03 07:55 4889 May 15 07:55 4889 Jun 08 14:01 4889 Jun 08 12:42	20°\$34'10 16°\$03'15 17°\$51'52 0°\$\Omega\$ 15°\$\Omega\$45'24 0°\$\Omega\$ 23°\$\Omega\$32'01 0°\$\Omega\$ 0°\$\S\$ 0°\$\S\$ 0°\$\S\$ 8°\$\S\$49'19 0°\$\H\$ 24°\$\H\$48'44 0°\$\Omega\$ 15°\$\S\$33'21 19°\$\S\$50'45 0°\$\II 0°\$\S\$04'05 0°\$\S\$	-1°13'28 1°13'12	evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06 4891 Jul 13 08:16 4891 Aug 03 07:21 4891 Aug 06 13:57 4891 Aug 20 19:01 4891 Aug 31 01:15 4891 Sep 17 20:19 4891 Sep 21 13:27 4891 Sep 21 13:27 4891 Sep 21 17:58 4891 Sep 21 17:58 4891 Sep 24 21:57 4891 Oct 13 03:40 4891 Oct 23 19:54 4891 Nov 02 17:22 4891 Nov 24 09:04	0°≈ 0° \( \) 0° \( \) 0° \( \) 0° \( \) 26° \( \) 43'41 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 27° \( \) 40'29 0° \( \) 27° \( \) 40'29 0° \( \) 28' \( \) 43'438 9° \( \) 28'14 3° \( \) 33'42 1° \( \) 216'00 1° \( \) 22'41 1° \( \) 208'55 30° \( \) \( \) 10'56 22° \( \) 57'54 25° \( \) 001'46 0° \( \) 210'27	-4.7m -8°24'32 8°24'16 0.29063 AU -4.8m
morning max el asc. node  desc. node  morning set  superior conj minimum elong max. Earth dist.	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 02 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Nov 27 06:24 4888 Dec 22 01:27 4889 Jan 15 09:11 4889 Feb 08 10:58 4889 Feb 15 12:14 4889 Mar 04 09:50 4889 Mar 24 04:31 4889 Mar 28 07:47 4889 Apr 21 06:37  4889 May 03 07:31 4889 May 03 07:31 4889 May 03 07:55 4889 May 15 07:55 4889 Jun 08 14:01 4889 Jun 08 12:42 4889 Jun 11 09:23	20°334'10 16°903'15 17°951'52 0° N 15° N45'24 0° M 23° M32'01 0° A 0° N 0° N 0° N 0° N 24° X48'44 0° Y 0° N 15° Y33'21 19° Y50'45 0° I 0° 904'05 0° 932'07	-1°13'28 1°13'12	evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06 4891 Jul 13 08:16 4891 Aug 03 07:21 4891 Aug 06 13:57 4891 Aug 20 19:01 4891 Aug 31 01:15 4891 Sep 17 20:19 4891 Sep 21 13:27 4891 Sep 21 13:27 4891 Sep 21 17:58 4891 Sep 21 17:58 4891 Sep 23 14:01 4891 Sep 24 21:57 4891 Oct 13 03:40 4891 Oct 23 19:54 4891 Nov 02 17:22 4891 Nov 24 09:04 4891 Dec 01 19:18	0°≈ 0° \( \) 0° \( \) 0° \( \) 0° \( \) 26° \( \) 43'41 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 27° \( \) 40'29 0° \( \) 28'14 3° \( \) 23'42 1° \( \) 16'00 1° \( \) 22'41 1° \( \) 208'55 30° \( \) \( \) 10'56 22° \( \) 57'54 25° \( \) 001'46 0° \( \) 21'0'27 24° \( \) 21'27 24° \( \) 21'27	-4.7m -8°24'32 8°24'16 0.29063 AU -4.8m
morning max el asc. node  desc. node  morning set  superior conj minimum elong max. Earth dist. asc. node	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 02 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Nov 27 06:24 4888 Dec 22 01:27 4889 Jan 15 09:11 4889 Feb 08 10:58 4889 Feb 15 12:14 4889 Mar 04 09:50 4889 Mar 24 04:31 4889 Mar 24 04:31 4889 Mar 28 07:47 4889 Apr 21 06:37  4889 May 03 07:31 4889 May 03 07:35 4889 May 07 04:10 4889 May 15 07:55 4889 Jun 08 12:42 4889 Jun 08 12:42 4889 Jun 11 09:23 4889 Jul 02 21:16	20°334'10 16°303'15 17°351'52 0° N 15° N45'24 0° M 23° M 32'01 0° A 0° N 0° N 0° N 24° H 48'44 0° Y 0° B 15° B 33'21 19° B 50'45 0° M 0° M 0° M 0° M 24° H 48'44 0° Y 0° B 15° B 33'21 19° B 50'45 0° M	-1°13'28 1°13'12	evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06 4891 Jul 13 08:16 4891 Aug 03 07:21 4891 Aug 06 13:57 4891 Aug 20 19:01 4891 Aug 31 01:15 4891 Sep 17 20:19 4891 Sep 21 13:27 4891 Sep 21 13:27 4891 Sep 21 17:58 4891 Sep 21 17:58 4891 Sep 23 14:01 4891 Sep 24 21:57 4891 Oct 13 03:40 4891 Oct 23 19:54 4891 Nov 02 17:22 4891 Nov 04 09:04 4891 Dec 01 19:18 4891 Dec 07 10:20	0°≈ 0° % 0° % 0° % 0° % 0° % 0° % 0° % 0	-4.7m -8°24'32 8°24'16 0.29063 AU -4.8m
morning max el asc. node  desc. node  morning set  superior conj minimum elong max. Earth dist. asc. node	4888 Jul 18 22:51 4888 Aug 03 06:05 4888 Aug 13 06:23 4888 Sep 02 23:02 4888 Sep 02 23:46 4888 Oct 05 05:14 4888 Oct 26 21:21 4888 Nov 01 14:25 4888 Nov 27 06:24 4888 Dec 22 01:27 4889 Jan 15 09:11 4889 Feb 08 10:58 4889 Feb 15 12:14 4889 Mar 04 09:50 4889 Mar 24 04:31 4889 Mar 28 07:47 4889 Apr 21 06:37  4889 May 03 07:31 4889 May 03 07:31 4889 May 03 07:55 4889 May 15 07:55 4889 Jun 08 14:01 4889 Jun 08 12:42 4889 Jun 11 09:23	20°334'10 16°903'15 17°951'52 0° N 15° N45'24 0° M 23° M32'01 0° A 0° N 0° N 0° N 0° N 24° X48'44 0° Y 0° N 15° Y33'21 19° Y50'45 0° I 0° 904'05 0° 932'07	-1°13'28 1°13'12	evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	4891 Jan 09 22:26 4891 Feb 02 20:55 4891 Feb 26 20:07 4891 Mar 22 22:46 4891 Apr 13 16:20 4891 Apr 16 08:43 4891 May 11 07:11 4891 Jun 06 02:57 4891 Jul 03 18:06 4891 Jul 13 08:16 4891 Aug 03 07:21 4891 Aug 06 13:57 4891 Aug 20 19:01 4891 Aug 31 01:15 4891 Sep 17 20:19 4891 Sep 21 13:27 4891 Sep 21 13:27 4891 Sep 21 17:58 4891 Sep 21 17:58 4891 Sep 23 14:01 4891 Sep 24 21:57 4891 Oct 13 03:40 4891 Oct 23 19:54 4891 Nov 02 17:22 4891 Nov 24 09:04 4891 Dec 01 19:18	0°≈ 0° \( \) 0° \( \) 0° \( \) 0° \( \) 26° \( \) 43'41 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 27° \( \) 40'29 0° \( \) 28'14 3° \( \) 23'42 1° \( \) 16'00 1° \( \) 22'41 1° \( \) 208'55 30° \( \) \( \) 10'56 22° \( \) 57'54 25° \( \) 001'46 0° \( \) 21'0'27 24° \( \) 21'27 24° \( \) 21'27	-4.7m -8°24'32 8°24'16 0.29063 AU -4.8m

	4892 Feb 23 01:15	0° <b>≈</b>			4894 Oct 05 12:23	0° <b>∡</b> ¹	
desc. node	4892 Mar 15 00:03	25° <b>≈</b> 47'04		greatest brilliancy	4894 Nov 01 12:29	16° <b>∡</b> 57'54	-4.8m
	4892 Mar 18 09:55	0° <b>∀</b>		retrograde	4894 Nov 10 18:21	18° <b>∡</b> '31'52	
	4892 Apr 11 14:41	$_{0}$ ° $\gamma$		evening set	4894 Nov 26 11:39	13° <b>∡</b> ¹46'53	
	4892 May 05 18:35	0°8		inferior conj	4894 Dec 01 15:43	10° <b>∡</b> ′42'48	-4°50'02
	4892 May 29 23:33	0°II		minimum elong	4894 Dec 02 01:09	10° <b>х</b> 28′19	
morning set	4892 Jun 05 17:24	8° <b>Ⅱ</b> 20'31		min. Earth dist.	4894 Dec 02 13:33	10° × 2019	
morning set	4892 Jun 23 06:20	0°95		morning rise	4894 Dec 07 13:55	7°×7'12'12	0.27477 AO
asc. node	4892 Jul 06 01:55	15° <b>©</b> 48'07		asc. node	4894 Dec 21 20:55	2° <b>×</b> <sup>7</sup> 44'37	
asc. nouc	4692 Jul 00 01.33	15 34807		direct			
	4002 I 1 12 00 46	240646121	0017122		4894 Dec 22 15:01	2° ×7 43'56	4.0
superior conj	4892 Jul 13 08:46	24°5946'31		greatest brilliancy	4895 Jan 02 18:11	5° <b>∡</b> 03'31	-4.9m
minimum elong	4892 Jul 13 05:06	24°935'12			4895 Feb 05 07:36	0°る	
max. Earth dist.	4892 Jul 14 11:43	26° <b>©</b> 09'30	1.73313 AU	morning max el	4895 Feb 11 07:24	5° <b>る</b> 56'44	46°55'54
	4892 Jul 17 14:37	$0 {\circ} \Omega$			4895 Mar 05 16:42	0° <b>≈</b>	
	4892 Aug 10 23:47	0° <b>m</b> p			4895 Mar 31 16:48	0° <b>∀</b>	
evening rise	4892 Aug 18 18:34	9° <b>™</b> 34'00		desc. node	4895 Apr 12 11:58	13° <b>¥</b> 59'51	
	4892 Sep 04 09:44	0∘ <b>⊽</b>			4895 Apr 25 20:10	$0$ ° $\Upsilon$	
	4892 Sep 28 21:14	$0^{\circ}$ M.			4895 May 20 14:47	$0^{\circ}$ 8	
	4892 Oct 23 11:16	0° <b>∡</b> ¹			4895 Jun 14 06:01	$\Pi^{\circ}0$	
desc. node	4892 Oct 25 16:46	2° <b>∡</b> ¹42'47			4895 Jul 08 20:00	0°9	
	4892 Nov 17 04:43	8°0			4895 Aug 02 08:52	$0^{\circ}\Omega$	
	4892 Dec 12 03:02	0° <b>≈</b>		asc. node	4895 Aug 03 13:47	1° <b>Ω</b> 28'33	
	4893 Jan 06 10:59	0° <b>∀</b>		morning set	4895 Aug 14 14:53	15° <b>Ω</b> 00'42	
	4893 Feb 01 19:10	0° <b>Υ</b>		morning sec	4895 Aug 26 19:48	0° m)	
asc. node	4893 Feb 15 18:39	14° <b>Υ</b> 54'42		max. Earth dist.	4895 Sep 18 05:50	27° Mp 36'27	1.73254 AU
evening max el	4893 Feb 17 16:50	16° <b>Υ</b> 52'47	47°07'35	max. Larm dist.	4075 Sep 10 05.50	27 1193027	1.73234 AO
evening max er		0° <b>8</b>	47 0733	aumanian aani	1905 Can 20 02:45	200 m 55102	1922100
4 41 311	4893 Mar 03 08:08	_	4.0	superior conj	4895 Sep 20 02:45	29° m 55'03	
greatest brilliancy	4893 Mar 30 07:14	18° <b>8</b> 17'09	-4.9m	minimum elong	4895 Sep 19 22:36	29° m/42'14	1°22'58
retrograde	4893 Apr 09 10:53	20° <b>8</b> 14'40			4895 Sep 20 04:21	0∘ <b>⊽</b>	
evening set	4893 Apr 26 19:50	14° <b>8</b> 24'58			4895 Oct 14 11:01	0° <b>M</b>	
inferior conj	4893 Apr 30 10:17	12° <b>8</b> 11'48	7°48'11	evening rise	4895 Oct 26 18:07	15°M13'03	
minimum elong	4893 Apr 30 19:28	11° <b>8</b> 57'28	7°46'46		4895 Nov 07 16:42	0° <b>∡</b> ¹	
min. Earth dist.	4893 Apr 30 06:43	12° <b>8</b> 17'22	0.27700 AU	desc. node	4895 Nov 23 04:43	19° <b>∡</b> 11'39	
morning rise	4893 May 04 19:18	9° <b>8</b> 31'30			4895 Dec 01 22:07	0° <b>ප</b>	
direct	4893 May 21 06:14	4° <b>8</b> 16'14			4895 Dec 26 03:38	0° <b>≈</b>	
greatest brilliancy	4893 May 30 21:07	5° <b>8</b> 58'32	-4.8m		4896 Jan 19 10:10	0° <b>)</b> €	
desc. node	4893 Jun 07 09:25	9° <b>8</b> 19'39			4896 Feb 12 20:39	$0$ ° $\Upsilon$	
	4893 Jul 04 07:21	$\Pi^{\circ}0$			4896 Mar 08 17:30	0°8	
morning max el	4893 Jul 09 11:49	4° <b>Ⅱ</b> 54'23	45°58'13	asc. node	4896 Mar 15 06:22	7° <b>8</b> 44'00	
<i>S</i>	4893 Aug 02 21:20	0°50			4896 Apr 03 13:28	0°II	
	4893 Aug 29 20:16	$0^{\circ}\Omega$		evening max el	4896 Apr 30 10:18	28° <b>∏</b> 42'29	46°19'55
	4893 Sep 24 15:39	0° mp		evening man er	4896 May 01 17:42	0.8e	10 19 00
asc. node	4893 Sep 28 11:26	4° mp 31'32		greatest brilliancy	4896 Jun 08 00:35	28° <b>©</b> 01'52	-4 8m
asc. nouc	4893 Oct 19 17:38	0° <b>⊽</b>		greatest offinality	4896 Jun 15 06:13	28 <b>3</b> 01 32 0° <b>Ω</b>	-4.0111
		0°M		ratrograda	4896 Jun 19 03:41	0° <b>Ω</b> 17'36	
	4893 Nov 13 07:27			retrograde			
	4893 Dec 07 13:11	0° <b>∡</b>			4896 Jun 22 23:16	30°Rூ	
	4893 Dec 31 14:00	0°る		evening set	4896 Jul 04 02:55	25°\$53'31	
morning set	4894 Jan 03 22:12	4° <b>る</b> 11'03		desc. node	4896 Jul 04 21:28	25° <b>©</b> 27'36	
desc. node	4894 Jan 18 02:23	21° <b>る</b> 57'42		min. Earth dist.	4896 Jul 10 02:47	22° <b>©</b> 18'02	
	4894 Jan 24 12:00	0° <b>≈</b>		inferior conj	4896 Jul 10 12:14	22° <b>©</b> 03'14	-1°20'57
				minimum elong	4896 Jul 10 09:15	22° <b>©</b> 07'55	1°20'05
superior conj	4894 Feb 13 21:18	25° <b>≈</b> 38′08	-0°59'01	morning rise	4896 Jul 16 16:09	18° <b>©</b> 21'47	
minimum elong	4894 Feb 13 09:21	25° <b>≈</b> 00'31	0°58'35	direct	4896 Jul 31 22:12	13° <b>©</b> 53'21	
max. Earth dist.	4894 Feb 13 14:11	25° <b>≈</b> 15'45	1.71140 AU	greatest brilliancy	4896 Aug 10 20:59	15° <b>©</b> 40'59	-4.7m
	4894 Feb 17 08:33	0° <b>)</b> €			4896 Sep 03 08:13	$0^{\circ}\Omega$	
	4894 Mar 13 05:02	$0^{\circ}$ Y		morning max el	4896 Sep 18 15:38	13° <b>Ω</b> 36′12	45°43'01
evening rise	4894 Mar 26 19:32	17° <b>Ƴ</b> 04'32			4896 Oct 04 22:46	0° m/	
J	4894 Apr 06 03:17	0°8		asc. node	4896 Oct 25 23:21	22° m 57'10	
	4894 Apr 30 05:22	0°II			4896 Nov 01 04:17	0° <b>⊽</b>	
asc. node	4894 May 11 04:12	13° <b>∏</b> 32'44			4896 Nov 26 18:47	0° <b>m</b> .	
abe. Hode	4894 May 24 13:20	0°9			4896 Dec 21 13:08	0° <b>⊼</b> ¹	
	•	0°Ω				0°る	
	4894 Jun 18 05:12				4897 Jan 14 20:32		
	4894 Jul 13 08:14	0° <b>m</b> 0° <b>0</b>		J 1	4897 Feb 07 22:08	0°≈ 8°≈ •20140	
	4894 Aug 08 05:05	0∘ <b>⊽</b>		desc. node	4897 Feb 14 14:13	8°≈20'49	
desc. node	4894 Aug 30 19:03	25° <b>Ω</b> 00'22			4897 Mar 03 20:51	0° <b>)</b> {	
_	4894 Sep 04 11:39	0°M		morning set	4897 Mar 21 14:57	22° <b>)</b> 16'47	
evening max el	4894 Sep 22 19:31	18°M30'55	45°48'54		4897 Mar 27 18:40	$0$ ° $\Upsilon$	

	4897 Apr 20 17:23	0°8		inferior conj	4899 Sep 19 05:35	29° <b>m</b> 06'03	-8°19'42
	40)/ Apr 20 17.23	٠ <b>٠</b>		minimum elong	4899 Sep 19 00:37	29° m 13'50	8°19'20
superior conj	4897 Apr 30 20:13	12° <b>8</b> 38'20	-1°15'24	min. Earth dist.	4899 Sep 19 09:22	29° m 00'08	0.29082 AU
minimum elong	4897 May 01 05:54	13° <b>8</b> 08'33		morning rise	4899 Sep 22 15:20	26° m 59'10	
max. Earth dist.	4897 May 04 19:34	17° <b>8</b> 35'41	1.72007 AU	direct	4899 Oct 10 19:24	20° <b>m</b> 47'36	
	4897 May 14 18:37	$\Pi^{\circ}0$		greatest brilliancy	4899 Oct 21 12:10	22° m 51'35	-4.8m
asc. node	4897 Jun 07 16:08	29° <b>Ⅲ</b> 37′30			4899 Nov 03 17:59	0∘ <b>⊽</b>	
	4897 Jun 07 23:25	$0$ $\circ$ $\odot$		asc. node	4899 Nov 23 11:07	16° <b>≏</b> 17'25	
evening rise	4897 Jun 09 00:31	1° <b>5</b> 17'34		morning max el	4899 Nov 29 09:58	22° <b>ჲ</b> 02'16	46°14'58
	4897 Jul 02 08:05	$0^{\circ}\Omega$			4899 Dec 07 05:55	$0^{\circ}$ M	
	4897 Jul 26 20:58	0° <b>™</b>			4900 Jan 03 10:25	0°⊀	
	4897 Aug 20 15:15	0∘ <b>亚</b>			4900 Jan 28 20:56	0°ಕ	
	4897 Sep 14 17:26	0°M			4900 Feb 22 13:31	0° <b>≈</b>	
desc. node	4897 Sep 27 06:53	14°M48'41		desc. node	4900 Mar 15 02:01	25°≈16'39	
	4897 Oct 10 07:37	0° <b>∡</b>			4900 Mar 18 21:40	0° <b>∀</b> 0° <b>Υ</b>	
	4897 Nov 05 17:48	0°る 0°≈			4900 Apr 12 02:06		
avanina may al	4897 Dec 04 00:39 4897 Dec 04 17:39	0°≈42'13	46°45'56		4900 May 06 05:46	0°Ⅱ 8°0	
evening max el	4898 Jan 11 01:52	0 <b>≈</b> 42 13 0° <b>H</b>	40 43 30	morning set	4900 May 30 10:33 4900 Jun 04 08:40	6° <b>П</b> 05'29	
greatest brilliancy	4898 Jan 13 23:09	0 X 1° <b>¥</b> 10′04	-4.9m	morning set	4900 Jun 23 17:10	0°99	
asc. node	4898 Jan 18 08:51	2° <del>)(</del> 26'23	-4.7111	asc. node	4900 Jul 06 03:55	15° <b>9</b> 21'05	
retrograde	4898 Jan 23 23:18	3° <b>¥</b> 02'58		use. Houe	1700 341 00 03.22	15 -21 05	
Tourogrado	4898 Feb 05 06:12	30°R≈		superior conj	4900 Jul 12 01:32	22° <b>©</b> 37'15	0°14'07
evening set	4898 Feb 08 03:45	28° <b>≈</b> 29'46		minimum elong	4900 Jul 11 22:31	22° <b>©</b> 27'58	0°13'57
min. Earth dist.	4898 Feb 13 00:41	25° <b>≈</b> 36'33	0.26710 AU	behind sun begin	4900 Jul 11 11:20	21° <b>©</b> 53'32	
inferior conj	4898 Feb 13 12:41	25° <b>≈</b> 18′07	6°12'20	behind sun end	4900 Jul 12 09:42	23°502'24	
minimum elong	4898 Feb 13 01:51	25° <b>≈</b> 34'45	6°09'46	max. Earth dist.	4900 Jul 13 05:48	24° <b>©</b> 04'19	1.73288 AU
morning rise	4898 Feb 18 00:08	22° <b>≈</b> 37'16			4900 Jul 18 01:21	$0^{\circ}\Omega$	
direct	4898 Mar 06 00:35	17° <b>≈</b> 37′23			4900 Aug 11 10:32	0° <b>™</b>	
greatest brilliancy	4898 Mar 15 11:41	19° <b>≈</b> 19′20	-4.9m	evening rise	4900 Aug 17 12:45	7° <b>m</b> 29'15	
	4898 Apr 02 20:43	0° <b>∀</b>			4900 Sep 04 20:39	0∘ <b>亚</b>	
morning max el	4898 Apr 25 05:52	20° <b>)</b> €05'17	46°44'27		4900 Sep 29 08:26	0°M	
	4898 May 04 21:54	0° <b>Υ</b>			4900 Oct 23 22:53	0° <b>₹</b>	
desc. node	4898 May 09 23:48	5° <b>Υ</b> 23'31		desc. node	4900 Oct 25 18:51	2°渘13'37 0°る	
	4898 Jun 01 05:00 4898 Jun 27 04:24	0°B 0°B			4900 Nov 17 16:57 4900 Dec 12 16:11	0° <b>≈</b>	
	4898 Jul 22 14:16	0°9			4900 Dec 12 10:11 4901 Jan 07 01:44	0 <b>∞</b> 0° <b>∀</b>	
	4898 Aug 16 16:00	0° <b>U</b>			4901 Feb 02 13:20	0° <b>Υ</b>	
asc. node	4898 Aug 31 01:31	17° <b>Ω</b> 23'15		asc. node	4901 Feb 15 20:32	14° <b>Υ</b> 03'48	
	4898 Sep 10 10:48	0° mp		evening max el	4901 Feb 16 06:26	14° <b>Υ</b> 28'57	47°08'16
	4898 Oct 04 23:03	0∘ <del>⊽</del>		C	4901 Mar 04 14:46	0°8	
morning set	4898 Oct 21 23:45	21° <b>ჲ</b> 00'45		greatest brilliancy	4901 Mar 28 21:56	15° <b>8</b> 56'14	-4.9m
	4898 Oct 29 05:54	0°M		retrograde	4901 Apr 08 01:28	17° <b>8</b> 54'03	
	4898 Nov 22 09:02	0°⊀		evening set	4901 Apr 25 13:04	11° <b>8</b> 59'40	
max. Earth dist.	4898 Nov 25 12:08	3° <b>₹</b> 54'02	1.72092 AU	inferior conj	4901 Apr 29 00:28	9° <b>8</b> 51'22	
				minimum elong	4901 Apr 29 09:12	9° <b>8</b> 37'46	7°57'56
superior conj	4898 Nov 28 11:09	7° <b>∡</b> 35′25	0°50'09	min. Earth dist.	4901 Apr 28 20:33	9° <b>8</b> 57'28	0.27674 AU
minimum elong	4898 Nov 28 20:49	8° <b>₹</b> 05'32	0°49'45	morning rise	4901 May 03 05:29	7° <b>8</b> 17'11	
1 1	4898 Dec 16 09:54	0°る		direct	4901 May 19 19:50	1° <b>8</b> 56'00	4.0
desc. node	4898 Dec 20 16:38	5°る21'09 27°る05'55		greatest brilliancy	4901 May 29 10:34 4901 Jun 07 11:34	3° <b>8</b> 38'34 7° <b>8</b> 51'01	-4.8m
evening rise	4899 Jan 07 01:43 4899 Jan 09 09:19	27 <b>3</b> 03 33		desc. node	4901 Jul 05 08:17	0°Ⅱ	
	4899 Feb 02 07:59	0° <b>∺</b>		morning max el	4901 Jul 08 03:06	2° <b>∏</b> 39'43	45°59'31
	4899 Feb 26 07:24	0° <b>Υ</b>		morning max or	4901 Aug 03 13:54	0°9	13 37 31
	4899 Mar 22 10:21	0°8			4901 Aug 30 10:00	$0^{\circ}\Omega$	
asc. node	4899 Apr 12 18:19	26° <b>8</b> 13'09			4901 Sep 25 04:01	0° m/y	
	4899 Apr 15 20:47	$\Pi^{\circ}0$		asc. node	4901 Sep 28 13:29	4° <b>m</b> 01'17	
	4899 May 10 20:05	0°€			4901 Oct 20 05:18	0∘ <b>⊽</b>	
	4899 Jun 05 17:37	$0^{\circ}\Omega$			4901 Nov 13 18:46	$0^{\circ}$ M	
	4899 Jul 03 13:23	0° <b>m</b>			4901 Dec 08 00:20	0° <b>∡</b>	
evening max el	4899 Jul 10 22:38	7° <b>™</b> 18'59	45°34'40		4902 Jan 01 01:04	0°రె	
desc. node	4899 Aug 02 09:17	26° m 32'17		morning set	4902 Jan 02 10:37	1° <b>る</b> 44'59	
	4899 Aug 07 13:29	0∘ <b>ʊ</b>	4.7	desc. node	4902 Jan 18 04:21	21° <b>る</b> 29'14	
greatest brilliancy	4899 Aug 18 09:45	5° <b>£</b> 23'53	-4.7m		4902 Jan 24 23:02	0° <b>≈</b>	
retrograde	4899 Aug 28 16:46	7° <b>£</b> 18'50		guneries	4002 Eab 12 07 40	2200 -05120	0056100
evening set	4899 Sep 15 09:47 4899 Sep 17 19:06	1° <b>♀</b> 27'33 30°R <b>m</b> )		superior conj minimum elong	4902 Feb 12 07:48 4902 Feb 11 20:02	23°≈05'29 22°≈28'27	-0°56'02 0°55'34
	+099 Sep 1/ 19.00	JU TIM		minimum etong	7302 FCU 11 20.02	∠∠ <b>~</b> ∠0∠/	0 33 34

max. Earth dist.	4902 Feb 11 23:31	22° <b>≈</b> 39'26	1.71143 AU	morning max el	4904 Sep 17 06:45	11° <b>Ω</b> 23'54	45°42'30
	4902 Feb 17 19:34	0° <b>∀</b>			4904 Oct 05 16:24	0° <b>m</b> ∤	
	4902 Mar 13 16:04	$0$ ° $\Upsilon$		asc. node	4904 Oct 26 01:27	22° <b>m</b> 21'28	
evening rise	4902 Mar 25 06:29	14° <b>Ƴ</b> 33'53			4904 Nov 01 18:29	0∘ <b>ত</b>	
	4902 Apr 06 14:21	0°B			4904 Nov 27 07:33	0° <b>M</b>	
	4902 Apr 30 16:33	$\Pi^{\circ}0$			4904 Dec 22 01:11	0° <b>⊼</b> ¹	
asc. node	4902 May 11 06:18	13° <b>Ⅱ</b> 04'25			4905 Jan 15 08:12	0°ಕ	
	4902 May 25 00:44	0°ಅ			4905 Feb 08 09:35	0° <b>≈</b>	
	4902 Jun 18 17:04	$0^{\circ}\Omega$		desc. node	4905 Feb 14 16:08	7°≈51'07	
	4902 Jul 13 20:56	0° <b>m</b> )		dese. Hode	4905 Mar 04 08:09	0° <b>\</b>	
		•					
	4902 Aug 08 19:25	0∘ <b>⊽</b>		morning set	4905 Mar 20 01:18	19° <b>)</b> 43′29	
desc. node	4902 Aug 30 21:01	24° <b>Ω</b> 19'54			4905 Mar 28 05:50	0° <b>Ƴ</b>	
	4902 Sep 05 05:44	0°M₊			4905 Apr 21 04:27	$9^{\circ}$ 8	
evening max el	4902 Sep 21 10:30	16°M16′21	45°47'25				
	4902 Oct 06 20:51	0° <b>∡</b> 7		superior conj	4905 Apr 29 09:01	10° <b>8</b> 14'02	-1°17'13
greatest brilliancy	4902 Oct 31 01:12	14° <b>∡</b> ³37'32	-4.8m	minimum elong	4905 Apr 29 18:14	10° <b>8</b> 42'49	1°17'01
retrograde	4902 Nov 09 07:59	16° <b>∡</b> 11'42		max. Earth dist.	4905 May 03 10:00	15° <b>8</b> 16'39	1.71950 AU
evening set	4902 Nov 25 04:11	11° <b>₹</b> 22'25			4905 May 15 05:37	0°II	
inferior conj	4902 Nov 30 05:26	8° <b>₹</b> 21'47	-5°08'23	evening rise	4905 Jun 07 15:43	29° <b>I</b> I02'19	
•		8° <b>≯</b> 06'48		asc. node	4905 Jun 07 18:07	29° <b>I</b> 109'42	
minimum elong	4902 Nov 30 15:11			asc. node			
min. Earth dist.	4902 Dec 01 03:24	7° <b>×</b> <sup>7</sup> 48'03	0.27563 AU		4905 Jun 08 10:23	0°99	
morning rise	4902 Dec 06 01:34	4° <b>≯</b> 53'55			4905 Jul 02 19:08	$0$ $^{\circ}\Omega$	
direct	4902 Dec 21 06:05	0° <b>∡</b> ¹22'06			4905 Jul 27 08:15	0° <b>m</b>	
asc. node	4902 Dec 21 22:58	0° <b>≯</b> 22'42			4905 Aug 21 02:59	0∘ <b>ट</b>	
greatest brilliancy	4903 Jan 01 08:35	2° <b>∡</b> ¹41'19	-4.9m		4905 Sep 15 06:00	0° <b>M</b> ₊	
	4903 Feb 06 08:13	8°0		desc. node	4905 Sep 27 08:56	14° <b>M</b> .16'09	
morning max el	4903 Feb 09 22:26	3° <b>ප</b> 35'57	46°55'15		4905 Oct 10 21:37	0° <b>∡</b> 7	
morning man er	4903 Mar 06 09:38	0° <b>≈</b>	10 00 10		4905 Nov 06 10:31	0°ਰ	
	4903 Apr 01 07:04	0° <b>)</b> €		evening max el	4905 Dec 03 06:25	28°පි16'26	46°43'58
	•			evening max ci			40 43 36
desc. node	4903 Apr 12 14:03	13° <b>)</b> €25'43			4905 Dec 05 00:30	0° <b>≈</b>	4.0
	4903 Apr 26 09:04	0° <b>Υ</b>		greatest brilliancy	4906 Jan 12 12:42	28°≈42'22	-4.9m
	4903 May 21 02:52	$8^{\circ 0}$			4906 Jan 17 01:44	0° <b>∀</b>	
	4903 Jun 14 17:34	$\Pi$ $^{\circ}0$		asc. node	4906 Jan 18 10:45	0° <b>₩</b> 14'58	
	4903 Jul 09 07:13	0ಂ <b>ತಾ</b>		retrograde	4906 Jan 22 11:03	0° <b>)</b> 33′58	
	4903 Aug 02 19:51	$0^{\circ}\Omega$			4906 Jan 27 17:32	30°R <b>≈</b>	
asc. node	4903 Aug 03 15:42	1° <b>Ω</b> 00'46		evening set	4906 Feb 06 12:56	26°≈05'42	
morning set	4903 Aug 13 08:30	12° <b>Ω</b> 54'05		min. Earth dist.	4906 Feb 11 14:15	23° <b>≈</b> 06'32	0.26691 AU
morning sec	4903 Aug 27 06:41	0° mp		inferior conj	4906 Feb 12 01:06		5°54'08
may Earth dist	•		1 72270 ATT	,		23°≈06'20	
max. Earth dist.	4903 Sep 17 01:13	23 11/3443	1.73278 AU	minimum elong	4906 Feb 11 14:23		3 31 28
				morning rise	4906 Feb 16 15:57	20°≈04'05	
superior conj	4903 Sep 18 20:36	27° <b>m</b> 48'32		direct	4906 Mar 04 12:26	15° <b>≈</b> 09'06	
minimum elong	4903 Sep 18 15:52	27° Mp 33'56	1°22'08	greatest brilliancy	4906 Mar 14 01:56	16° <b>≈</b> 52'49	-4.9m
	4903 Sep 20 15:13	0∘ <b>⊽</b>			4906 Apr 04 12:02	0° <b>ℋ</b>	
	4903 Oct 14 21:57	$0^{\circ}$ M.		morning max el	4906 Apr 23 17:50	17° <b>)</b> 37′10	46°45'50
evening rise	4903 Oct 25 10:12	13°M00'12			4906 May 05 17:43	$0^{\circ}\mathbf{\Upsilon}$	
	4903 Nov 08 03:49	0° <b>∡</b> ¹		desc. node	4906 May 10 01:53	4° <b>Ƴ</b> 38'47	
desc. node	4903 Nov 23 06:46	18° <b>∡</b> ¹43'03			4906 Jun 01 20:19	0°8	
desc. node	4903 Dec 02 09:30	0°る			4906 Jun 27 17:44	0° <b>I</b> I	
	4903 Dec 26 15:21	0° <b>≈</b>			4906 Jul 23 02:30	0°9	
	4904 Jan 19 22:20	0° <b>)</b> €			4906 Aug 17 03:34	0°N	
	4904 Feb 13 09:26	0° <b>Υ</b>		asc. node	4906 Aug 31 03:37	16° <b>Ω</b> 55'21	
	4904 Mar 09 07:20	0°8			4906 Sep 10 21:57	0° <b>m</b> )	
asc. node	4904 Mar 15 08:26	7° <b>8</b> 08'11			4906 Oct 05 10:01	0∘ <b>ऌ</b>	
	4904 Apr 04 05:34	$\Pi^{\circ}0$		morning set	4906 Oct 20 16:27	18° <b>≏</b> 50'05	
evening max el	4904 Apr 29 02:22	26° <b>Ⅲ</b> 28'48	46°22'01		4906 Oct 29 16:49	0° <b>M</b>	
	4904 May 02 16:33	0°ಅ			4906 Nov 22 20:01	0° <b>⊼</b> ¹	
greatest brilliancy	4904 Jun 06 17:35	25°951'15	-4 8m	max. Earth dist.	4906 Nov 24 02:51	1° <b>∡</b> ³36′03	1.72143 AU
retrograde	4904 Jun 17 19:55	28°506'03		THE LOW WINDS	., 001.01 2. 02.01	1 7. 30 03	1.,21.5110
				superior con:	4006 Nov. 27, 01.41	5° <b>∡</b> 16'47	0°52'58
evening set	4904 Jul 02 19:17	23°5542'16		superior conj	4906 Nov 27 01:41		
desc. node	4904 Jul 04 23:22	22°527'35	1000140	minimum elong	4906 Nov 27 11:32	5° <b>₹</b> 47'31	0°52'36
inferior conj	4904 Jul 09 04:17	19° <b>©</b> 52'06			4906 Dec 16 20:59	0°₹	
minimum elong	4904 Jul 09 02:02	19° <b>©</b> 55'38	1°00'08	desc. node	4906 Dec 20 18:35	4° <b>ප</b> 52'32	
min. Earth dist.	4904 Jul 08 19:03	20° <b>5</b> 06'34	0.28592 AU	evening rise	4907 Jan 05 13:47	24° <b>る</b> 38'33	
morning rise	4904 Jul 15 09:23	16° <b>5</b> 08'50			4907 Jan 09 20:30	0° <b>≈</b>	
direct	4904 Jul 30 14:14	11° <b>5</b> 542'54			4907 Feb 02 19:18	0° <b>)</b> €	
greatest brilliancy	4904 Aug 09 12:03	13° <b>5</b> 29'37	-4.7m		4907 Feb 26 18:54	$0^{\circ}\mathbf{\Upsilon}$	
<u> </u>	4904 Sep 04 15:18	0°Ω			4907 Mar 22 22:09	0°8	
	p 0. 10.10	- 00			,		

aga mada	4007 Amr. 12 20:24	25° <b>8</b> 42'23			4000 Aug 02 06:02	0° <b>©</b>	
asc. node	4907 Apr 12 20:24	23 <b>O</b> 42 23			4909 Aug 03 06:02		
	4907 Apr 16 09:03	0.2 0.П			4909 Aug 29 23:27	0° <b>N</b> 0° <b>m</b>	
	4907 May 11 09:14 4907 Jun 06 08:37	0°Ω 0 €3		asc. node	4909 Sep 24 16:11 4909 Sep 27 15:33	0 mg/31'40	
	4907 Jul 04 09:19	0°Mp		asc. node	•	0∘ <b>ʊ</b> 3 װ⁄31 40	
ovening may al	4907 Jul 04 09:19 4907 Jul 09 13:29	עווי ט 5°10ס 5'32	15025122		4909 Oct 19 16:47	0°M	
evening max el			45 55 55		4909 Nov 13 05:54	0° 11℃ 0° <b>√</b> 1	
desc. node	4907 Aug 02 11:19	25° <b>™</b> 22'29 0° <b>₽</b>		marning got	4909 Dec 07 11:17	0 <b>x</b> . 29° <b>x</b> 20′29	
greatest brilliancy	4907 Aug 09 22:22 4907 Aug 17 00:03	0 <b>=</b> 3° <b>£</b> 12'56	-4.7m	morning set	4909 Dec 30 23:21 4909 Dec 31 11:59	29 <b>メ</b> ・2029	
	4907 Aug 17 00:03 4907 Aug 27 09:03	5° <b>£</b> 1230	-4. /III	desc. node	4910 Jan 17 06:21	0 8 21° <b>공</b> 01'11	
retrograde	4907 Sep 12 21:17			desc. node	4910 Jan 24 09:58	21 <b>3</b> 01 11 0° <b>≈</b>	
avanina aat	-	30°RM)			4910 Jan 24 09.38	0 ≈	
evening set	4907 Sep 13 23:16	29° m 22'01	0014!11		4010 E-1, 00 10.00	20% - 22/24	0953154
inferior conj	4907 Sep 17 21:54	26° Mp 56'30		superior conj	4910 Feb 09 18:06	20°≈32'24	
minimum elong	4907 Sep 17 16:17	27° Mp 05'18		minimum elong	4910 Feb 09 06:37	19°≈56'17	
min. Earth dist.	4907 Sep 18 00:33	26° Mp 52'20	0.29101 AU	max. Earth dist.	4910 Feb 09 07:48	20°≈00'00 0° <b>)</b> €	1.71153 AU
morning rise	4907 Sep 21 09:10	24° Mp 47'31			4910 Feb 17 06:33	0° <b>π</b> 0° <b>Υ</b>	
direct	4907 Oct 09 11:35	18° Mp 37'46	4.0		4910 Mar 13 03:04		
greatest brilliancy	4907 Oct 20 04:17	20° m 41'43	-4.8m	evening rise	4910 Mar 22 16:53	12° <b>Y</b> 01′28	
,	4907 Nov 05 12:01	0∘ <b>ʊ</b>			4910 Apr 06 01:23	8°0	
asc. node	4907 Nov 23 13:09	15° <b>£</b> 25'10	46012120	1	4910 Apr 30 03:40	0°П	
morning max el	4907 Nov 28 01:35	19° <b>Ω</b> 48'06	46°13'20	asc. node	4910 May 10 08:16	12° <b>Ⅲ</b> 35'58	
	4907 Dec 08 01:05	0°M			4910 May 24 12:04	0°©	
	4908 Jan 04 01:25	0° <b>∡</b> 7			4910 Jun 18 04:50	0° <b>N</b>	
	4908 Jan 29 10:15	0°ප			4910 Jul 13 09:32	0° mp	
	4908 Feb 23 01:57	0° <b>≈</b>			4910 Aug 08 09:40	0∘ <b>⊽</b>	
desc. node	4908 Mar 14 04:11	24°≈46′22		desc. node	4910 Aug 29 23:09	23° <b>Ω</b> 40'14	
	4908 Mar 18 09:32	0° <b>∀</b>			4910 Sep 04 23:56	0°M	
	4908 Apr 11 13:36	0° <b>Υ</b>		evening max el	4910 Sep 19 01:41	14°M03'20	45°46'01
	4908 May 05 17:00	0°8			4910 Oct 07 07:38	0° <b>⊀</b>	
	4908 May 29 21:33	0°Ⅲ		greatest brilliancy	4910 Oct 28 14:42	12° <b>≯</b> 19'58	-4.8m
morning set	4908 Jun 01 23:55	3° <b>Ⅱ</b> 50'11		retrograde	4910 Nov 06 21:31	13° <b>≯</b> 53'45	
	4908 Jun 23 04:01	$0$ $\circ$ $\odot$		evening set	4910 Nov 22 21:07	9° <b>₰</b> 00'21	
asc. node	4908 Jul 05 05:52	14° <b>©</b> 53'46		inferior conj	4910 Nov 27 19:33	6° <b>≯</b> 03'13	
				minimum elong	4910 Nov 28 05:32	5° <b>₹</b> 47'50	
superior conj	4908 Jul 09 18:27	20° <b>©</b> 28'20	0°10'51	min. Earth dist.	4910 Nov 28 17:41	5° <b>₹</b> 29'09	0.27628 AU
minimum elong	4908 Jul 09 16:07	20°521'07	0°10'43	morning rise	4910 Dec 03 13:24	2° <b>∡</b> ³38′06	
behind sun begin	4908 Jul 08 22:48	19° <b>©</b> 27'48			4910 Dec 09 01:38	30°RM₊	
behind sun end	4908 Jul 10 09:25	21° <b>©</b> 14'26		direct	4910 Dec 18 21:14	28° <b>™</b> 02'50	
max. Earth dist.	4908 Jul 11 00:55	22° <b>©</b> 02'10	1.73262 AU	asc. node	4910 Dec 21 00:51	28°M08'22	
	4908 Jul 17 12:07	$0 {\circ} \Omega$			4910 Dec 29 00:58	0° <b>≯</b>	
	4908 Aug 10 21:19	0° <b>m</b>		greatest brilliancy	4910 Dec 29 23:17	0° <b>≯</b> 21'22	-4.9m
evening rise	4908 Aug 15 07:18	5°Mp25'41			4911 Feb 06 07:16	8°0	
	4908 Sep 04 07:33	0∘ <b>ত</b>		morning max el	4911 Feb 07 12:36	1° <b>る</b> 14'05	46°54'15
	4908 Sep 28 19:36	0°M₊			4911 Mar 06 02:00	0° <b>≈</b>	
	4908 Oct 23 10:30	0°⊀			4911 Mar 31 21:00	0° <b>∀</b>	
desc. node	4908 Oct 24 20:56	1° <b>∡</b> ⁴44'35		desc. node	4911 Apr 11 16:03	12° <b>¥</b> 52′00	
	4908 Nov 17 05:14	0°る			4911 Apr 25 21:45	0° <b>Υ</b>	
	4908 Dec 12 05:30	0° <b>≈</b>			4911 May 20 14:46	0°B	
	4909 Jan 06 16:48	0° <b>∀</b>			4911 Jun 14 04:55	$\Pi$ °0	
	4909 Feb 02 08:11	0° <b>Υ</b>			4911 Jul 08 18:10	0ಂತಾ	
evening max el	4909 Feb 13 21:03	12° <b>Y</b> 07′13	47°08'54		4911 Aug 02 06:34	$0$ ° $\Omega$	
asc. node	4909 Feb 14 22:39	13° <b>Y</b> 12′02		asc. node	4911 Aug 02 17:47	0° <b>Ω</b> 34'21	
	4909 Mar 05 00:14	$_{0\circ}$ 8		morning set	4911 Aug 11 02:05	10° <b>Ω</b> 48'12	
greatest brilliancy	4909 Mar 26 12:03	13° <b>8</b> 34'01	-4.9m		4911 Aug 26 17:15	0° <b>m</b>	
retrograde	4909 Apr 05 16:24	15° <b>8</b> 32'37		max. Earth dist.	4911 Sep 14 19:28	23° Mp 30'32	1.73299 AU
evening set	4909 Apr 23 06:08	9° <b>8</b> 33'44					
inferior conj	4909 Apr 26 14:30	7° <b>8</b> 30'10	8°09'31	superior conj	4911 Sep 16 14:40	25° Mp 43′43	1°21'17
minimum elong	4909 Apr 26 22:43	7° <b>8</b> 17'23	8°08'25	minimum elong	4911 Sep 16 09:22	25° <b>m</b> 27'23	1°21'12
min. Earth dist.	4909 Apr 26 09:50	7° <b>8</b> 37'25	0.27642 AU		4911 Sep 20 01:47	0∘ <b>ত</b>	
morning rise	4909 Apr 30 15:28	5° <b>8</b> 02'17			4911 Oct 14 08:35	$0^{\circ}$ M	
	4909 May 12 21:57	30° <b>₹</b> Υ		evening rise	4911 Oct 23 02:42	10°M49'40	
direct	4909 May 17 09:45	29° <b>Y</b> 35'20			4911 Nov 07 14:36	0° <b>∡</b>	
	4909 May 22 00:11	$9^{\circ}$ 8		desc. node	4911 Nov 22 08:43	18° <b>∡</b> 15'14	
greatest brilliancy	4909 May 26 23:11	1° <b>8</b> 17'25	-4.8m		4911 Dec 01 20:32	0°ප	
desc. node	4909 Jun 06 13:32	6° <b>8</b> 25'06			4911 Dec 26 02:43	0° <b>≈</b>	
	4909 Jul 05 07:56	$\Pi$ °0			4912 Jan 19 10:08	0° <b>)</b> €	
morning max el	4909 Jul 05 18:39	0°Ⅱ25′54	46°00'53		4912 Feb 12 21:54	$0$ ° $\Upsilon$	

	401234 00 20 50	00			4014 0 4 10 00 00	1.60 0 4012.4	
1	4912 Mar 08 20:59	0° <b>8</b>		morning set	4914 Oct 18 09:08	16° <b>£</b> 40'34	
asc. node	4912 Mar 14 10:28	6° <b>႘</b> 32'56 0° <b>Ⅱ</b>		David diet	4914 Oct 29 03:23	0°M 20°M 27/24	1 72101 AII
avanina may al	4912 Apr 03 21:42	0°Ⅲ 24°Ⅲ12'59	46°23'57	max. Earth dist.	4914 Nov 21 20:10	29° <b>™</b> 27'24 0° <b>৴</b>	1.72191 AU
evening max el	4912 Apr 26 17:28 4912 May 02 16:15	0°9	40 23 37		4914 Nov 22 06:38	0 X	
greatest brilliancy	4912 Jun 04 11:00	23° <b>©</b> 41'02	-4.8m	superior conj	4914 Nov 24 16:19	2° <b>∡</b> ¹59'43	0°55'43
retrograde	4912 Jun 15 11:36	25°954'27	4.0111	minimum elong	4914 Nov 25 02:18	3°×730'51	
evening set	4912 Jun 30 11:38	21°530'42		minimum ciong	4914 Dec 16 07:42	0°る	0 33 21
desc. node	4912 Jul 04 01:23	19° <b>5</b> 25'09		desc. node	4914 Dec 19 20:36	4° <b>る</b> 25'17	
inferior conj	4912 Jul 06 20:10	17° <b>©</b> 41'07	-0°40'19	evening rise	4915 Jan 03 02:08	22° <b>ට</b> 13'14	
minimum elong	4912 Jul 06 18:40	17° <b>©</b> 43'28	0°39'52	Ü	4915 Jan 09 07:20	0° <b>≈</b>	
min. Earth dist.	4912 Jul 06 11:31	17° <b>©</b> 54'41	0.28555 AU		4915 Feb 02 06:17	0° <b>∀</b>	
morning rise	4912 Jul 13 02:16	13° <b>©</b> 56'09			4915 Feb 26 06:05	$0^{\circ}$ Y	
direct	4912 Jul 28 05:36	9° <b>5</b> 32'33			4915 Mar 22 09:36	$0^{\circ}B$	
greatest brilliancy	4912 Aug 07 03:28	11° <b>©</b> 18'59	-4.7m	asc. node	4915 Apr 11 22:22	25° <b>8</b> 12'19	
	4912 Sep 04 19:51	$0$ ° $\Omega$			4915 Apr 15 20:59	$\Pi$ °0	
morning max el	4912 Sep 14 20:56	9° <b>Ω</b> 10′16	45°42'14		4915 May 10 22:05	$0$ $\circ$	
	4912 Oct 05 09:14	0° <b>™</b>			4915 Jun 05 23:26	$0^{\circ}\Omega$	
asc. node	4912 Oct 25 03:23	21°Mp46'47			4915 Jul 04 05:36	0° <b>m</b> )	
	4912 Nov 01 08:07	0∘ <b>⊽</b>		evening max el	4915 Jul 07 05:03	2° Mp 54'36	45°36'20
	4912 Nov 26 19:49	0° <b>™</b>		desc. node	4915 Aug 01 13:26	24° Mp 11'21	
	4912 Dec 21 12:47	0° <b>∡</b> 7			4915 Aug 11 23:42	0∘ <b>⊽</b>	
	4913 Jan 14 19:26	ව°0 0°3		greatest brilliancy	4915 Aug 14 14:02	1° <b>⊆</b> 02'05	-4.7m
1 1	4913 Feb 07 20:36	0°≈		retrograde	4915 Aug 25 01:41	3° <b>₾</b> 01'22	
desc. node	4913 Feb 13 18:18	7° <b>≈</b> 23'32 0° <b>)</b> €			4915 Sep 06 11:21	30°RM)	
morning set	4913 Mar 03 19:01	17° <b>)</b> 11'58		evening set	4915 Sep 11 12:31	27° Mp 17'01 24° Mp 47'11	9907156
morning set	4913 Mar 17 11:49 4913 Mar 27 16:36	1/ <b>π</b> 1138		inferior conj minimum elong	4915 Sep 15 14:05 4915 Sep 15 07:51	24 m/4/11 24°m/56'56	-8 07 36 8°07'20
	4913 Apr 20 15:08	0°8		min. Earth dist.	4915 Sep 15 07:31 4915 Sep 15 15:24	24° m/ 45'08	0.29115 AU
	471374pt 20 13.00	٠ <b>٠</b>		morning rise	4915 Sep 19 03:06	22° m/35'46	0.27113710
superior conj	4913 Apr 26 21:47	7° <b>8</b> 50'41	-1°18'53	direct	4915 Oct 07 04:02	16° My 28'21	
minimum elong	4913 Apr 27 06:26	8° <b>8</b> 17'44		greatest brilliancy	4915 Oct 17 19:42	18° <b>m</b> ) 31'40	-4.8m
max. Earth dist.	4913 Apr 30 22:15		1.71899 AU		4915 Nov 06 01:07	0∘ <u>⊽</u>	
	4913 May 14 16:17	$\Pi^{\circ}0$		asc. node	4915 Nov 22 15:08	14° <b>≏</b> 34'34	
evening rise	4913 Jun 05 06:32	26° <b>Ⅱ</b> 46'44		morning max el	4915 Nov 25 17:43	17° <b>≏</b> 36'12	46°11'46
asc. node	4913 Jun 06 20:04	28° <b>Ⅱ</b> 42'44			4915 Dec 07 19:26	$0^{\circ}$ M.	
	4913 Jun 07 21:05	$0$ $\circ$ $\odot$			4916 Jan 03 15:53	0° <b>∡</b> ¹	
	4913 Jul 02 05:55	$0^{\circ}\Omega$			4916 Jan 28 23:08	0°ಕ	
	4913 Jul 26 19:14	0° <b>™</b>			4916 Feb 22 14:00	0° <b>≈</b>	
	4913 Aug 20 14:26	0∘ <b>ত</b>		desc. node	4916 Mar 13 06:06	24° <b>≈</b> 16′18	
	4913 Sep 14 18:15	0° <b>M</b>			4916 Mar 17 21:05	0° <b>∀</b>	
desc. node	4913 Sep 26 10:59	13°M44'40			4916 Apr 11 00:48	0° <b>Υ</b>	
	4913 Oct 10 11:19	0° <b>∡</b> 7			4916 May 05 03:56	0° <b>8</b>	
	4913 Nov 06 03:06	0°る	46040105	. ,	4916 May 29 08:16	0°П	
evening max el	4913 Nov 30 18:51	25°₹51'22	46°42'05	morning set	4916 May 30 15:20	1° <b>Ⅱ</b> 36′10 0° <b>©</b>	
greatest brilliancy	4913 Dec 05 00:55 4914 Jan 10 02:13	0° <b>≈</b> 26° <b>≈</b> 16'22	-4.9m	asc. node	4916 Jun 22 14:35 4916 Jul 04 07:58	າ ອອ 14° <b>©</b> 27'45	
asc. node	4914 Jan 17 12:53	28°≈00'09	-4.9111	asc. node	4910 Jul 04 07.38	14 32/43	
retrograde	4914 Jan 19 23:17	28° <b>≈</b> 07'15		superior conj	4916 Jul 07 11:22	18° <b>5</b> 20'06	0°07'33
evening set	4914 Feb 03 22:30	23°≈43'06		minimum elong	4916 Jul 07 09:43	18°9515'02	0°07'28
min. Earth dist.	4914 Feb 09 03:58	20° <b>≈</b> 38'35	0.26677 AU	behind sun begin	4916 Jul 06 13:01	17° <b>©</b> 11'15	
inferior conj	4914 Feb 09 13:42	20° <b>≈</b> 23'41	5°35'10	behind sun end	4916 Jul 08 06:25	19°5518'49	
minimum elong	4914 Feb 09 03:12	20° <b>≈</b> 39'45	5°32'28	max. Earth dist.	4916 Jul 08 22:01	20°506'51	1.73238 AU
morning rise	4914 Feb 14 07:55	17° <b>≈</b> 33'12			4916 Jul 16 22:38	$0^{\circ}\Omega$	
direct	4914 Mar 02 00:28	12° <b>≈</b> 42'39			4916 Aug 10 07:53	0° <b>m</b> )	
greatest brilliancy	4914 Mar 11 16:20	14° <b>≈</b> 28′22	-4.9m	evening rise	4916 Aug 13 01:48	3° <b>m</b> 22'32	
	4914 Apr 04 22:44	0° <b>∀</b>			4916 Sep 03 18:18	0∘ <b>⊽</b>	
morning max el	4914 Apr 21 06:35		46°47'10		4916 Sep 28 06:38	0° <b>M</b> ₊	
	4914 May 05 12:25	0° <b>Υ</b>			4916 Oct 22 21:59	0° <b>∡</b> ¹	
desc. node	4914 May 09 03:51	3° <b>Y</b> 55'48		desc. node	4916 Oct 23 22:49	1° <b>∡</b> 15′21	
	4914 Jun 01 11:00	0° <b>Β</b>			4916 Nov 16 17:23	0°る	
	4914 Jun 27 06:37	0° <b>I</b> I			4916 Dec 11 18:43	0° <b>≈</b>	
	4914 Jul 22 14:23	$0 _{\circ}$ ೮			4917 Jan 06 07:52	0° <b>ℋ</b> 0° <b>Ƴ</b>	
asc. node	4914 Aug 16 14:49 4914 Aug 30 05:41	0°81 16° <b>Ω</b> 28'17		evening max el	4917 Feb 02 03:21 4917 Feb 11 12:11	0° <b>γ</b> ′ 9° <b>Υ</b> 47'16	47°09'21
ase. Houc	4914 Sep 10 08:48	0° Mp		asc. node	4917 Feb 11 12.11 4917 Feb 14 00:42	9 <b>γ</b> 47 10 12° <b>Υ</b> 19'39	T/ U7 41
	4914 Oct 04 20:39	0∘ <del>ت</del> رانا		450. HOUC	4917 Mar 05 12:44	0° <b>8</b>	
	.711 OC 07 20.39	~ <b>—</b>			.71, 11101 03 12.77	ů O	

greatest brilliancy retrograde	4917 Mar 24 02:03 4917 Apr 03 07:18	11° <b>8</b> 11'56 13° <b>8</b> 10'59	-4.9m	max. Earth dist.	4919 Aug 26 04:00 4919 Sep 12 13:39	0° My 21° My 25'40	1.73321 AU
evening set	4917 Apr 20 22:59	7° <b>8</b> 08'03	0010100		4010 G 14 00 53	220m 20154	1020115
inferior conj	4917 Apr 24 04:23	5° <b>8</b> 08'52	8°19'00	superior conj	4919 Sep 14 08:53	23° m 38'54	
minimum elong	4917 Apr 24 12:03	4° <b>8</b> 56'57	8°18'04	minimum elong	4919 Sep 14 03:02		1°20'10
min. Earth dist.	4917 Apr 23 22:48	5° <b>8</b> 17'33 2° <b>8</b> 47'08	0.27609 AU		4919 Sep 19 12:29	0° <b>II</b> r 0° <b>ত</b>	
morning rise	4917 Apr 28 01:18 4917 May 03 07:28	2 <b>3</b> 47 08		evening rise	4919 Oct 13 19:23 4919 Oct 20 19:20	8°MJ39'03	
direct	4917 May 14 23:48	27° <b>Υ</b> 14'48		evening rise	4919 Nov 07 01:37	0° <b>⊼</b> ¹	
greatest brilliancy	4917 May 24 11:14	28° <b>Y</b> 55'39	-4.8m	desc. node	4919 Nov 21 10:47	17° <b>×7</b> 47'01	
greatest offinancy	4917 May 27 06:41	0° <b>8</b>	4.0111	dese. Hode	4919 Dec 01 07:51	0°る	
desc. node	4917 Jun 05 15:30	5° <b>8</b> 02'19			4919 Dec 25 14:25	0° <b>≈</b>	
morning max el	4917 Jul 03 09:45	28° <b>8</b> 11'15	46°02'16		4920 Jan 18 22:17	0° <b>)</b> €	
5 5	4917 Jul 05 06:24	0°II			4920 Feb 12 10:44	$0^{\circ}\Upsilon$	
	4917 Aug 02 21:44	0ಂತಾ			4920 Mar 08 11:02	$9^{\circ}$ 8	
	4917 Aug 29 12:41	$0^{\circ}\Omega$		asc. node	4920 Mar 13 12:25	5° <b>8</b> 56'21	
	4917 Sep 24 04:14	0° <b>m</b>			4920 Apr 03 14:25	$\Pi^{\circ}0$	
asc. node	4917 Sep 26 17:29	3° <b>m</b> 01'52		evening max el	4920 Apr 24 07:30	21° <b>Ⅲ</b> 53'39	46°25'58
	4917 Oct 19 04:14	0∘ <b>ত</b>			4920 May 02 17:29	$0$ $\circ$ $\odot$	
	4917 Nov 12 17:01	$0^{\circ}$ M		greatest brilliancy	4920 Jun 02 04:18	21° <b>5</b> 29'37	-4.8m
	4917 Dec 06 22:15	0° <b>∡</b>		retrograde	4920 Jun 13 03:09	23°541'59	
morning set	4917 Dec 28 12:02	26° <b>₹</b> 55'53		evening set	4920 Jun 28 04:02	19° <b>©</b> 17'40	
	4917 Dec 30 22:52	5°0		desc. node	4920 Jul 03 03:33	16°©19'57	
desc. node	4918 Jan 16 08:27	20° <b>පි</b> 33'36		inferior conj	4920 Jul 04 12:00	15° <b>5</b> 29'06	-0°19'38
	4918 Jan 23 20:51	0° <b>≈</b>		minimum elong	4920 Jul 04 11:16	15° <b>©</b> 30'15	0°19'26
max. Earth dist.	4918 Feb 06 14:40	17° <b>≈</b> 16′22	1.71162 AU	min. Earth dist.	4920 Jul 04 04:05	15° <b>5</b> 41'31	0.28520 AU
				morning rise	4920 Jul 10 18:58	11° <b>5</b> 42'43	
superior conj	4918 Feb 07 04:23	17° <b>≈</b> 59'30		direct	4920 Jul 25 20:32	7° <b>©</b> 20'55	
minimum elong	4918 Feb 06 17:17	17° <b>≈</b> 24'37	0°49'12	greatest brilliancy	4920 Aug 04 19:17	9° <b>©</b> 07'45	-4.7m
	4918 Feb 16 17:28	0° <b>)</b> €			4920 Sep 04 23:03	0°Ω	
	4918 Mar 12 14:02	0° <b>Υ</b>		morning max el	4920 Sep 12 11:19	6° <b>Ω</b> 56'12	45°42'10
evening rise	4918 Mar 20 03:16	9° <b>Y</b> 28'59 0° <b>呂</b>		aga mada	4920 Oct 05 02:02	0° Mp 21° Mp 11'49	
	4918 Apr 05 12:24 4918 Apr 29 14:48	0°II		asc. node	4920 Oct 24 05:25 4920 Oct 31 21:54	ე° <b>ჲ</b>	
asc. node	4918 May 09 10:14	12° <b>Ⅱ</b> 07′28			4920 Oct 31 21:34 4920 Nov 26 08:19	0° <b>™</b>	
asc. node	4918 May 23 23:25	0°95			4920 Dec 21 00:40	0° <b>⊼</b> ¹	
	4918 Jun 17 16:38	$0^{\circ}\Omega$			4921 Jan 14 07:02	°ਤ	
	4918 Jul 12 22:12	0° m/			4921 Feb 07 08:01	0° <b>≈</b>	
	4918 Aug 08 00:05	$0$ ° $\overline{\mathbf{v}}$		desc. node	4921 Feb 12 20:16	6°≈54'05	
desc. node	4918 Aug 29 01:06	22° <b>₽</b> 59'32			4921 Mar 03 06:17	0° <b>∀</b>	
	4918 Sep 04 18:41	0°M₊		morning set	4921 Mar 14 21:49	14° <b>)</b> 37′29	
evening max el	4918 Sep 16 15:54	11° <b>M</b> 47'42	45°44'26		4921 Mar 27 03:44	$0^{\circ}\mathbf{\Upsilon}$	
	4918 Oct 07 22:24	0° <b>∡</b> ¹			4921 Apr 20 02:12	$9^{\circ}$ 8	
greatest brilliancy	4918 Oct 26 04:36	10° <b>≯</b> 02'12	-4.8m				
retrograde	4918 Nov 04 10:26	11° <b>∡</b> ³35′04		superior conj	4921 Apr 24 10:10	5° <b>8</b> 24'59	
evening set	4918 Nov 20 14:00	6° <b>≯</b> 37'22		minimum elong	4921 Apr 24 18:12	5° <b>8</b> 50'06	
inferior conj	4918 Nov 25 09:34	3° <b>∡</b> 43'57		max. Earth dist.	4921 Apr 28 08:01		1.71845 AU
minimum elong	4918 Nov 25 19:44	3° <b>₹</b> 28'16			4921 May 14 03:18	0°II	
min. Earth dist.	4918 Nov 26 08:11	3° <b>₹</b> 09'04	0.27694 AU	evening rise	4921 Jun 02 21:07	24° <b>Ⅱ</b> 29'21	
morning rise	4918 Dec 01 00:53	0° <b>∡</b> 721'47		asc. node	4921 Jun 05 22:11	28° <b>I</b> I15'10	
direct	4918 Dec 01 16:45	30°RM			4921 Jun 07 08:07	$0 {\circ} {\mathfrak C}$	
direct asc. node	4918 Dec 16 11:45 4918 Dec 20 02:59	25°M42'38 25°M58'15			4921 Jul 01 17:03 4921 Jul 26 06:37	0° <b>m</b> p	
greatest brilliancy	4918 Dec 27 14:23	28°M01'05	-4.9m		4921 Aug 20 02:17	0° <del>ت</del>	
greatest orimancy	4918 Dec 31 22:02	0° <b>√</b>	-4.7111		4921 Sep 14 06:57	0° <b>™</b>	
morning max el	4919 Feb 05 01:54	28° <b>х</b> 49'19	46°53'24	desc. node	4921 Sep 25 12:56	13°ML11'43	
morning man er	4919 Feb 06 05:39	ਰੂ ਹ°ਰ	.0 03 2 .	dese. node	4921 Oct 10 01:32	0° <b>∡</b> 7	
	4919 Mar 05 18:13	0° <b>≈</b>			4921 Nov 05 20:23	0°ਰ	
	4919 Mar 31 10:54	0° <b>)</b> €		evening max el	4921 Nov 28 07:31	23° <b>る</b> 26'07	46°40'07
desc. node	4919 Apr 10 18:03	12° <b>)</b> 18′06		-	4921 Dec 05 03:05	0° <b>≈</b>	
	4919 Apr 25 10:27	$0^{\circ}\mathbf{\Upsilon}$		greatest brilliancy	4922 Jan 07 14:53	23° <b>≈</b> 47'51	-4.9m
	4919 May 20 02:43	$9^{\circ}$ 8		asc. node	4922 Jan 16 14:53	25° <b>≈</b> 37'50	
	4919 Jun 13 16:22	$\Pi^{\circ}0$		retrograde	4922 Jan 17 11:47	25° <b>≈</b> 38'45	
	4919 Jul 08 05:17	0ං <b>ව</b>		evening set	4922 Feb 01 08:02	21° <b>≈</b> 18′06	
asc. node	4919 Aug 01 19:50	0° <b>Ω</b> 07′20		min. Earth dist.	4922 Feb 06 17:12	18° <b>≈</b> 08'49	0.26669 AU
_	4919 Aug 01 17:26	$0^{\circ}\Omega$		inferior conj	4922 Feb 07 02:02	17° <b>≈</b> 55'19	5°15'17
morning set	4919 Aug 08 19:43	8° <b>Ω</b> 41'59		minimum elong	4922 Feb 06 15:51	18° <b>≈</b> 10'53	5°12'35

	4022 E-L 11 22.20	1.500.00025			4024 Il 16 00.21	000	
morning rise	4922 Feb 11 23:38	15°≈00'25			4924 Jul 16 09:31	0° <b>N</b>	
direct	4922 Feb 27 12:43	10°≈13'57	4.0		4924 Aug 09 18:48	0°M) 1°M≻17122	
greatest brilliancy	4922 Mar 09 06:13	12°≈01'23 0° <b>)</b> €	-4.9m	evening rise	4924 Aug 10 20:02	1° <b>M</b> )17'33 0° <b>⊆</b>	
	4922 Apr 05 07:23		46949120		4924 Sep 03 05:22	0° <b>M</b>	
morning max el	4922 Apr 18 20:15	12° <b>)</b> 48'14 0° <b>°</b>	40 46 29		4924 Sep 27 18:00 4924 Oct 22 09:50	0° <b>⊼</b> 7	
desc. node	4922 May 05 07:15	3° <b>Υ</b> 11'59		desc. node		0° <b>х</b> <sup>7</sup> 45'45	
desc. node	4922 May 08 05:54	0° <b>8</b>		desc. node	4924 Oct 23 00:55	0 x・43 43 0°る	
	4922 Jun 01 02:01 4922 Jun 26 19:51	0°II			4924 Nov 16 05:56 4924 Dec 11 08:20	0°≈	
	4922 Jul 20 19:31 4922 Jul 22 02:36	0ಂ <b>ತಾ</b>			4925 Jan 05 23:23	0° <b>∺</b>	
	4922 Aug 16 02:24	0° <b>U</b>			4925 Feb 01 23:16	0°Υ	
asc. node	4922 Aug 10 02:24 4922 Aug 29 07:34	15° <b>Ω</b> 59'31		evening max el	4925 Feb 09 03:18	7° <b>Υ</b> 26'42	47°09'40
asc. Hode	4922 Sep 09 20:01	0°m)		asc. node	4925 Feb 13 02:37	11° <b>Υ</b> 25'26	47 0940
	4922 Oct 04 07:39	0∘ <b>⊽</b>		asc. Houc	4925 Mar 06 05:44	0° <b>8</b>	
morning set	4922 Oct 16 02:02	0 <b>=</b> 14° <b>£</b> 30'34		greatest brilliancy	4925 Mar 21 16:30	8° <b>8</b> 49'55	-4.9m
morning set	4922 Oct 10 02.02 4922 Oct 28 14:20	0°M		retrograde	4925 Mar 31 21:55	10° <b>8</b> 48'38	-4.9111
max. Earth dist.	4922 Nov 19 13:44	27°M18'30	1.72234 AU	evening set	4925 Apr 18 15:43	4° <b>8</b> 42'15	
max. Earth dist.	4922 Nov 19 13:44 4922 Nov 21 17:36	27 IIC18 30 0° <b>⊼</b> ¹	1.72234 AU	inferior conj	4925 Apr 21 18:20	2° <b>8</b> 47'05	8°27'34
	4922 NOV 21 17.30	0 <b>x</b> .		minimum elong	4925 Apr 22 01:21	2° <b>8</b> 36'10	8°26'49
superior conj	4922 Nov 22 07:16	0° <b>∡</b> ¹42'35	0050120	min. Earth dist.	4925 Apr 21 11:58	2° <b>8</b> 57'01	0.27576 AU
minimum elong	4922 Nov 22 07.16 4922 Nov 22 17:19	1° <b>x</b> '4233		morning rise	4925 Apr 25 11:13	0° <b>8</b> 31'16	0.27376 AU
minimum ciong		0°る	0 37 38	morning rise	1	0 <b>O</b> 31 10	
desc. node	4922 Dec 15 18:45	0 る 3° <b>る</b> 57'14		direct	4925 Apr 26 08:40	30 K I 24° <b>Υ</b> 53'53	
	4922 Dec 18 22:42	3 03/14 19° <b>る</b> 47'48		direct	4925 May 12 13:54	24 <b>γ</b> 33 33 26° <b>γ</b> 33'21	-4.8m
evening rise	4922 Dec 31 14:47	19 <b>0</b> 4748		greatest brilliancy	4925 May 21 23:32	0° <b>8</b>	-4.6111
	4923 Jan 08 18:31	0 <b>≈</b> 0° <b>∺</b>		daga mada	4925 May 29 16:20 4925 Jun 04 17:39	3° <b>8</b> 41'48	
	4923 Feb 01 17:39	0 K 0°Υ		desc. node		25° <b>8</b> 53'51	46°03'34
	4923 Feb 25 17:42	0° <b>8</b>		morning max el	4925 Jul 01 00:07	0° <b>Ⅱ</b>	40 03 34
aca mada	4923 Mar 21 21:32	24° <b>8</b> 40'50			4925 Jul 05 04:20	0₀æ	
asc. node	4923 Apr 11 00:22	0°Ⅱ			4925 Aug 02 13:30	0° <b>U</b> 0 €3	
	4923 Apr 15 09:26	0.2€			4925 Aug 29 02:05		
	4923 May 10 11:30			1-	4925 Sep 23 16:27	0°M)	
	4923 Jun 05 14:57	0° <b>Ω</b> 0° <b>n</b>		asc. node	4925 Sep 25 19:33	2°My31'54 0°Ω	
	4923 Jul 04 03:07	-	45027121		4925 Oct 18 15:49		
evening max el	4923 Jul 04 21:21	0° Mp 44'14	45°37'21		4925 Nov 12 04:16	0° <b>M</b> 0° <b>∡</b> 1	
desc. node	4923 Jul 31 15:21	22° m 56'38	4 7		4925 Dec 06 09:21		
greatest brilliancy	4923 Aug 12 04:12	28° Mp 50′26 0° <u>₽</u>	-4./m	morning set	4925 Dec 26 00:54	24° <b>₹</b> 31'25	
. 1	4923 Aug 15 23:12				4925 Dec 30 09:56	0°る	
retrograde	4923 Aug 22 18:18	0° <b>ჲ</b> 51'31		desc. node	4926 Jan 15 10:25	20° <b>ප</b> 05'01	
	4923 Aug 29 07:48	30°RM)		Fauth diet	4926 Jan 23 07:54	0°≈ 14°••2214€	1 71170 ATT
evening set	4923 Sep 09 01:43	25° TQ 11'11	0000150	max. Earth dist.	4926 Feb 03 18:48	14°≈23′46	1.71170 AU
inferior conj	4923 Sep 13 06:16	22° TD 36'46			4026 F. L. 04, 15,02	1.5027122	0046121
minimum elong	4923 Sep 12 23:29	22° m/47'24		superior conj	4926 Feb 04 15:02	15°≈27'22	
min. Earth dist.	4923 Sep 13 06:06	22° Tp 37'02	0.29125 AU	minimum elong	4926 Feb 04 04:25	14°≈54'00	0°45'53
morning rise	4923 Sep 16 21:12	20° Th 22'33			4926 Feb 16 04:31	0° <b>∀</b>	
direct	4923 Oct 04 20:51	14° Mp 18'02	4.0		4926 Mar 12 01:05	0° <b>Υ</b>	
greatest brilliancy	4923 Oct 15 10:29	16° <b>m</b> 19'51	-4.8m	evening rise	4926 Mar 17 13:56	6° <b>Y</b> 57'06	
1	4923 Nov 06 11:19	0∘ <b>ত</b>			4926 Apr 04 23:29	8°0	
asc. node	4923 Nov 21 17:12	13° <b>Ω</b> 44'03	46010115	aca mad-	4926 Apr 29 02:00	0°Ⅱ 11°Ⅲ20112	
morning max el	4923 Nov 23 09:56	15° <b>£</b> 23'42	46°10'15	asc. node	4926 May 08 12:21	11° <b>I</b> I39'13	
	4923 Dec 07 13:43	0°M 0°. <b>₹</b>			4926 May 23 10:53	0° <b>ಲ</b>	
	4924 Jan 03 06:30	0° <b>∡</b> ¹			4926 Jun 17 04:35	0°O	
	4924 Jan 28 12:13	0°る			4926 Jul 12 11:04	0° m/	
	4924 Feb 22 02:18	0°≈			4926 Aug 07 14:49	0ಂ <del>ರ</del>	
desc. node	4924 Mar 12 08:05	23°≈45'33		desc. node	4926 Aug 28 03:06	22° <b>≙</b> 18'10	
	4924 Mar 17 08:55	0° <b>\</b>			4926 Sep 04 14:05	0°M,	
	4924 Apr 10 12:20	0°Υ •••		evening max el	4926 Sep 14 05:26	9°M30'16	45°43'05
	4924 May 04 15:13	0° <b>8</b>			4926 Oct 08 18:13	0° <b>⊼</b>	
morning set	4924 May 28 06:23	29° <b>8</b> 19'46		greatest brilliancy	4926 Oct 23 18:56	7° <b>х</b> 45'14	-4.8m
	4924 May 28 19:22	0°II		retrograde	4926 Nov 01 23:28	9° <b>х</b> 17'17	
	4924 Jun 22 01:32	0°5		evening set	4926 Nov 18 07:04	4° <b>₹</b> 14'55	#0#0:0 <del>*</del>
asc. node	4924 Jul 03 09:58	14° <b>©</b> 00'15		inferior conj	4926 Nov 22 23:50	1° <b>∡</b> ¹25'28	
		:		minimum elong	4926 Nov 23 10:05	1° <b>∡</b> 109'37	
superior conj	4924 Jul 05 03:53	16°9509'27	0°04'14	min. Earth dist.	4926 Nov 23 23:05	0° <b>∡</b> 749'32	0.27763 AU
minimum elong	4924 Jul 05 02:57	16°906'35	0°04'10		4926 Nov 25 07:21	30°RM.	
behind sun begin	4924 Jul 04 04:22	14° <b>©</b> 56'58		morning rise	4926 Nov 28 12:29	28°M06'33	
behind sun end	4924 Jul 06 01:32	17° <b>©</b> 16'12		direct	4926 Dec 14 02:04	23°M22'58	
max. Earth dist.	4924 Jul 06 19:32	18° <b>©</b> 11'41	1.73208 AU	asc. node	4926 Dec 19 05:00	23°M53'31	

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greatest brilliancy	4926 Dec 25 06:12	25°M42'09	-4.9m		4929 Jun 06 18:52	0ಂಣ	
	4927 Jan 02 15:41	0°⊀			4929 Jul 01 03:52	$0^{\circ}\Omega$	
morning max el	4927 Feb 02 15:21	26° <b>₹</b> 24'56	46°52'33		4929 Jul 25 17:41	0° <b>™</b>	
	4927 Feb 06 03:12	<b>℃</b> 0			4929 Aug 19 13:52	0∘ <b>⊽</b>	
	4927 Mar 05 10:12	0°≈			4929 Sep 13 19:25	$0^{\circ}$ M	
	4927 Mar 31 00:40	0° <b>∀</b>		desc. node	4929 Sep 24 15:00	12°M39'47	
desc. node	4927 Apr 09 20:06	11° <b>)</b> 44'39			4929 Oct 09 15:37	0° <b>∡</b>	
	4927 Apr 24 23:02	0° <b>Υ</b>			4929 Nov 05 13:45	0°る	
	4927 May 19 14:33	8°0		evening max el	4929 Nov 25 21:17	21° <b>る</b> 04'39	46°38'12
	4927 Jun 13 03:42	0°© 0°∏			4929 Dec 05 06:25	0°≈ 21°2 • 20'05	4.0
asc. node	4927 Jul 07 16:17 4927 Jul 31 21:44	0 55 29°5540'05		greatest brilliancy retrograde	4930 Jan 05 03:11 4930 Jan 15 00:46	21°≈20'05 23°≈11'18	-4.9m
asc. Houc	4927 Aug 01 04:14	0°Ω		asc. node	4930 Jan 15 16:47	23°≈10'45	
morning set	4927 Aug 06 13:19	6° <b>Ω</b> 35'46		evening set	4930 Jan 29 17:54	18°≈53'55	
morning sec	4927 Aug 25 14:41	0° <b>m</b> )		inferior conj	4930 Feb 04 14:23	15° <b>≈</b> 27'57	4°54'54
max. Earth dist.	4927 Sep 10 08:00		1.73344 AU	minimum elong	4930 Feb 04 04:35	15° <b>≈</b> 42'54	4°52'12
	ī	Î		min. Earth dist.	4930 Feb 04 06:12	15° <b>≈</b> 40′26	0.26663 AU
superior conj	4927 Sep 12 03:01	21° <b>m</b> 34'02	1°19'06	morning rise	4930 Feb 09 15:17	12° <b>≈</b> 28'50	
minimum elong	4927 Sep 11 20:41	21°Mp 14'31	1°19'00	direct	4930 Feb 25 01:31	7° <b>≈</b> 46′26	
	4927 Sep 18 23:09	0∘ <b>⊽</b>		greatest brilliancy	4930 Mar 06 19:37	9° <b>≈</b> 34'54	-4.9m
	4927 Oct 13 06:08	0°M₊			4930 Apr 05 13:11	0° <b>∀</b>	
evening rise	4927 Oct 18 11:59	6°M28'49		morning max el	4930 Apr 16 10:41	10° <b>)</b> 27′00	46°49'37
	4927 Nov 06 12:34	0°⊀			4930 May 05 01:16	0° <b>Υ</b>	
desc. node	4927 Nov 20 12:49	17° <b>₹</b> 19'02		desc. node	4930 May 07 07:57	2° <b>Y</b> 29'40	
	4927 Nov 30 19:06	5°0			4930 May 31 16:31	0° <b>∀</b>	
	4927 Dec 25 02:02	0° <b>₩</b>			4930 Jun 26 08:39	0° <b>©</b> 0°¶	
	4928 Jan 18 10:23 4928 Feb 11 23:33	0 <b>Υ</b> 0° <b>Υ</b>			4930 Jul 21 14:24 4930 Aug 15 13:34	0°Ω	
	4928 Mar 08 01:08	0°8		asc. node	4930 Aug 28 09:41	15° <b>Ω</b> 32'40	
asc. node	4928 Mar 12 14:29	5° <b>8</b> 20'17			4930 Sep 09 06:48	0° m)	
	4928 Apr 03 07:18	0°Щ			4930 Oct 03 18:17	0∘ <u>v</u>	
evening max el	4928 Apr 21 21:25	19° <b>Ⅱ</b> 34'34	46°28'09	morning set	4930 Oct 13 19:07	12° <b>ჲ</b> 22'23	
	4928 May 02 19:48	0°€			4930 Oct 28 00:56	$0^{\circ}$ M	
greatest brilliancy	4928 May 30 21:14	19° <b>5</b> 018'40	-4.8m	max. Earth dist.	4930 Nov 17 05:19	25°M04'28	1.72281 AU
retrograde	4928 Jun 10 19:12	21° <b>©</b> 30'46					
evening set	4928 Jun 25 20:42	17° <b>©</b> 05'21		superior conj	4930 Nov 19 22:22	28°M26'55	1°00'50
inferior conj	4928 Jul 02 03:57	13°5018'10	0°00'52	minimum elong	4930 Nov 20 08:22		1°00'30
minimum elong transit middle	4928 Jul 02 03:59 4928 Jul 02 03:59	13°©18'07 13°©18'07			4930 Nov 21 04:15 4930 Dec 15 05:30	0°⋜	
transit begin	4928 Jul 02 03:56	13°924'27	0 00 31	desc. node	4930 Dec 13 03:30 4930 Dec 18 00:39	0 8 3° <b>る</b> 29'39	
transit end	4928 Jul 02 08:02	13°9511'46		evening rise	4930 Dec 18 00:39 4930 Dec 29 03:20	17° <b>る</b> 23'03	
min. Earth dist.	4928 Jul 01 20:39		0.28487 AU	evening rise	4931 Jan 08 05:24	0°≈	
desc. node	4928 Jul 02 05:23	13°9515'55			4931 Feb 01 04:42	0° <b>)</b> €	
morning rise	4928 Jul 08 11:41	9° <b>5</b> 30'47			4931 Feb 25 04:58	$0^{\circ}$ Y	
direct	4928 Jul 23 11:26	5° <b>©</b> 10'16			4931 Mar 21 09:09	0°8	
greatest brilliancy	4928 Aug 02 11:18	6° <b>9</b> 57'51	-4.7m	asc. node	4931 Apr 10 02:27	24° <b>8</b> 10'37	
	4928 Sep 05 00:24	$0$ $^{\circ}$ $\Omega$			4931 Apr 14 21:35	$\Pi$ °0	
morning max el	4928 Sep 10 02:43	4° <b>Ω</b> 45'19	45°42'02		4931 May 10 00:41	0°95	
	4928 Oct 04 18:16	0° <b>m</b> )			4931 Jun 05 06:21	0° <b>Ω</b>	
asc. node	4928 Oct 23 07:29	20° m 37'40		evening max el	4931 Jul 02 14:09	28° <b>Ω</b> 36'03	45°38'24
	4928 Oct 31 11:22	0° <b>™</b> 0° <b>亚</b>		desc. node	4931 Jul 04 01:01	0°M)	
	4928 Nov 25 20:34 4928 Dec 20 12:19	0° <b>⊼</b> 1		greatest brilliancy	4931 Jul 30 17:23 4931 Aug 09 19:05	21° Mp 41'08 26° Mp 41'00	-4.7m
	4929 Jan 13 18:21	% ਰ ੇ		retrograde	4931 Aug 20 10:44	28° Mp 43'06	<del>-4</del> ./III
	4929 Feb 06 19:09	0° <b>≈</b>		evening set	4931 Sep 06 15:01	23° m) 07'16	
desc. node	4929 Feb 11 22:12	6°≈25'22		inferior conj	4931 Sep 10 22:35	20° m/28'05	-7°53'28
	4929 Mar 02 17:18	0° <b>)</b> €		minimum elong	4931 Sep 10 15:15	20° m 39'34	
morning set	4929 Mar 12 07:43	12° <b>)</b> €03'26		min. Earth dist.	4931 Sep 10 21:04	20° Mp 30'26	0.29129 AU
	4929 Mar 26 14:39	$0^{\circ}\mathbf{\Upsilon}$		morning rise	4931 Sep 14 15:30	18° <b>m</b> 10'46	
	4929 Apr 19 13:02	0°8		direct	4931 Oct 02 13:45	12° <b>m</b> 09'40	
				greatest brilliancy	4931 Oct 13 01:01	14° <b>m</b> 09'23	-4.8m
superior conj	4929 Apr 21 22:27	2° <b>8</b> 59'35			4931 Nov 06 18:05	0∘ <b>ʊ</b>	
minimum elong	4929 Apr 22 05:50	3° <b>8</b> 22'38		asc. node	4931 Nov 20 19:12	12° <b>£</b> 55'33	4.000012.4
max. Earth dist.	4929 Apr 25 15:46		1.71793 AU	morning max el	4931 Nov 21 01:33	13° <b>Ω</b> 11'10	46°08'34
evening rise	4929 May 13 14:05 4929 May 31 11:42	0°Ⅱ 22°Ⅱ12'44			4931 Dec 07 07:07 4932 Jan 02 20:36	0° <b>M</b> 0° <b>⊀</b>	
asc. node	4929 May 31 11:42 4929 Jun 05 00:10	27° <b>I</b> I48'06			4932 Jan 02 20:36 4932 Jan 28 00:56	0° <b>x</b> ' ਰ°ਰ	
use. 11000	1727 July 03 00.10	27 H-1000			1752 Juli 20 00.30	υ <b>Ο</b>	

	4932 Feb 21 14:16	0° <b>≈</b>			4934 Aug 07 05:34	0∘ <b>ত</b>	
desc. node	4932 Mar 11 10:15	0 ∞ 23°≈16'17		desc. node	4934 Aug 27 05:13	0 <b>==</b> 21° <b>⊆</b> 37'01	
desc. node	4932 Mar 16 20:25	23 ≈1017 0° <b>H</b>		desc. node	4934 Sep 04 09:52	0°ML	
	4932 Mai 10 20:23 4932 Apr 09 23:31	0°Υ		evening max el	4934 Sep	7°ML12'46	45°41'53
	4932 Apr 09 23:31 4932 May 04 02:09	0°8		evening max er	4934 Oct 09 20:51	0° <b>x</b> <sup>1</sup>	45 41 55
morning sot	4932 May 25 21:11	27° <b>8</b> 03'37		grantast brillianav	4934 Oct 21 08:56	0 <b>x</b> . 5° <b>x</b> 728'46	-4.8m
morning set	-	27 <b>3</b> 03 37 0° <b>Ⅱ</b>		greatest brilliancy			-4.0111
	4932 May 28 06:07	0°9		retrograde	4934 Oct 30 12:51	7°×700'42	
1-	4932 Jun 21 12:09			evening set	4934 Nov 16 00:09	1° <b>∡</b> 753′19	
asc. node	4932 Jul 02 11:55	13° <b>©</b> 33'34			4934 Nov 19 04:24	30°RM	co. 40.5
	4000 X 1 00 00 10	120050112	0000151	inferior conj	4934 Nov 20 14:09	29°MJ08'01	
superior conj	4932 Jul 02 20:13	13°959'13	0°00'51	minimum elong	4934 Nov 21 00:26	28°M52'08	6°12'11
minimum elong	4932 Jul 02 20:03	13°958'41	0°00'49	min. Earth dist.	4934 Nov 21 13:56	28°MJ31'16	0.27830 AU
behind sun begin	4932 Jul 01 20:50	12° <b>©</b> 47'07		morning rise	4934 Nov 26 00:02	25°M52'49	
behind sun end	4932 Jul 03 19:15	15° <b>©</b> 10'14		direct	4934 Dec 11 16:24	21°ML04'15	
max. Earth dist.	4932 Jul 04 16:40	16°9516'14	1.73175 AU	asc. node	4934 Dec 18 06:54	21°M54'28	
	4932 Jul 15 20:04	$0^{\circ}\Omega$		greatest brilliancy	4934 Dec 22 22:09	23°M24'38	-4.9m
evening rise	4932 Aug 08 14:14	29° <b>Ω</b> 13'25			4935 Jan 03 19:53	0° <b>∡</b> ¹	
	4932 Aug 09 05:24	O° Mp		morning max el	4935 Jan 31 05:24	24° <b>≯</b> 03'02	46°51'39
	4932 Sep 02 16:06	0∘ <b>⊽</b>			4935 Feb 05 23:41	0°₹	
	4932 Sep 27 05:01	$0^{\circ}$ M			4935 Mar 05 01:41	0° <b>≈</b>	
	4932 Oct 21 21:19	0° <b>∡</b> ¹			4935 Mar 30 14:09	0° <b>ℋ</b>	
desc. node	4932 Oct 22 02:59	0° <b>∡</b> 17'10		desc. node	4935 Apr 08 22:06	11° <b>∺</b> 11'33	
	4932 Nov 15 18:09	ರ°0			4935 Apr 24 11:26	$0$ ° $\Upsilon$	
	4932 Dec 10 21:44	0° <b>≈</b>			4935 May 19 02:17	$_{0\circ}$ 8	
	4933 Jan 05 14:52	0° <b>)</b> €			4935 Jun 12 14:58	$\Pi^{\circ}$	
	4933 Feb 01 19:36	$0^{\circ}\mathbf{\Upsilon}$			4935 Jul 07 03:13	$0$ $\circ$ $\odot$	
evening max el	4933 Feb 06 17:47	5° <b>Ƴ</b> 04'52	47°09'46	asc. node	4935 Jul 30 23:49	29° <b>©</b> 13'37	
asc. node	4933 Feb 12 04:43	10° <b>Ƴ</b> 31'04			4935 Jul 31 14:57	$0^{\circ}\Omega$	
	4933 Mar 07 04:31	0° <b>႘</b>		morning set	4935 Aug 04 06:35	4° <b>Ω</b> 28'45	
greatest brilliancy	4933 Mar 19 07:27	6° <b>8</b> 28'31	-4.9m	C	4935 Aug 25 01:17	0° m⊅	
retrograde	4933 Mar 29 11:50	8° <b>8</b> 26'07		max. Earth dist.	4935 Sep 08 03:59	17° m/22'33	1.73367 AU
evening set	4933 Apr 16 08:04	2° <b>8</b> 16'49					
inferior conj	4933 Apr 19 08:07	0° <b>8</b> 25'23	8°35'24	superior conj	4935 Sep 09 20:59	19° <b>m</b> 28'50	1°17'52
minimum elong	4933 Apr 19 14:25	0° <b>8</b> 15'35		minimum elong	4935 Sep 09 14:11	19° <b>m</b> 07'53	1°17'43
min. Earth dist.	4933 Apr 19 01:16	0° <b>8</b> 36'04	0.27540 AU	minimum crong	4935 Sep 18 09:45	0₀ <b>ರ</b>	1 17 13
mm. Earth dist.	4933 Apr 20 00:25	30°RΥ	0.27540710		4935 Oct 12 16:50	o <b>−</b> 0° <b>n</b>	
morning rise	4933 Apr 22 20:58	28° <b>Υ</b> 15'20		evening rise	4935 Oct 16 04:45	4° <b>ጤ</b> 19'11	
direct	4933 May 10 03:18	22° <b>Υ</b> 33'02		evening rise	4935 Nov 05 23:29	0° <b>∡</b> 7	
greatest brilliancy	4933 May 19 12:06	24° <b>Υ</b> 11'33	1 9m	desc. node	4935 Nov 19 14:45	16° <b>∡</b> 750′53	
greatest offinancy	•	0° <b>8</b>	-4.0111	desc. node	4935 Nov 30 06:16	0°る	
daga mada	4933 May 31 05:07 4933 Jun 03 19:35	2° <b>8</b> 23'58				0°≈	
desc. node			4.600.415.6		4935 Dec 24 13:33		
morning max el	4933 Jun 28 13:28	23° <b>8</b> 34'31	40-04-30		4936 Jan 17 22:22	0° <b>∀</b> 0° <b>Υ</b>	
	4933 Jul 05 01:10	0° <b>I</b> I			4936 Feb 11 12:18		
	4933 Aug 02 04:44	0° <b>©</b>		1	4936 Mar 07 15:15	0°8	
	4933 Aug 28 15:05	$\Omega^{\circ}\Omega$		asc. node	4936 Mar 11 16:30	4° <b>8</b> 44'03	
	4933 Sep 23 04:20	0° <b>m</b>			4936 Apr 03 00:30	0°II	4.602.011.2
asc. node	4933 Sep 24 21:35	2° Mp 02'48		evening max el	4936 Apr 19 11:58	17° <b>Ⅱ</b> 16'55	46°30'13
	4933 Oct 18 03:04	0∘ <b>亚</b>		1 '11'	4936 May 02 23:53	0°95	4.0
	4933 Nov 11 15:12	0°M		greatest brilliancy	4936 May 28 13:31	17°506'06	-4.8m
_	4933 Dec 05 20:08	0°⊀		retrograde	4936 Jun 08 11:26	19°5518'31	
morning set	4933 Dec 23 14:05	22° <b>×</b> 08'53		evening set	4936 Jun 23 13:18	14°951'37	
	4933 Dec 29 20:40	0° <b>ろ</b>		inferior conj	4936 Jun 29 19:40	11° <b>©</b> 06'02	0°21'42
desc. node	4934 Jan 14 12:25	19° <b>る</b> 37'30		minimum elong	4936 Jun 29 20:29	11° <b>5</b> 04'46	0°21'27
	4934 Jan 22 18:41	0° <b>≈</b>		min. Earth dist.	4936 Jun 29 12:47	11° <b>©</b> 16'49	0.28456 AU
max. Earth dist.	4934 Jan 31 22:24	11° <b>≈</b> 30′21	1.71189 AU	desc. node	4936 Jul 01 07:27	10°910'11	
				morning rise	4936 Jul 06 04:03	7° <b>©</b> 18'05	
superior conj	4934 Feb 02 01:42	12° <b>≈</b> 56′07	-0°42'56	direct	4936 Jul 21 02:24	2° <b>©</b> 58'22	
minimum elong	4934 Feb 01 15:38	12° <b>≈</b> 24'31	0°42'29	greatest brilliancy	4936 Jul 31 02:50	4°9546'38	-4.7m
	4934 Feb 15 15:21	0° <b>∀</b>			4936 Sep 05 00:39	$0$ $^{\circ}\Omega$	
	4934 Mar 11 11:57	$0$ ° $\mathbf{\gamma}$		morning max el	4936 Sep 07 18:45	2° <b>Ω</b> 35'41	45°41'58
evening rise	4934 Mar 15 00:12	4° <b>Υ</b> 24'32			4936 Oct 04 10:18	0° <b>m</b> y	
	4934 Apr 04 10:24	$9^{\circ}$ 8		asc. node	4936 Oct 22 09:26	20° <b>m</b> 03'15	
	4934 Apr 28 13:03	$\Pi^{\circ}0$			4936 Oct 31 00:47	0∘ <b>亚</b>	
asc. node	4934 May 07 14:16	11° <b>Ⅱ</b> 10′50			4936 Nov 25 08:49	$0^{\circ}$ M	
	4934 May 22 22:12	0°€			4936 Dec 19 23:59	0° <b>∡</b> 7	
	4934 Jun 16 16:25	$0^{\circ}\Omega$			4937 Jan 13 05:42	0°ರ	
	4934 Jul 11 23:51	0° <b>™</b>			4937 Feb 06 06:17	0° <b>≈</b>	

	4027 F 1 11 00 21	50 - 57110			4020 0 00 14 50	100 m 10146	7045116
desc. node	4937 Feb 11 00:21	5°≈57'18		inferior conj	4939 Sep 08 14:58	18° Mp 18'46	
marning got	4937 Mar 02 04:16	0° <b>∺</b> 9° <b>∺</b> 30'48		minimum elong min. Earth dist.	4939 Sep 08 07:10	18°My31'01	7°44'17 0.29133 AU
morning set	4937 Mar 09 18:04 4937 Mar 26 01:32	9 π3048 0° <b>Υ</b>		morning rise	4939 Sep 08 12:33 4939 Sep 12 10:01	18° m, 22'33 15° m, 58'01	0.29133 AU
	4937 Apr 18 23:52	0°8		direct	4939 Sep 30 06:26	10° Mp 00'37	
	493 / Apr 16 23.32	0.0		greatest brilliancy	4939 Oct 10 16:10	10 mg 58'37	-4.7m
superior conj	4937 Apr 19 10:51	0° <b>8</b> 34'22	-1°23'01	greatest offinality	4939 Nov 06 23:11	0° <b>⊽</b>	-4.7111
minimum elong	4937 Apr 19 17:28	0° <b>8</b> 55'04		morning max el	4939 Nov 18 16:18	0 <b>—</b> 10° <b>≏</b> 55'31	46°06'55
max. Earth dist.	4937 Apr 23 01:28		1.71748 AU	asc. node	4939 Nov 19 21:11	10 <b>⊆</b> 5551 12° <b>⊆</b> 06'48	40 00 33
max. Earth dist.	4937 May 13 00:54	0°II	1.71740710	use. Hode	4939 Dec 07 00:29	0°M	
evening rise	4937 May 29 02:10	19° <b>∏</b> 55'29			4940 Jan 02 10:53	0° <b>⊼</b>	
asc. node	4937 Jun 04 02:07	27° <b>II</b> 20'37			4940 Jan 27 13:52	° ਨ ਹ	
use. Houe	4937 Jun 06 05:43	0°95			4940 Feb 21 02:29	0° <b>≈</b>	
	4937 Jun 30 14:51	$0^{\circ}\Omega$		desc. node	4940 Mar 10 12:09	22° <b>≈</b> 45'20	
	4937 Jul 25 04:57	0° <b>m</b> )		dese. Hode	4940 Mar 16 08:13	0° <b>∀</b>	
	4937 Aug 19 01:39	0∘ <b>⊽</b>			4940 Apr 09 10:59	0°Υ	
	4937 Sep 13 08:09	0°M			4940 May 03 13:21	0°8	
desc. node	4937 Sep 23 17:02	12°M07'05		morning set	4940 May 23 12:15	24° <b>8</b> 47'27	
	4937 Oct 09 06:03	0° <b>∡</b> 7			4940 May 27 17:05	0°II	
	4937 Nov 05 07:44	0°⋜			4940 Jun 20 22:58	0°95	
evening max el	4937 Nov 23 11:56	18° <b>る</b> 44'54	46°36'14				
Ü	4937 Dec 05 11:49	0° <b>≈</b>		superior conj	4940 Jun 30 12:57	11° <b>5</b> 649'29	-0°02'32
greatest brilliancy	4938 Jan 02 15:34	18°≈52'01	-4.9m	minimum elong	4940 Jun 30 13:30	11° <b>©</b> 51'11	0°02'31
retrograde	4938 Jan 12 13:46	20°≈43'14		behind sun begin	4940 Jun 29 14:23	10° <b>©</b> 39'54	
asc. node	4938 Jan 14 18:57	20°≈37'12		behind sun end	4940 Jul 01 12:36	13° <b>©</b> 02'27	
evening set	4938 Jan 27 04:05	16° <b>≈</b> 29'09		asc. node	4940 Jul 01 14:01	13° <b>©</b> 06'49	
inferior conj	4938 Feb 02 02:43	13° <b>≈</b> 00'09	4°33'54	max. Earth dist.	4940 Jul 02 13:53	14° <b>©</b> 20'23	1.73140 AU
minimum elong	4938 Feb 01 17:23	13° <b>≈</b> 14'23	4°31'15		4940 Jul 15 06:52	$0^{\circ}\Omega$	
min. Earth dist.	4938 Feb 01 19:13	13° <b>≈</b> 11'35	0.26653 AU	evening rise	4940 Aug 06 08:41	27° <b>Ω</b> 09′18	
morning rise	4938 Feb 07 06:46	9° <b>≈</b> 56'53			4940 Aug 08 16:15	0° <b>m</b>	
direct	4938 Feb 22 14:39	5° <b>≈</b> 18'46			4940 Sep 02 03:09	0∘ <b>⊽</b>	
greatest brilliancy	4938 Mar 04 08:44	7° <b>≈</b> 07'41	-4.9m		4940 Sep 26 16:23	$0^{\circ}$ M	
	4938 Apr 05 17:08	0° <b>∀</b>		desc. node	4940 Oct 21 04:53	29°M46'59	
morning max el	4938 Apr 14 00:48	8° <b>₩</b> 04'50	46°50'46		4940 Oct 21 09:11	0° <b>∡</b> 7	
	4938 May 04 18:54	$0$ ° $\Upsilon$			4940 Nov 15 06:49	5°0	
desc. node	4938 May 06 09:56	1° <b>Ƴ</b> 47'31			4940 Dec 10 11:37	0° <b>≈</b>	
	4938 May 31 06:54	$9^{\circ}$ 8			4941 Jan 05 06:58	0° <b>)</b> €	
	4938 Jun 25 21:29	$\Pi$ $^{\circ}0$			4941 Feb 01 17:03	$0$ ° $\Upsilon$	
	4938 Jul 21 02:19	0°€		evening max el	4941 Feb 04 07:15	2° <b>Y</b> 39'20	47°09'47
	4938 Aug 15 00:57	$0^{\circ}\Omega$		asc. node	4941 Feb 11 06:44	9° <b>Ƴ</b> 34'11	
asc. node	4938 Aug 27 11:43	15° <b>Ω</b> 04'51			4941 Mar 08 12:58	$0^{\circ}S$	
	4938 Sep 08 17:50	O° My		greatest brilliancy	4941 Mar 16 22:47	4° <b>8</b> 06'16	-4.9m
	4938 Oct 03 05:09	0。 <b>ಹ</b>		retrograde	4941 Mar 27 01:27	6° <b>8</b> 02'29	
morning set	4938 Oct 11 12:04	10° <b>₽</b> 13'08			4941 Apr 13 17:59	30° <b>₹Ƴ</b>	
	4938 Oct 27 11:46	0°M₊		evening set	4941 Apr 14 00:11	29° <b>Y</b> 50'36	
max. Earth dist.	4938 Nov 14 19:20	22°M45'00	1.72326 AU	inferior conj	4941 Apr 16 21:56	28° <b>Y</b> ′02'40	8°42'20
		W		minimum elong	4941 Apr 17 03:28	27° <b>Y</b> 54'01	8°41'52
superior conj	4938 Nov 17 13:27	26°M10'40	1°03'14	min. Earth dist.	4941 Apr 16 14:59	28°Υ13'30	0.27503 AU
minimum elong	4938 Nov 17 23:23	26°M41'34	1°02'55	morning rise	4941 Apr 20 06:55	25° <b>Y</b> 58'12	
	4938 Nov 20 15:08	0° <b>⊼</b>		direct	4941 May 07 16:08	20°Υ10'54	4.0
1 1	4938 Dec 14 16:30	0°る		greatest brilliancy	4941 May 17 01:19	21° <b>Y</b> 49'18	-4.8m
desc. node	4938 Dec 17 02:40	3° <b>る</b> 01'34		1 1-	4941 Jun 01 07:35	0° <b>8</b>	
evening rise	4938 Dec 26 15:52	14°る57'30		desc. node	4941 Jun 02 21:36	1° <b>8</b> 07'40	46906125
	4939 Jan 07 16:34	0° <b>≈</b> 0° <b>∀</b>		morning max el	4941 Jun 26 02:37	21° <b>8</b> 13'40	46°06'35
	4939 Jan 31 16:02	0° <b>Υ</b>			4941 Jul 04 21:36	0° <b>©</b> 0°∏	
	4939 Feb 24 16:31	0°8			4941 Aug 01 19:58	0°€ 0 €	
asc. node	4939 Mar 20 20:59 4939 Apr 09 04:24	23° <b>8</b> 39'26			4941 Aug 28 04:13 4941 Sep 22 16:26	0°Mp	
asc. nout	4939 Apr 14 09:57	0° <b>Ⅱ</b>		asc. node	4941 Sep 22 16:26 4941 Sep 23 23:31	0° Mg 32'39	
	4939 Apr 14 09.37 4939 May 09 14:06	0°9		ase. Houc	4941 Sep 23 23:31 4941 Oct 17 14:37	0° <b>⊽</b>	
	4939 Jun 04 22:08	0°Ω 0 €3			4941 Oct 17 14.37 4941 Nov 11 02:28	0°M	
evening max el	4939 Jun 30 06:33	26° <b>Ω</b> 26'16	45°39'15		4941 Nov 11 02:28 4941 Dec 05 07:16	0° <b>∕</b> 7⊓	
Cronning must of	4939 Jul 04 00:06	0° Mp	15 57 15	morning set	4941 Dec 21 03:18	19° <b>∡</b> 45′23	
desc. node	4939 Jul 29 19:30	20° m/22'36			4941 Dec 29 07:47	0°る	
greatest brilliancy	4939 Aug 07 10:38	24° m/31'31	-4.7m	desc. node	4942 Jan 13 14:33	00 19° <b>ろ</b> 09'18	
retrograde	4939 Aug 18 02:43	26° m 33'54	<del>-</del>		4942 Jan 22 05:48	0° <b>≈</b>	
evening set	4939 Sep 04 04:20	21° mp 02'47		max. Earth dist.	4942 Jan 29 03:49		1.71210 AU
		·* 2= ·/					

superior conj	4942 Jan 30 12:17	10° <b>≈</b> 23'35	0°20'26	direct	4944 Jul 18 17:50	0° <b>©</b> 45'38	
minimum elong	4942 Jan 30 02:51	10 ≈23 33 9°≈53'57		greatest brilliancy	4944 Jul 28 17:45	2° <b>©</b> 34'01	-4.7m
minimum clong	4942 Feb 15 02:30	9 <b>≈</b> 3337	0 3900	greatest billiancy	4944 Sep 04 23:58	2 <b>3</b> 3401 0°Ω	-4./111
	4942 Feb 13 02.30 4942 Mar 10 23:09	0 <del>Υ</del> 0° <b>Υ</b>		morning max el	4944 Sep 04 23.38 4944 Sep 05 11:23	0° <b>Ω</b> 27'08	45942105
avanina riaa		1° <b>Υ</b> 51'00		morning max er			43 42 03
evening rise	4942 Mar 12 10:31			4-	4944 Oct 04 02:10	0°M)	
	4942 Apr 03 21:41	0° <b>B</b>		asc. node	4944 Oct 21 11:28	19° m/29'01	
,	4942 Apr 28 00:28	0°II			4944 Oct 30 14:09	0∘ <b>亚</b>	
asc. node	4942 May 06 16:18	10° <b>Ⅱ</b> 41'40			4944 Nov 24 21:05	0°M 0°. <b>7</b>	
	4942 May 22 09:53	0° <b>©</b>			4944 Dec 19 11:43	0° <b>∡</b> 7	
	4942 Jun 16 04:35	$0^{\circ}\Omega$			4945 Jan 12 17:10	0°ರ	
	4942 Jul 11 12:58	0° <b>m</b> )			4945 Feb 05 17:35	0° <b>≈</b>	
	4942 Aug 06 20:44	0∘ <b>⊽</b>		desc. node	4945 Feb 10 02:19	5°≈28'05	
desc. node	4942 Aug 26 07:11	20° <b>≙</b> 54'25			4945 Mar 01 15:28	0° <b>∀</b>	
	4942 Sep 04 06:32	0° <b>M</b> ₊		morning set	4945 Mar 07 03:58	6° <b>¥</b> 56'00	
evening max el	4942 Sep 09 08:14		45°40'42		4945 Mar 25 12:38	$0^{\circ}\Upsilon$	
	4942 Oct 11 11:13	0° <b>∡</b> ¹				••	
greatest brilliancy	4942 Oct 18 22:16	3° <b>≯</b> 11'15	-4.8m	superior conj	4945 Apr 16 22:37	28° <b>Y</b> ′06′27	
retrograde	4942 Oct 28 02:48	4° <b>∡</b> ¹43'55		minimum elong	4945 Apr 17 04:24	28° <b>Y</b> ′24'32	1°24'02
	4942 Nov 12 21:00	30°RM			4945 Apr 18 10:54	$9^{\circ}$ 8	
evening set	4942 Nov 13 17:23	29°M31'13		max. Earth dist.	4945 Apr 20 12:30	_	1.71702 AU
inferior conj	4942 Nov 18 04:36	26°M50'03	-6°29'04		4945 May 12 11:53	$\Pi$ $\circ$ 0	
minimum elong	4942 Nov 18 14:51	26°M34'14	6°26'57	evening rise	4945 May 26 16:11	17° <b>Ⅲ</b> 36′17	
min. Earth dist.	4942 Nov 19 04:35	26°M13'02	0.27904 AU	asc. node	4945 Jun 03 04:14	26° <b>Ⅱ</b> 53'14	
morning rise	4942 Nov 23 11:39	23°M38'57			4945 Jun 05 16:43	$0$ $\circ$ $\odot$	
direct	4942 Dec 09 07:23	18° <b>M</b> .44'57			4945 Jun 30 01:58	$0^{\circ}\Omega$	
asc. node	4942 Dec 17 09:03	19° <b>M</b> 59'20			4945 Jul 24 16:21	0° <b>m</b> y	
greatest brilliancy	4942 Dec 20 14:08	21°ML06'30	-4.9m		4945 Aug 18 13:34	0∘ <b>ত</b>	
	4943 Jan 04 16:54	0° <b>∡</b> ¹			4945 Sep 12 21:00	0° <b>M</b> ₊	
morning max el	4943 Jan 28 20:34	21° <b>∡</b> ¹42'55	46°50'40	desc. node	4945 Sep 22 19:00	11° <b>M</b> .34'01	
	4943 Feb 05 19:58	0°ಕ			4945 Oct 08 20:35	0° <b>∡</b> ¹	
	4943 Mar 04 17:20	0° <b>≈</b>			4945 Nov 05 02:01	0° <b>ح</b>	
	4943 Mar 30 03:52	0° <b>∀</b>		evening max el	4945 Nov 21 02:47	16° <b>る</b> 26'16	46°34'09
desc. node	4943 Apr 08 00:06	10° <b>)</b> 37'38		Č	4945 Dec 05 19:11	0° <b>≈</b>	
	4943 Apr 24 00:05	$0^{\circ}$		greatest brilliancy	4945 Dec 31 04:12	16° <b>≈</b> 25'00	-4.9m
	4943 May 18 14:15	0°8		retrograde	4946 Jan 10 02:26	18° <b>≈</b> 15'34	
	4943 Jun 12 02:29	0°II		asc. node	4946 Jan 13 20:54	17° <b>≈</b> 58'10	
	4943 Jul 06 14:25	0°©		evening set	4946 Jan 24 14:40	14° <b>≈</b> 04'41	
asc. node	4943 Jul 30 01:52	28° <b>©</b> 46'15		inferior conj	4946 Jan 30 15:11		4°12'18
use. Houe	4943 Jul 31 01:55	0°Ω		minimum elong	4946 Jan 30 06:24	10°≈46'14	
morning set	4943 Aug 02 00:12	2° <b>Ω</b> 21'58		min. Earth dist.	4946 Jan 30 08:34	10° <b>≈</b> 42'55	0.26652 AU
morning set	4943 Aug 24 12:06	0° <b>m</b> )		morning rise	4946 Feb 04 22:13	7°≈25'21	0.20032 710
max. Earth dist.	4943 Sep 06 02:03	-	1.73383 AU	direct	4946 Feb 20 03:52	2°≈51'32	
max. Earm dist.	4943 Sep 00 02.03	13 111/2922	1.73363 AU	greatest brilliancy	4946 Mar 01 22:20	2 ≈31 32 4°≈40'51	-4.9m
superior conj	4943 Sep 07 15:20	17° <b>m</b> ) 24'16	1°16'31	greatest billiancy	4946 Apr 05 19:38	0° <b>)</b>	-4.9111
minimum elong	4943 Sep 07 08:06	17° Mp 01'58		morning max el	4946 Apr 11 14:10	5° <b>)</b> 40′14	46°51'30
minimum clong	•	0∘ <b>⊽</b>	1 1021	morning max er	4946 May 04 12:20	5 <b>γ</b> (4014	40 31 39
	4943 Sep 17 20:32	0° <b>M</b> ₊		4 4-	4946 May 04 12.20 4946 May 05 11:59	1°Υ05'35	
	4943 Oct 12 03:44			desc. node	,		
evening rise	4943 Oct 13 22:03	2°M10'40			4946 May 30 21:16	0° <b>Β</b>	
	4943 Nov 05 10:36	0°⊀ <b>7</b>			4946 Jun 25 10:18	0° <b>Ⅱ</b>	
desc. node	4943 Nov 18 16:52	16° <b>₹</b> 22'38			4946 Jul 20 14:14	0° <b>©</b>	
	4943 Nov 29 17:43	5°0			4946 Aug 14 12:17	0°N	
	4943 Dec 24 01:22	0° <b>≈</b>		asc. node	4946 Aug 26 13:37	14° <b>Ω</b> 36'44	
	4944 Jan 17 10:44	0° <b>∀</b>			4946 Sep 08 04:50	0° <b>m</b> y	
	4944 Feb 11 01:28	0° <b>Υ</b>			4946 Oct 02 15:58	0∘ <b>⊽</b>	
_	4944 Mar 07 05:52	0° <b>8</b>		morning set	4946 Oct 09 05:13	8° <b>≏</b> 04'42	
asc. node	4944 Mar 10 18:27	4° <b>8</b> 06'21			4946 Oct 26 22:31	0° <b>M</b>	
	4944 Apr 02 18:25	$\Pi^{\circ}$ 0		max. Earth dist.	4946 Nov 12 08:30	20°M23'17	1.72368 AU
evening max el	4944 Apr 17 03:19	15° <b>Ⅱ</b> 00′25	46°32'22				
	4944 May 03 06:21	0°€		superior conj	4946 Nov 15 05:07	23°M56'36	1°05'31
greatest brilliancy	4944 May 26 05:23	14° <b>9</b> 52'16	-4.8m	minimum elong	4946 Nov 15 14:53	24°M27'00	1°05'12
retrograde	4944 Jun 06 03:56	17° <b>©</b> 05'16			4946 Nov 20 01:54	0° <b>∡</b>	
evening set	4944 Jun 21 06:03	12° <b>5</b> 36'51			4946 Dec 14 03:21	0°ප	
inferior conj	4944 Jun 27 11:18	8°952'54		desc. node	4946 Dec 16 04:46	2° <b>ප</b> 34'15	
minimum elong	4944 Jun 27 12:53	8°950'25	0°42'09	evening rise	4946 Dec 24 04:56	12° <b>る</b> 34'14	
min. Earth dist.	4944 Jun 27 04:33	9° <b>©</b> 03'26	0.28422 AU		4947 Jan 07 03:33	0° <b>≈</b>	
desc. node	4944 Jun 30 09:35	7° <b>5</b> 04'12			4947 Jan 31 03:14	0° <b>∀</b>	
morning rise	4944 Jul 03 20:11	5° <b>5</b> 04'42			4947 Feb 24 03:58	$0^{\circ}$ Y	

	4947 Mar 20 08:48	0°8			4949 Aug 27 17:04	0°O	
asc. node	4947 Apr 08 06:24	23° <b>8</b> 08'18 0° <b>Ⅱ</b>		aga mada	4949 Sep 22 04:14	0° Mp	
	4947 Apr 13 22:22 4947 May 09 03:40	0₀ <b>©</b> 0∘П		asc. node	4949 Sep 23 01:36 4949 Oct 17 01:51	1°₯03'45 0°₽	
	4947 Jun 04 14:16	0° <b>U</b>			4949 Nov 10 13:23	0° <b>m</b>	
evening max el	4947 Jun 27 21:56	24° <b>Ω</b> 13'46	45°40'19		4949 Dec 04 18:04	0° <b>⊼</b> ¹	
evening max er	4947 Jul 04 00:19	0°m/	15 10 17	morning set	4949 Dec 18 16:36	17° <b>×</b> <sup>7</sup> 23'13	
desc. node	4947 Jul 28 21:24	19° <b>m</b> 01'09		. 8	4949 Dec 28 18:33	0°ెవ	
greatest brilliancy	4947 Aug 05 02:22	22° m/22'05	-4.7m	desc. node	4950 Jan 12 16:28	18° <b>る</b> 41'33	
retrograde	4947 Aug 15 18:18	24° Mp 24'42			4950 Jan 21 16:36	0° <b>≈</b>	
evening set	4947 Sep 01 17:28	18° <b>m</b> 58'14		max. Earth dist.	4950 Jan 26 11:41	6° <b>≈</b> 01'33	1.71229 AU
inferior conj	4947 Sep 06 07:15	16°Mp09'31					
minimum elong	4947 Sep 05 23:01	16° <b>m</b> 22'29		superior conj	4950 Jan 27 23:02	7°≈52'41	
min. Earth dist.	4947 Sep 06 04:14	16° Mp 14'16	0.29132 AU	minimum elong	4950 Jan 27 14:18	7°≈25'14	0°35'27
morning rise direct	4947 Sep 10 04:32	13° Mp 45'10		avanina riaa	4950 Feb 14 13:17	0° <b>∺</b> 29° <b>∺</b> 19'59	
greatest brilliancy	4947 Sep 27 22:29 4947 Oct 08 07:49	7° Mp 51'32 9° Mp 48'36	-4.7m	evening rise	4950 Mar 09 21:11 4950 Mar 10 09:56	29 <b>π</b> 1939 0° <b>Υ</b>	
greatest of illiancy	4947 Nov 07 02:18	0₀ <b>ʊ</b>	-4.7111		4950 Apr 03 08:32	0°8	
morning max el	4947 Nov 16 06:24	ა <b>_</b> 8° <b>ჲ</b> 38'52	46°05'32		4950 Apr 27 11:28	0°II	
asc. node	4947 Nov 18 23:17	11° <b>≏</b> 19'35		asc. node	4950 May 05 18:24	10° <b>Ⅱ</b> 14′05	
	4947 Dec 06 17:17	0°M₊			4950 May 21 21:11	0°€	
	4948 Jan 02 00:44	0°⊀			4950 Jun 15 16:26	$0^{\circ}\Omega$	
	4948 Jan 27 02:25	5°0			4950 Jul 11 01:51	0° <b>т</b> р	
	4948 Feb 20 14:21	0°≈			4950 Aug 06 11:50	0∘ <b>ত</b>	
desc. node	4948 Mar 09 14:10	22°≈15'47		desc. node	4950 Aug 25 09:12	20° <b>£</b> 12'01	
	4948 Mar 15 19:40	0° <b>)</b> €			4950 Sep 04 03:39	0°M	45020140
	4948 Apr 08 22:10	0° <b>႘</b>		evening max el	4950 Sep 06 22:30	2°M41'07 0°⊀	45°39'40
morning set	4948 May 03 00:19 4948 May 21 02:48	22° <b>8</b> 30'04		greatest brilliancy	4950 Oct 13 23:05 4950 Oct 16 10:57	0° <b>х</b> ¹ 54'00	-4.8m
morning set	4948 May 27 03:54	0°II		retrograde	4950 Oct 25 17:06	2° <b>×</b> <sup>7</sup> 27'51	- <del>1</del> .0111
	4948 Jun 20 09:40	0°9		retrograde	4950 Nov 05 21:19	30°RM	
				evening set	4950 Nov 11 10:33	27°M09'56	
superior conj	4948 Jun 28 05:06	9° <b>5</b> 38'24	-0°05'55	inferior conj	4950 Nov 15 18:56	24°M32'46	-6°43'01
minimum elong	4948 Jun 28 06:24	9° <b>©</b> 42'25	0°05'52	minimum elong	4950 Nov 16 05:05	24°M17'06	6°41'01
behind sun begin	4948 Jun 27 08:27	8°534'41		min. Earth dist.	4950 Nov 16 18:40	23°M56'11	0.27975 AU
behind sun end	4948 Jun 29 04:22	10° <b>©</b> 50'09		morning rise	4950 Nov 20 23:02	21°M26'03	
max. Earth dist.	4948 Jun 30 08:19	12° <b>©</b> 16'18	1.73103 AU	direct	4950 Dec 06 22:45	16°M26'38	
asc. node	4948 Jun 30 16:01	12°540'03		asc. node	4950 Dec 16 11:02	18°M09'12	4.0
	4948 Jul 14 17:31	0° <b>Ω</b>		greatest brilliancy	4950 Dec 18 05:21	18°M48'33	-4.8m
evening rise	4948 Aug 04 02:38 4948 Aug 08 02:57	25° <b>Ω</b> 04'09 0° <b>m</b>		morning max el	4951 Jan 05 08:03 4951 Jan 26 12:14	0° ☎ 19° ☎ 25'20	46°49'38
	4948 Sep 01 14:00	0∘ <del>ত</del> بالا		morning max ci	4951 Feb 05 15:14	0°る	40 49 30
	4948 Sep 26 03:34	0° <b>™</b>			4951 Mar 04 08:21	0° <b>≈</b>	
desc. node	4948 Oct 20 07:00	29°M18'04			4951 Mar 29 17:01	0° <b>)</b> €	
	4948 Oct 20 20:53	0°⊀		desc. node	4951 Apr 07 02:10	10° <b>)</b> €05'21	
	4948 Nov 14 19:17	0°ರ			4951 Apr 23 12:12	$0$ ° $\mathbf{Y}$	
	4948 Dec 10 01:19	0° <b>≈</b>			4951 May 18 01:44	$9^{\circ}$ 8	
	4949 Jan 04 22:55	0° <b>∀</b>			4951 Jun 11 13:32	$\Pi$ °0	
	4949 Feb 01 14:45	0°Υ	45000153		4951 Jul 06 01:10	0.20 0.20	
evening max el	4949 Feb 01 20:07	0°Υ13'40	47°09'53	asc. node	4951 Jul 29 03:47	28°519'42	
asc. node	4949 Feb 10 08:41 4949 Mar 10 11:52	8° <b>Y</b> 37'22 0° <b>と</b>		morning set	4951 Jul 30 17:41 4951 Jul 30 12:29	0° <b>Ω</b> 15'58 0° <b>Ω</b>	
greatest brilliancy	4949 Mar 14 13:48	1° <b>8</b> 45'05	-4.9m		4951 Aug 23 22:34	0° <b>m</b> )	
retrograde	4949 Mar 24 15:05	3° <b>8</b> 40'36	1.7111	max. Earth dist.	4951 Sep 03 23:48	-	1.73401 AU
	4949 Apr 07 03:42	30° <b>Ŗ</b> ♈					
evening set	4949 Apr 11 15:59	27° <b>Y</b> 26'17		superior conj	4951 Sep 05 09:22	15° <b>m</b> 19'38	1°15'02
inferior conj	4949 Apr 14 11:50	25° <b>Ƴ</b> 41'24	8°48'09	minimum elong	4951 Sep 05 01:45	14° <b>m</b> 56'09	1°14'51
minimum elong	4949 Apr 14 16:34	25° <b>Y</b> 34′02	8°47'49		4951 Sep 17 07:02	0。 <b>⊽</b>	
min. Earth dist.	4949 Apr 14 04:44	25° <b>Y</b> 52'29	0.27473 AU	evening rise	4951 Oct 11 14:58	0°M01'56	
morning rise	4949 Apr 17 17:17	23° <b>Y</b> 42'15			4951 Oct 11 14:21	0°M	
direct	4949 May 05 05:00	17° <b>Y</b> 49'54	4.0	4 1	4951 Nov 04 21:25	0°×7	
greatest brilliancy	4949 May 14 15:00	19° <b>Y</b> 28'48 29° <b>Y</b> 54'52	-4.8m	desc. node	4951 Nov 17 18:52	15°♂55'00 0°る	
desc. node	4949 Jun 01 23:45 4949 Jun 02 02:29	29° <b>Y</b> 54'52 0° <b>と</b>			4951 Nov 29 04:50 4951 Dec 23 12:54	0°≈	
morning max el	4949 Jun 23 16:16	18° <b>8</b> 54'39	46°08'03		4951 Dec 23 12:34 4952 Jan 16 22:48	0 <b>∞</b> 0° <b>∀</b>	
	4949 Jul 04 17:07	0° <b>Ⅱ</b>			4952 Feb 10 14:22	0° <b>Υ</b>	
	4949 Aug 01 10:48	0°. 2			4952 Mar 06 20:17	0°8	
	=						

asc. node	4952 Mar 09 20:33	3° <b>8</b> 29'52			4954 Oct 02 02:38	0∘ <b>ত</b>	
use. Houe	4952 Apr 02 12:19	0°II		morning set	4954 Oct 06 22:26	5° <b>£</b> 56'54	
evening max el	4952 Apr 14 19:23	12° <b>Ⅱ</b> 46'53	46°34'33		4954 Oct 26 09:11	0°M	
<i>y</i>	4952 May 03 14:37	0ಂತಾ		max. Earth dist.	4954 Nov 09 22:14		1.72419 AU
greatest brilliancy	4952 May 23 21:26	12°5540'08	-4.8m				
retrograde	4952 Jun 03 20:32	14° <b>©</b> 53'19		superior conj	4954 Nov 12 20:45	21°M42'43	1°07'40
evening set	4952 Jun 18 23:04	10° <b>©</b> 23'29		minimum elong	4954 Nov 13 06:19	22°M12'25	1°07'23
inferior conj	4952 Jun 25 02:59	6°5541'08	1°03'25		4954 Nov 19 12:38	0° <b>∡</b> ¹	
minimum elong	4952 Jun 25 05:20	6° <b>5</b> 37'27	1°02'41		4954 Dec 13 14:13	0°ರ	
min. Earth dist.	4952 Jun 24 20:12	6°951'44	0.28389 AU	desc. node	4954 Dec 15 06:43	2° <b>る</b> 06'20	
desc. node	4952 Jun 29 11:27	4° <b>©</b> 01'37		evening rise	4954 Dec 21 17:44	10° <b>⋜</b> 10'10	
morning rise	4952 Jul 01 12:10	2° <b>©</b> 52'50			4955 Jan 06 14:36	0° <b>≈</b>	
	4952 Jul 07 23:02	30°R <b>Ⅱ</b>			4955 Jan 30 14:28	0° <b>)</b> €	
direct	4952 Jul 16 09:43	28° <b>Ⅱ</b> 34'30			4955 Feb 23 15:27	$0$ ° $\mathbf{\gamma}$	
	4952 Jul 25 05:09	$0$ $\circ$ $\odot$			4955 Mar 19 20:38	0°8	
greatest brilliancy	4952 Jul 26 08:15	0° <b>©</b> 22'13	-4.7m	asc. node	4955 Apr 07 08:30	22° <b>8</b> 37'23	
morning max el	4952 Sep 03 03:39	28° <b>©</b> 18'45	45°41'57		4955 Apr 13 10:49	$\Pi$ $^{\circ}0$	
	4952 Sep 04 21:53	$0$ $^{\circ}$ $\Omega$			4955 May 08 17:19	0ංම	
	4952 Oct 03 17:28	0° <b>m</b>			4955 Jun 04 06:37	$0$ $^{\circ}$ $\Omega$	
asc. node	4952 Oct 20 13:32	18° m 55'48		evening max el	4955 Jun 25 12:43	21° <b>Ω</b> 59'59	45°41'31
	4952 Oct 30 03:11	0° <b>™</b>			4955 Jul 04 01:39	0° <b>m</b> )	
	4952 Nov 24 09:05	0°M		desc. node	4955 Jul 27 23:29	17° m 37'48	4.7
	4952 Dec 18 23:12	0° <b>⊼</b>		greatest brilliancy	4955 Aug 02 18:11	20° Mp 13'14	-4.7m
	4953 Jan 12 04:20	ි. ව°0		retrograde	4955 Aug 13 10:12	22° m 16'34	
JJ.	4953 Feb 05 04:35	0°≈ 4°••50!4€		evening set	4955 Aug 30 06:48	16° Mp 54'26	7926151
desc. node	4953 Feb 09 04:16	4°≈59'46 0° <b>)</b> €		inferior conj	4955 Sep 03 23:46	14° <b>m</b> 01'13	
morning sat	4953 Mar 01 02:22 4953 Mar 04 13:47	0° <b>π</b> 4° <b>∺</b> 21'57		minimum elong min. Earth dist.	4955 Sep 03 15:07 4955 Sep 03 20:12	14° Mp 14'48 14° Mp 06'49	7°25'36 0.29130 AU
morning set	4953 Mar 24 23:28	4 <b>γ</b> (2137		morning rise	4955 Sep 07 23:24	14 my 00 49 11° my 33'17	0.29130 AU
	4933 Wai 24 23.28	V I		direct	4955 Sep 25 14:24	5° Mp 43'17	
superior conj	4953 Apr 14 10:23	25° <b>Ƴ</b> 39'16	-1°25'01	greatest brilliancy	4955 Oct 06 00:04	7° Mp 40'06	-4.7m
minimum elong	4953 Apr 14 15:16	25° <b>Υ</b> 54'36		greatest oriniancy	4955 Nov 07 03:46	0° <b>⊽</b>	4.7III
minimum ciong	4953 Apr 17 21:40	0° <b>8</b>	1 243)	morning max el	4955 Nov 13 20:41	6° <b>£</b> 22'58	46°04'01
max. Earth dist.	4953 Apr 18 01:05		1.71654 AU	asc. node	4955 Nov 18 01:15	10° <b>£</b> 32'59	.0 0.01
man. Barur diot.	4953 May 11 22:36	0°II	1.,1001110	ase. node	4955 Dec 06 09:45	0°M	
evening rise	4953 May 24 06:12	15° <b>I</b> 17'50			4956 Jan 01 14:33	0° <b>∡</b> 7	
asc. node	4953 Jun 02 06:12	26° <b>Ⅲ</b> 26′12			4956 Jan 26 15:05	5°0	
	4953 Jun 05 03:25	0ಂತ			4956 Feb 20 02:23	0° <b>≈</b>	
	4953 Jun 29 12:47	$0^{\circ}\Omega$		desc. node	4956 Mar 08 16:19	21° <b>≈</b> 46′01	
	4953 Jul 24 03:28	0° <b>m</b>			4956 Mar 15 07:18	0° <b>)</b> €	
	4953 Aug 18 01:16	0∘ <b>亚</b>			4956 Apr 08 09:29	$0^{\circ}$ $\Upsilon$	
	4953 Sep 12 09:42	0° <b>M</b> .			4956 May 02 11:24	$9^{\circ}$ 8	
desc. node	4953 Sep 21 21:04	11°ML01'37		morning set	4956 May 18 17:07	20° <b>8</b> 11'32	
	4953 Oct 08 11:10	0° <b>∡</b> ¹			4956 May 26 14:47	$\Pi^{\circ}0$	
	4953 Nov 04 20:42	5°0			4956 Jun 19 20:27	$0$ $\circ$ $\odot$	
evening max el	4953 Nov 18 16:53	14° <b>る</b> 05'56	46°31'58				
	4953 Dec 06 05:13	0° <b>≈</b>		superior conj	4956 Jun 25 21:18	7° <b>5</b> 27'05	-0°09'17
greatest brilliancy	4953 Dec 28 17:26	13° <b>≈</b> 58'44	-4.9m	minimum elong	4956 Jun 25 23:21	7°533'27	0°09'12
retrograde	4954 Jan 07 14:29	15° <b>≈</b> 47'53		behind sun begin	4956 Jun 25 03:58	6° <b>©</b> 33'37	
asc. node	4954 Jan 12 22:51	15°≈12'58		behind sun end	4956 Jun 26 18:44	8°533'15	
evening set	4954 Jan 22 01:24	11° <b>≈</b> 39'58		max. Earth dist.	4956 Jun 28 01:35	10°508'24	1.73065 AU
inferior conj	4954 Jan 28 03:33	8°≈05'44	3°50'13	asc. node	4956 Jun 29 17:58	12°912'55	
minimum elong	4954 Jan 27 19:23	8°≈18'13	3°47'48		4956 Jul 14 04:16	0° <b>Ω</b>	
min. Earth dist.	4954 Jan 27 22:12	8°≈13'54	0.26649 AU	evening rise	4956 Aug 01 20:48	22° <b>Ω</b> 59'22	
morning rise	4954 Feb 02 13:23	4°≈54'04			4956 Aug 07 13:45	0 <b>்⊽</b> 0° மி	
direct	4954 Feb 17 16:26	0°≈24'26	4.0		4956 Sep 01 00:57		
greatest brilliancy	4954 Feb 27 12:19 4954 Apr 05 20:34	2°≈14'39 0° <b>米</b>	-4.7111	desc. node	4956 Sep 25 14:50 4956 Oct 19 09:02	0° <b>ጤ</b> 28° <b>ጤ</b> 48'37	
morning max el	4954 Apr 09 02:21	3° <b>∺</b> 13'00	46°52'33	uese. Houe	4956 Oct 19 09:02 4956 Oct 20 08:41	28°11164837 0° <b>√</b>	
morning max ci	4954 May 04 05:12	5 <del>Υ</del> 1300	TU J2 JJ		4956 Nov 14 07:56	0°ਤ	
desc. node	4954 May 04 14:03	0° <b>Υ</b> 24'40			4956 Dec 09 15:21	0°≈	
acco. node	4954 May 30 11:17	0°8			4957 Jan 04 15:27	0° <b>∺</b>	
	4954 Jun 24 22:52	0°II		evening max el	4957 Jan 30 09:05	27° <b>∺</b> 47'02	47°09'44
	4954 Jul 20 01:55	0ංම ග		C. Ching man of	4957 Feb 01 13:50	0° <b>Υ</b>	., 52 17
	4954 Aug 13 23:25	$0 {\circ} \Omega$		asc. node	4957 Feb 09 10:47	7° <b>Υ</b> 38'12	
asc. node	4954 Aug 25 15:45	14° <b>Ω</b> 09'53		greatest brilliancy	4957 Mar 12 03:59	29° <b>Υ</b> 20'52	-4.9m
	4954 Sep 07 15:39	0° <b>m</b>		5	4957 Mar 14 02:25	0°8	
	·r ··	٦			· · · · · · · · · · · · · · · · · ·	_	

retrograde	4957 Mar 22 04:45 4957 Mar 30 01:21	1° <b>႘</b> 16′31 30°Ŗ <b>Ƴ</b>		max. Earth dist.	4959 Sep 01 21:36	11° <b>m</b> 42'10	1.73414 AU
evening set	4957 Apr 09 07:02	25° <b>Y</b> ′00'04		superior conj	4959 Sep 03 03:22	13° <b>m</b> 13'50	1°13'28
min. Earth dist.	4957 Apr 11 17:50	23° <b>Y</b> ′29'29	0.27440 AU	minimum elong	4959 Sep 02 19:25	12° <b>m</b> 49'20	1°13'16
inferior conj	4957 Apr 12 01:22	23° <b>Y</b> 17'47	8°53'05		4959 Sep 16 17:53	0∘ <b>⊽</b>	
minimum elong	4957 Apr 12 05:14	23° <b>Y</b> 11'46	8°52'52	evening rise	4959 Oct 09 08:06	27° <b>≏</b> 52'44	
morning rise	4957 Apr 15 03:32	21° <b>Y</b> ′23'46			4959 Oct 11 01:20	$0^{\circ}$ M	
direct	4957 May 02 17:44	15° <b>Ƴ</b> 26'34			4959 Nov 04 08:37	0° <b>∡</b> ¹	
greatest brilliancy	4957 May 12 03:58	17° <b>℃</b> 05'55	-4.8m	desc. node	4959 Nov 16 20:49	15° <b>∡</b> °26′05	
desc. node	4957 Jun 01 01:39	28° <b>Y</b> 42'30			4959 Nov 28 16:19	0°ප	
	4957 Jun 02 17:08	0°B			4959 Dec 23 00:45	0° <b>≈</b>	
morning max el	4957 Jun 21 06:25	16° <b>8</b> 35'52	46°09'43		4960 Jan 16 11:12	0° <b>∀</b>	
	4957 Jul 04 12:23	0°П			4960 Feb 10 03:39	0° <b>Υ</b>	
	4957 Aug 01 01:40	0°©			4960 Mar 06 11:13	0°8	
	4957 Aug 27 06:02	0° <b>N</b>		asc. node	4960 Mar 08 22:33	2° <b>8</b> 51'45	
	4957 Sep 21 16:12	0° <b>m</b>			4960 Apr 02 07:08	0°II	4.602.6122
asc. node	4957 Sep 22 03:37	0° Tp 34'06		evening max el	4960 Apr 12 11:25	10° <b>Ⅲ</b> 31'42	46°36'22
	4957 Oct 16 13:15	0∘ <b>亚</b>			4960 May 04 02:47	0°©	4.0
	4957 Nov 10 00:29	0°M		greatest brilliancy	4960 May 21 13:58	10°526'32	-4.8m
	4957 Dec 04 05:03	0° ⊀̄¹		retrograde	4960 Jun 01 12:38	12°938'53	
morning set	4957 Dec 16 06:28	15° <b>∡</b> '02'20		evening set	4960 Jun 16 16:04	8°507'46	1024110
1 1	4957 Dec 28 05:33	0°る		inferior conj	4960 Jun 22 18:28	4°9527'11	1°24'18
desc. node	4958 Jan 11 18:31	18° <b>る</b> 13'27		minimum elong	4960 Jun 22 21:35	4°522'18	1°23'21
Fauth diet	4958 Jan 21 03:38	0°≈ 3°20122	1.71257 AU	min. Earth dist.	4960 Jun 22 11:51	4°937'31	0.28353 AU
max. Earth dist.	4958 Jan 23 22:21	3° <b>≈</b> 29'33	1./125/ AU	desc. node	4960 Jun 28 13:31	0°958'19	
	4050 I 25 00.56	5921/20	0022112	morning rise	4960 Jun 29 03:44	0° <b>©</b> 38'49 30°Ŗ <b>∏</b>	
superior conj	4958 Jan 25 09:56 4958 Jan 25 01:58	5°≈21'20 4°≈56'20		direct	4960 Jun 30 09:17	26° <b>∏</b> 21′20	
minimum elong	4958 Feb 14 00:23	4 ≈36 20 0° <b>)</b> {	0 31 31	greatest brilliancy	4960 Jul 14 01:21 4960 Jul 23 22:33	28° <b>I</b> I08'08	-4.7m
avanina rica	4958 Mar 07 07:39	26° <b>)</b> 47′03		greatest offinality	4960 Jul 28 12:01	20 <b>п</b> 00 00	-4./111
evening rise	4958 Mar 09 21:06	20 <b>γ</b> (4703		morning max el	4960 Aug 31 18:53	26°\$06'27	45°42'00
	4958 Apr 02 19:47	0°8		morning max ci	4960 Sep 04 19:32	0°Ω	43 42 00
	4958 Apr 26 22:53	0°II			4960 Oct 03 08:57	0° <b>m</b> )	
asc. node	4958 May 04 20:19	9° <b>∏</b> 44'39		asc. node	4960 Oct 19 15:29	18° Mp 21'27	
use. Hode	4958 May 21 08:53	0.2 T-1-22		use. Houe	4960 Oct 29 16:28	0° <u>م</u>	
	4958 Jun 15 04:40	$0^{\circ}\Omega$			4960 Nov 23 21:21	0° <b>™</b>	
	4958 Jul 10 15:11	0° my			4960 Dec 18 10:56	0° <b>∡</b> 7	
	4958 Aug 06 03:30	0∘ <b>⊽</b>			4961 Jan 11 15:47	0°ਰ	
desc. node	4958 Aug 24 11:17	19° <b>≏</b> 28'24			4961 Feb 04 15:51	0° <b>≈</b>	
	4958 Sep 04 01:56	0°M		desc. node	4961 Feb 08 06:26	4° <b>≈</b> 31'16	
evening max el	4958 Sep 04 13:48	0°M28'22	45°38'46		4961 Feb 28 13:31	0° <b>)</b> €	
greatest brilliancy	4958 Oct 13 23:51	28°M37'01	-4.8m	morning set	4961 Mar 02 00:06	1° <b>)</b> 48'37	
	4958 Oct 20 02:32	0° <b>∡</b> ¹			4961 Mar 24 10:33	$0^{\circ}$ Y	
retrograde	4958 Oct 23 07:50	0° <b>∡</b> 11'53					
	4958 Oct 26 11:48	30°RM		superior conj	4961 Apr 11 22:24	23° <b>Y</b> °12'02	-1°25'46
evening set	4958 Nov 09 04:01	24°M49'09		minimum elong	4961 Apr 12 02:22	23° <b>Y</b> °24'27	1°25'44
inferior conj	4958 Nov 13 09:34	22°M15'43	-6°56'05	max. Earth dist.	4961 Apr 15 14:03	27° <b>Y</b> '46'31	1.71610 AU
minimum elong	4958 Nov 13 19:33	22°M00'19	6°54'14		4961 Apr 17 08:42	$0^{\circ}$ 8	
min. Earth dist.	4958 Nov 14 08:39	21°M40'06	0.28041 AU		4961 May 11 09:37	$\Pi$ °0	
morning rise	4958 Nov 18 10:36	19° <b>™</b> 13'27		evening rise	4961 May 21 20:03	12° <b>Ⅱ</b> 57'43	
direct	4958 Dec 04 14:35	14° <b>M</b> 08'54		asc. node	4961 Jun 01 08:11	25° <b>Ⅱ</b> 58'11	
asc. node	4958 Dec 15 12:57	16°M23'03			4961 Jun 04 14:29	0ಂತಾ	
greatest brilliancy	4958 Dec 15 20:01	16°M30'00	-4.8m		4961 Jun 28 24:00	$0^{\circ}\Omega$	
	4959 Jan 05 19:28	0° <b>⊀</b>			4961 Jul 23 14:59	0° <b>™</b>	
morning max el	4959 Jan 24 03:55	17° <b>∡</b> ′07'28	46°48'25		4961 Aug 17 13:22	0∘ <b>⊽</b>	
	4959 Feb 05 10:11	0°る			4961 Sep 11 22:50	0° <b>™</b>	
	4959 Mar 03 23:27	0° <b>≈</b>		desc. node	4961 Sep 20 23:04	10° <b>™</b> 27'49	
	4959 Mar 29 06:27	0° <b>)</b> {			4961 Oct 08 02:15	0° <b>∡</b> ¹	
desc. node	4959 Apr 06 04:09	9° <b>)</b> €31'48			4961 Nov 04 16:13	0°る	4.0000140
	4959 Apr 23 00:42	$^{\circ \gamma}$		evening max el	4961 Nov 16 06:01	11° <b>る</b> 42'33	46°29'49
	4959 May 17 13:39	0° <b>Η</b>			4961 Dec 06 19:00	0°≈ 11°≈ •22°24	4.0.
	4959 Jun 11 01:02	0° <b>∏</b>		greatest brilliancy	4961 Dec 26 07:13	11°≈32'34	-4.9m
morning set	4959 Jul 05 12:21	೧.ಪ ೧.ಪ		retrograde	4962 Jan 05 02:15	13°≈20'01	
morning set asc. node	4959 Jul 28 11:00 4959 Jul 28 05:54	28°508'16 27°552'36		asc. node	4962 Jan 12 01:00 4962 Jan 19 12:28	12° <b>≈</b> 21'21 9° <b>≈</b> 14'24	
asc. nout	4959 Jul 28 05:54 4959 Jul 29 23:26	2/°35236 0°Ω		evening set inferior conj	4962 Jan 19 12:28 4962 Jan 25 16:03	5°≈38'26	3°27'47
	4959 Aug 23 09:24	0°Mp		minimum elong	4962 Jan 25 08:33	5°≈49'55	
	.,,,, 11ug 25 07.24	עויי		mmmum clong	.,02 0411 25 00.55	5 747 55	3 23 31

min. Earth dist.	4962 Jan 25 12:18	5° <b>≈</b> 44'10	0.26649 AU	asc. node	4964 Jun 28 20:05	11° <b>©</b> 46'21	
morning rise	4962 Jan 31 04:32	3 ≈44 10 2°≈22'47	0.20049 AU	asc. node	4964 Jul 13 15:00	0°Ω	
morning rise	4962 Feb 05 03:24	2 ≈22 47 30°Rる		evening rise	4964 Jul 30 15:02	0 <b>δ</b> ε 20° <b>Ω</b> 54'54	
direct	4962 Feb 15 04:39	30 KO 27° <b>ろ</b> 56'50		evening rise	4964 Aug 07 00:33	0° M)	
			4.0		•	0∘ <b>ʊ</b> 0 ıñ	
greatest brilliancy	4962 Feb 25 02:57	29°₹48'45	-4.9m		4964 Aug 31 11:57	0° <b>IL</b>	
	4962 Feb 25 15:09	0° <b>≈</b>		1 1	4964 Sep 25 02:11		
	4962 Apr 05 20:31	0° <b>∀</b>	46052125	desc. node	4964 Oct 18 10:56	28°M18'29	
morning max el	4962 Apr 06 14:09	0° <b>)</b> 44′10	46°53'35		4964 Oct 19 20:36	0° <b>₹</b>	
desc. node	4962 May 03 16:00	29° <b>)</b> 43′26			4964 Nov 13 20:43	0°ප	
	4962 May 03 21:55	0° <b>Υ</b>			4964 Dec 09 05:30	0° <b>≈</b>	
	4962 May 30 01:20	0.8			4965 Jan 04 08:15	0° <b>∀</b>	.=
	4962 Jun 24 11:33	0° <b>Ⅱ</b>		evening max el	4965 Jan 27 22:45	25° <b>)</b> 22'33	47°09'40
	4962 Jul 19 13:48	0°9			4965 Feb 01 13:50	0° <b>Υ</b>	
	4962 Aug 13 10:48	$0$ $\circ$ $\Omega$		asc. node	4965 Feb 08 12:47	6° <b>Ƴ</b> 37'42	
asc. node	4962 Aug 24 17:46	13° <b>Ω</b> 41'52		greatest brilliancy	4965 Mar 09 17:32	26° <b>Y</b> 56′13	-4.9m
	4962 Sep 07 02:44	0° <b>m</b> )		retrograde	4965 Mar 19 18:59	28° <b>Y</b> 52'39	
	4962 Oct 01 13:33	0∘ <b>ಹ</b>		evening set	4965 Apr 06 21:42	22° <b>Y</b> 34'28	
morning set	4962 Oct 04 15:27	3° <b>£</b> 47'46		inferior conj	4965 Apr 09 14:51	20° <b>Y</b> 54'10	8°57'10
	4962 Oct 25 20:02	0° <b>M</b>		minimum elong	4965 Apr 09 17:51	20° <b>Ƴ</b> 49'31	8°57'01
max. Earth dist.	4962 Nov 07 14:22	15° <b>M</b> 50'42	1.72467 AU	min. Earth dist.	4965 Apr 09 06:32	21° <b>Y</b> 07'04	0.27407 AU
				morning rise	4965 Apr 12 14:06	19° <b>Ƴ</b> 04'50	
superior conj	4962 Nov 10 12:23	19°ML28'18	1°09'42	direct	4965 Apr 30 06:54	13° <b>Y</b> ′03′22	
minimum elong	4962 Nov 10 21:41	19°M57'11	1°09'27	greatest brilliancy	4965 May 09 16:23	14° <b>Ƴ</b> 42'34	-4.8m
	4962 Nov 18 23:33	0° <b>∡</b> 7		desc. node	4965 May 31 03:42	27° <b>Y</b> 32'46	
	4962 Dec 13 01:15	ರ∘ರ			4965 Jun 03 03:56	0°8	
desc. node	4962 Dec 14 08:44	1°る38'14		morning max el	4965 Jun 18 21:19	14° <b>8</b> 19'17	46°11'26
evening rise	4962 Dec 19 06:46	7° <b>る</b> 46'27			4965 Jul 04 06:59	$\Pi^{\circ}0$	
	4963 Jan 06 01:48	0° <b>≈</b>			4965 Jul 31 16:11	$0$ $\circ$ $\mathfrak{S}$	
	4963 Jan 30 01:52	0° <b>∀</b>			4965 Aug 26 18:45	$0^{\circ}\Omega$	
	4963 Feb 23 03:05	$0$ $^{\circ}$ $\mathbf{\Upsilon}$		asc. node	4965 Sep 21 05:33	0° Mp 04'45	
	4963 Mar 19 08:36	0°8			4965 Sep 21 03:58	0° m/y	
asc. node	4963 Apr 06 10:25	22° <b>8</b> 05'36			4965 Oct 16 00:31	0∘ <mark>⊽</mark>	
	4963 Apr 12 23:24	$\Pi^{\circ}$			4965 Nov 09 11:31	0°M	
	4963 May 08 07:09	0ಂತ			4965 Dec 03 15:59	0° <b>√</b> ¹	
	4963 Jun 03 23:21	$0^{\circ}\Omega$		morning set	4965 Dec 13 20:15	12° <b>√</b> 41'29	
evening max el	4963 Jun 23 03:12	19° <b>Ω</b> 45'09	45°42'40		4965 Dec 27 16:27	0°る	
e venning man er	4963 Jul 04 04:38	0°m)	2	desc. node	4966 Jan 10 20:37	17° <b>る</b> 45'53	
desc. node	4963 Jul 27 01:33	16° Mp 11'00		dese. Hode	4966 Jan 20 14:33	0°≈	
greatest brilliancy	4963 Jul 31 09:25	18° <b>m</b> 02'55	-4 7m	max. Earth dist.	4966 Jan 21 08:52		1.71279 AU
retrograde	4963 Aug 11 02:24	20° m) 07'40	1.7111	max. Earth dist.	1900 3411 21 00.52	0 / 0 / 3 / 3 1	1.71277110
evening set	4963 Aug 27 19:58	14° Mp 49'36		superior conj	4966 Jan 22 20:40	2° <b>≈</b> 50'00	-0°28'31
inferior conj	4963 Sep 01 16:09	11° <b>m</b> )51'58	7016'30	minimum elong	4966 Jan 22 13:33	2°≈27'36	
minimum elong	4963 Sep 01 10:09	12° M) 06'06	7°15'15	minimum clong	4966 Feb 13 11:19	0° <b>H</b>	0 20 10
min. Earth dist.	4963 Sep 01 07:09	11° <b>m</b> 58'31	0.29130 AU	evening rise	4966 Mar 04 18:03	24° <b>)</b> 14'30	
morning rise	4963 Sep 05 18:16	9° Mp 20'28	0.27130 AO	evening rise	4966 Mar 09 08:05	0° <b>Υ</b>	
direct	4963 Sep 23 06:14	3° Mp 33'58			4966 Apr 02 06:52	0°8	
greatest brilliancy	4963 Oct 03 16:25	5° Mp 31'02	-4.7m		4966 Apr 26 10:08	0°II	
greatest offinality	4963 Nov 07 04:12	ე° <u>ი</u>	-4.7111	asc. node	4966 May 03 22:20	9° <b>П</b> 16'02	
morning max el	4963 Nov 11 11:41	ა <b>_</b> 4° <b>ჲ</b> 08'26	46°02'40	asc. node	4966 May 20 20:26	0°95	
asc. node	4963 Nov 17 03:15	9° <b>£</b> 46'37	40 02 40		4966 Jun 14 16:46	0°N	
asc. node	4963 Dec 06 02:04	0° <b>M</b>			4966 Jul 10 04:23	0° mp	
	4964 Jan 01 04:19	0° <b>⊼</b> 7			4966 Aug 05 19:09	0∘ <b>ʊ</b>	
	4964 Jan 26 03:42	0°る		desc. node	4966 Aug 23 13:15	0 <b>=</b> 18° <b>£</b> 44'37	
	4964 Feb 19 14:23	0°≈			•	28° <b>£</b> 16'39	45°37'46
desc. node		0 ≈ 21°≈15'33		evening max el	4966 Sep 02 05:12 4966 Sep 04 00:50	28 <b>=</b> 1039	43 37 40
desc. flode	4964 Mar 07 18:12 4964 Mar 14 18:55	0° <b>∺</b>		greatest brilliancy	4966 Oct 11 13:01	26°M21'04	-4.8m
		0° <b>Υ</b>				20 IL21 04 27°IL56'16	-4.0111
	4964 Apr 07 20:48	0° <b>8</b>		retrograde	4966 Oct 20 22:06	22°M29'03	
morning sat	4964 May 01 22:29 4964 May 16 07:27	17° <b>8</b> 52'54		evening set	4966 Nov 06 21:23 4966 Nov 11 00:09	19°M59'15	7000121
morning set		0° <b>Ⅱ</b>		inferior conj		19°11639°13	
	4964 May 26 01:40	0₀ <b>©</b> 0∘П		minimum elong	4966 Nov 11 09:52		
	4964 Jun 19 07:14	0.50		min. Earth dist.	4966 Nov 11 22:38	19°M24'27	0.28109 AU
annari ·	4064 I 22 12 22	506-1515	0012120	morning rise	4966 Nov 15 21:57	17°M01'18	
superior conj	4964 Jun 23 13:33	5°915'56		direct	4966 Dec 02 06:20	11°M51'44	1 9
minimum elong	4964 Jun 23 16:21	5°924'36	0 12 31	greatest brilliancy	4966 Dec 13 10:28	14°M11'30	-4.8m
behind sun begin	4964 Jun 23 01:34	4°938'59		asc. node	4966 Dec 14 15:06	14°M41'12	
behind sun end	4964 Jun 24 07:08	6°910'13	1 72020 411		4967 Jan 06 03:47	0°×7 149.749115	46047100
max. Earth dist.	4964 Jun 25 19:16	8° <b>©</b> 01'43	1.73028 AU	morning max el	4967 Jan 21 18:57	14° <b>∡</b> ⁴48'15	40-4/109

	4967 Feb 05 04:31	0°ಕ			4969 Sep 11 11:42	0° <b>M</b>	
	4967 Mar 03 14:10	0°≈		desc. node	4969 Sep 20 01:04	9°M54'52	
	4967 Mar 28 19:32	0° <b>∀</b>		desc. Hode	4969 Oct 07 17:08	9 1163432 0° <b>√</b> 1	
desc. node	4967 Apr 05 06:10	8° <b>¥</b> 59'15			4969 Nov 04 11:49	0° <b>ਰ</b>	
desc. node	4967 Apr 22 12:52	0°Υ		evening max el	4969 Nov 13 18:25	9° <b>る</b> 18'51	46°27'41
	4967 May 17 01:14	0°8		evening max er	4969 Dec 07 12:40	0°≈	40 27 41
	4967 Jun 10 12:12	0°II		greatest brilliancy	4969 Dec 23 20:48	9° <b>≈</b> 07'28	-4.9m
	4967 Jul 04 23:13	0°©		retrograde	4970 Jan 02 14:03	10°≈53'40	4.7111
morning set	4967 Jul 26 04:26	26°901'46		asc. node	4970 Jan 11 02:56	9° <b>≈</b> 25'18	
asc. node	4967 Jul 27 07:53	27° <b>©</b> 25'59		evening set	4970 Jan 16 23:43	6°≈49'30	
use. Hode	4967 Jul 29 10:05	0° <b>Ω</b>		inferior conj	4970 Jan 23 04:33	3°≈12'18	3°04'52
	4967 Aug 22 19:56	0° <b>m</b>		minimum elong	4970 Jan 22 21:47	3°≈22'40	3°02'47
max. Earth dist.	4967 Aug 30 18:18	9° <b>m</b> 45'43	1.73422 AU	min. Earth dist.	4970 Jan 23 02:28	3°≈15'30	0.26659 AU
max. Darm dist.	1907 Hug 50 10:10	y 11g 13 13	1.73 122 110	morning rise	4970 Jan 28 19:36	29° <b>る</b> 53'02	0.20037110
superior conj	4967 Aug 31 21:34	11° <b>m</b> 09'38	1°11'48	morning rise	4970 Jan 28 14:31	29 053 02 30°Rる	
minimum elong	4967 Aug 31 13:19	10° <b>m</b> ) 44'14		direct	4970 Feb 12 16:46	25° <b>る</b> 30'02	
minimum crong	4967 Sep 16 04:25	0∘ <b>ಹ</b>	1 1131	greatest brilliancy	4970 Feb 22 17:55	27° <b>る</b> 24'13	-4.9m
evening rise	4967 Oct 07 01:27	o <b>—</b> 25° <b>Ω</b> 45'15		greatest orimaney	4970 Feb 28 12:53	0°≈	4.7111
evening rise	4967 Oct 10 12:00	0°M		morning max el	4970 Apr 04 02:46	0 ∞ 28°≈17'50	46°54'30
	4967 Nov 03 19:31	0° <b>⊼</b> 7		morning max er	4970 Apr 04 02:40 4970 Apr 05 19:13	28 <b>≈</b> 1730	40 34 30
desc. node		14° <b>х</b> 58'33		desc. node		0 <b>)</b> 29° <b>)</b> €03'34	
desc. node	4967 Nov 15 22:56			desc. node	4970 May 02 18:04	29 <del>Υ</del> 03 34 0° <b>Υ</b>	
	4967 Nov 28 03:32	0° <b>ට</b>			4970 May 03 14:07		
	4967 Dec 22 12:25	0° <b>≈</b>			4970 May 29 15:01	0° <b>∀</b>	
	4968 Jan 15 23:28	0° <b>)</b> €			4970 Jun 23 23:54	0°II	
	4968 Feb 09 16:50	0° <b>Υ</b>			4970 Jul 19 01:20	0°99	
_	4968 Mar 06 02:05	0° <b>8</b>		_	4970 Aug 12 21:50	0°Ω	
asc. node	4968 Mar 08 00:30	2° <b>8</b> 13'54		asc. node	4970 Aug 23 19:39	13° <b>Ω</b> 14'35	
	4968 Apr 02 02:07	$\Pi^{\circ}0$			4970 Sep 06 13:29	0° <b>m</b> )	
evening max el	4968 Apr 10 02:35	8° <b>Ⅱ</b> 15'04	46°38'21		4970 Oct 01 00:09	0∘ <b>ত</b>	
	4968 May 04 18:30	0		morning set	4970 Oct 02 08:38	1° <b>≏</b> 40'06	
greatest brilliancy	4968 May 19 07:04	8° <b>©</b> 14'33	-4.8m		4970 Oct 25 06:36	$0^{\circ}$ M	
retrograde	4968 May 30 04:15	10° <b>©</b> 25'25		max. Earth dist.	4970 Nov 05 08:06	13° <b>M</b> 43'47	1.72511 AU
evening set	4968 Jun 14 09:14	5° <b>©</b> 52'50					
inferior conj	4968 Jun 20 09:58	2° <b>©</b> 14'16	1°45'11	superior conj	4970 Nov 08 04:23	17° <b>™</b> 15'55	1°11'38
minimum elong	4968 Jun 20 13:50	2° <b>5</b> 08'13	1°44'00	minimum elong	4970 Nov 08 13:22	17° <b>M</b> 43'52	1°11'23
min. Earth dist.	4968 Jun 20 03:46	2° <b>5</b> 23'59	0.28317 AU		4970 Nov 18 10:09	0° <b>∡</b> ¹	
	4968 Jun 24 01:09	30° <b>Ŗ</b> Ⅱ			4970 Dec 12 11:58	0° <b>ප</b>	
morning rise	4968 Jun 26 19:05	28° <b>Ⅱ</b> 25'53		desc. node	4970 Dec 13 10:50	1° <b>る</b> 11'18	
desc. node	4968 Jun 27 15:39	27° <b>Ⅱ</b> 58'37		evening rise	4970 Dec 16 20:16	5° <b>₹</b> 25'18	
direct	4968 Jul 11 16:35	24° <b>Ⅱ</b> 09'08			4971 Jan 05 12:41	0° <b>≈</b>	
greatest brilliancy	4968 Jul 21 13:11	25° <b>Ⅱ</b> 55'14	-4.7m		4971 Jan 29 12:58	0° <b>)</b> €	
	4968 Jul 30 08:47	0ಂತಾ			4971 Feb 22 14:27	$0^{\circ}\mathbf{\Upsilon}$	
morning max el	4968 Aug 29 09:27	23°553'32	45°42'10		4971 Mar 18 20:22	0°B	
	4968 Sep 04 15:59	$0^{\circ}\Omega$		asc. node	4971 Apr 05 12:28	21° <b>8</b> 34'41	
	4968 Oct 02 23:49	0° <b>m</b>			4971 Apr 12 11:52	$\Pi^{\circ}$ 0	
asc. node	4968 Oct 18 17:30	17° <b>m</b> 48'36			4971 May 07 20:57	0° <b>©</b>	
	4968 Oct 29 05:16	0∘ <u>⊽</u>			4971 Jun 03 16:15	$0^{\circ}\Omega$	
	4968 Nov 23 09:12	0°M,		evening max el	4971 Jun 20 18:26	17° <b>Ω</b> 32'46	45°44'06
	4968 Dec 17 22:18	0° <b>∡</b> 7		<i>C</i> -	4971 Jul 04 09:04	0° m)	
	4969 Jan 11 02:55	0°₹		desc. node	4971 Jul 26 03:28	14° <b>m</b> ) 41'58	
	4969 Feb 04 02:51	0° <b>≈</b>		greatest brilliancy	4971 Jul 29 00:14	15° <b>m</b> 53'01	-4.7m
desc. node	4969 Feb 07 08:21	4°≈02'53		retrograde	4971 Aug 08 19:11	17° <b>m</b> 59'44	
morning set	4969 Feb 27 09:53	29° <b>≈</b> 14'19		evening set	4971 Aug 25 09:16	12° m/45'30	
morning sec	4969 Feb 28 00:25	0° <b>∀</b>		inferior conj	4971 Aug 30 08:34	9° m/43'34	-7°05'50
	4969 Mar 23 21:23	0° <b>Υ</b>		minimum elong	4971 Aug 29 23:17	9° <b>m</b> ) 58'06	7°04'18
	., c,u. 25 21.25	v 1		min. Earth dist.	4971 Aug 30 03:30	9° m <sub>0</sub> 51'30	0.29126 AU
superior conj	4969 Apr 09 09:53	20° <b>Ƴ</b> 43'55	-1°26'21	morning rise	4971 Sep 03 13:16	7° mg 08'28	3.27120 AU
minimum elong	4969 Apr 09 12:50	20° <b>Υ</b> 53'11		direct	4971 Sep 03 13:10 4971 Sep 20 22:25	1° m/ 25'33	
max. Earth dist.	4969 Apr 12 23:37	25° <b>Υ</b> 12'28	1.71561 AU	greatest brilliancy	4971 Oct 01 08:20	3° m 22'30	-4.7m
max. Lattii uist.	4969 Apr 16 19:28	0° <b>8</b>	1./1301 AU	greatest orinhancy	4971 Nov 07 03:12	ე∘ <u>ი</u>	<b>¬.</b> / 111
	•	0°U		morning may al		0° <b>22</b> 1° <b>2</b> 57'35	46001121
avanina = -	4969 May 10 20:20			morning max el	4971 Nov 09 03:48		40 01 21
evening rise	4969 May 19 09:23	10° <b>I</b> I36'56		asc. node	4971 Nov 16 05:21	9° <b>≏</b> 01'57	
asc. node	4969 May 31 10:17	25° <b>Ⅱ</b> 31'30			4971 Dec 05 17:49	0°M 0°. <b>7</b>	
	4969 Jun 04 01:14	ი∘ <b>⊙</b>			4971 Dec 31 17:42	0° <b>∡</b> ¹	
	4969 Jun 28 10:54	0° <b>Ω</b>			4972 Jan 25 16:00	0°る	
	4969 Jul 23 02:13	0° <b>™</b>		1 1	4972 Feb 19 02:06	0° <b>≈</b>	
	4969 Aug 17 01:11	0∘ <b>⊽</b>		desc. node	4972 Mar 06 20:15	20°≈46′26	

	4972 Mar 14 06:15	0° <b>){</b>		greatest brilliancy	4974 Oct 09 03:01	24°M06'14	-4 8m
	4972 Apr 07 07:52	0° <b>Υ</b>		retrograde	4974 Oct 18 12:00	25°M41'10	- <del>4</del> .0111
	4972 May 01 09:21	0°8		evening set	4974 Nov 04 14:55	20°M09'42	
morning set	4972 May 13 21:32	15° <b>8</b> 33'54		inferior conj	4974 Nov 08 14:59	17°M43'29	-7°20'06
morning sec	4972 May 25 12:24	0°Ⅱ		minimum elong	4974 Nov 09 00:23	17°M28'54	
	4972 Jun 18 17:52	0. 0.		min. Earth dist.	4974 Nov 09 13:08	17°ML09'08	0.28174 AU
	15/2001 10 17.02	ů Č		morning rise	4974 Nov 13 09:28	14°M49'50	0.2017.1110
superior conj	4972 Jun 21 05:25	3° <b>©</b> 03'58	-0°16'01	direct	4974 Nov 29 21:54	9°M35'16	
minimum elong	4972 Jun 21 08:58	3°514'56		greatest brilliancy	4974 Dec 11 01:23	11°M53'55	-4.8m
behind sun begin	4972 Jun 21 06:11	3°506'19		asc. node	4974 Dec 13 17:04	13°ML03'03	
behind sun end	4972 Jun 21 11:46	3°523'34			4975 Jan 06 09:42	0° <b>⊼</b> ¹	
max. Earth dist.	4972 Jun 23 12:57	5° <b>©</b> 55'25	1.72990 AU	morning max el	4975 Jan 19 09:10	12° <b>∡</b> ¹26'57	46°45'46
asc. node	4972 Jun 27 22:03	11° <b>©</b> 19'43		Č	4975 Feb 04 22:28	0°₹	
	4972 Jul 13 01:36	$0^{\circ}\Omega$			4975 Mar 03 04:48	0° <b>≈</b>	
evening rise	4972 Jul 28 09:01	18° <b>Ω</b> 50'05			4975 Mar 28 08:37	0° <b>₩</b>	
Č	4972 Aug 06 11:12	0° mp		desc. node	4975 Apr 04 08:13	8° <b>)</b> €26'43	
	4972 Aug 30 22:47	$0$ ° $\overline{\mathbf{v}}$			4975 Apr 22 01:05	0° <b>Υ</b>	
	4972 Sep 24 13:23	0°M			4975 May 16 12:52	0°B	
desc. node	4972 Oct 17 13:04	27°M49'26			4975 Jun 09 23:25	0°II	
	4972 Oct 19 08:24	0° <b>×</b> <sup>7</sup>			4975 Jul 04 10:08	0ಂತಾ	
	4972 Nov 13 09:25	8°0		morning set	4975 Jul 23 22:00	23° <b>©</b> 55'25	
	4972 Dec 08 19:39	0° <b>≈</b>		asc. node	4975 Jul 26 09:50	26°958'58	
	4973 Jan 04 01:10	0° <b>)</b> €			4975 Jul 28 20:49	0°N	
evening max el	4973 Jan 25 13:35	23° <b>)</b> €01'48	47°09'34		4975 Aug 22 06:37	0° m)	
Č	4973 Feb 01 14:43	$_0$ ° $\gamma$		max. Earth dist.	4975 Aug 28 13:24	7° <b>m</b> )43'51	1.73433 AU
asc. node	4973 Feb 07 14:45	5° <b>Y</b> 36'28			C	•	
greatest brilliancy	4973 Mar 07 06:53	24° <b>Ƴ</b> 32'19	-4.9m	superior conj	4975 Aug 29 15:52	9° Mp 05'21	1°10'02
retrograde	4973 Mar 17 09:39	26° <b>Ƴ</b> 29'38		minimum elong	4975 Aug 29 07:22	8° m) 39'12	
evening set	4973 Apr 04 12:02	20° <b>Ƴ</b> 10'35		Č	4975 Sep 15 15:08	0∘ <u>⊽</u>	
inferior conj	4973 Apr 07 04:28	18° <b>Ƴ</b> 31'26	9°00'12	evening rise	4975 Oct 04 18:51	23° <b>₽</b> 37'29	
minimum elong	4973 Apr 07 06:35	18° <b>Y</b> 28′09	9°00'08	<i>B</i>	4975 Oct 09 22:51	0°M₊	
min. Earth dist.	4973 Apr 06 19:05	18° <b>Ƴ</b> 45'57	0.27372 AU		4975 Nov 03 06:36	0° <b>∡</b> ¹	
morning rise	4973 Apr 10 01:15	16° <b>Ƴ</b> 46'01		desc. node	4975 Nov 15 00:56	14° <b>∡</b> °30′08	
direct	4973 Apr 27 20:38	10° <b>Ƴ</b> 41'18			4975 Nov 27 14:56	0°ಕ	
greatest brilliancy	4973 May 07 04:24	12° <b>Υ</b> 19'32	-4.8m		4975 Dec 22 00:16	0° <b>≈</b>	
desc. node	4973 May 30 05:49	26° <b>Y</b> 25'43			4976 Jan 15 11:57	0° <b>₩</b>	
	4973 Jun 03 11:37	0°8			4976 Feb 09 06:19	0° <b>Υ</b>	
morning max el	4973 Jun 16 12:27	12° <b>8</b> 03'34	46°12'54		4976 Mar 05 17:23	0° <b>႘</b>	
C	4973 Jul 04 01:00	0° <b>I</b> I		asc. node	4976 Mar 07 02:36	1° <b>8</b> 35'27	
	4973 Jul 31 06:29	0°ಅ			4976 Apr 01 21:56	$0^{\circ}\Pi$	
	4973 Aug 26 07:21	$0^{\circ}\Omega$		evening max el	4976 Apr 07 17:02	5° <b>Ⅱ</b> 55'46	46°40'18
asc. node	4973 Sep 20 07:39	29° <b>Ω</b> 36′05		C	4976 May 05 16:07	0°©	
	4973 Sep 20 15:39	0° mp		greatest brilliancy	4976 May 17 00:38	6° <b>©</b> 02'28	-4.8m
	4973 Oct 15 11:41	$0$ ° $\overline{\mathbf{v}}$		retrograde	4976 May 27 19:42	8° <b>©</b> 11'38	
	4973 Nov 08 22:26	o°M.		evening set	4976 Jun 12 02:36	3° <b>5</b> 37'14	
	4973 Dec 03 02:50	0° <b>∡</b> 7		inferior conj	4976 Jun 18 01:35	0° <b>5</b> 01'09	2°05'47
morning set	4973 Dec 11 10:15	10° <b>≯</b> 21'33		minimum elong	4976 Jun 18 06:11	29° <b>Ⅱ</b> 53'57	2°04'24
C	4973 Dec 27 03:19	8°0		min. Earth dist.	4976 Jun 17 20:05	0°ഇ09'46	0.28280 AU
desc. node	4974 Jan 09 22:32	17° <b>る</b> 17'51			4976 Jun 18 02:19	30°RⅡ	
max. Earth dist.	4974 Jan 18 17:14	28° <b>ප</b> 18'54	1.71301 AU	morning rise	4976 Jun 24 10:19	26° <b>Ⅱ</b> 12'56	
				desc. node	4976 Jun 26 17:30	25° <b>Ⅱ</b> 02'24	
superior conj	4974 Jan 20 07:42	0° <b>≈</b> 19'40	-0°24'46	direct	4976 Jul 09 07:25	21° <b>Ⅱ</b> 56'33	
minimum elong	4974 Jan 20 01:27	0° <b>≈</b> 00'03	0°24'27	greatest brilliancy	4976 Jul 19 04:22	23° <b>Ⅱ</b> 42'33	-4.7m
_	4974 Jan 20 01:26	0° <b>≈</b>			4976 Jul 31 15:23	0°©	
	4974 Feb 12 22:13	0° <b>∀</b>		morning max el	4976 Aug 26 23:47	21° <b>©</b> 39'26	45°42'23
evening rise	4974 Mar 02 04:39	21° <b>)</b> 42'37		Č	4976 Sep 04 11:59	0°N	
	4974 Mar 08 19:02	$0^{\circ}\mathbf{\Upsilon}$			4976 Oct 02 14:45	0° <b>m</b> )	
	4974 Apr 01 17:54	0°8		asc. node	4976 Oct 17 19:35	17° <b>m</b> ) 15'21	
	4974 Apr 25 21:20	0° <b>Ⅱ</b>			4976 Oct 28 18:16	0∘ <u>⊽</u>	
asc. node	4974 May 03 00:27	8° <b>Ⅱ</b> 47'49			4976 Nov 22 21:18	$0^{\circ}$ M	
	4974 May 20 07:57	0ಂತಾ			4976 Dec 17 09:56	0° <b>∡</b> ¹	
	4974 Jun 14 04:53	$0^{\circ}\Omega$			4977 Jan 10 14:17	გ∘0	
	4974 Jul 09 17:43	0° mp			4977 Feb 03 14:04	0° <b>≈</b>	
	4974 Aug 05 11:09	0∘ <u>⊽</u>		desc. node	4977 Feb 06 10:22	3° <b>≈</b> 34'04	
desc. node	4974 Aug 22 15:18	18° <b>ഫ</b> 00'10		morning set	4977 Feb 24 19:36	26° <b>≈</b> 39'01	
evening max el	4974 Aug 30 20:27	26° <b>ഫ</b> 04'21	45°36'48	-	4977 Feb 27 11:35	0° <b>∀</b>	
Č	4974 Sep 04 00:55	0°M			4977 Mar 23 08:30	0°Υ	

superior conj	4977 Apr 06 21:19	18° <b>Ƴ</b> 14'39	-1°26'46	morning rise	4979 Sep 01 08:12	4° <b>m</b> 55'04	
minimum elong	4977 Apr 06 23:15	18° <b>Y</b> 20'41	1°26'46	morning rise	4979 Sep 12 13:17	30°RΩ	
max. Earth dist.	4977 Apr 10 05:41	22° <b>Υ</b> 26'29		direct	4979 Sep 18 14:53	29° <b>Ω</b> 16′02	
	4977 Apr 16 06:32	0°8	.,,.,,.,		4979 Sep 24 21:16	0° m)	
	4977 May 10 07:23	0°II		greatest brilliancy	4979 Sep 28 23:26	1° m) 12'07	-4.7m
evening rise	4977 May 16 22:38	8° <b>Ⅱ</b> 14'48		morning max el	4979 Nov 06 20:14	29° m 46'55	
asc. node	4977 May 30 12:14	25° <b>Ⅲ</b> 03′22		Č	4979 Nov 07 01:36	0° <del>ق</del>	
	4977 Jun 03 12:18	0ಂತ		asc. node	4979 Nov 15 07:19	8° <b>≏</b> 16'47	
	4977 Jun 27 22:06	$0^{\circ}\Omega$			4979 Dec 05 09:38	0° <b>M</b>	
	4977 Jul 22 13:45	0° <b>m</b>			4979 Dec 31 07:20	0° <b>∡</b> ¹	
	4977 Aug 16 13:20	0∘ <b>⊽</b>			4980 Jan 25 04:38	0°ರ	
	4977 Sep 11 00:58	0° <b>M</b> ₊			4980 Feb 18 14:11	0° <b>≈</b>	
desc. node	4977 Sep 19 03:09	9°M21'05		desc. node	4980 Mar 05 22:23	20°≈16′24	
	4977 Oct 07 08:35	0° <b>∡</b> ¹			4980 Mar 13 17:58	0° <b>ℋ</b>	
	4977 Nov 04 08:31	0° <b>ප</b>			4980 Apr 06 19:18	$0$ ° $\mathbf{\gamma}$	
evening max el	4977 Nov 11 07:07	6° <b>る</b> 55'02	46°25'36		4980 Apr 30 20:33	$9^{\circ}$ 8	
	4977 Dec 08 13:13	0°≈		morning set	4980 May 11 11:18	13° <b>8</b> 12'47	
greatest brilliancy	4977 Dec 21 10:07	6° <b>≈</b> 41'08	-4.9m		4980 May 24 23:28	$\Pi^{\circ}0$	
retrograde	4977 Dec 31 02:25	8° <b>≈</b> 26'42			4980 Jun 18 04:51	0ං <b>ව</b>	
asc. node	4978 Jan 10 04:55	6° <b>≈</b> 23'06					
evening set	4978 Jan 14 11:19	4°≈23'20		superior conj	4980 Jun 18 21:01	0°949'58	-0°19'23
inferior conj	4978 Jan 20 17:08	0° <b>≈</b> 45′20	2°41'35	minimum elong	4980 Jun 19 01:19	1° <b>©</b> 03'15	
minimum elong	4978 Jan 20 11:08	0° <b>≈</b> 54'30		max. Earth dist.	4980 Jun 21 08:07	3° <b>9</b> 52'32	1.72953 AU
min. Earth dist.	4978 Jan 20 16:31		0.26672 AU	asc. node	4980 Jun 27 00:01	10°952'00	
	4978 Jan 21 22:52	30°Rる			4980 Jul 12 12:34	$0$ $\circ$ $\Omega$	
morning rise	4978 Jan 26 10:37	27° <b>る</b> 22'54		evening rise	4980 Jul 26 02:54	16° <b>Ω</b> 43'48	
direct	4978 Feb 10 05:11	23°る02'20			4980 Aug 05 22:13	0° mp	
greatest brilliancy	4978 Feb 20 08:46	24° <b>පි</b> 58'49	-4.9m		4980 Aug 30 09:59	0° <b>™</b>	
	4978 Mar 02 07:36	0°≈	46077116		4980 Sep 24 00:56	0°M	
morning max el	4978 Apr 01 16:24	25°≈53'10	46°55'16	desc. node	4980 Oct 16 15:05	27°M19'09	
JJ.	4978 Apr 05 17:22	0° <b> </b>			4980 Oct 18 20:32	%₹°0 ℃₹	
desc. node	4978 May 01 20:09	28°π23'08 0° <b>Υ</b>			4980 Nov 12 22:28 4980 Dec 08 10:14	0° <b>≈</b>	
	4978 May 03 06:23 4978 May 29 04:56	0°8			4980 Dec 08 10.14 4981 Jan 03 18:48	0 <b>≈</b> 0° <b>H</b>	
	4978 Jun 23 12:34	0°II		evening max el	4981 Jan 23 04:47	20° <b>∺</b> 40'45	47°09'07
	4978 Jul 18 13:13	0°©		evening max er	4981 Feb 01 17:31	20 <b>γ</b> (4043	4/ 090/
	4978 Aug 12 09:13	0°Ω		asc. node	4981 Feb 06 16:51	4° <b>Υ</b> 32'39	
asc. node	4978 Aug 22 21:49	12° <b>Ω</b> 47'03		greatest brilliancy	4981 Mar 04 20:17	22°Υ06'35	-4.9m
asc. node	4978 Sep 06 00:33	0° m		retrograde	4981 Mar 14 23:49	24° <b>Υ</b> 04'04	4.7111
morning set	4978 Sep 30 02:04	29° m 32'15		evening set	4981 Apr 02 01:33	17° <b>Y</b> 45'22	
morning sec	4978 Sep 30 11:05	0∘ <b>ರ</b>		inferior conj	4981 Apr 04 17:46	16° <b>Υ</b> 06'28	9°02'14
	4978 Oct 24 17:30	0° <b>M</b>		minimum elong	4981 Apr 04 18:57	16° <b>Ƴ</b> 04'37	9°02'13
max. Earth dist.	4978 Nov 03 03:02		1.72558 AU	min. Earth dist.	4981 Apr 04 07:27	16° <b>Ƴ</b> 22'28	0.27336 AU
				morning rise	4981 Apr 07 12:29	14° <b>Y</b> 24'10	
superior conj	4978 Nov 05 20:31	15°ML02'54	1°13'25	direct	4981 Apr 25 10:08	8° <b>Ƴ</b> 17'12	
minimum elong	4978 Nov 06 05:07	15°M29'39	1°13'12	greatest brilliancy	4981 May 04 16:06	9° <b>Ƴ</b> 54'10	-4.8m
_	4978 Nov 17 21:08	0°⊀		desc. node	4981 May 29 07:44	25° <b>Ƴ</b> 18'43	
	4978 Dec 11 23:06	0° <b>ට</b>			4981 Jun 03 17:36	0°8	
desc. node	4978 Dec 12 12:46	0° <b>る</b> 42'39		morning max el	4981 Jun 14 02:42	9° <b>8</b> 44'27	46°14'24
evening rise	4978 Dec 14 09:46	3° <b>る</b> 02'54			4981 Jul 03 18:59	$\Pi^{\circ}0$	
	4979 Jan 05 00:00	0° <b>≈</b>			4981 Jul 30 20:56	0ංම	
	4979 Jan 29 00:30	0° <b>∀</b>			4981 Aug 25 20:09	$0^{\circ}\Omega$	
	4979 Feb 22 02:14	$0$ ° $\mathbf{\gamma}$		asc. node	4981 Sep 19 09:39	29° <b>Ω</b> 06′25	
	4979 Mar 18 08:34	0°8			4981 Sep 20 03:33	0° <b>m</b> ∕	
asc. node	4979 Apr 04 14:31	21° <b>8</b> 02'27			4981 Oct 14 23:05	0∘ <b>ಹ</b>	
	4979 Apr 12 00:48	$\Pi^{\circ}0$			4981 Nov 08 09:34	0° <b>M</b> ₊	
	4979 May 07 11:20	0°99			4981 Dec 02 13:52	0° <b>∡</b> ¹	
	4979 Jun 03 10:01	0°N	45045122	morning set	4981 Dec 09 00:36	8° <b>≯</b> 02'19	
evening max el	4979 Jun 18 10:35	15° <b>Ω</b> 21'17	45°45'33	1 1	4981 Dec 26 14:19	0°る	
1 1	4979 Jul 04 16:16	0° M)		desc. node	4982 Jan 09 00:35	16° <b>る</b> 49'47	1.71220 117
desc. node	4979 Jul 25 05:34	13° Mp 08'45	4.7	max. Earth dist.	4982 Jan 16 00:11	25° <b>る</b> 35'28	1.71329 AU
greatest brilliancy	4979 Jul 26 14:56	13° Mp 41'40	-4.7m	aumoni '	4002 I 17 10 02	270-240156	0021100
retrograde	4979 Aug 06 12:09	15° Mp 50'16		superior conj	4982 Jan 17 19:02	27°る49'56 27°る33'13	
evening set	4979 Aug 22 22:34	10° Mp 40'06	6°54'20	minimum elong	4982 Jan 17 13:42 4982 Jan 19 12:28	2/° <b>℃</b> 33′13	0 20'44
inferior conj	4979 Aug 28 00:52	7° Mp 33'48			4982 Jan 19 12:28 4982 Feb 12 09:19	0° <b>∺</b>	
minimum elong min. Earth dist.	4979 Aug 27 15:22 4979 Aug 27 18:44	7° Mp 48'41 7° m 43'25	0.29116 AU	evening rise	4982 Feb 12 09:19 4982 Feb 27 15:08	0° <del>X</del> 19° <b>X</b> 09'42	
mm. Barui uist.	7717 Aug 21 10.44	/ IIJ+323	0.27110 AU	evening 1150	4702100 27 13.08	17 10742	

	4982 Mar 08 06:13	$0$ ° $\mathbf{\Upsilon}$			4984 Oct 02 05:23	0° <b>m</b> )	
	4982 Apr 01 05:12	$9^{\circ}$ 8		asc. node	4984 Oct 16 21:32	16°My42'15	
	4982 Apr 25 08:48	$\Pi$ $^{\circ}0$			4984 Oct 28 07:04	0∘ <b>⊽</b>	
asc. node	4982 May 02 02:21	8° <b>Ⅱ</b> 18′09			4984 Nov 22 09:12	0° <b>M</b> .	
	4982 May 19 19:44	0° <b>©</b>			4984 Dec 16 21:22	0° <b>⊼</b> ¹	
	4982 Jun 13 17:19	$0^{\circ}\Omega$			4985 Jan 10 01:27	5°0	
	4982 Jul 09 07:24	0° <b>m</b> )			4985 Feb 03 01:05	0° <b>≈</b>	
	4982 Aug 05 03:40	0∘ <b>ʊ</b> 0 ıı⁄ı		desc. node	4985 Feb 05 12:29	3°≈06'12	
11.	•						
desc. node	4982 Aug 21 17:23	17° <b>£</b> 14'36	45005154	morning set	4985 Feb 22 05:41	24°≈05'31	
evening max el	4982 Aug 28 10:52	23° <b>Ω</b> 49'22	45°35'54		4985 Feb 26 22:29	0° <b>)</b> €	
	4982 Sep 04 02:30	0° <b>M</b>			4985 Mar 22 19:19	$0^{\circ}$ $\Upsilon$	
greatest brilliancy	4982 Oct 06 17:23	21°M51'23	-4.7m				
retrograde	4982 Oct 16 01:40	23°M25'56		superior conj	4985 Apr 04 09:02	15° <b>Ƴ</b> 47'08	-1°27'00
evening set	4982 Nov 02 08:21	17° <b>M</b> 50'14		minimum elong	4985 Apr 04 09:56	15° <b>Ƴ</b> 49'56	1°27'01
inferior conj	4982 Nov 06 05:51	15°M27'40	-7°30'52	max. Earth dist.	4985 Apr 07 11:23	19° <b>Ƴ</b> 40'12	1.71476 AU
minimum elong	4982 Nov 06 14:52	15°ML13'38	7°29'29		4985 Apr 15 17:17	$8^{\circ 0}$	
min. Earth dist.	4982 Nov 07 03:55	14°M53'22	0.28235 AU		4985 May 09 18:07	$\Pi^{\circ}$	
morning rise	4982 Nov 10 20:59	12°M38'28		evening rise	4985 May 14 12:01	5° <b>Ⅱ</b> 53'56	
direct	4982 Nov 27 12:56	7°M18'39		asc. node	4985 May 29 14:15	24° <b>Ⅱ</b> 36'11	
greatest brilliancy	4982 Dec 08 16:48	9°M36'56	-4.8m	ase. Hode	4985 Jun 02 23:07	<sub>0°</sub> ඉ	
asc. node		11°M28'14	-4.0111		4985 Jun 27 09:06	0° <b>U</b>	
asc. node	4982 Dec 12 19:01						
	4983 Jan 06 13:41	0° <b>∡</b> 7	46044122		4985 Jul 22 01:06	0° m/y	
morning max el	4983 Jan 16 22:48	10° <b>∡</b> *04'13	46°44'32		4985 Aug 16 01:18	0∘ <b>⊽</b>	
	4983 Feb 04 15:59	0°₹			4985 Sep 10 14:07	0°ML	
	4983 Mar 02 19:14	0° <b>≈</b>		desc. node	4985 Sep 18 05:08	8°M47'29	
	4983 Mar 27 21:38	0° <b>ℋ</b>			4985 Oct 07 00:02	0° <b>≯</b> ¹	
desc. node	4983 Apr 03 10:12	7° <b>) €</b> 54'03			4985 Nov 04 05:40	0°ප	
	4983 Apr 21 13:18	$0$ ° $\mathbf{\Upsilon}$		evening max el	4985 Nov 08 20:27	4° <b>⋜</b> 33'44	46°23'34
	4983 May 16 00:33	$6^{\circ}B$			4985 Dec 09 23:00	0° <b>≈</b>	
	4983 Jun 09 10:44	$\Pi^{\circ}0$		greatest brilliancy	4985 Dec 18 22:46	4°≈14'46	-4.9m
	4983 Jul 03 21:09	0°ಅ		retrograde	4985 Dec 28 15:05	6° <b>≈</b> 00'19	
morning set	4983 Jul 21 15:08	21° <b>©</b> 47'24		asc. node	4986 Jan 09 07:04	3°≈16′09	
asc. node	4983 Jul 25 11:57	26° <b>©</b> 32'17		evening set	4986 Jan 11 23:03	1°≈57'24	
	4983 Jul 28 07:37	$0^{\circ}\Omega$		8	4986 Jan 15 10:24	30°R₹	
	4983 Aug 21 17:20	0° <b>m</b>		inferior conj	4986 Jan 18 05:33	28° <b>ප</b> 18'45	2°17'58
max. Earth dist.	4983 Aug 26 07:56	5°Mp40'17	1.73443 AU	minimum elong	4986 Jan 18 00:21	28°පි26'40	2°16'20
max. Earth dist.	4903 Aug 20 07.30	3 HJ/4017	1./3443 AU	U		28° <b>ろ</b> 17'49	0.26687 AU
	1002 1 27 00 52	70 m 00102	1000100	min. Earth dist.	4986 Jan 18 06:10		0.2008 / AU
superior conj	4983 Aug 27 09:52	7° Mp 00'03	1°08'09	morning rise	4986 Jan 24 01:20	24°る53'32	
minimum elong	4983 Aug 27 01:10	6° TQ 33'18	1°07'54	direct	4986 Feb 07 18:08	20° <b>る</b> 35'08	
	4983 Sep 15 01:53	0∘ <b>ত</b>		greatest brilliancy	4986 Feb 17 23:01	22° <b>る</b> 33'25	-4.9m
evening rise	4983 Oct 02 12:10	21° <b>≏</b> 29'26			4986 Mar 03 12:39	0° <b>≈</b>	
	4983 Oct 09 09:44	0°M₊		morning max el	4986 Mar 30 06:49	23° <b>≈</b> 31'38	46°56'12
	4983 Nov 02 17:42	0° <b>∡</b> ¹			4986 Apr 05 14:17	0° <b>ℋ</b>	
desc. node	4983 Nov 14 02:53	14° <b>⋌</b> 101′29		desc. node	4986 Apr 30 22:04	27° <b>)</b> 44′02	
	4983 Nov 27 02:21	5°0			4986 May 02 21:55	$0$ ° $\Upsilon$	
	4983 Dec 21 12:05	0° <b>≈</b>			4986 May 28 18:15	$8^{\circ}$ 0	
	4984 Jan 15 00:23	0° <b>)</b> €			4986 Jun 23 00:42	$\Pi^{\circ}$	
	4984 Feb 08 19:44	$_0$ ° $\gamma$			4986 Jul 18 00:39	0ං <b>ම</b>	
	4984 Mar 05 08:43	0°8			4986 Aug 11 20:13	0°N	
asc. node	4984 Mar 06 04:36	0° <b>8</b> 56'56		asc. node	4986 Aug 21 23:48	12° <b>Ω</b> 20'03	
asc. node	4904 Mai 00 04.30			asc. Houc		12 062003	
	4094 Apr 01 19:12	л∘П			Č	∩o mh	
	4984 Apr 01 18:12	0°Ⅱ 2°Ⅲ2.4/52	46042104	. ,	4986 Sep 05 11:17	0° M)	
evening max el	4984 Apr 05 06:45	3° <b>Ⅱ</b> 34'52	46°42'04	morning set	4986 Sep 05 11:17 4986 Sep 27 19:21	27° m/25'00	
	4984 Apr 05 06:45 4984 May 06 22:05	3°∏34′52 0°©		morning set	4986 Sep 05 11:17 4986 Sep 27 19:21 4986 Sep 29 21:40	27° m 25′00 0° <u>Ω</u>	
greatest brilliancy	4984 Apr 05 06:45 4984 May 06 22:05 4984 May 14 17:42	3°∏34'52 0°© 3°©49'22		·	4986 Sep 05 11:17 4986 Sep 27 19:21 4986 Sep 29 21:40 4986 Oct 24 04:03	27° m/25′00 0° <u>₽</u> 0° m.	
	4984 Apr 05 06:45 4984 May 06 22:05	3°∏34′52 0°©		morning set max. Earth dist.	4986 Sep 05 11:17 4986 Sep 27 19:21 4986 Sep 29 21:40	27° m 25′00 0° <u>Ω</u>	1.72601 AU
greatest brilliancy	4984 Apr 05 06:45 4984 May 06 22:05 4984 May 14 17:42	3°II34'52 0°S 3°S49'22 5°S57'26 1°S20'36		·	4986 Sep 05 11:17 4986 Sep 27 19:21 4986 Sep 29 21:40 4986 Oct 24 04:03	27° m 25'00 0° Ω 0° M 9° M 34'31	
greatest brilliancy retrograde	4984 Apr 05 06:45 4984 May 06 22:05 4984 May 14 17:42 4984 May 25 10:56	3°II34'52 0°S 3°S49'22 5°S57'26 1°S20'36 30°RII	-4.8m	·	4986 Sep 05 11:17 4986 Sep 27 19:21 4986 Sep 29 21:40 4986 Oct 24 04:03	27° m 25'00 0° Ω 0° M 9° M 34'31	1.72601 AU 1°15'06
greatest brilliancy retrograde	4984 Apr 05 06:45 4984 May 06 22:05 4984 May 14 17:42 4984 May 25 10:56 4984 Jun 09 19:51	3°II34'52 0°S 3°S49'22 5°S57'26 1°S20'36	-4.8m	max. Earth dist.	4986 Sep 05 11:17 4986 Sep 27 19:21 4986 Sep 29 21:40 4986 Oct 24 04:03 4986 Oct 31 21:20	27° m 25'00 0° <u>a</u> 0° m 9° m 34'31 12° m 50'36	
greatest brilliancy retrograde evening set	4984 Apr 05 06:45 4984 May 06 22:05 4984 May 14 17:42 4984 May 25 10:56 4984 Jun 09 19:51 4984 Jun 12 03:17	3°II34'52 0°S 3°S49'22 5°S57'26 1°S20'36 30°RII	-4.8m	max. Earth dist.	4986 Sep 05 11:17 4986 Sep 27 19:21 4986 Sep 29 21:40 4986 Oct 24 04:03 4986 Oct 31 21:20 4986 Nov 03 12:30	27° m 25'00 0° <u>a</u> 0° m 9° m 34'31 12° m 50'36	1°15'06
greatest brilliancy retrograde evening set inferior conj	4984 Apr 05 06:45 4984 May 06 22:05 4984 May 14 17:42 4984 May 25 10:56 4984 Jun 09 19:51 4984 Jun 12 03:17 4984 Jun 15 17:01	3°II 34'52 0°S 3°S 49'22 5°S 57'26 1°S 20'36 30°R II 27°II 47'25	-4.8m 2°26'21 2°24'46	max. Earth dist.	4986 Sep 05 11:17 4986 Sep 27 19:21 4986 Sep 29 21:40 4986 Oct 24 04:03 4986 Oct 31 21:20 4986 Nov 03 12:30 4986 Nov 03 20:41	27° m 25'00 0° <u>a</u> 0° m 9° m 34'31 12° m 50'36 13° m 16'00	1°15'06
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	4984 Apr 05 06:45 4984 May 06 22:05 4984 May 14 17:42 4984 May 25 10:56 4984 Jun 09 19:51 4984 Jun 15 03:17 4984 Jun 15 17:01 4984 Jun 15 22:18 4984 Jun 15 12:20	3°II34'52 0°99 3°9549'22 5°957'26 1°9920'36 30°RII 27°II47'25 27°II39'07 27°II54'44	-4.8m 2°26'21 2°24'46	max. Earth dist. superior conj minimum elong	4986 Sep 05 11:17 4986 Sep 27 19:21 4986 Sep 29 21:40 4986 Oct 24 04:03 4986 Oct 31 21:20 4986 Nov 03 12:30 4986 Nov 03 20:41 4986 Nov 17 07:45 4986 Dec 11 09:53	27° m/25'00 0° Ω 0° M 9° M.34'31 12° M.50'36 13° M.16'00 0° ♂ 0° ♂	1°15'06
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	4984 Apr 05 06:45 4984 May 06 22:05 4984 May 14 17:42 4984 May 25 10:56 4984 Jun 09 19:51 4984 Jun 15 03:17 4984 Jun 15 17:01 4984 Jun 15 12:20 4984 Jun 22 01:12	3°II34'52 0°II 3°II349'22 5°II57'26 1°II20'36 30°RII 27°II47'25 27°II39'07 27°II54'44 23°II59'45	-4.8m 2°26'21 2°24'46	max. Earth dist. superior conj minimum elong evening rise	4986 Sep 05 11:17 4986 Sep 27 19:21 4986 Sep 29 21:40 4986 Oct 24 04:03 4986 Oct 31 21:20 4986 Nov 03 12:30 4986 Nov 03 20:41 4986 Nov 17 07:45 4986 Dec 11 09:53 4986 Dec 11 23:09	27° m 25'00 0° Ω 0° M 9° M 34'31 12° M 50'36 13° M 16'00 0° ♂ 0° ♂ 0° ♂	1°15'06
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	4984 Apr 05 06:45 4984 May 06 22:05 4984 May 14 17:42 4984 May 25 10:56 4984 Jun 09 19:51 4984 Jun 15 17:01 4984 Jun 15 12:18 4984 Jun 15 12:20 4984 Jun 22 01:12 4984 Jun 25 19:36	3°II34'52 0°S 3°S49'22 5°S57'26 1°S20'36 30°RII 27°II47'25 27°II39'07 27°II54'44 23°II59'45 22°II08'55	-4.8m 2°26'21 2°24'46	max. Earth dist. superior conj minimum elong	4986 Sep 05 11:17 4986 Sep 27 19:21 4986 Sep 29 21:40 4986 Oct 24 04:03 4986 Oct 31 21:20  4986 Nov 03 12:30 4986 Nov 03 20:41 4986 Nov 17 07:45 4986 Dec 11 09:53 4986 Dec 11 23:09 4986 Dec 11 14:50	27° m/25'00 0° Ω 0° M 9° M34'31 12° M50'36 13° M16'00 0° ズ 0° ℧ 0° ℧ 0° ℧ 15'28	1°15'06
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	4984 Apr 05 06:45 4984 May 06 22:05 4984 May 14 17:42 4984 May 25 10:56 4984 Jun 09 19:51 4984 Jun 15 17:01 4984 Jun 15 12:20 4984 Jun 15 12:20 4984 Jun 22 01:12 4984 Jun 25 19:36 4984 Jul 06 21:44	3°II34'52 0°S 3°S49'22 5°S57'26 1°S20'36 30°RII 27°II47'25 27°II39'07 27°II54'44 23°II59'45 22°II08'55 19°II43'08	-4.8m 2°26'21 2°24'46 0.28249 AU	max. Earth dist. superior conj minimum elong evening rise	4986 Sep 05 11:17 4986 Sep 27 19:21 4986 Sep 29 21:40 4986 Oct 24 04:03 4986 Oct 31 21:20  4986 Nov 03 12:30 4986 Nov 03 20:41 4986 Nov 17 07:45 4986 Dec 11 09:53 4986 Dec 11 23:09 4986 Dec 11 14:50 4987 Jan 04 10:59	27° m/25'00 0° Ω 0° M 9° M34'31 12° M50'36 13° M16'00 0° ズ 0° ℧ 0° ℧ 0° ℧ 15'28 0° ℧	1°15'06
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	4984 Apr 05 06:45 4984 May 06 22:05 4984 May 14 17:42 4984 May 25 10:56 4984 Jun 09 19:51 4984 Jun 15 17:01 4984 Jun 15 12:18 4984 Jun 15 12:20 4984 Jun 25 19:36 4984 Jun 25 19:36 4984 Jul 06 21:44 4984 Jul 16 19:50	3°II34'52 0°S 3°S49'22 5°S57'26 1°S20'36 30°RII 27°II47'25 27°II39'07 27°II54'44 23°II59'45 22°II08'55 19°II43'08 21°II29'48	-4.8m 2°26'21 2°24'46 0.28249 AU	max. Earth dist. superior conj minimum elong evening rise	4986 Sep 05 11:17 4986 Sep 27 19:21 4986 Sep 29 21:40 4986 Oct 24 04:03 4986 Oct 31 21:20  4986 Nov 03 12:30 4986 Nov 03 20:41 4986 Nov 17 07:45 4986 Dec 11 09:53 4986 Dec 11 23:09 4986 Dec 11 14:50 4987 Jan 04 10:59 4987 Jan 28 11:42	27° m/25'00 0° Ω 0° M 9° M34'31 12° M50'36 13° M16'00 0° ズ 0° ℧ 0° ℧ 0° ℧ 15'28 0° ℧ 0° ℋ	1°15'06
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct greatest brilliancy	4984 Apr 05 06:45 4984 May 06 22:05 4984 May 14 17:42 4984 May 25 10:56 4984 Jun 09 19:51 4984 Jun 15 17:01 4984 Jun 15 22:18 4984 Jun 15 12:20 4984 Jun 25 19:36 4984 Jun 25 19:36 4984 Jul 06 21:44 4984 Jul 16 19:50 4984 Aug 01 13:36	3°II34'52 0°S 3°S49'22 5°S57'26 1°S20'36 30°RII 27°II47'25 27°II54'44 23°II59'45 22°II08'55 19°II43'08 21°II29'48 0°S	-4.8m 2°26'21 2°24'46 0.28249 AU -4.7m	max. Earth dist. superior conj minimum elong evening rise	4986 Sep 05 11:17 4986 Sep 27 19:21 4986 Sep 29 21:40 4986 Oct 24 04:03 4986 Oct 31 21:20  4986 Nov 03 12:30 4986 Nov 03 20:41 4986 Nov 17 07:45 4986 Dec 11 09:53 4986 Dec 11 14:50 4987 Jan 04 10:59 4987 Jan 28 11:42 4987 Feb 21 13:41	27° m/25'00 0° Ω 0° M 9° M34'31 12° M50'36 13° M16'00 0° ズ 0° ℧ 41'23 0° ℧ 41'23 0° ℧ 15'28 0° ※ 0° ℋ	1°15'06
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	4984 Apr 05 06:45 4984 May 06 22:05 4984 May 14 17:42 4984 May 25 10:56 4984 Jun 09 19:51 4984 Jun 15 17:01 4984 Jun 15 12:18 4984 Jun 15 12:20 4984 Jun 25 19:36 4984 Jun 25 19:36 4984 Jul 06 21:44 4984 Jul 16 19:50	3°II34'52 0°S 3°S49'22 5°S57'26 1°S20'36 30°RII 27°II47'25 27°II39'07 27°II54'44 23°II59'45 22°II08'55 19°II43'08 21°II29'48	-4.8m 2°26'21 2°24'46 0.28249 AU -4.7m	max. Earth dist. superior conj minimum elong evening rise	4986 Sep 05 11:17 4986 Sep 27 19:21 4986 Sep 29 21:40 4986 Oct 24 04:03 4986 Oct 31 21:20  4986 Nov 03 12:30 4986 Nov 03 20:41 4986 Nov 17 07:45 4986 Dec 11 09:53 4986 Dec 11 23:09 4986 Dec 11 14:50 4987 Jan 04 10:59 4987 Jan 28 11:42	27° m/25'00 0° Ω 0° M 9° M34'31 12° M50'36 13° M16'00 0° ズ 0° ℧ 0° ℧ 0° ℧ 15'28 0° ℧ 0° ℋ	1°15'06

	4987 Apr 11 13:22	0° <b>I</b> I			4989 Nov 07 20:22	0°M	
	4987 May 07 01:20	0°©			4989 Nov 07 20.22 4989 Dec 02 00:36	0°11C 0°27	
	4987 Jun 03 03:33	0° <b>U</b>		morning set	4989 Dec 02 00:30 4989 Dec 06 14:53	5° <b>∡</b> ¹43'42	
evening max el	4987 Jun 16 03:24	13° <b>Ω</b> 13'04	45°46'58	morning set	4989 Dec 26 01:04	0°る	
evening max er	4987 Jul 05 01:14	0° m)	43 4030	desc. node	4990 Jan 08 02:42	16°る22'40	
greatest brilliancy	4987 Jul 24 06:00	11° <b>m</b> ) 32'27	-4.7m	max. Earth dist.	4990 Jan 13 05:13		1.71359 AU
desc. node	4987 Jul 24 07:36	11° m <sub>y</sub> 32'27'	4.7111	max. Earth dist.	4))0 Jun 15 05.15	22 04030	1.71557710
retrograde	4987 Aug 04 05:00	13° <b>m</b> 42'21		superior conj	4990 Jan 15 06:17	25° <b>ට</b> 20'51	-0°17'12
evening set	4987 Aug 20 12:06	8° Mp 36'21		minimum elong	4990 Jan 15 01:54	25° <b>る</b> 07'07	
inferior conj	4987 Aug 25 17:18	5° m 25'39	-6°42'21	mminum vieng	4990 Jan 18 23:14	0° <b>≈</b>	0 1000
minimum elong	4987 Aug 25 07:37	5° <b>m</b> 40'48	6°40'35		4990 Feb 11 20:08	0° <b>)</b> €	
min. Earth dist.	4987 Aug 25 10:05	5° m 36'57		evening rise	4990 Feb 25 01:30	16° <b>)</b> €37'16	
morning rise	4987 Aug 30 03:15	2° m 43'08		<i>B</i>	4990 Mar 07 17:07	0° <b>Υ</b>	
3	4987 Sep 04 06:16	30°R <b>Ω</b>			4990 Mar 31 16:14	0°8	
direct	4987 Sep 16 07:50	27° <b>Ω</b> 08'15			4990 Apr 24 20:01	0°П	
greatest brilliancy	4987 Sep 26 14:26	29° <b>Ω</b> 02'56	-4.7m	asc. node	4990 May 01 04:24	7° <b>Ⅱ</b> 49'43	
· ·	4987 Sep 29 00:56	0° m/			4990 May 19 07:17	$0 \circ \mathfrak{S}$	
morning max el	4987 Nov 04 12:25	27° m 36'53	45°58'34		4990 Jun 13 05:29	$0^{\circ}\Omega$	
C	4987 Nov 06 22:42	0° <del>ق</del>			4990 Jul 08 20:51	0° <b>m</b> )	
asc. node	4987 Nov 14 09:19	7° <b>£</b> 33'26			4990 Aug 04 20:05	0∘ <b>⊽</b>	
	4987 Dec 05 00:50	0°M,		desc. node	4990 Aug 20 19:20	16° <b>≏</b> 29'19	
	4987 Dec 30 20:28	0° <b>∡</b> ¹		evening max el	4990 Aug 26 00:33	21° <b>≏</b> 34'01	45°35'09
	4988 Jan 24 16:48	7ంర		Č	4990 Sep 04 04:57	0° <b>M</b>	
	4988 Feb 18 01:50	0° <b>≈</b>		greatest brilliancy	4990 Oct 04 07:36	19° <b>M</b> 38'00	-4.7m
desc. node	4988 Mar 05 00:16	19° <b>≈</b> 46'53		retrograde	4990 Oct 13 15:37	21°ML12'44	
	4988 Mar 13 05:15	0° <b>∀</b>		evening set	4990 Oct 31 01:49	15° <b>M</b> 32'34	
	4988 Apr 06 06:19	$_0$ ° $\boldsymbol{\gamma}$		inferior conj	4990 Nov 03 20:57	13° <b>M</b> .13'33	-7°40'43
	4988 Apr 30 07:22	0°8		minimum elong	4990 Nov 04 05:30	13°ML00'13	7°39'30
morning set	4988 May 09 01:12	10° <b>8</b> 53'21		min. Earth dist.	4990 Nov 04 18:56	12° <b>M</b> 39'21	0.28302 AU
	4988 May 24 10:06	$\Pi$ $^{\circ}0$		morning rise	4990 Nov 08 08:47	10°M28'55	
	,			direct	4990 Nov 25 04:02	5°M03'26	
superior conj	4988 Jun 16 12:52	28° <b>Ⅲ</b> 38′06	-0°22'43	greatest brilliancy	4990 Dec 06 09:03	7° <b>M</b> 22'12	-4.8m
minimum elong	4988 Jun 16 17:53	28° <b>Ⅱ</b> 53'36	0°22'29	asc. node	4990 Dec 11 21:10	9° <b>™</b> 58'00	
_	4988 Jun 17 15:22	0°ಅ			4991 Jan 06 15:49	0° <b>∡</b> ¹	
max. Earth dist.	4988 Jun 19 05:13	1° <b>©</b> 56'59	1.72909 AU	morning max el	4991 Jan 14 12:50	7° <b>҂</b> ¹43'01	46°43'11
asc. node	4988 Jun 26 02:09	10° <b>5</b> 26'16		-	4991 Feb 04 09:00	0°ಕ	
	4988 Jul 11 23:02	$0^{\circ}\Omega$			4991 Mar 02 09:24	0° <b>≈</b>	
evening rise	4988 Jul 23 21:02	14° <b>Ω</b> 39'46			4991 Mar 27 10:26	0° <b>∀</b>	
•	4988 Aug 05 08:45	0° <b>m</b>		desc. node	4991 Apr 02 12:14	7° <b>)</b> €22'03	
	4988 Aug 29 20:44	0∘ <b>ত</b>			4991 Apr 21 01:19	$0^{\circ}$ $\Upsilon$	
	4988 Sep 23 12:06	0° <b>M</b> ,			4991 May 15 12:03	$9^{\circ}$ 8	
desc. node	4988 Oct 15 17:00	26°M49'37			4991 Jun 08 21:50	$\Pi$ $^{\circ}0$	
	4988 Oct 18 08:20	0° <b>∡</b> ¹			4991 Jul 03 07:58	0° <b>©</b>	
	4988 Nov 12 11:14	0°రె		morning set	4991 Jul 19 08:19	19° <b>©</b> 39'58	
	4988 Dec 08 00:36	0° <b>≈</b>		asc. node	4991 Jul 24 13:55	26°905'36	
	4989 Jan 03 12:25	0° <b>ℋ</b>			4991 Jul 27 18:15	$0^{\circ}\Omega$	
evening max el	4989 Jan 20 19:28	18° <b>升</b> 19′20	47°08'33		4991 Aug 21 03:53	0° <b>m</b> )	
	4989 Feb 01 21:29	$0$ ° $\Upsilon$		max. Earth dist.	4991 Aug 24 03:10	3° <b>m</b> 39'19	1.73448 AU
asc. node	4989 Feb 05 18:50	3° <b>Y</b> 28′02					
greatest brilliancy	4989 Mar 02 10:11	19° <b>Ƴ</b> 42'24	-4.9m	superior conj	4991 Aug 25 04:07	4° <b>™</b> 56'05	1°06'12
retrograde	4989 Mar 12 13:26	21° <b>Y</b> 39'13		minimum elong	4991 Aug 24 19:15	4° Mp 28′49	1°05'55
evening set	4989 Mar 30 14:33	15° <b>Ƴ</b> 21'53			4991 Sep 14 12:27	0० <b>ত</b>	
inferior conj	4989 Apr 02 07:02	13° <b>Ƴ</b> 42′26	9°03'24	evening rise	4991 Sep 30 05:57	19° <b>≏</b> 23'31	
minimum elong	4989 Apr 02 07:16	13° <b>Y</b> 42'04	9°03'24		4991 Oct 08 20:25	0° <b>M</b>	
min. Earth dist.	4989 Apr 01 20:08	13° <b>Y</b> 59'20	0.27298 AU		4991 Nov 02 04:38	0° <b>∡</b>	
morning rise	4989 Apr 05 00:07	12° <b>Ƴ</b> 02'29		desc. node	4991 Nov 13 05:00	13° <b>∡</b> ′33'51	
direct	4989 Apr 22 23:20	5° <b>Y</b> 53'59			4991 Nov 26 13:39	ರ°0	
greatest brilliancy	4989 May 02 04:23	7° <b>Y</b> 30'07	-4.8m		4991 Dec 20 23:54	0° <b>≈</b>	
desc. node	4989 May 28 09:48	24° <b>Y</b> 14'50			4992 Jan 14 12:53	0° <b>∀</b>	
	4989 Jun 03 21:12	$9^{\circ}$ 8			4992 Feb 08 09:19	$0^{\circ}$ Y	
morning max el	4989 Jun 11 16:06	7° <b>8</b> 24'09	46°16'05	asc. node	4992 Mar 05 06:33	0° <b>8</b> 17'43	
	4989 Jul 03 12:07	$\Pi^{\circ}0$			4992 Mar 05 00:20	$9^{\circ}$ 8	
	4989 Jul 30 10:45	0ංම			4992 Apr 01 15:14	$\Pi$ $^{\circ}0$	
	4989 Aug 25 08:24	$0^{\circ}\Omega$		evening max el	4992 Apr 02 20:25	1° <b>Ⅱ</b> 13'41	46°44'02
asc. node	4989 Sep 18 11:37	28° <b>Ω</b> 38′03			4992 May 08 18:24	$0$ $\circ$ $\odot$	
	4989 Sep 19 14:58	0° <b>m</b>		greatest brilliancy	4992 May 12 10:05	1° <b>5</b> 35'09	-4.8m
	4989 Oct 14 10:04	0∘ <b>⊽</b>		retrograde	4992 May 23 02:27	3° <b>5</b> 642'59	
					•		

	4992 Jun 05 18:57	30°R <b>Ⅱ</b>		superior conj	4994 Nov 01 04:49	10°M38'37	1°16'39
evening set	4992 Jun 07 13:08	29° <b>∏</b> 03'14		minimum elong	4994 Nov 01 12:32	11°M02'34	1°16'30
inferior conj	4992 Jun 13 08:19	25° <b>I</b> I33'13	2°46'50	minimum ciong	4994 Nov 16 18:38	0°×7	1 1030
minimum elong	4992 Jun 13 14:17	25° <b>I</b> I23'53		evening rise	4994 Dec 09 12:58	28° <b>×</b> <sup>7</sup> 20'33	
min. Earth dist.	4992 Jun 13 04:15	25° <b>I</b> I39'36	0.28218 AU	desc. node	4994 Dec 10 16:53	29° <b>×</b> <sup>7</sup> 47'31	
morning rise	4992 Jun 19 15:49	21° <b>II</b> 46'36	0.20210710	dese. Hode	4994 Dec 10 20:53	29 <b>ਨ</b> 47 31	
desc. node	4992 Jun 24 21:41	19° <b>∏</b> 19'22			4995 Jan 03 22:10	0° <b>≈</b>	
direct	4992 Jul 04 12:02	17° <b>∏</b> 29'06			4995 Jan 27 23:05	0° <b>ℋ</b>	
greatest brilliancy	4992 Jul 14 11:07	19° <b>Ⅱ</b> 16'37	-4.7m		4995 Feb 21 01:23	0° <b>Υ</b>	
greatest oriniancy	4992 Aug 02 06:05	0°50	1.7111		4995 Mar 17 08:36	0°8	
morning max el	4992 Aug 22 06:03	17° <b>©</b> 14'51	45°43'16	asc. node	4995 Apr 02 18:30	19° <b>8</b> 58'54	
morning max or	4992 Sep 04 02:10	0°Ω	15 15 10	use. Houe	4995 Apr 11 02:22	0°Ⅱ	
	4992 Oct 01 19:48	0° <b>m</b> )			4995 May 06 15:57	0°.©	
asc. node	4992 Oct 15 23:34	16° Mp 09'49			4995 Jun 02 22:05	0° <b>N</b>	
asc. node	4992 Oct 27 19:43	0° <b>ت</b>		evening max el	4995 Jun 13 20:02	11° <b>Ω</b> 02'46	45°48'24
	4992 Nov 21 21:00	0° <b>m</b>		evening max er	4995 Jul 05 14:23	0° m	43 4024
	4992 Dec 16 08:44	0° <b>∡</b> 7		greatest brilliancy	4995 Jul 21 21:38	9° Mg 22'09	-4.7m
	4993 Jan 09 12:37	% ਨ		desc. node	4995 Jul 23 09:31	9° m 53'58	<del>-4</del> ./III
	4993 Feb 02 12:10	0°≈				11° m) 32'27	
JJ.		0°≈ 2°≈37'32		retrograde	4995 Aug 01 21:22	~	
desc. node	4993 Feb 04 14:24			evening set	4995 Aug 18 01:37	6° Mp 30'48	6920147
morning set	4993 Feb 19 15:33	21°≈31'00		inferior conj	4995 Aug 23 09:34	3° Mp 15'46	
	4993 Feb 26 09:31	0° <b>)</b> €		minimum elong	4995 Aug 22 23:47	3° Mp 31'07	
	4993 Mar 22 06:18	$0^{\circ}\Upsilon$		min. Earth dist.	4995 Aug 23 01:32	3° My 28'22	0.29091 AU
				morning rise	4995 Aug 27 22:08	0° <b>т</b> 29'19	
superior conj	4993 Apr 01 20:08	13° <b>℃</b> 16'57			4995 Aug 28 18:25	30°R€	
minimum elong	4993 Apr 01 19:56	13° <b>Y</b> 16′22		direct	4995 Sep 14 00:33	24° <b>Ω</b> 58'54	
max. Earth dist.	4993 Apr 04 17:02		1.71440 AU	greatest brilliancy	4995 Sep 24 05:14	26° <b>Ω</b> 51'57	-4.7m
	4993 Apr 15 04:14	0°8			4995 Oct 01 04:49	0° <b>™</b>	
	4993 May 09 05:02	$\Pi$ °0		morning max el	4995 Nov 02 03:37	25° m 23'21	45°57'13
evening rise	4993 May 12 00:49	3° <b>Ⅱ</b> 30′39			4995 Nov 06 19:32	0∘ <b>ত</b>	
asc. node	4993 May 28 16:20	24° <b>∏</b> 08'42		asc. node	4995 Nov 13 11:25	6° <b>≏</b> 49'50	
	4993 Jun 02 10:06	0			4995 Dec 04 16:10	0°M₊	
	4993 Jun 26 20:16	$0 {\circ} \Omega$			4995 Dec 30 09:50	0° <b>∡</b> ¹	
	4993 Jul 21 12:38	0° <b>m</b> p			4996 Jan 24 05:13	0°ප	
	4993 Aug 15 13:29	0∘ <b>ত</b>			4996 Feb 17 13:41	0° <b>≈</b>	
	4993 Sep 10 03:29	$0^{\circ}$ M.		desc. node	4996 Mar 04 02:19	19° <b>≈</b> 17'09	
desc. node	4993 Sep 17 07:07	8°M13'20			4996 Mar 12 16:46	0° <b>∀</b>	
	4993 Oct 06 15:48	0° <b>∡</b> ¹			4996 Apr 05 17:36	$0^{\circ}\mathbf{\Upsilon}$	
	4993 Nov 04 03:37	0°ප			4996 Apr 29 18:29	$8^{\circ}$	
evening max el	4993 Nov 06 10:47	2° <b>る</b> 15'08	46°21'38	morning set	4996 May 06 14:52	8° <b>8</b> 31'59	
	4993 Dec 12 01:20	0° <b>≈</b>			4996 May 23 21:08	$\Pi^{\circ}0$	
greatest brilliancy	4993 Dec 16 11:05	1° <b>≈</b> 48'43	-4.9m				
retrograde	4993 Dec 26 04:05	3° <b>≈</b> 34'27		superior conj	4996 Jun 14 04:14	26° <b>Ⅲ</b> 23'21	-0°26'04
asc. node	4994 Jan 08 08:58	0° <b>≈</b> 05'48		minimum elong	4996 Jun 14 09:56	26° <b>Ⅱ</b> 41'00	0°25'48
	4994 Jan 08 13:35	30°Ŗ⋜		max. Earth dist.	4996 Jun 17 01:06	29° <b>Ⅱ</b> 56'16	1.72868 AU
evening set	4994 Jan 09 11:18	29° <b>る</b> 31'53			4996 Jun 17 02:19	0°ಅ	
inferior conj	4994 Jan 15 18:10	25° <b>る</b> 52'35	1°54'15	asc. node	4996 Jun 25 04:05	9° <b>©</b> 58'28	
minimum elong	4994 Jan 15 13:49	25° <b>ප්</b> 59'11	1°52'52		4996 Jul 11 09:57	$0^{\circ}\Omega$	
min. Earth dist.	4994 Jan 15 19:41	25° <b>る</b> 50'17	0.26708 AU	evening rise	4996 Jul 21 14:31	12° <b>£</b> 32′20	
morning rise	4994 Jan 21 16:05	22° <b>る</b> 24'47		C	4996 Aug 04 19:45	0° <b>m</b>	
direct	4994 Feb 05 07:48	18° <b>る</b> 08'33			4996 Aug 29 07:58	0∘ <u>⊽</u>	
greatest brilliancy	4994 Feb 15 12:59	20° <b>ප</b> 07'41	-4.9m		4996 Sep 22 23:44	0°M	
8	4994 Mar 04 09:54	0° <b>≈</b>		desc. node	4996 Oct 14 19:08	26°M19'19	
morning max el	4994 Mar 27 21:29	21° <b>≈</b> 10′02	46°56'40	acco. noac	4996 Oct 17 20:37	0° <b>∡</b> ¹	
morning max or	4994 Apr 05 10:48	0° <b>∀</b>	10 30 10		4996 Nov 12 00:31	°පි	
desc. node	4994 Apr 30 00:10	27° <b>)</b> €04'46			4996 Dec 07 15:34	0° <b>≈</b>	
desc. node	4994 May 02 13:35	27 <b>γ</b> (04 40			4997 Jan 03 06:50	0° <b>∀</b>	
	4994 May 28 07:51	0°8		evening max el	4997 Jan 18 09:23	0 X 15° <b>¥</b> 55'04	47°08'03
	4994 Jun 22 13:08	0°II		Svening max ci	4997 Feb 02 03:44	15 χ 55 04 0° <b>Υ</b>	T/ 00 03
	4994 Jul 17 12:23	0°©		asc. node	4997 Feb 02 03:44 4997 Feb 04 20:49	2° <b>Υ</b> 21'03	
		0°Ω			4997 Feb 04 20:49 4997 Feb 28 00:36	$17^{\circ}$ <b>Y</b> 18'16	-4.9m
aga nada	4994 Aug 11 07:29			greatest brilliancy		1/° <b>γ</b> 1816 19° <b>γ</b> 14'04	-4.7111
asc. node	4994 Aug 21 01:43	11° <b>Ω</b> 52'04		retrograde	4997 Mar 10 02:42		
	4994 Sep 04 22:16	0°M)		evening set	4997 Mar 28 03:10	12° <b>Υ</b> 59'00	0902124
morning set	4994 Sep 25 12:39	25° Mp 17'08		inferior conj	4997 Mar 30 20:29	11° <b>Υ</b> 18'14	9°03'34
	4994 Sep 29 08:31	0∘ <b>亚</b>		minimum elong	4997 Mar 30 19:46	11° <b>Υ</b> 19'21	9°03'33
30 At 45 A	4994 Oct 23 14:52	0°M 7°M 23/20	1 72/20 433	min. Earth dist.	4997 Mar 30 09:17	11° <b>Υ</b> 35'39	0.27260 AU
max. Earth dist.	4994 Oct 29 13:53	7°M23'20	1.72639 AU	morning rise	4997 Apr 02 12:29	9° <b>Ƴ</b> 39'46	

1:4	4007 4 20 12-12	3° <b>Y</b> 30'30			4999 Nov 01 15:52	00.7	
direct	4997 Apr 20 12:12		4.0	1 1		0° 🗷	
greatest brilliancy	4997 Apr 29 17:22	5°Υ06'22	-4.9m	desc. node	4999 Nov 12 06:59	13° <b>∡</b> ¹04'50	
desc. node	4997 May 27 11:54	23° <b>Y</b> 12'01			4999 Nov 26 01:14	ರ್∘ರ	
	4997 Jun 03 23:32	0°8			4999 Dec 20 11:59	0° <b>≈</b>	
morning max el	4997 Jun 09 04:46	5° <b>8</b> 00'57	46°17'34		5000 Jan 14 01:41	0° <b>ℋ</b>	
	4997 Jul 03 05:16	$\Pi$ $\circ 0$			5000 Feb 07 23:13	$0$ ° $\mathbf{\Upsilon}$	
	4997 Jul 30 00:53	0ಂ <b>ತಾ</b>		asc. node	5000 Mar 05 08:39	29° <b>Ƴ</b> 37'58	
	4997 Aug 24 21:04	$\mathfrak{O}^{\circ} \mathfrak{O}$			5000 Mar 05 16:24	$_{0\circ}$ 8	
asc. node	4997 Sep 17 13:41	28° <b>Ω</b> 08'43		evening max el	5000 Apr 01 11:02	28° <b>8</b> 54'19	46°46'05
	4997 Sep 19 02:48	o° mp			5000 Apr 02 13:14	$\Pi^{\circ}$	
	4997 Oct 13 21:27	0∘ <u>v</u>		greatest brilliancy	5000 May 11 02:04	29° <b>Ⅲ</b> 20′14	-4.8m
	4997 Nov 07 07:32	0°M		8	5000 May 12 23:12	0°ಅ	
	4997 Dec 01 11:42	0° <b>⊼</b> ¹		retrograde	5000 May 12 25:12 5000 May 21 18:33	1°528'28	
. ,				retrograde	•	1 <b>3</b> 28 28 30°R <b>Ⅱ</b>	
morning set	4997 Dec 04 05:06	3° <b>₹</b> 23'49			5000 May 30 06:30		
	4997 Dec 25 12:09	0°る		evening set	5000 Jun 06 06:40	26° <b>Ⅱ</b> 45'35	
desc. node	4998 Jan 07 04:35	15° <b>⋜</b> 53'45		inferior conj	5000 Jun 11 23:42	23° <b>I</b> I18'52	3°07'03
max. Earth dist.	4998 Jan 10 11:52	20° <b>る</b> 02'23	1.71391 AU	minimum elong	5000 Jun 12 06:20	23° <b>Ⅱ</b> 08'31	3°05'07
				min. Earth dist.	5000 Jun 11 19:51	23° <b>Ⅱ</b> 24'53	0.28185 AU
superior conj	4998 Jan 12 17:38	22° <b>る</b> 51'02	-0°13'22	morning rise	5000 Jun 18 06:23	19° <b>Ⅲ</b> 33'47	
minimum elong	4998 Jan 12 14:13	22° <b>る</b> 40'20	0°13'10	desc. node	5000 Jun 24 23:33	16° <b>Ⅱ</b> 34'56	
behind sun begin	4998 Jan 11 22:58	21° <b>る</b> 52'28		direct	5000 Jul 03 02:57	15° <b>Ⅱ</b> 15′04	
behind sun end	4998 Jan 13 05:29	23° <b>る</b> 28'11		greatest brilliancy	5000 Jul 13 01:56	17° <b>Ⅱ</b> 03'02	-4 7m
ociniia sun cha	4998 Jan 18 10:21	0°≈		greatest similarey	5000 Aug 03 18:21	0°95	1.7111
	4998 Feb 11 07:18	0° <b>₩</b>		marning may al	•	15° <b>5</b> 05'05	45942120
				morning max el	5000 Aug 20 22:15		43 43 39
evening rise	4998 Feb 22 12:05	14° <b>)</b> €04'35			5000 Sep 04 20:33	0° <b>Ω</b>	
	4998 Mar 07 04:20	0° <b>Υ</b>			5000 Oct 02 10:11	0° <b>m</b> )	
	4998 Mar 31 03:32	$8^{\circ 0}$		asc. node	5000 Oct 16 01:37	15° Mp 37′06	
	4998 Apr 24 07:29	$\Pi$ $^{\circ}0$			5000 Oct 28 08:28	0∘ <b>⊽</b>	
asc. node	4998 Apr 30 06:29	7° <b>Ⅱ</b> 20′33			5000 Nov 22 08:57	0° <b>M</b>	
	4998 May 18 19:06	$0$ $\circ$ $\odot$			5000 Dec 16 20:16	0° <b>∡</b> ¹	
	4998 Jun 12 18:01	$0^{\circ}\Omega$			5001 Jan 09 23:55	0°రె	
	4998 Jul 08 10:50	0° m/			5001 Feb 02 23:21	0° <b>≈</b>	
	4998 Aug 04 13:19	0∘ <u>⊽</u>		desc. node	5001 Feb 04 16:27	2°≈08'52	
desc. node	4998 Aug 19 21:22	0 <b>—</b> 15° <b>Ω</b> 42'09		morning set	5001 Feb 18 01:24	18°≈56'15	
	4998 Aug 23 14:07	19° <b>⊆</b> 17'01	45°34'26	morning set	5001 Feb 26 20:38	0° <b>₩</b>	
evening max el	•		43 34 20			0° <b>Υ</b>	
1 '11'	4998 Sep 04 09:49	0°M	4.7		5001 Mar 22 17:21	U- Y	
greatest brilliancy	4998 Oct 01 21:15	17°M22'29	-4.7m				
retrograde	4009 Oat 11 05:54						
	4998 Oct 11 05:54	18° <b>M</b> 58'09		superior conj	5001 Mar 31 07:06	10° <b>Ƴ</b> 46′06	
evening set	4998 Oct 28 19:03	18°M.58'09 13°M.13'26		superior conj minimum elong	5001 Mar 31 07:06 5001 Mar 31 05:48	10° <b>Y</b> 46'06 10° <b>Y</b> 42'03	
inferior conj			-7°49'53				
•	4998 Oct 28 19:03	13°M13'26		minimum elong	5001 Mar 31 05:48	10° <b>Y</b> 42′03	1°26'58
inferior conj	4998 Oct 28 19:03 4998 Nov 01 11:55	13°M13'26 10°M57'55		minimum elong	5001 Mar 31 05:48 5001 Apr 03 01:21	10° <b>Υ</b> 42'03 14° <b>Υ</b> 14'03	1°26'58
inferior conj minimum elong	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59	13°M13'26 10°M57'55 10°M45'22	7°48'48	minimum elong	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01	10°Υ42'03 14°Υ14'03 0°႘	1°26'58
inferior conj minimum elong min. Earth dist. morning rise	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31	13°M.13'26 10°M.57'55 10°M.45'22 10°M.24'14 8°M.18'05	7°48'48	minimum elong max. Earth dist.	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37	10°Y42'03 14°Y14'03 0°₩ 0°Ⅲ 1°Ⅲ07'07	1°26'58
inferior conj minimum elong min. Earth dist. morning rise direct	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44	7°48'48 0.28368 AU	minimum elong max. Earth dist.	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16	10°Y42'03 14°Y14'03 0°႘ 0°Ⅲ 1°Ⅲ07'07 23°Ⅲ40'38	1°26'58
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44 5°M06'16	7°48'48	minimum elong max. Earth dist.	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08	10°Y42'03 14°Y14'03 0°В 0°П 1°П07'07 23°П40'38 0°©	1°26'58
inferior conj minimum elong min. Earth dist. morning rise direct	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44 5°M06'16 8°M29'20	7°48'48 0.28368 AU	minimum elong max. Earth dist.	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27	10°Υ42'03 14°Υ14'03 0°႘ 0°Π 1°Π07'07 23°Π40'38 0°Ք 0°Ω	1°26'58
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44 5°M06'16 8°M29'20 0°  ✓	7°48'48 0.28368 AU -4.8m	minimum elong max. Earth dist.	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10	10°Υ42'03 14°Υ14'03 0°႘ 0°Π 1°Π07'07 23°Π40'38 0°໑ 0°Ω 0°Ω	1°26'58
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01 4999 Jan 12 03:25	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44 5°M06'16 8°M29'20 0° 🗷 5° 🗷 22'21	7°48'48 0.28368 AU	minimum elong max. Earth dist.	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10 5001 Aug 16 01:42	10°Y42'03 14°Y14'03 0°႘ 0°Ⅲ 1°Ⅲ07'07 23°Ⅲ40'38 0°ಽ 0°ᠺ 0°♍ 0°♠	1°26'58
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01 4999 Jan 12 03:25 4999 Feb 04 02:00	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44 5°M06'16 8°M29'20 0°ズ 5°ズ22'21	7°48'48 0.28368 AU -4.8m	minimum elong max. Earth dist.  evening rise asc. node	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10 5001 Aug 16 01:42 5001 Sep 10 16:59	10°Y42'03 14°Y14'03 0°႘ 0°Ⅲ 1°Ⅲ07'07 23°Ⅲ40'38 0°ಽ 0°Ո 0°Ո 0°Ո	1°26'58
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01 4999 Jan 12 03:25 4999 Feb 04 02:00 4999 Mar 01 23:42	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44 5°M06'16 8°M29'20 0°  √ 5° √22'21 0°  0°  0°  0°  0°  0°  0°  0°  0°  0°	7°48'48 0.28368 AU -4.8m	minimum elong max. Earth dist.	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10 5001 Aug 16 01:42 5001 Sep 10 16:59 5001 Sep 17 09:13	10°Υ42'03 14°Υ14'03 0°႘ 0°Π 1°Π07'07 23°Π40'38 0°© 0°Ω 0°™ 0°Ω 0°™ 7°™39'18	1°26'58
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01 4999 Jan 12 03:25 4999 Feb 04 02:00 4999 Mar 01 23:42 4999 Mar 26 23:26	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44 5°M06'16 8°M29'20 0°⊀ 5°⊀22'21 0°℧ 0°❤ 0°❤ 0°❤	7°48'48 0.28368 AU -4.8m	minimum elong max. Earth dist.  evening rise asc. node	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10 5001 Aug 16 01:42 5001 Sep 10 16:59 5001 Sep 17 09:13 5001 Oct 07 07:55	10°Y42'03 14°Y14'03 0°℧ 0°Ⅲ 1°Ⅲ07'07 23°Ⅲ40'38 0°亞 0°矶 0°叭 0°亞 0°ጤ 7°ጤ39'18	1°26'58 1.71405 AU
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01 4999 Jan 12 03:25 4999 Feb 04 02:00 4999 Mar 01 23:42 4999 Mar 26 23:26 4999 Apr 01 14:16	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44 5°M06'16 8°M29'20 0°  ✓ 5°  ✓ 22'21 0°  © 0°  0°  6°  √ 49'27	7°48'48 0.28368 AU -4.8m	minimum elong max. Earth dist.  evening rise asc. node	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10 5001 Aug 16 01:42 5001 Sep 10 16:59 5001 Sep 17 09:13 5001 Oct 07 07:55 5001 Nov 05 01:28	10°Y42'03 14°Y14'03 0°℧ 0°Ⅲ 1°Ⅲ07'07 23°Ⅲ40'38 0°亞 0°№ 0°™ 0°™ 0°™ 7°™39'18 0°ズ 29°ズ57'02	1°26'58
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01 4999 Jan 12 03:25 4999 Feb 04 02:00 4999 Mar 01 23:42 4999 Mar 26 23:26	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44 5°M06'16 8°M29'20 0°  ✓ 5° ✓ 22'21 0°  © 0°  0°  0°  € 6°  ★49'27 0°  ✓	7°48'48 0.28368 AU -4.8m	minimum elong max. Earth dist.  evening rise asc. node	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10 5001 Aug 16 01:42 5001 Sep 10 16:59 5001 Sep 17 09:13 5001 Oct 07 07:55	10°Y42'03 14°Y14'03 0°႘ 0°Ⅲ 1°Ⅲ07'07 23°Ⅲ40'38 0°९ 0°№ 0°№ 0°№ 0°№ 20°№ 29°№ 29°№ 257'02	1°26'58 1.71405 AU
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01 4999 Jan 12 03:25 4999 Feb 04 02:00 4999 Mar 01 23:42 4999 Mar 26 23:26 4999 Apr 01 14:16	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44 5°M06'16 8°M29'20 0°  ✓ 5°  ✓ 22'21 0°  © 0°  0°  6°  √ 49'27	7°48'48 0.28368 AU -4.8m	minimum elong max. Earth dist.  evening rise asc. node	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10 5001 Aug 16 01:42 5001 Sep 10 16:59 5001 Sep 17 09:13 5001 Oct 07 07:55 5001 Nov 05 01:28	10°Y42'03 14°Y14'03 0°℧ 0°Ⅲ 1°Ⅲ07'07 23°Ⅲ40'38 0°亞 0°№ 0°™ 0°™ 0°™ 7°™39'18 0°ズ 29°ズ57'02	1°26'58 1.71405 AU
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01 4999 Jan 12 03:25 4999 Feb 04 02:00 4999 Mar 01 23:42 4999 Mar 26 23:26 4999 Apr 01 14:16 4999 Apr 20 13:31	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44 5°M06'16 8°M29'20 0°  ✓ 5° ✓ 22'21 0°  © 0°  0°  0°  € 6°  ★49'27 0°  ✓	7°48'48 0.28368 AU -4.8m	minimum elong max. Earth dist.  evening rise asc. node  desc. node  evening max el	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10 5001 Aug 16 01:42 5001 Sep 10 16:59 5001 Sep 17 09:13 5001 Oct 07 07:55 5001 Nov 05 01:28 5001 Nov 05 02:41	10°Y42'03 14°Y14'03 0°႘ 0°Ⅲ 1°Ⅲ07'07 23°Ⅲ40'38 0°९ 0°№ 0°№ 0°№ 0°№ 20°№ 29°№ 29°№ 257'02	1°26'58 1.71405 AU 46°19'24
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01 4999 Jan 12 03:25 4999 Feb 04 02:00 4999 Mar 01 23:42 4999 Mar 26 23:26 4999 Apr 01 14:16 4999 Apr 20 13:31 4999 May 14 23:43	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44 5°M06'16 8°M29'20 0°ズ 5°ズ22'21 0°云 0°※ 0°米 6°升49'27 0°Y	7°48'48 0.28368 AU -4.8m	minimum elong max. Earth dist.  evening rise asc. node  desc. node  evening max el	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10 5001 Aug 16 01:42 5001 Sep 10 16:59 5001 Oct 07 07:55 5001 Nov 05 01:28 5001 Dec 14 23:36	10°Y42'03 14°Y14'03 0°႘ 0°Ⅲ 1°Ⅲ07'07 23°Ⅲ40'38 0°९ 0°№ 0°№ 0°№ 0°№ 29°№ 29°₰57'02 0°८ 29°♂522'18	1°26'58 1.71405 AU 46°19'24
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01 4999 Jan 12 03:25 4999 Feb 04 02:00 4999 Mar 01 23:42 4999 Mar 26 23:26 4999 Apr 01 14:16 4999 Apr 20 13:31 4999 May 14 23:43 4999 Jun 08 09:06	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44 5°M06'16 8°M29'20 0°ズ 5°ズ22'21 0°云 0°※ 0°米 6°升49'27 0°Y 0°႘	7°48'48 0.28368 AU -4.8m	minimum elong max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10 5001 Aug 16 01:42 5001 Sep 10 16:59 5001 Sep 17 09:13 5001 Oct 07 07:55 5001 Nov 05 01:28 5001 Dec 14 23:36 5001 Dec 16 23:36	10° Y 42'03 14° Y 14'03 0° ႘ 0° Ⅲ 1° Ⅲ 07'07 23° Ⅲ 40'38 0° ኗ 0° Ͷ 0° Ϳ 0° Ϳ 0° Ϳ 29° Ϳ 57'02 0° ຽ 29° Ϳ 22'18 0° ※	1°26'58 1.71405 AU 46°19'24
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01 4999 Jan 12 03:25 4999 Feb 04 02:00 4999 Mar 01 23:42 4999 Mar 26 23:26 4999 Apr 01 14:16 4999 Apr 20 13:31 4999 May 14 23:43 4999 Jun 08 09:06 4999 Jul 02 18:58 4999 Jul 17 01:37	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44 5°M06'16 8°M29'20 0°  ✓ 5° ✓ 22'21 0°  © 0°  0°  0°  0°  17°  © 32'10	7°48'48 0.28368 AU -4.8m	minimum elong max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10 5001 Aug 16 01:42 5001 Sep 10 16:59 5001 Sep 17 09:13 5001 Oct 07 07:55 5001 Nov 05 01:28 5001 Dec 14 23:36 5001 Dec 24 16:47 5002 Jan 01 03:11	10° Y 42'03 14° Y 14'03 0° ♥ 0° Ⅲ 1° Ⅲ 07'07 23° Ⅲ 40'38 0° ♥ 0° № 0° № 0° № 7° № 39'18 0° ₹ 29° ₹ 57'02 0° ₹ 29° ₹ 22'18 0° ≈ 1° ≈ 07'31 30° ₨	1°26'58 1.71405 AU 46°19'24
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01 4999 Jan 12 03:25 4999 Feb 04 02:00 4999 Mar 01 23:42 4999 Mar 26 23:26 4999 Apr 01 14:16 4999 Apr 20 13:31 4999 May 14 23:43 4999 Jun 08 09:06 4999 Jul 02 18:58 4999 Jul 17 01:37 4999 Jul 23 15:52	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44 5°M06'16 8°M29'20 0°  ✓ 5° ✓ 22'21 0° ✓ 0°  0°  0°  0°  17°  932'10 25°  938'15	7°48'48 0.28368 AU -4.8m	minimum elong max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde evening set	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10 5001 Aug 16 01:42 5001 Sep 10 16:59 5001 Sep 17 09:13 5001 Oct 07 07:55 5001 Nov 05 01:28 5001 Dec 14 23:36 5001 Dec 14 23:36 5001 Dec 24 16:47 5002 Jan 01 03:11 5002 Jan 07 23:40	10°Y42'03 14°Y14'03 0°႘ 0°Ⅲ 1°Ⅲ07'07 23°Ⅲ40'38 0°९ 0°№ 0°№ 0°№ 7°№ 29°№ 29°⊀57'02 0°% 1°≈07'31 30°₨ 27°♂05'27	1°26'58 1.71405 AU 46°19'24
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01 4999 Jan 12 03:25 4999 Feb 04 02:00 4999 Mar 01 23:42 4999 Mar 26 23:26 4999 Apr 01 14:16 4999 Apr 20 13:31 4999 May 14 23:43 4999 Jun 08 09:06 4999 Jul 02 18:58 4999 Jul 17 01:37 4999 Jul 23 15:52 4999 Jul 27 05:06	13°M.13'26 10°M.57'55 10°M.45'22 10°M.24'14 8°M.18'05 2°M.46'44 5°M.06'16 8°M.29'20 0° √ 5° √ 22'21 0° √ 0° € 0° √ 0° √ 0° 17° © 32'10 25° © 38'15 0° €	7°48'48 0.28368 AU -4.8m	minimum elong max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde evening set asc. node	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10 5001 Aug 16 01:42 5001 Sep 10 16:59 5001 Sep 17 09:13 5001 Oct 07 07:55 5001 Nov 05 01:28 5001 Dec 14 23:36 5001 Dec 14 23:36 5001 Dec 24 16:47 5002 Jan 01 03:11 5002 Jan 07 23:40 5002 Jan 08 10:57	10°Y42'03 14°Y14'03 0°႘ 0°Ⅲ 1°Ⅲ07'07 23°Ⅲ40'38 0°९ 0°№ 0°№ 0°№ 20°№ 29°%25'02 0°% 29°%22'18 0°% 1°%07'31 30°%% 27°♂505'27 26°♂50'20	1°26'58 1.71405 AU 46°19'24 -4.9m
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node  morning set asc. node	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01 4999 Jan 12 03:25 4999 Feb 04 02:00 4999 Mar 01 23:42 4999 Mar 26 23:26 4999 Apr 01 14:16 4999 Apr 20 13:31 4999 May 14 23:43 4999 Jun 08 09:06 4999 Jul 02 18:58 4999 Jul 02 18:58 4999 Jul 23 15:52 4999 Jul 27 05:06 4999 Aug 20 14:41	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44 5°M06'16 8°M29'20 0°  √ 5° √ 22'21 0° √ 0° ← 0° ← 0° ← 0° ← 0° ← 0° ← 0° ←	7°48'48 0.28368 AU -4.8m 46°41'53	minimum elong max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde  evening set asc. node inferior conj	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10 5001 Aug 16 01:42 5001 Sep 10 16:59 5001 Sep 17 09:13 5001 Oct 07 07:55 5001 Nov 05 01:28 5001 Dec 14 23:36 5001 Dec 14 23:36 5001 Dec 24 16:47 5002 Jan 07 23:40 5002 Jan 08 10:57 5002 Jan 14 06:35	10°Y42'03 14°Y14'03 0°B 0°II 1°II07'07 23°II40'38 0°S 0°I 0°IN 7°IN39'18 0°I 29°I>57'02 0°I 29°I>22'18 0°% 1°%07'31 30°RI 27°I 26°I>50'20 23°I>25'39	1°26'58 1.71405 AU 46°19'24 -4.9m
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01 4999 Jan 12 03:25 4999 Feb 04 02:00 4999 Mar 01 23:42 4999 Mar 26 23:26 4999 Apr 01 14:16 4999 Apr 20 13:31 4999 May 14 23:43 4999 Jun 08 09:06 4999 Jul 02 18:58 4999 Jul 17 01:37 4999 Jul 23 15:52 4999 Jul 27 05:06	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44 5°M06'16 8°M29'20 0°  √ 5° √ 22'21 0° √ 0° ← 0° ← 0° ← 0° ← 0° ← 0° ← 0° ←	7°48'48 0.28368 AU -4.8m	minimum elong max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde  evening set asc. node inferior conj minimum elong	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10 5001 Aug 16 01:42 5001 Sep 10 16:59 5001 Sep 17 09:13 5001 Oct 07 07:55 5001 Nov 05 01:28 5001 Dec 14 23:36 5001 Dec 14 23:36 5001 Dec 24 16:47 5002 Jan 01 03:11 5002 Jan 07 23:40 5002 Jan 14 06:35 5002 Jan 14 06:35 5002 Jan 14 03:08	10°Y42'03 14°Y14'03 0°႘ 0°Ⅲ 1°Ⅲ07'07 23°Ⅲ40'38 0°९ 0°№ 0°№ 0°№ 20°№ 29°№ 29°₹57'02 0°♂ 29°₹22'18 0°≈ 1°≈07'31 30°₨ 27°♂05'27 26°♂50'20 23°♂25'339 23°♂30'54	1°26'58 1.71405 AU 46°19'24 -4.9m 1°30'09 1°29'03
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node  morning set asc. node  max. Earth dist.	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01 4999 Jan 12 03:25 4999 Feb 04 02:00 4999 Mar 01 23:42 4999 Mar 01 23:42 4999 Mar 26 23:26 4999 Apr 01 14:16 4999 Apr 20 13:31 4999 May 14 23:43 4999 Jul 02 18:58 4999 Jul 02 18:58 4999 Jul 23 15:52 4999 Jul 27 05:06 4999 Aug 20 14:41 4999 Aug 21 23:30	13°M13'26 10°M57'55 10°M45'22 10°M24'14 8°M18'05 2°M46'44 5°M06'16 8°M29'20 0°ズ 5°ズ22'21 0°ろ 0°※ 0°升 6°升49'27 0°Y 0°野 17°野32'10 25°野38'15 0°ん 0°M 1°M40'58	7°48'48 0.28368 AU -4.8m 46°41'53	minimum elong max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde  evening set asc. node inferior conj minimum elong min. Earth dist.	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10 5001 Aug 16 01:42 5001 Sep 10 16:59 5001 Sep 17 09:13 5001 Oct 07 07:55 5001 Nov 05 01:28 5001 Dec 14 23:36 5001 Dec 14 23:36 5001 Dec 24 16:47 5002 Jan 01 03:11 5002 Jan 07 23:40 5002 Jan 08 10:57 5002 Jan 14 06:35 5002 Jan 14 09:09	10°Y42'03 14°Y14'03 0°B 0°II 1°II07'07 23°II40'38 0°© 0°I 0°I 0°I 7°II.39'18 0° ズ 29°ズ57'02 0°중 29°중22'18 0°≈ 1°≈07'31 30°R중 27°중05'27 26°중50'20 23°중25'39 23°중30'54 23°중21'44	1°26'58 1.71405 AU 46°19'24 -4.9m
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inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node  morning set asc. node  max. Earth dist.	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01 4999 Jan 12 03:25 4999 Feb 04 02:00 4999 Mar 01 23:42 4999 Mar 26 23:26 4999 Apr 01 14:16 4999 Apr 20 13:31 4999 Apr 20 13:31 4999 Jul 02 18:58 4999 Jul 02 18:58 4999 Jul 02 18:58 4999 Jul 23 15:52 4999 Jul 27 05:06 4999 Aug 20 14:41 4999 Aug 21 23:30	13°M.13'26 10°M.57'55 10°M.45'22 10°M.24'14 8°M.18'05 2°M.46'44 5°M.06'16 8°M.29'20 0°  √ 5° √ 722'21 0° √ 0° √ 0° √ 0° √ 0° √ 0° 17° 0° 17° 0° 17° 0° 10° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1°	7°48'48 0.28368 AU -4.8m 46°41'53	minimum elong max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde  evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10 5001 Aug 16 01:42 5001 Sep 10 16:59 5001 Sep 17 09:13 5001 Oct 07 07:55 5001 Nov 05 01:28 5001 Nov 05 02:41 5001 Dec 14 23:36 5001 Dec 14 23:36 5001 Dec 14 23:36 5001 Dec 24 16:47 5002 Jan 01 03:11 5002 Jan 07 23:40 5002 Jan 08 10:57 5002 Jan 14 06:35 5002 Jan 14 09:09 5002 Jan 20 06:24 5002 Feb 03 21:16	10°Y42'03 14°Y14'03 0°႘ 0°Ⅲ 1°Ⅲ07'07 23°Ⅲ40'38 0°९ 0°№ 0°№ 0°№ 0°№ 20°№ 29°%25'18 0°% 1°%07'31 30°% 29°%22'18 0°% 1°%07'31 30°% 27°%05'27 26°%50'20 23°%25'39 23°%30'54 23°%21'44 19°%55'19 15°%41'25	1°26'58 1.71405 AU 46°19'24 -4.9m 1°30'09 1°29'03 0.26727 AU
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node  morning set asc. node  max. Earth dist.  superior conj minimum elong	4998 Oct 28 19:03 4998 Nov 01 11:55 4998 Nov 01 19:59 4998 Nov 02 09:36 4998 Nov 05 20:31 4998 Nov 22 19:09 4998 Dec 04 01:07 4998 Dec 10 23:05 4999 Jan 06 17:01 4999 Jan 12 03:25 4999 Feb 04 02:00 4999 Mar 01 23:42 4999 Mar 26 23:26 4999 Apr 01 14:16 4999 Apr 20 13:31 4999 Apr 20 13:31 4999 Mar 17 01:37 4999 Jul 02 18:58 4999 Jul 02 18:58 4999 Jul 23 15:52 4999 Jul 27 05:06 4999 Aug 20 14:41 4999 Aug 21 23:30 4999 Aug 22 22:17 4999 Aug 22 13:18 4999 Sep 13 23:19	13°M.13'26 10°M.57'55 10°M.45'22 10°M.24'14 8°M.18'05 2°M.46'44 5°M.06'16 8°M.29'20 0°  √ 5° √ 722'21 0° √ 0° √ 0° √ 0° √ 0° 17° 0° 32'10 25° 38'15 0° 0° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1°	7°48'48 0.28368 AU -4.8m 46°41'53 1.73461 AU 1°04'09	minimum elong max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde  evening set asc. node inferior conj minimum elong min. Earth dist. morning rise	5001 Mar 31 05:48 5001 Apr 03 01:21 5001 Apr 15 15:14 5001 May 09 16:01 5001 May 10 13:37 5001 May 28 18:16 5001 Jun 02 21:08 5001 Jun 27 07:27 5001 Jul 22 00:10 5001 Sep 10 16:59 5001 Sep 10 16:59 5001 Sep 17 09:13 5001 Oct 07 07:55 5001 Nov 05 01:28 5001 Nov 05 02:41 5001 Dec 14 23:36 5001 Dec 14 23:36 5001 Dec 14 23:36 5001 Dec 24 16:47 5002 Jan 01 03:11 5002 Jan 07 23:40 5002 Jan 08 10:57 5002 Jan 14 06:35 5002 Jan 14 09:09 5002 Jan 20 06:24	10°Y42'03 14°Y14'03 0°႘ 0°Ⅱ 1°Ⅲ07'07 23°Ⅲ40'38 0°९ 0°№ 0°№ 0°№ 0°№ 20°№ 29°№ 29°♂57'02 0°♂ 29°♂522'18 0°≈ 1°≈07'31 30°₨ 27°♂505'27 26°♂50'20 23°♂525'39 23°♂30'54 23°♂21'44 19°♂55'19 15°♂41'25 17°♂40'59	1°26'58 1.71405 AU 46°19'24 -4.9m 1°30'09 1°29'03
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document         SOUZAMON 10 0012         ZMESTAMON 10 0012         CONTAMON 10 12 0012		5002 Apr 06 06:41	0° <b>∀</b>			5004 Oct 18 08:34	0° <b>∡</b> ¹	
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supprint conqi         500 Col. 3 of 1.427         smill. 2013         1°T 1756         greatest brillianty         500 S Nor. 7 0.525         0°F         1°T 1756         greatest brillianty         5005 Apr. 19 00.52         1°P 00°C2         1°T 04°T         4°T 1756         2°T 00°T         4°T 1756         5005 Apr. 29 0.637         2°P 10°T 4         4°T 1756         6°T 00°T 00°T 00°T 00°T 00°T 00°T 00°T 0	max. Earth dist.	5002 Oct 28 05:44	5°11610'29	1./2683 AU				0.27224 AU
minimum clong   500 Cb cl 1 04-39   87   5072   1°1756   greatest brilliancy   500 Sapr 2 8 06-37   2°9'/4174   4.9m		5000 0 . 20 21 25	0000 00104	1010104	=	•		
cevening into   5002 Nov 17 0525   0°24"   25°25'95'95'   5005 Into   5005						-		4.0
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Second					desc. node			
5002 Dec. 1 0751   0°8   5003 Jun 04 0920   0°8   5005 Jun 03 01431   0°8   5005 Jun 03 01631   0°8   0°8   5005 Jun 03 01631   0°8	•							
South   Sou	desc. node				morning max el		_	46°19'18
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Section   Sec		5003 Feb 21 13:03	$0$ ° $\mathbf{\Upsilon}$		asc. node	-	27° <b>Ω</b> 40'19	
Sool 3 Apr 1   15.00   0.7   1   0.00   0		5003 Mar 17 20:43	$9^{\circ}$ 8			5005 Sep 19 14:14		
\$\cos 0.03 \text{ May } 0.07 \text{ 6.33} \text{ \$\cos 0.02 } 0.02  \$\cos 0.05 \text{ \$\cos 0	asc. node	5003 Apr 02 20:33	19° <b>8</b> 27'02			5005 Oct 14 08:26	0∘ <b>⊽</b>	
evening max el         5003 Jun 12 12:04         8°AS 13V2 45°4955         morning set         5005 Dec 25 22:50         0°B         - Common 10 com		5003 Apr 11 15:20	$\Pi$ $^{\circ}0$			5005 Nov 07 18:18	0° <b>M</b>	
Properties   Soo3 Jun   12   12-04   8°Q51'32   4°49'55   desc. node   Soo5 Jun   07 06'42   15°E36'48   February   Soo3 Jul   20 14'10   7°B1'35'5   47m   max. Earth dist.   Soo5 Jun   20 14'10   7°B1'35'5   47m   max. Earth dist.   Soo5 Jun   31 13'37   8°B1'150   superior conj   Soo6 Jun   10 05'3   20°E32'99   0°09'25'   3°B1'130'   31 13'37   9°B2'40'   Soo5 Jun   31 13'37   9°B2'40'   Soo5 Jun   31 13'35   1°B2'05'   Soo5 Jun   3006 Jun   11 05'3   20°E32'09   0°09'25'   3°B1'130'   3°B2'   3°B2'   3°B1'130'   3°B2'		5003 May 07 06:33	$0$ $\circ$ $\odot$			5005 Dec 01 22:23	0° <b>∡</b> ¹	
Generate brilliance   5003 Jul   21 07 07.27   0°Pm   4.7mm   3.7mm   4.7mm		5003 Jun 03 16:51	$0^{\circ}\Omega$		morning set	5005 Dec 02 20:03	1° <b>∡</b> ¹07'30	
greatest brilliancy   5003 Jul   20 14:10   7°m 13'55   4.7m   max, Earth dist.   5006 Jan   08 22:58   17°G33'05   17.1429 AU dest. node   5003 Jul   23 11:33   9°m 24'00   5006 Jan   11 05:31   20°G24'09   -0°09'33   5006 Jan   11 05:31   20°G24'09   -0°09'33   5006 Jan   11 05:31   20°G24'09   -0°09'35   5006 Jan   11 05:31   20°G26'109   -0°09'35   5006 Jan   12 00:12   21°G26'109   -0°09'35   5006 Jan   11 05:31   20°G26'109   -0°09'35	evening max el	5003 Jun 12 12:04	8° <b>Ω</b> 51'32	45°49'55		5005 Dec 25 22:50	8°0	
Seconde   So03 Jul 23 11:39   S*\tautile		5003 Jul 07 07:27	0° <b>m</b>		desc. node	5006 Jan 07 06:42	15° <b>る</b> 26'48	
retrograde	greatest brilliancy	5003 Jul 20 14:10	7° <b>m</b> 13'55	-4.7m	max. Earth dist.	5006 Jan 08 22:58	17°る33'05	1.71429 AU
Counting set   5003 Aug 16 15.28   4°\$\times 2636   10 2.29071 AU   10 2.000   10 3.00   10 3	desc. node	5003 Jul 23 11:39	8° Mp 11'50					
min. Earth dist.   5003 Aug 2   17:35   1°m 20'51   0.29071 AU   behind sun begin   5006 Jan   10   05:57   19°G10'12   11°G2'246   11°m 20'14   10°m 20'14   11°m 20'14	retrograde	5003 Jul 31 13:37	9° m 24'00		superior conj	5006 Jan 11 05:31	20° <b>る</b> 24'09	-0°09'33
min. Earth dist.   5003 Aug 21 17.35   1° m20′51   0.29071 AU   behind sun begin   5006 Jan 10 05:57   19° G10′12   1° T62′246   10° T63′9   behind sun end   5006 Jan 10 05:57   19° G10′12   1° T62′246   10° T63′9   10	evening set	5003 Aug 16 15:28	4° m 26'36		minimum elong	5006 Jan 11 03:04	20° <b>る</b> 16'29	0°09'25
minferior conj   5003 Aug 22 0.20.5   1° mo 7°31 - 6° 16′39   behind sun end   5006 Jan 12 00′12   21° \(\bar{\cap2}\) 22′26′6   1° minmum elong   5003 Aug 21 16′15   1° mo 22′58 (*14′41   5006 Jan 12 00′12   0° \(\bar{\cap4}\) 2 (*16′14   1° \(\bar{\cap4}\) 2 (*16′14   1° \(\bar{\cap4}\) 2 (*16′14   1° \(\bar{\cap4}\) 30° \(\bar{\cap4}\)   1° minmum elong   5003 Aug 22 11′13   30° \(\bar{\cap4}\) 2 (*17′13   28° \(\alpha\) 17′3   evening rise   5006 Feb 11 18′06   0° \(\bar{\cap4}\) 1 (*133′4   1° \(\bar{\cap4}\) 30° \(\bar{\cap4}\) 30	•	-	-•	0.29071 AU	_	5006 Jan 10 05:57	19° <b>る</b> 10'12	
minimum elong   5003 Aug 21 16:15   1° № 22'58 6°14'41   5006 Feb 11 18:06 0° €   6° € €   6° € €   6° € €   6° € €   6° € €   6° € €   6° € € 6° € €   6° € €   6° € € 6° € €   6° € € 6° € € 6° € € 6° € € 6° € € 6° € € 6° € € 6° € € 6° € € 6° € € 6° € € 6° € € 6° € € 6° € € 6° € € 6° € 6° € € 6° € 6	inferior conj				_		21° <b>る</b> 22'46	
Morning rise   5003 Aug 23 21:13   30°RΩ   cevening rise   5006 Feb 11 18:06   0°H   11		•				5006 Jan 18 21:04	0° <b>≈</b>	
morning rise   5003 Aug 26 17:13   28°Ω17'03   5006 Feb 20 22:55   11°\( \) 33'44   10'\( \) 30'3   10'\( \) 33'44   10'\( \) 30'3   10'\(\		•	•					
direct         5003 Sep 12 1 6:58         22°Ω51'12         S006 Mar 07 15:16         0°°°         '           greatest brilliancy         5003 Sep 22 20:37         24°Ω42'57         -4.7m         5006 Mar 31 14:35         0°°B         -           morning max el         5003 Oct 31 18:02         23°№0'01         45°55'55         asc. node         5006 May 19 06:43         0°°E         -           asc. node         5003 Nov 07 15:15         0°°B         -         5006 May 19 06:43         0°°E         -           asc. node         5003 Nov 13 13:21         6°B07'29         -         5006 Jun 13 06:22         0°Q         -           5003 Dec 05 06:59         0°R         -         5006 Aug 05 06:32         0°B         -         -           5004 Jan 24 17:24         0°B         desc. node         5006 Aug 05 06:32         0°B         -	morning rise	-			evening rise			
Separatest brilliancy   So03 Sep 22 20:37   24°Ω42'57 4.7m   So06 Mar 31 14:35   0°B	•	•						
Morning max el   5003 Oct 3 1 14:03   0° \( \bar{\mathbb{N}} \)   45°55'55   asc. node   5006 Apr 30 08:23   6° \( \bar{\mathbb{L}} \) 13' 13' 14'   18' 14' 14' 14' 14' 14' 14' 14' 14' 15' 15' 15' 15' 15' 15' 15' 15' 15' 15		•		-4.7m				
Morning max el   5003 Nov 07   15:15   0° Φ   5006 May 19   06:43   0° Φ   5006 May 19   06:22   0° Φ   5006 May 19   06:32   0° Φ   06:32   0° Φ   06:32   06:32   06:32   06:32   06:32	greatest ormane)	•		,				
asc. node	morning max el			45°55'55	asc node	•		
Sond Nov   3   3:21   6° \( \omega 0.072 \)	morning max or		•	15 55 55	use. Houe			
S003 Dec 05 06:59   O°M   S006 Aug 05 06:32   O°M   S006 Aug 05 06	asc node					•		
So03 Dec 30 22:51   0° x   So06 Aug 05 06:32   0° Ω     So04 Jan 24 17:24   0° □ So06 Aug 05 06:32   0° Ω     So04 Feb 18 01:24   0° ∞   evening max el evening max el   5006 Aug 19 23:27   14° Ω 55′33     So04 Mar 04 04:26   18° ∞ 48′03   So06 Sep 05 16:08   0° Ⅲ     So04 Mar 13 04:08   0° ℍ   evening max el   5006 Sep 05 16:08   0° Ⅲ     So04 Apr 06 04:43   0° Ψ   retrograde   5006 Oct 09 21:02   16° Ⅲ 45′38     So04 May 05 04:08   6° ⊌ 0° Ψ   evening set   5006 Oct 27 12:23   10° Ⅲ 56′32     Morning set   5004 May 05 04:08   6° ⊌ 0° Ш   minimum elong   5006 Oct 31 10:30   8° Ⅲ 44′14   7° 58′12     Superior conj   5004 Jun 12 19:31   24° Ⅲ 09′11   -0° 29′22   morning rise   5006 Nov 01 00:04   8° Ⅲ 11′41   0.28429 AU     Superior conj   5004 Jun 12 19:31   24° Ⅲ 28′53   0° 29′04   direct   5006 Nov 01 00:04   8° Ⅲ 11′41   0.28429 AU     superior conj   5004 Jun 15 20:12   27° Ⅲ 53′57   1.72821 AU   greatest brilliancy   5006 Dec 02 16:44   2° Ⅲ 51′51   -4.8m     superior conj   5004 Jun 17 12:59   0° ©   1.72821 AU   greatest brilliancy   5006 Dec 02 16:44   2° Ⅲ 51′51   -4.8m     superior conj   5004 Jun 12 00:808   10° Ω 22605   morning max el   5007 Jan 10 19:07   3° x 06′16   46° 40′37     evening rise   5004 Jul 20 08:08   10° Ω 22605   morning max el   5007 Jan 10 19:07   3° x 06′16   46° 40′37     evening rise   5004 Aug 05 06:28   0° №   morning max el   5007 Mar 02 13:24   0° №     So04 Aug 05 06:28   0° №   Food 10° M 1	ase. Hode							
So04 Jan 24 17:24   0° S   desc. node   So06 Aug 19 23:27   14° £55′33   17° £03′04   45°33′58     desc. node   So04 Mar 04 04:26   18° ≈48′03   So06 Sep 05 16:08   0° M.     So04 Mar 13 04:08   0° M   So06 Sep 05 16:08   0° M   So06 Sep 05 16:08   0° M   So06 Aug 22 04:23   15° M.08′26   4.7m     So04 Mar 13 04:08   0° M   So06 Sep 05 16:08   0° M   So06 Sep 05 16:08   0° M   So06 Aug 22 04:23   15° M.08′26   4.7m     So04 Mar 13 04:08   0° M   So06 Sep 05 16:08   0° M   So06 Sep 05 16:08   0° M   So06 Aug 22 04:23   15° M.08′26   4.7m     So04 Mar 13 04:08   0° M   So06 Sep 05 16:08   0° M   So06 Sep 05 16:04   0° M   So06 Sep 0							•	
Sould Feb 18 01:24   O°≈   evening max el   Sould Aug 22 04:23   17° Ω03'04   45° 33'58     Sould Mar 04 04:26   18°≈48'03   Feb 18 01:24   O°↑   Feb 18 01:24   O°↑     Sould Mar 13 04:08   O°↑   Feb 18 01:24   O°↑   Feb 18 01:24   O°↑     Sould Apr 06 04:43   O°↑   Feb 18 01:24   O°↑   Feb 18 01:24   O°↑   Feb 18 01:24   O°↑     Sould Apr 30 05:25   O°♥   Feb 18 01:24   O°↑   Feb 18 01:24   O°↑   Feb 18 01:24   O°↑     Morning set   Sould May 05 04:08   6°♥ 09'59   O°¶   Feb 18 01:24   O°↑   O°¶   Feb 18 01:24   O°↑     Superior conj   Sould Jun 12 19:31   24° ∏09'11   O°29'22   morning rise   Sould Nov 04 08:34   O°¶ 03' 02' 02' 03' 03' 03' 03' 03' 03' 03' 03' 03' 03					desc node	=		
desc. node   5004 Mar 04 04:26   18°≈48'03   5006 Sep 05 16:08   0°M     5004 Mar 13 04:08   0°M   retrograde   5006 Cep 05 16:08   10°M     5004 Apr 06 04:43   0°M   retrograde   5006 Oct 09 21:02   16°M     5004 Apr 30 05:25   0°B   evening set   5006 Oct 27 12:23   10°M     5004 May 26 04:08   6°B09'59   inferior conj   5006 Oct 31 03:06   8°M     5004 May 24 07:54   0°M   minimum elong   5006 Oct 31 10:39   8°M     5004 May 24 07:54   0°M   minimum elong   5006 Nov 01 00:04   8°M     5004 May 24 07:54   24°M   10°M     5004 May 24 07:54   24°M   10°M     5004 May 24 07:54   0°M   minimum elong   5006 Nov 01 00:04   8°M     6°M   0°M   0°M   0°M     5004 May 24 07:54   0°M   minimum elong   5006 Nov 01 00:04   8°M     6°M   0°M   0°M   0°M   0°M   0°M     6°M   0°M   0°M   0°M   0°M   0°M     6°M   0°M   0°M   0°M   0°M   0°M     6°M   0°M   0°M   0°M   0°M   0°M   0°M     6°M   0°M   0°M   0°M   0°M   0°M   0°M   0°M     6°M   0°M   0°M   0°M   0°M   0°M   0°M   0°M   0°M   0°M     6°M   0°M						•		45°33'58
Solid Mar 13 04:08   0°	desc node				evening max er	_		45 55 56
Soud Apr 06 04:43   0°Ψ   retrograde   5006 Oct 09 21:02   16°π.45'38   retrograde   5004 Apr 30 05:25   0°B   evening set   5006 Oct 27 12:23   10°π.56'32   ro*504 May 05 04:08   6°B09'59   inferior conj   5006 Oct 31 03:06   8°π.44'14   -7°58'12   ro*504 May 24 07:54   0°π   minimum elong   5006 Oct 31 10:39   8°π.32'30   7°57'17   ro*504 May 24 07:54   0°π   ro*504 May 24 07:54   ro*504 May 24 07:5	desc. flode				greatest brilliansy	-		4.7m
Morning set   S004 Apr 30 05:25   0°8   evening set   S006 Oct 27 12:23   10°πL56'32   10°πL					•			<del>-4</del> ./III
morning set 5004 May 05 04:08 6°809'59 inferior conj 5006 Oct 31 03:06 8°肌44'14 -7°58'12 minimum elong 5006 Oct 31 10:39 8°肌32'30 7°57'17 min. Earth dist. 5006 Nov 01 00:04 8°肌11'41 0.28429 AU superior conj 5004 Jun 12 19:31 24°用09'11 -0°29'22 morning rise 5006 Nov 04 08:34 6°肌09'13 minimum elong 5004 Jun 13 01:54 24°用28'53 0°29'04 direct 5006 Nov 21 10:52 0°肌32'09 max. Earth dist. 5004 Jun 15 20:12 27°用53'57 1.72821 AU greatest brilliancy 5006 Dec 02 16:44 2°肌51'51 -4.8m 5004 Jun 17 12:59 0°⑤ asc. node 5006 Dec 11 01:05 7°肌05'27 asc. node 5004 Jul 12 20:36 0°瓜 morning max el 5007 Jan 07 16:23 0°ズ evening rise 5004 Aug 05 06:28 0°阶 5004 Aug 29 18:54 0°丘 60:01 0°N 60:02 00:02 00:04 00:0		•			•			
Single	morning got	•			•			7050112
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asc. node 5004 Jun 25 06:05 9°€31'45 5004 Jul 11 20:36 0° \$\mathbb{Q}\$ morning max el 5007 Jan 07 16:23 0° \$\overline{\mathscr{Z}}\$ evening rise 5004 Jul 20 08:08 10° \$\mathscr{Q}\$26'05 5007 Feb 04 18:09 0° \$\overline{\mathscr{Z}}\$ 5004 Aug 05 06:28 0° \$\mathscr{W}\$ 5004 Aug 29 18:54 0° \$\mathscr{Q}\$ 5004 Sep 23 11:03 0° \$\mathscr{R}\$ desc. node 5007 Apr 01 16:16 6° \$\mathscr{H}\$18'00	max. Earth dist.			1./2821 AU				<b>-4.0</b> Ⅲ
evening rise 5004 Jul 11 20:36 0° € morning max el 5007 Jan 10 19:07 3° ₹06'16 46° 40'37  evening rise 5004 Jul 20 08:08 10° € 5007 Feb 04 18:09 0° ₹  5004 Aug 05 06:28 0° № 5007 Mar 02 13:24 0° ≈  5004 Aug 29 18:54 0° €  5004 Sep 23 11:03 0° № desc. node 5007 Apr 01 16:16 6° € 18'00	000 m-J-				asc. node			
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desc. node 5004 Oct 14 21:09 25°III.49'49 5007 Apr 21 01:21 0°'Y'					desc. node	•		
	desc. node	5004 Oct 14 21:09	25~IIL49'49			500/ Apr 21 01:21	0.,4,	

	5007 May 15 11:05	8°0		evening set	5010 Jan 05 12:30	24° <b>පි</b> 40'11	
	5007 Jun 08 20:07 5007 Jul 03 05:42	0° <b>Ⅱ</b> 0° <b>©</b>		asc. node	5010 Jan 07 13:07 5010 Jan 11 19:16	23°る33'00 21°る00'14	1°06'04
morning set	5007 Jul	0 95 15°9524'09		inferior conj minimum elong	5010 Jan 11 19:16 5010 Jan 11 16:43	21°る0014 21°る04'07	1°05'16
asc. node	5007 Jul 13 18:34 5007 Jul 23 18:00	25°©12'17		min. Earth dist.	5010 Jan 11 23:08	21°る54'20	0.26749 AU
asc. node	5007 Jul 27 15:39	0°Ω		morning rise	5010 Jan 17 20:42	20 <b>3</b> 3420 17° <b>る</b> 27'23	0.20749 AU
max. Earth dist.	5007 Aug 20 21:29	29° <b>Ω</b> 48'41	1.73465 AU	direct	5010 Feb 01 10:33	17 <b>ර</b> 2725	
max. Earth dist.	5007 Aug 21 01:10	0° m)	1.75 105 110	greatest brilliancy	5010 Feb 11 16:55	15° <b>る</b> 15'52	-4 9m
	5007 Hug 21 01:10	ν,		greatest orimaney	5010 Mar 06 13:26	0°≈	1.7111
superior conj	5007 Aug 21 16:13	0° m/46'20	1°01'59	morning max el	5010 Mar 24 00:09	16° <b>≈</b> 20'26	46°57'41
minimum elong	5007 Aug 21 07:10	0° m) 18'29	1°01'41		5010 Apr 06 01:42	0° <b>∀</b>	
Z .	5007 Sep 14 09:50	0∘ <u>v</u>		desc. node	5010 Apr 29 04:09	25° <b>)</b> 47'54	
evening rise	5007 Sep 26 17:24	15° <b>≏</b> 10'42			5010 May 02 19:51	0° <b>Υ</b>	
Č	5007 Oct 08 18:06	0° <b>M</b> ,			5010 May 28 10:16	0° <b>႘</b>	
	5007 Nov 02 02:47	0° <b>∡</b> ″			5010 Jun 22 13:27	0°II	
desc. node	5007 Nov 12 08:57	12° <b>∡</b> ³36'51			5010 Jul 17 11:22	0ంతె	
	5007 Nov 26 12:31	8°0			5010 Aug 11 05:37	$0^{\circ}\Omega$	
	5007 Dec 20 23:44	0° <b>≈</b>		asc. node	5010 Aug 20 05:49	10° <b>Ω</b> 57'57	
	5008 Jan 14 14:08	0° <b>∀</b>			5010 Sep 04 19:52	0° <b>™</b>	
	5008 Feb 08 12:47	$0^{\circ}$ Y		morning set	5010 Sep 21 23:44	21°M(03'59	
asc. node	5008 Mar 04 10:39	28° <b>Ƴ</b> 58'53			5010 Sep 29 05:50	0∘ <b>ত</b>	
	5008 Mar 05 08:17	0° <b>႘</b>			5010 Oct 23 12:11	$0^{\circ}$ M	
evening max el	5008 Mar 30 02:23	26° <b>8</b> 37'53	46°47'49	max. Earth dist.	5010 Oct 25 20:49	2°M55'29	1.72725 AU
	5008 Apr 02 11:42	$\Pi$ $^{\circ}0$					
greatest brilliancy	5008 May 08 17:36	27° <b>Ⅱ</b> 05'13	-4.8m	superior conj	5010 Oct 28 14:01	6° <b>™</b> 17'34	1°19'22
retrograde	5008 May 19 10:38	29° <b>Ⅱ</b> 13'50		minimum elong	5010 Oct 28 20:38	6° <b>™</b> 38′07	1°19'15
evening set	5008 Jun 04 00:09	24° <b>Ⅱ</b> 27'48			5010 Nov 16 16:09	0° <b>∡</b> ¹	
inferior conj	5008 Jun 09 14:52	21° <b>Ⅲ</b> 04′18	3°27'06	evening rise	5010 Dec 05 16:36	23° <b>∡</b> ³39'43	
minimum elong	5008 Jun 09 22:06	20° <b>Ⅲ</b> 53′01	3°25'02	desc. node	5010 Dec 09 20:54	28° <b>х</b> 52′00	
min. Earth dist.	5008 Jun 09 10:58	21° <b>Ⅱ</b> 10′23	0.28156 AU		5010 Dec 10 18:44	0°ප	
morning rise	5008 Jun 15 20:31	17° <b>Ⅱ</b> 21'04			5011 Jan 03 20:25	0° <b>≈</b>	
desc. node	5008 Jun 24 01:42	13° <b>Ⅱ</b> 54'57			5011 Jan 27 21:48	0° <b>∀</b>	
direct	5008 Jun 30 18:10	13° <b>Ⅱ</b> 01′00			5011 Feb 21 00:42	0° <b>Y</b>	
greatest brilliancy	5008 Jul 10 16:06	14° <b>∏</b> 48'41	-4.7m		5011 Mar 17 08:52	0°8	
	5008 Aug 04 03:18	0°9		asc. node	5011 Apr 01 22:30	18° <b>8</b> 54'52	
morning max el	5008 Aug 18 14:29	12°955'51	45°44'07		5011 Apr 11 04:19	0°II	
	5008 Sep 04 14:17	0° <b>Q</b>			5011 May 06 21:16	0°©	
1	5008 Oct 02 00:10	0° m/ <sub>0</sub>			5011 Jun 03 12:05	0° <b>Ω</b>	45051100
asc. node	5008 Oct 15 03:35	15° <b>m</b> 05'08		evening max el	5011 Jun 10 03:07	6° <b>Ω</b> 37'52	45°51'22
	5008 Oct 27 20:51	ი∘ <b>ო</b> 0∘ <b>ত</b>			5011 Jul 08 06:44	0°M)	4.7
	5008 Nov 21 20:33	0°M 0°. <b>₹</b>		greatest brilliancy	5011 Jul 18 06:40	5° Mp 05'17	-4./M
	5008 Dec 16 07:29 5009 Jan 09 10:56	0° <b>♂</b> 5°0		desc. node	5011 Jul 22 13:40	6° Mp 25'35	
	5009 Feb 02 10:15	0°≈		retrograde evening set	5011 Jul 29 05:29 5011 Aug 14 05:16	7° Mp 15'15 2° Mp 21'41	
desc. node	5009 Feb 02 10:13 5009 Feb 03 18:33	0 ∞ 1°≈41'20		evening set	5011 Aug 14 03:10 5011 Aug 18 03:33	2 11/21 41 30°RΩ	
morning set	5009 Feb 15 11:46	16° <b>≈</b> 24'01		inferior conj	5011 Aug 19 18:30	28°Ω58'53	-6°02'56
morning set	5009 Feb 26 07:27	0° <b>₩</b>		minimum elong	5011 Aug 19 08:40	29° <b>Ω</b> 14'22	
	5009 Mar 22 04:05	0° <b>Υ</b>		min. Earth dist.	5011 Aug 19 09:53	29°Ω12'28	0.29055 AU
		•		morning rise	5011 Aug 24 12:12	26°Ω04'26	
superior conj	5009 Mar 28 18:22	8° <b>Y</b> 17'07	-1°26'40	direct	5011 Sep 10 08:52	20° <b>Ω</b> 42'50	
minimum elong	5009 Mar 28 16:01	8° <b>Y</b> 09'43		greatest brilliancy	5011 Sep 20 12:39	22° <b>Ω</b> 34'09	-4.7m
max. Earth dist.	5009 Mar 31 12:23	11° <b>Y</b> '44'23	1.71371 AU	· ·	5011 Oct 04 13:58	0° <b>m</b>	
	5009 Apr 15 01:55	0°B		morning max el	5011 Oct 29 08:07	20° m 53'26	45°54'44
evening rise	5009 May 08 02:31	28° <b>8</b> 44'39		-	5011 Nov 07 10:36	0∘ <b>⊽</b>	
	5009 May 09 02:44	$\Pi$ $^{\circ}0$		asc. node	5011 Nov 12 15:24	5° <b>Ω</b> 25'28	
asc. node	5009 May 27 20:18	23° <b>Ⅲ</b> 13'33			5011 Dec 04 21:45	$0^{\circ}$ M	
	5009 Jun 02 07:56	$0$ $\circ$ $\odot$			5011 Dec 30 11:54	0° <b>∡</b> ¹	
	5009 Jun 26 18:29	$0^{\circ}\Omega$			5012 Jan 24 05:36	5°0	
	5009 Jul 21 11:34	0° <b>m</b> )			5012 Feb 17 13:06	0° <b>≈</b>	
	5009 Aug 15 13:48	0∘ <b>亚</b>		desc. node	5012 Mar 03 06:19	18° <b>≈</b> 18′05	
	5009 Sep 10 06:25	0° <b>M</b> ₊			5012 Mar 12 15:32	0° <b>)</b> €	
desc. node	5009 Sep 16 11:12	7° <b>M</b> ₊05'14			5012 Apr 05 15:54	$0$ ° $\Upsilon$	
	5009 Oct 07 00:07	0° <b>∡</b> ¹			5012 Apr 29 16:26	0°8	
evening max el	5009 Nov 02 15:55	27° <b>∡</b> ³39′16	46°17'17	morning set	5012 May 02 17:20	3° <b>8</b> 47'18	
	5009 Nov 05 02:29	0° <b>る</b>			5012 May 23 18:46	$\Pi$ °0	
greatest brilliancy	5009 Dec 12 12:53	26°る58'04	-4.8m		5010 Y 10 11 1		0000:0
retrograde	5009 Dec 22 05:11	28° <b>る</b> 41'58		superior conj	5012 Jun 10 10:56	21° <b>∏</b> 55'00	-0~32'36

minimum elong	5012 Jun 10 17:56	22° <b>Ⅱ</b> 16'42	0°32'18	min. Earth dist.	5014 Oct 29 14:07	5°M58'37	0.28491 AU
max. Earth dist.	5012 Jun 13 13:40		1.72771 AU	morning rise	5014 Nov 01 20:39	3°M59'04	0.26491 AU
max. Earth dist.	5012 Jun 16 23:45	0°95	1.72771 AU	morning risc	5014 Nov 09 21:53	30°R <u>₽</u>	
asc. node	5012 Jun 24 08:12	9° <b>5</b> 05'04		direct	5014 Nov 19 02:58	28° <b>£</b> 16'39	
use. Houe	5012 Jul 11 07:21	0°Ω		ancer	5014 Nov 28 17:10	0°ML	
evening rise	5012 Jul 18 01:49	8° <b>Ω</b> 19'44		greatest brilliancy	5014 Nov 30 07:42	0°M35'34	-4.8m
e vennig rise	5012 Aug 04 17:19	0° mp		asc. node	5014 Dec 10 03:13	5°M43'19	
	5012 Aug 29 06:00	0∘ <u>v</u>			5015 Jan 07 15:20	0° <b>∡</b> ¹	
	5012 Sep 22 22:37	0°M		morning max el	5015 Jan 08 11:13	0° <b>∡</b> ¹49'58	46°39'07
desc. node	5012 Oct 13 23:04	25°M19'16		Č	5015 Feb 04 10:33	ರ°0	
	5012 Oct 17 20:49	0°⊀			5015 Mar 02 03:28	0° <b>≈</b>	
	5012 Nov 12 02:49	ರ°0			5015 Mar 27 00:51	0° <b>)</b> €	
	5012 Dec 07 21:32	0° <b>≈</b>		desc. node	5015 Mar 31 18:18	5° <b>)</b> 45′29	
	5013 Jan 03 20:43	0° <b>)</b> €			5015 Apr 20 13:32	$0^{\circ}$ Y	
evening max el	5013 Jan 14 10:33	11° <b>∺</b> 00'37	47°06'28		5015 May 14 22:45	$0^{\circ}S$	
	5013 Feb 03 23:54	$0$ ° $\Upsilon$			5015 Jun 08 07:26	$\Pi$ °0	
asc. node	5013 Feb 04 00:53	0° <b>Y</b> 01'58			5015 Jul 02 16:47	$0$ $\circ$ $\odot$	
greatest brilliancy	5013 Feb 24 04:49	12° <b>Y</b> 28'06	-4.9m	morning set	5015 Jul 13 11:34	13° <b>©</b> 15'03	
retrograde	5013 Mar 06 04:39	14° <b>Y</b> 22'47		asc. node	5015 Jul 22 19:57	24° <b>©</b> 44'34	
evening set	5013 Mar 24 01:58	8° <b>Ƴ</b> 14'13			5015 Jul 27 02:35	$0 {\circ} \Omega$	
inferior conj	5013 Mar 26 22:52	6° <b>Y</b> 28′24	9°00'30				
minimum elong	5013 Mar 26 20:13	6° <b>Ƴ</b> 32'29	9°00'25	superior conj	5015 Aug 19 10:13	28° <b>Ω</b> 40'34	
min. Earth dist.	5013 Mar 26 11:21	6° <b>Y</b> 46'14	0.27191 AU	minimum elong	5015 Aug 19 01:10	28° <b>Ω</b> 12'42	
morning rise	5013 Mar 29 14:34	4°Υ50'31		max. Earth dist.	5015 Aug 18 19:53	27° <b>Ω</b> 56′27	1.73466 AU
	5013 Apr 08 12:24	30° <b>₹</b> ₩			5015 Aug 20 12:02	0° <b>m</b> )	
direct	5013 Apr 16 12:41	28° <b>)</b> (41'17			5015 Sep 13 20:44	0∘ <b>⊽</b>	
	5013 Apr 24 20:42	0° <b>Υ</b>	4.0	evening rise	5015 Sep 24 11:19	13° <b>≙</b> 04'19	
greatest brilliancy	5013 Apr 25 19:49	0°Υ18'28	-4.9m		5015 Oct 08 05:07	0° <b>M</b> ○0. <b>7</b>	
desc. node	5013 May 26 15:55	21°Υ10'42		1 1	5015 Nov 01 14:05	0° <b>⊼</b> ¹	
	5013 Jun 05 00:13	0°8	46021105	desc. node	5015 Nov 11 11:05	12° <b>∡</b> 708′15	
morning max el	5013 Jun 05 06:43	0° <b>В</b> 15'55 0° <b>П</b>	46°21'05		5015 Nov 26 00:12	%š0	
	5013 Jul 03 14:15	0.62			5015 Dec 20 11:59	0° <b>₩</b>	
	5013 Jul 30 04:16 5013 Aug 24 21:39	0°Ω			5016 Jan 14 03:08 5016 Feb 08 03:01	0 <del>Λ</del> 0° <b>Υ</b>	
asc. node	5013 Sep 16 17:39	27° <b>Ω</b> 11'08		asc. node	5016 Mar 03 12:36	28° <b>Υ</b> 17'42	
asc. node	5013 Sep 10 17:59 5013 Sep 19 01:52	0° m)		asc. node	5016 Mar 05 01:00	0°8	
	5013 Oct 13 19:41	0° <del>م</del>		evening max el	5016 Mar 27 18:06	24° <b>8</b> 20'42	46°49'40
	5013 Nov 07 05:23	0° <b>m</b> .		evening max er	5016 Apr 02 11:48	0°Ⅱ	40 49 40
morning set	5013 Nov 30 10:47	28°M49'32		greatest brilliancy	5016 May 06 09:28	24° <b>I</b> I49'10	-4.8m
morning sec	5013 Dec 01 09:24	0° <b>⊼</b>		retrograde	5016 May 17 02:39	26° <b>I</b> 57'25	
	5013 Dec 25 09:51	ි ව°0		evening set	5016 Jun 01 17:44	22° <b>I</b> 108'26	
desc. node	5014 Jan 06 08:46	14° <b>る</b> 58'35		inferior conj	5016 Jun 07 05:56	18° <b>Ⅱ</b> 48'10	3°46'55
max. Earth dist.	5014 Jan 06 11:16	15° <b>る</b> 06'25	1.71463 AU	minimum elong	5016 Jun 07 13:45	18° <b>Ⅱ</b> 35'59	3°44'44
				min. Earth dist.	5016 Jun 07 01:54	18° <b>Ⅱ</b> 54'27	0.28123 AU
superior conj	5014 Jan 08 17:04	17° <b>る</b> 55'07	-0°05'42	morning rise	5016 Jun 13 10:19	15° <b>Ⅱ</b> 06'54	
minimum elong	5014 Jan 08 15:36	17° <b>る</b> 50'33	0°05'37	desc. node	5016 Jun 23 03:45	11° <b>Ⅱ</b> 18'34	
behind sun begin	5014 Jan 07 15:24	16° <b>る</b> 34'39		direct	5016 Jun 28 09:24	10° <b>Ⅱ</b> 45'35	
behind sun end	5014 Jan 09 15:48	19° <b>る</b> 06'27		greatest brilliancy	5016 Jul 08 05:42	12° <b>Ⅱ</b> 32'14	-4.8m
	5014 Jan 18 08:08	0° <b>≈</b>			5016 Aug 04 10:16	$0$ $\circ$ $\odot$	
	5014 Feb 11 05:15	0° <b>)</b> €		morning max el	5016 Aug 16 06:14	10°5544'12	45°44'35
evening rise	5014 Feb 18 09:31	9° <b>∺</b> 01'14			5016 Sep 04 08:03	$0$ $^{\circ}$ $\Omega$	
	5014 Mar 07 02:29	0° <b>Υ</b>			5016 Oct 01 14:23	0° <b>m</b> )	
	5014 Mar 31 01:57	0°8		asc. node	5016 Oct 14 05:37	14° <b>m</b> 32'25	
	5014 Apr 24 06:19	$\Pi$ °0			5016 Oct 27 09:32	0∘ <b>⊽</b>	
asc. node	5014 Apr 29 10:27	6° <b>Ⅱ</b> 22'05			5016 Nov 21 08:28	0° <b>M</b> ₊	
	5014 May 18 18:42	0°©			5016 Dec 15 19:00	0° <b>∡</b> ¹	
	5014 Jun 12 19:06	0° <b>N</b>			5017 Jan 08 22:17	0°る	
	5014 Jul 08 14:54	0° <b>m</b> 0° <b>0</b>		d 1	5017 Feb 01 21:31	0°≈	
daga = -1-	5014 Aug 05 00:30	0° <b>⊽</b>		desc. node	5017 Feb 02 20:28	1°≈12'00	2 0
desc. node	5014 Aug 19 01:25	14° <b>Ω</b> 06'59	45022124	greatest brilliancy	5017 Feb 08 19:56	8°≈42'13	-3.9m
evening max el	5014 Aug 19 19:30 5014 Sep 06 01:27	14° <b>£</b> 50′18 0° <b>I</b> L	43 33 34	morning set	5017 Feb 12 21:52 5017 Feb 25 18:40	13° <b>≈</b> 49'44 0° <b>∀</b>	
greatest brilliancy	5014 Sep 06 01:27 5014 Sep 27 23:24	12°M53'11	-4.7m		5017 Feb 25 18:40 5017 Mar 21 15:16	0° <b>π</b> 0° <b>Υ</b>	
retrograde	5014 Sep 27 23:24 5014 Oct 07 12:20	14°M32'02	<del>-4.</del> /Ⅲ		501/ IVIAI 21 15.10	v i	
evening set	5014 Oct 07 12.20 5014 Oct 25 05:30	8°M38'58		superior conj	5017 Mar 26 05:07	5° <b>Ƴ</b> 45'05	-1°26'13
inferior conj	5014 Oct 28 18:14	6°M29'27	-8°05'41	minimum elong	5017 Mar 26 01:42	5° <b>Υ</b> 34'21	
minimum elong	5014 Oct 29 01:13	6°M18'38		max. Earth dist.	5017 Mar 28 21:31		1.71336 AU

	5017 Apr 14 13:03	0°8		morning max el	5019 Oct 26 22:51	18° <b>m</b> 39'18	45°53'37
evening rise	5017 May 05 14:46	26° <b>8</b> 18'46		morning max or	5019 Nov 07 05:29	0° <b>⊡</b>	15 55 57
	5017 May 08 13:52	0°П		asc. node	5019 Nov 11 17:29	4° <b>Ω</b> 43'55	
asc. node	5017 May 26 22:23	22° <b>I</b> I45'28			5019 Dec 04 12:25	0°M	
	5017 Jun 01 19:09	0°€			5019 Dec 30 00:55	0°⊀	
	5017 Jun 26 05:53	$0^{\circ}\Omega$			5020 Jan 23 17:46	ರ°0	
	5017 Jul 20 23:21	0° <b>m</b>			5020 Feb 17 00:47	0° <b>≈</b>	
	5017 Aug 15 02:20	0∘ <b>ত</b>		desc. node	5020 Mar 02 08:24	17° <b>≈</b> 48'48	
	5017 Sep 09 20:22	$0^{\circ}$ M.			5020 Mar 12 02:53	0° <b>)</b> €	
desc. node	5017 Sep 15 13:11	6°M29'58			5020 Apr 05 03:02	$0^{\circ}\mathbf{\Upsilon}$	
	5017 Oct 06 16:59	0°⊀			5020 Apr 29 03:25	$9^{\circ}$ 8	
evening max el	5017 Oct 31 05:39	25° <b>҂</b> 19'00	46°15'12	morning set	5020 Apr 30 06:26	1° <b>8</b> 24'17	
	5017 Nov 05 03:49	0°₹			5020 May 23 05:39	$\Pi$ $^{\circ}0$	
greatest brilliancy	5017 Dec 10 02:44	24° <b>る</b> 34'05	-4.8m				
retrograde	5017 Dec 19 17:11	26° <b>る</b> 16'15		superior conj	5020 Jun 08 02:07	19° <b>Ⅱ</b> 40′01	-0°35'50
evening set	5018 Jan 03 01:39	22° <b>る</b> 14'17		minimum elong	5020 Jun 08 09:44	20° <b>Ⅱ</b> 03'36	
asc. node	5018 Jan 06 14:59	20° <b>る</b> 13'25		max. Earth dist.	5020 Jun 11 04:36		1.72725 AU
inferior conj	5018 Jan 09 08:05	18° <b>云</b> 34'44	0°42'07		5020 Jun 16 10:33	$0_{\circ}$ වෙ	
minimum elong	5018 Jan 09 06:27	18° <b>る</b> 37'13	0°41'36	asc. node	5020 Jun 23 10:08	8° <b>9</b> 37'43	
min. Earth dist.	5018 Jan 09 13:33	18° <b>ろ</b> 26'21	0.26775 AU		5020 Jul 10 18:07	0°Ω	
morning rise	5018 Jan 15 10:54	14° <b>る</b> 59'29		evening rise	5020 Jul 15 19:12	6° <b>Ω</b> 12'25	
direct	5018 Jan 29 23:27	10°る49'35			5020 Aug 04 04:11	0° <b>т</b> р	
greatest brilliancy	5018 Feb 09 07:49	12° <b>る</b> 51'02	-4.9m		5020 Aug 28 17:07	0∘ <b>亚</b>	
	5018 Mar 06 22:19	0° <b>≈</b>	46050100		5020 Sep 22 10:09	0°M	
morning max el	5018 Mar 21 12:36		46°58'00	desc. node	5020 Oct 13 01:12	24°M49'22	
1 1	5018 Apr 05 20:34	0° <b>)</b> (00)20			5020 Oct 17 09:04	0°♂ 0°♂	
desc. node	5018 Apr 28 06:15	25° <b>米</b> 09'30 0° <b>Ƴ</b>			5020 Nov 11 16:12	0°≈	
	5018 May 02 10:56	0° <b>∀</b>			5020 Dec 07 12:54	0° <b>∺</b>	
	5018 May 27 23:37 5018 Jun 22 01:46	0°II		arranina marral	5021 Jan 03 16:31 5021 Jan 11 23:56	8° <b>)</b> (35'38	17905119
	5018 Jul 16 23:03	0°9		evening max el asc. node	5021 Jan 11 25:56 5021 Feb 03 02:53	28° <b>H</b> 49'32	47 03 48
	5018 Aug 10 16:51	0°Ω		asc. Houe	5021 Feb 03 02:33 5021 Feb 04 15:18	26 <b>Λ</b> 4932	
asc. node	5018 Aug 19 07:47	10° <b>Ω</b> 30'02		greatest brilliancy	5021 Feb 21 18:13	10° <b>Υ</b> 02'25	-4.9m
ase. node	5018 Sep 04 06:50	0° m		retrograde	5021 Mar 03 18:22	11° <b>Y</b> 57'41	4.7111
morning set	5018 Sep 19 17:05	18° <b>m</b> ) 56'13		evening set	5021 Mar 21 12:39	5°Υ53'04	
morning sec	5018 Sep 28 16:41	0° <b>⊽</b>		min. Earth dist.	5021 Mar 24 00:02	4° <b>Υ</b> 22'21	0.27157 AU
	5018 Oct 22 23:03	0°M		inferior conj	5021 Mar 24 12:05	4°Υ03'44	8°57'31
max. Earth dist.	5018 Oct 23 12:30	0°M41'41	1.72767 AU	minimum elong	5021 Mar 24 08:31	4° <b>Υ</b> 09'15	8°57'20
				morning rise	5021 Mar 27 04:27	2° <b>Y</b> 25'05	
superior conj	5018 Oct 26 06:45	4°M07'00	1°20'32	C	5021 Mar 31 10:59	30° <b>₹</b> ₩	
minimum elong	5018 Oct 26 12:49	4°M25'46	1°20'27	direct	5021 Apr 14 01:24	26° <b>)</b> 16′57	
-	5018 Nov 16 03:06	0°⊀		greatest brilliancy	5021 Apr 23 08:32	27° <b>)</b> 54'29	-4.9m
evening rise	5018 Dec 03 06:47	21° <b>҂</b> 20′07			5021 Apr 28 10:42	$0^{\circ}\Upsilon$	
desc. node	5018 Dec 08 22:57	28° <b>₹</b> 23'53		desc. node	5021 May 25 17:58	20° <b>Ƴ</b> 12'41	
	5018 Dec 10 05:49	8°0		morning max el	5021 Jun 02 21:05	27° <b>Y</b> 57'05	46°22'45
	5019 Jan 03 07:40	0° <b>≈</b>			5021 Jun 04 22:48	$9^{\circ}$ 8	
	5019 Jan 27 09:17	0° <b>∀</b>			5021 Jul 03 06:13	$\Pi$ °0	
	5019 Feb 20 12:32	$0^{\circ}\Upsilon$			5021 Jul 29 17:43	$0$ $\circ$	
	5019 Mar 16 21:14	$_{0\circ}$ 8			5021 Aug 24 09:50	$0^{\circ}\Omega$	
asc. node	5019 Apr 01 00:34	18° <b>8</b> 22'22		asc. node	5021 Sep 15 19:45	26° <b>Ω</b> 42'50	
	5019 Apr 10 17:36	$\Pi$ °0			5021 Sep 18 13:20	0°Щ	
	5019 May 06 12:25	0°€			5021 Oct 13 06:45	0∘ <b>亚</b>	
	5019 Jun 03 08:13	$0^{\circ}\Omega$			5021 Nov 06 16:15	0° <b>™</b>	
evening max el	5019 Jun 07 17:43	4° <b>Ω</b> 22'19	45°53'00	morning set	5021 Nov 28 01:39	26°M32'49	
	5019 Jul 09 15:56	0° <b>m</b>			5021 Nov 30 20:12	0° <b>⊼</b>	
greatest brilliancy	5019 Jul 15 22:55	2° m 55'35	-4.7m	n at it a	5021 Dec 24 20:40	0°る	1.71.400 411
desc. node	5019 Jul 21 15:35	4° Mp 34'43		max. Earth dist.	5022 Jan 03 23:44		1.71499 AU
retrograde	5019 Jul 26 21:35	5° Mp 06'04		desc. node	5022 Jan 05 10:39	14° <b>る</b> 30'30	
evening set	5019 Aug 11 19:09 5019 Aug 12 06:15	0° Mp 15′50 30° RΩ		superior conj	5022 Jan 06 04:46	15° <b>る</b> 27'16	-0°01'51
inferior conj	5019 Aug 12 06:15 5019 Aug 17 10:55	30° <b>₹37</b> 26° <b>Ω</b> 49'45	-5°48'45	minimum elong	5022 Jan 06 04:46 5022 Jan 06 04:17	15° <b>る</b> 27'16	
minimum elong	5019 Aug 17 10:33 5019 Aug 17 01:08	20 <b>δ</b> (49 43 27° <b>Ω</b> 05'09		behind sun begin	5022 Jan 05 02:56	13 <b>3</b> 2543	0 01 70
min. Earth dist.	5019 Aug 17 01:08 5019 Aug 17 02:10	27° <b>Ω</b> 03'31	0.29036 AU	behind sun end	5022 Jan 07 05:37	14 000 18 16°る45'13	
morning rise	5019 Aug 17 02:10 5019 Aug 22 07:13	23° <b>Ω</b> 51'30	3.2, 330 110	Julia ball blid	5022 Jan 17 19:01	0°≈	
direct	5019 Aug 22 07:13 5019 Sep 08 00:28	18° <b>Ω</b> 33'53			5022 Feb 10 16:12	0° <b>∀</b>	
greatest brilliancy	5019 Sep 18 04:56	20° <b>Ω</b> 25'22	-4.7m	evening rise	5022 Feb 15 20:19	6° <b>¥</b> 29'59	
<i>32</i>	5019 Oct 05 07:43	0° m)	<del>-</del>		5022 Mar 06 13:30	0°Υ	
		4				•	

	5000 ) 6 00 10 00	001			50040 . 10 05 40	1.40 00 0.111.1	
	5022 Mar 30 13:03	0°8		asc. node	5024 Oct 13 07:40	14° <b>m</b> 01'11	
	5022 Apr 23 17:37	$\Pi$ °0			5024 Oct 26 21:43	0。 <b>⊽</b>	
asc. node	5022 Apr 28 12:32	5° <b>Ⅱ</b> 53'32			5024 Nov 20 19:58	0°M	
	5022 May 18 06:24	$0$ $\circ$ $\infty$			5024 Dec 15 06:08	0° <b>∡</b> ¹	
	5022 Jun 12 07:36	$0^{\circ}\Omega$			5025 Jan 08 09:14	8°0	
	5022 Jul 08 05:01	0° <b>m</b>			5025 Feb 01 08:23	0° <b>≈</b>	
	5022 Aug 04 18:36	0∘ <u>v</u>		desc. node	5025 Feb 01 22:31	0°≈44'21	
evening max el	5022 Aug 17 11:35	12° <b>≏</b> 40'43	45°33'08	greatest brilliancy	5025 Feb 07 17:15	7° <b>≈</b> 59'48	-3.9m
desc. node	5022 Aug 17 11:33 5022 Aug 18 03:28	13° <b>⊆</b> 18'34	43 33 00	morning set	5025 Feb 10 07:59	11°≈16'46	5.7111
desc. Hode	•			morning set			
	5022 Sep 06 13:32	0°M			5025 Feb 25 05:28	0° <b>)</b> €	
greatest brilliancy	5022 Sep 25 12:40	10°M39'33	-4.7m		5025 Mar 21 02:01	$0^{\circ}$ Y	
retrograde	5022 Oct 05 03:34	12°M19'33					
evening set	5022 Oct 22 22:36	6°M23'13		superior conj	5025 Mar 23 15:51	3° <b>Ƴ</b> 14'13	
inferior conj	5022 Oct 26 09:33	4°M16'06	-8°12'26	minimum elong	5025 Mar 23 11:22	3° <b>Y</b> 00'09	1°25'31
minimum elong	5022 Oct 26 15:54	4° <b>ጤ</b> 06'15	8°11'49	max. Earth dist.	5025 Mar 26 04:34	6° <b>Y</b> 24'53	1.71305 AU
min. Earth dist.	5022 Oct 27 04:12	3°M47'06	0.28549 AU		5025 Apr 13 23:48	0°B	
morning rise	5022 Oct 30 08:57	1°M50'03		evening rise	5025 May 03 02:51	23° <b>8</b> 53'23	
Č	5022 Nov 02 15:18	30° <b>Ŗ</b> Ω		Ü	5025 May 08 00:38	0°II	
direct	5022 Nov 16 19:23	26° <b>£</b> 02'50		asc. node	5025 May 26 00:18	22° <b>I</b> 18'00	
greatest brilliancy	5022 Nov 27 22:16	28° <b>£</b> 20'09	1 9m	asc. node	5025 Jun 01 05:59	0°95	
greatest brilliancy			-4.0111			0°Ω	
	5022 Dec 01 16:03	0°M			5025 Jun 25 16:54		
asc. node	5022 Dec 09 05:08	4°M24'35			5025 Jul 20 10:45	0° mp	
morning max el	5023 Jan 06 02:59	28°M34'06	46°37'29		5025 Aug 14 14:29	0∘ <b>ত</b>	
	5023 Jan 07 12:56	0° <b>√</b>			5025 Sep 09 09:58	0°M	
	5023 Feb 04 02:17	0°る		desc. node	5025 Sep 14 15:17	5° <b>™</b> 56'05	
	5023 Mar 01 17:03	0° <b>≈</b>			5025 Oct 06 09:44	0° <b>∡</b> ¹	
	5023 Mar 26 13:20	0° <b>)</b> €		evening max el	5025 Oct 28 18:31	22° <b>∡</b> 757'47	46°12'58
desc. node	5023 Mar 30 20:20	5° <b>ℋ</b> 14'04			5025 Nov 05 06:08	გ∘ე	
	5023 Apr 20 01:20	$0^{\circ}$ Y		greatest brilliancy	5025 Dec 07 16:42	22° <b>る</b> 11'01	-4.8m
	5023 May 14 10:04	0°8		retrograde	5025 Dec 17 04:57	23° <b>る</b> 51'32	
	5023 Jun 07 18:22	0°II		evening set	5025 Dec 31 14:53	19° <b>る</b> 48'39	
	5023 Jul 07 18:22 5023 Jul 02 03:28	0°©		asc. node	5026 Jan 05 17:01	16°る52'31	
							0017150
morning set	5023 Jul 11 04:49	11°507'59		inferior conj	5026 Jan 06 20:50		0°17'59
asc. node	5023 Jul 21 21:56	24°9518'14		minimum elong	5026 Jan 06 20:08	16°る11'07	0°17'46
	5023 Jul 26 13:07	$0$ $^{\circ}$ $\Omega$		min. Earth dist.	5026 Jan 07 04:11	15° <b>る</b> 58'48	0.26807 AU
				morning rise	5026 Jan 13 00:51	12° <b>る</b> 32'47	
superior conj	5023 Aug 17 04:20	26° <b>Ω</b> 36′21	0°57'26	direct	5026 Jan 27 12:01	8° <b>る</b> 23'59	
minimum elong	5023 Aug 16 19:19	26° <b>Ω</b> 08'36	0°57'05	greatest brilliancy	5026 Feb 06 23:13	10°る27'37	-4.9m
max. Earth dist.	5023 Aug 16 18:17	26° <b>Ω</b> 05′24	1.73468 AU		5026 Mar 07 04:21	0° <b>≈</b>	
	5023 Aug 19 22:31	0° <b>m</b>		morning max el	5026 Mar 19 01:03	11° <b>≈</b> 25'44	46°58'22
	5023 Sep 13 07:16	0∘ <b>⊽</b>			5026 Apr 05 14:36	0° <b>∀</b>	
evening rise	5023 Sep 22 05:16	10° <b>≏</b> 59'06		desc. node	5026 Apr 27 08:16	24° <b>)</b> 32′13	
0.100008	5023 Oct 07 15:49	0°M			5026 May 02 01:28	0°Υ	
	5023 Nov 01 01:02	0° <b>∡</b> 7			5026 May 27 12:30	0°8	
desc. node	5023 Nov 10 13:02	11° <b>×</b> 740'08			5026 Jun 21 13:43	0°II	
desc. Hode		0°5 11 × 4000				0ಂ <b>ತಾ</b>	
	5023 Nov 25 11:33				5026 Jul 16 10:23		
	5023 Dec 19 23:53	0° <b>≈</b>			5026 Aug 10 03:45	0°Ω	
	5024 Jan 13 15:49	0° <b>)</b> €		asc. node	5026 Aug 18 09:54	10° <b>Ω</b> 03'35	
	5024 Feb 07 17:00	0° <b>Υ</b>			5026 Sep 03 17:27	0° <b>m</b> )	
asc. node	5024 Mar 02 14:42	27° <b>Y</b> 37'35		morning set	5026 Sep 17 10:39	16° Mp 50'11	
	5024 Mar 04 17:38	$9^{\circ}$ 8			5026 Sep 28 03:11	0∘ <b>⊽</b>	
evening max el	5024 Mar 25 09:40	22° <b>8</b> 04'00	46°51'20	max. Earth dist.	5026 Oct 21 06:52	28° <b>≏</b> 37'18	1.72811 AU
	5024 Apr 02 12:38	$\Pi^{\circ}0$			5026 Oct 22 09:34	$0^{\circ}$ M	
greatest brilliancy	5024 M 04 02 02	22° <b>Ⅲ</b> 34'53	-4.8m				
retrograde	5024 May 04 02:03						
	5024 May 04 02:03 5024 May 14 18:16			superior coni	5026 Oct 23 23:44	1°M.58'17	1°21'34
-	5024 May 14 18:16	24° <b>Ⅱ</b> 41′50		superior conj minimum elong	5026 Oct 23 23:44 5026 Oct 24 05:11	1°M58'17 2°M15'09	1°21'34 1°21'30
evening set	5024 May 14 18:16 5024 May 30 11:26	24° <b>Ⅱ</b> 41'50 19° <b>Ⅱ</b> 50'04	4°06'30	superior conj minimum elong	5026 Oct 24 05:11	2°M15'09	1°21'34 1°21'30
evening set inferior conj	5024 May 14 18:16 5024 May 30 11:26 5024 Jun 04 21:01	24°Щ41'50 19°Щ50'04 16°Щ33'14		minimum elong	5026 Oct 24 05:11 5026 Nov 15 13:44	2°M15′09 0°⊀	
evening set inferior conj minimum elong	5024 May 14 18:16 5024 May 30 11:26 5024 Jun 04 21:01 5024 Jun 05 05:20	24°Д41'50 19°Д50'04 16°Д33'14 16°Д20'13	4°04'11	minimum elong evening rise	5026 Oct 24 05:11 5026 Nov 15 13:44 5026 Nov 30 21:09	2°M15'09 0°⊀ 19°⊀02'06	
evening set inferior conj minimum elong min. Earth dist.	5024 May 14 18:16 5024 May 30 11:26 5024 Jun 04 21:01 5024 Jun 05 05:20 5024 Jun 04 17:08	24°Д41'50 19°Д50'04 16°Д33'14 16°Д20'13 16°Д39'18		minimum elong	5026 Oct 24 05:11 5026 Nov 15 13:44 5026 Nov 30 21:09 5026 Dec 08 00:53	2°M.15′09 0°⊀ 19°⊀02′06 27°⊀56′18	
evening set inferior conj minimum elong min. Earth dist. morning rise	5024 May 14 18:16 5024 May 30 11:26 5024 Jun 04 21:01 5024 Jun 05 05:20 5024 Jun 04 17:08 5024 Jun 10 23:49	24°Д41'50 19°Д50'04 16°Д33'14 16°Д20'13 16°Д39'18 12°Д53'59	4°04'11	minimum elong evening rise	5026 Oct 24 05:11 5026 Nov 15 13:44 5026 Nov 30 21:09 5026 Dec 08 00:53 5026 Dec 09 16:38	2°肌15'09 0°メ 19°メ02'06 27°メ56'18 0°る	
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	5024 May 14 18:16 5024 May 30 11:26 5024 Jun 04 21:01 5024 Jun 05 05:20 5024 Jun 04 17:08 5024 Jun 10 23:49 5024 Jun 22 05:36	24°П41'50 19°П50'04 16°П33'14 16°П20'13 16°П39'18 12°П53'59 8°П48'35	4°04'11	minimum elong evening rise	5026 Oct 24 05:11 5026 Nov 15 13:44 5026 Nov 30 21:09 5026 Dec 08 00:53 5026 Dec 09 16:38 5027 Jan 02 18:42	2°M15′09 0° ⊀ 19° ₹ 02′06 27° ₹ 56′18 0° ₹ 0° ≈	
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	5024 May 14 18:16 5024 May 30 11:26 5024 Jun 04 21:01 5024 Jun 05 05:20 5024 Jun 04 17:08 5024 Jun 10 23:49 5024 Jun 22 05:36 5024 Jun 26 00:22	24°П41'50 19°П50'04 16°П33'14 16°П20'13 16°П39'18 12°П53'59 8°П48'35 8°П31'29	4°04'11 0.28086 AU	minimum elong evening rise	5026 Oct 24 05:11 5026 Nov 15 13:44 5026 Nov 30 21:09 5026 Dec 08 00:53 5026 Dec 09 16:38 5027 Jan 02 18:42 5027 Jan 26 20:34	2°M15'09 0°⊀ 19°⊀02'06 27°⊀56'18 0°उ 0°≈ 0°¥	
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	5024 May 14 18:16 5024 May 30 11:26 5024 Jun 04 21:01 5024 Jun 05 05:20 5024 Jun 04 17:08 5024 Jun 10 23:49 5024 Jun 22 05:36	24°П41'50 19°П50'04 16°П33'14 16°П20'13 16°П39'18 12°П53'59 8°П48'35	4°04'11	minimum elong evening rise	5026 Oct 24 05:11 5026 Nov 15 13:44 5026 Nov 30 21:09 5026 Dec 08 00:53 5026 Dec 09 16:38 5027 Jan 02 18:42	2°M15'09 0°⊀ 19°⊀02'06 27°⊀56'18 0°℧ 0°≈ 0°升 0°Υ	
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	5024 May 14 18:16 5024 May 30 11:26 5024 Jun 04 21:01 5024 Jun 05 05:20 5024 Jun 04 17:08 5024 Jun 10 23:49 5024 Jun 22 05:36 5024 Jun 26 00:22	24°П41'50 19°П50'04 16°П33'14 16°П20'13 16°П39'18 12°П53'59 8°П48'35 8°П31'29	4°04'11 0.28086 AU	minimum elong evening rise	5026 Oct 24 05:11 5026 Nov 15 13:44 5026 Nov 30 21:09 5026 Dec 08 00:53 5026 Dec 09 16:38 5027 Jan 02 18:42 5027 Jan 26 20:34	2°M15'09 0°⊀ 19°⊀02'06 27°⊀56'18 0°उ 0°≈ 0°¥	
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	5024 May 14 18:16 5024 May 30 11:26 5024 Jun 04 21:01 5024 Jun 05 05:20 5024 Jun 04 17:08 5024 Jun 10 23:49 5024 Jun 22 05:36 5024 Jun 26 00:22 5024 Jul 05 19:25	24° II 41'50 19° II 50'04 16° II 33'14 16° II 20'13 16° II 39'18 12° II 53'59 8° II 48'35 8° II 31'29 10° II 17'04	4°04'11 0.28086 AU -4.8m	minimum elong evening rise	5026 Oct 24 05:11 5026 Nov 15 13:44 5026 Nov 30 21:09 5026 Dec 08 00:53 5026 Dec 09 16:38 5027 Jan 02 18:42 5027 Jan 26 20:34 5027 Feb 20 00:10	2°M15'09 0°⊀ 19°⊀02'06 27°⊀56'18 0°℧ 0°≈ 0°升 0°Υ	
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct greatest brilliancy	5024 May 14 18:16 5024 May 30 11:26 5024 Jun 04 21:01 5024 Jun 05 05:20 5024 Jun 04 17:08 5024 Jun 10 23:49 5024 Jun 22 05:36 5024 Jun 26 00:22 5024 Jul 05 19:25 5024 Aug 04 14:28	24°Д41'50 19°Д50'04 16°Д33'14 16°Д20'13 16°Д39'18 12°Д53'59 8°Д48'35 8°Д31'29 10°Д17'04 0°©	4°04'11 0.28086 AU -4.8m	minimum elong evening rise desc. node	5026 Oct 24 05:11 5026 Nov 15 13:44 5026 Nov 30 21:09 5026 Dec 08 00:53 5026 Dec 09 16:38 5027 Jan 02 18:42 5027 Jan 26 20:34 5027 Feb 20 00:10 5027 Mar 16 09:24	2°M15'09 0°₺ 19°₺2'06 27°₺56'18 0°₺ 0°₺ 0°₧ 0°℃	
evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct greatest brilliancy	5024 May 14 18:16 5024 May 30 11:26 5024 Jun 04 21:01 5024 Jun 05 05:20 5024 Jun 04 17:08 5024 Jun 10 23:49 5024 Jun 22 05:36 5024 Jun 26 00:22 5024 Jul 05 19:25 5024 Aug 04 14:28 5024 Aug 13 21:05	24°П41'50 19°П50'04 16°П33'14 16°П20'13 16°П39'18 12°П53'59 8°П48'35 8°П31'29 10°П17'04 0°© 8°©31'44	4°04'11 0.28086 AU -4.8m	minimum elong evening rise desc. node	5026 Oct 24 05:11 5026 Nov 15 13:44 5026 Nov 30 21:09 5026 Dec 08 00:53 5026 Dec 09 16:38 5027 Jan 02 18:42 5027 Jan 26 20:34 5027 Feb 20 00:10 5027 Mar 16 09:24 5027 Mar 31 02:35	2°M15'09 0°⊀ 19°⊀'02'06 27°⊀'56'18 0°≈ 0°¥ 0°Y 0°Y 17°♥50'24	

	5005 1 00 04 40	00.0			500031 06 00 00	00 <b>m</b>	
	5027 Jun 03 04:43	0° <b>Ω</b>	4505444		5029 Nov 06 03:08	0°M	
evening max el	5027 Jun 05 08:28	2° <b>Ω</b> 07'46	45°54'43	morning set	5029 Nov 25 16:56	24°M17'25	
	5027 Jul 11 17:46	0° <b>m</b> )			5029 Nov 30 07:00	0° <b>∡</b> ¹	
greatest brilliancy	5027 Jul 13 14:37	0° m/45'44	-4.7m		5029 Dec 24 07:28	0°る	
desc. node	5027 Jul 20 17:43	2° m/40'21		max. Earth dist.	5030 Jan 01 11:17	10°る12'57	1.71533 AU
retrograde	5027 Jul 24 14:05	2° m 57'26					
	5027 Aug 05 20:08	30°R€		superior conj	5030 Jan 03 16:56	13° <b>る</b> 01'00	
evening set	5027 Aug 09 09:03	28° <b>Ω</b> 10′08		minimum elong	5030 Jan 03 17:26	13° <b>る</b> 02'33	0°02'00
inferior conj	5027 Aug 15 03:15	24° <b>Ω</b> 41'01		behind sun begin	5030 Jan 02 16:12	11° <b>る</b> 43'29	
minimum elong	5027 Aug 14 17:34	24° <b>Ω</b> 56'13		behind sun end	5030 Jan 04 18:40	14° <b>る</b> 21'37	
min. Earth dist.	5027 Aug 14 18:16		0.29015 AU	desc. node	5030 Jan 04 12:45	14° <b>る</b> 03'07	
morning rise	5027 Aug 20 02:09	21° <b>Ω</b> 39'10			5030 Jan 17 05:53	0° <b>≈</b>	
direct	5027 Sep 05 16:03	16° <b>Ω</b> 25'17			5030 Feb 10 03:10	0° <b>∀</b>	
greatest brilliancy	5027 Sep 15 21:04	18° <b>Ω</b> 17'09	-4.7m	evening rise	5030 Feb 13 07:20	3° <b>¥</b> 59'16	
	5027 Oct 05 20:32	0°Щт			5030 Mar 06 00:36	0° <b>Υ</b>	
morning max el	5027 Oct 24 14:27	16° Mp 28'14	45°52'39		5030 Mar 30 00:18	0°B	
	5027 Nov 06 23:34	0∘ <b>⊽</b>			5030 Apr 23 05:06	0°П	
asc. node	5027 Nov 10 19:24	4° <b>£</b> 03'14		asc. node	5030 Apr 27 14:25	5° <b>Ⅲ</b> 23'52	
	5027 Dec 04 02:37	0°M₊			5030 May 17 18:19	0ം <b>ತಾ</b>	
	5027 Dec 29 13:36	0° <b>∡</b>			5030 Jun 11 20:22	$0$ $\circ$ $\Omega$	
	5028 Jan 23 05:43	0°₹			5030 Jul 07 19:31	0° <b>™</b>	
	5028 Feb 16 12:18	0° <b>≈</b>			5030 Aug 04 13:25	0∘ <b>⊽</b>	
desc. node	5028 Mar 01 10:29	17°≈19'50		evening max el	5030 Aug 15 03:22	10° <b>≏</b> 29'46	45°32'44
	5028 Mar 11 14:08	0° <b>∀</b>		desc. node	5030 Aug 17 05:31	12° <b>≏</b> 28'41	
	5028 Apr 04 14:06	$0^{\circ}\mathbf{\Upsilon}$			5030 Sep 07 06:13	0° <b>M</b>	
morning set	5028 Apr 27 19:01	28° <b>Y</b> 59'49		greatest brilliancy	5030 Sep 23 02:25	8°M25'50	-4.7m
	5028 Apr 28 14:18	0°8		retrograde	5030 Oct 02 18:15	10° <b>M</b> 06'19	
	5028 May 22 16:24	$\Pi^{\circ}0$		evening set	5030 Oct 20 15:29	4° <b>ጤ</b> 07'10	
				inferior conj	5030 Oct 24 00:47	2°M02'11	-8°18'30
superior conj	5028 Jun 05 16:54	17° <b>Ⅱ</b> 24'03		minimum elong	5030 Oct 24 06:29	1°M53'20	8°18'00
minimum elong	5028 Jun 06 01:06	17° <b>Ⅱ</b> 49'26		min. Earth dist.	5030 Oct 24 18:27	1° <b>M</b> 34'40	0.28600 AU
max. Earth dist.	5028 Jun 08 19:42		1.72679 AU		5030 Oct 27 08:02	30°Ŗ <b>죠</b>	
	5028 Jun 15 21:13	0°€		morning rise	5030 Oct 27 21:16	29° <b>≏</b> 40'11	
asc. node	5028 Jun 22 12:08	8°9510'54		direct	5030 Nov 14 11:31	23° <b>△</b> 48'30	4.0
	5028 Jul 10 04:48	0° <b>Ω</b>		greatest brilliancy	5030 Nov 25 12:46	26° <b>♀</b> 04'02	-4.8m
evening rise	5028 Jul 13 12:25	4° <b>Ω</b> 04'55		1	5030 Dec 03 10:38	0°ጤ 3°ጤ07'47	
	5028 Aug 03 14:59	0° <b>Т</b> р		asc. node	5030 Dec 08 07:08		46926102
	5028 Aug 28 04:10	0∘ <b>™</b>		morning max el	5031 Jan 03 17:54	26°M15'45	46°36'02
desc. node	5028 Sep 21 21:38	0° <b>ጤ</b> 24° <b>ጤ</b> 19'23			5031 Jan 07 09:56	0° <b>ス</b>	
desc. node	5028 Oct 12 03:11 5028 Oct 16 21:14	24 IIL1923 0° <b>√</b>			5031 Feb 03 17:53 5031 Mar 01 06:37	0° <b>≈</b>	
	5028 Nov 11 05:32	0°る			5031 Mar 26 01:52	0 <b>∞</b> 0° <b>∺</b>	
	5028 Nov 11 03:32 5028 Dec 07 04:21	0°≈		desc. node	5031 Mar 29 22:18	4° <b>)</b> 42'12	
	5029 Jan 03 12:52	0° <b>∺</b>		desc. flode	5031 Apr 19 13:14	4 )(42 12 0° <b>Υ</b>	
evening max el	5029 Jan 09 14:04	6° <b>∺</b> 12'51	47°04'49		5031 May 13 21:33	%8 0°B	
asc. node	5029 Feb 02 04:58	27° <b>)</b> 34'47	47 0442		5031 Jun 07 05:33	0°II	
asc. node	5029 Feb 05 12:10	27 <b>γ</b> (3447			5031 Jul 01 14:25	0°©	
greatest brilliancy	5029 Feb 19 06:48	7° <b>Υ</b> 35'10	-4.9m	morning set	5031 Jul 08 21:37	8°958'40	
retrograde	5029 Mar 01 08:10	9° <b>Υ</b> 31'20	,	asc. node	5031 Jul 21 00:02	23° <b>9</b> 51'25	
evening set	5029 Mar 18 22:32	3° <b>Υ</b> 31'23		aso. node	5031 Jul 25 23:55	0°Ω	
min. Earth dist.	5029 Mar 21 12:12		0.27124 AU		2031 Vai 20 23.00	~ <b>~ ~ ~</b>	
inferior conj	5029 Mar 22 00:57	1° <b>Υ</b> 37'43	8°53'21	superior conj	5031 Aug 14 22:04	24° <b>Ω</b> 30'11	0°55'00
minimum elong	5029 Mar 21 20:30	1° <b>Y</b> 44'35		minimum elong	5031 Aug 14 13:08	24° <b>Ω</b> 02'43	0°54'40
morning rise	5029 Mar 24 18:35	29° <b>)</b> 57′26		max. Earth dist.	5031 Aug 14 15:20	24°Ω09'28	1.73464 AU
	5029 Mar 24 16:52	30° <b>R</b> €			5031 Aug 19 09:16	0° m)	
direct	5029 Apr 11 14:18	23° <b>)</b> €51'23			5031 Sep 12 18:04	0° <b>∿</b>	
greatest brilliancy	5029 Apr 20 20:36	25° <b>)</b> 28'42	-4.9m	evening rise	5031 Sep 19 23:01	8° <b>≏</b> 52'30	
,	5029 Apr 30 11:07	$0^{\circ}\mathbf{\Upsilon}$		-	5031 Oct 07 02:47	0° <b>M</b> ₊	
desc. node	5029 May 24 19:53	19° <b>Ƴ</b> 15′05			5031 Oct 31 12:18	0° <b>∡</b> ″	
morning max el	5029 May 31 11:45	25° <b>Ƴ</b> 38'31	46°24'26	desc. node	5031 Nov 09 15:00	11° <b>∡</b> 11'10	
-	5029 Jun 04 20:39	0°8			5031 Nov 24 23:14	8°0	
	5029 Jul 02 22:00	0°Ⅲ			5031 Dec 19 12:06	0° <b>≈</b>	
	5029 Jul 29 07:06	0ಂತ			5032 Jan 13 04:48	0° <b>∀</b>	
	5029 Aug 23 21:59	$0^{\circ}\Omega$			5032 Feb 07 07:17	0° <b>Υ</b>	
asc. node	5029 Sep 14 21:42	26° <b>Ω</b> 14'01		asc. node	5032 Mar 01 16:41	26° <b>Ƴ</b> 56'17	
	5029 Sep 18 00:48	0° <b>m</b>			5032 Mar 04 10:44	$9^{\circ}$ 8	
	5029 Oct 12 17:51	0∘ <b>⊽</b>		evening max el	5032 Mar 23 00:22	19° <b>8</b> 44'30	46°52'51

	5032 Apr 02 15:02	0° <b>I</b> I		morning set	5034 Sep 15 04:10	14° Mp 42'56	
greatest brilliancy	5032 May 01 18:55	20° <b>Ⅱ</b> 20'07	1 8m	morning set	5034 Sep 13 04:10 5034 Sep 27 14:03	0° <b>⊽</b>	
retrograde	5032 May 12 09:14	22° <b>II</b> 25'24	- <del>4</del> .0111	max. Earth dist.	5034 Oct 19 02:13	26° <b>≏</b> 34'53	1.72853 AU
evening set	5032 May 12 05:14 5032 May 28 05:15	17° <b>II</b> 30'34		max. Earth dist.	3034 001 17 02.13	20 = 54 55	1.72033710
inferior conj	5032 Jun 02 12:07	14° <b>I</b> 17'27	4°25'39	superior conj	5034 Oct 21 16:38	29° <b>≏</b> 48'11	1°22'29
minimum elong	5032 Jun 02 20:55	14° <b>I</b> I03'40	4°23'16	minimum elong	5034 Oct 21 21:26	0°M03'02	
min. Earth dist.	5032 Jun 02 08:41	14° <b>Ⅱ</b> 22'49	0.28055 AU		5034 Oct 21 20:27	0°M	
morning rise	5032 Jun 08 13:08	10° <b>Ⅱ</b> 40′19			5034 Nov 15 00:44	0° <b>∡</b> ¹	
desc. node	5032 Jun 21 07:46	6° <b>Ⅱ</b> 22'34		evening rise	5034 Nov 28 11:31	16° <b>∡</b> ¹43'06	
direct	5032 Jun 23 14:59	6° <b>Ⅱ</b> 16'18		desc. node	5034 Dec 07 02:59	27° <b>∡</b> "28′10	
greatest brilliancy	5032 Jul 03 09:48	8° <b>Ⅲ</b> 01′24	-4.8m		5034 Dec 09 03:48	8°0	
	5032 Aug 04 17:30	$0$ $\circ$ $\odot$			5035 Jan 02 06:05	0° <b>≈</b>	
morning max el	5032 Aug 11 11:22	6° <b>©</b> 16'32	45°45'42		5035 Jan 26 08:14	0° <b>)</b> €	
	5032 Sep 03 17:47	$0^{\circ}\Omega$			5035 Feb 19 12:12	$0^{\circ}$ Y	
	5032 Sep 30 17:50	O° mp			5035 Mar 15 21:59	$0^{\circ}B$	
asc. node	5032 Oct 12 09:37	13° <b>m</b> 28'41		asc. node	5035 Mar 30 04:31	17° <b>8</b> 17'03	
	5032 Oct 26 10:12	0∘ <b>ত</b>			5035 Apr 09 20:15	$\Pi$ $^{\circ}0$	
	5032 Nov 20 07:45	$0^{\circ}$ M.			5035 May 05 19:04	$0$ $\circ$ $\odot$	
	5032 Dec 14 17:35	0° <b>∡</b>		evening max el	5035 Jun 03 00:07	29° <b>©</b> 55'01	45°56'37
	5033 Jan 07 20:31	0°ප			5035 Jun 03 02:10	$0$ $^{\circ}$ $\Omega$	
	5033 Jan 31 19:34	0° <b>≈</b>		greatest brilliancy	5035 Jul 11 05:55	28° <b>Ω</b> 35′16	-4.7m
desc. node	5033 Feb 01 00:36	0° <b>≈</b> 15'46			5035 Jul 15 17:49	0° <b>™</b>	
greatest brilliancy	5033 Feb 05 23:46	6° <b>≈</b> 29'50	-3.9m	desc. node	5035 Jul 19 19:42	0° <b>m</b> 41'35	
morning set	5033 Feb 07 18:19	8° <b>≈</b> 43'28		retrograde	5035 Jul 22 07:09	0° Mp 48′44	
	5033 Feb 24 16:34	0° <b>∀</b>			5035 Jul 28 15:49	$30^{\circ}$ R $\Omega$	
	5033 Mar 20 13:02	$0^{\circ}\mathbf{\Upsilon}$		evening set	5035 Aug 06 23:21	26° <b>Ω</b> 04'07	
				inferior conj	5035 Aug 12 19:45	22° <b>Ω</b> 32'04	
superior conj	5033 Mar 21 02:55	0° <b>Y</b> 43′36		minimum elong	5035 Aug 12 10:14	22° <b>Ω</b> 46′59	
minimum elong	5033 Mar 20 21:26	0° <b>Υ</b> 26'21		min. Earth dist.	5035 Aug 12 10:12	22° <b>Ω</b> 47'01	0.28997 AU
max. Earth dist.	5033 Mar 23 09:38		1.71271 AU	morning rise	5035 Aug 17 21:16	19° <b>Ω</b> 26'48	
	5033 Apr 13 10:47	0° <b>8</b>		direct	5035 Sep 03 08:21	14° <b>Ω</b> 16'30	
evening rise	5033 Apr 30 15:10	21° <b>8</b> 27'58		greatest brilliancy	5035 Sep 13 13:01	16° <b>Ω</b> 08'24	-4.7m
	5033 May 07 11:39	0°II			5035 Oct 06 06:20	0° m)	45051100
asc. node	5033 May 25 02:21	21° <b>II</b> 50'08		morning max el	5035 Oct 22 06:58	14° Mp 18'43	45°51'32
	5033 May 31 17:06	0° <b>©</b>			5035 Nov 06 17:34	0∘ <b>ರ</b>	
	5033 Jun 25 04:14	0° <b>Ω</b>		asc. node	5035 Nov 09 21:28	3° <b>£</b> 22'23 0° <b>I</b> L	
	5033 Jul 19 22:32	0° <b>⊽</b> 0°₥			5035 Dec 03 17:02	0°11に 0° <b>ス</b> 7	
	5033 Aug 14 03:06	0° <b>M</b>			5035 Dec 29 02:33	0° <b>ろ</b>	
desc. node	5033 Sep 09 00:10 5033 Sep 13 17:15	5°M20'21			5036 Jan 22 17:55 5036 Feb 16 00:04	0° <b>≈</b>	
desc. Hode	5033 Sep 13 17:13 5033 Oct 06 03:19	0° <b>√</b>		desc. node	5036 Feb 29 12:23	0 <b>≈</b> 16° <b>≈</b> 49'33	
evening max el	5033 Oct 26 07:00	0 <b>★</b> 20° <b>★</b> 34'44	46°10'54	desc. flode	5036 Mar 11 01:39	0° <b>)</b>	
evening max er	5033 Nov 05 10:36	20 X 34 44	40 10 34		5036 Apr 04 01:25	0° <b>Υ</b>	
greatest brilliancy	5033 Nov 05 10:30 5033 Dec 05 06:12	19° <b>ठ</b> 46'27	-4.8m	morning set	5036 Apr 04 01:23 5036 Apr 25 07:32	26° <b>Υ</b> '34'12	
retrograde	5033 Dec 03 00:12 5033 Dec 14 16:59	21° <b>る</b> 26'06	4.0111	morning set	5036 Apr 28 01:27	0°8	
evening set	5033 Dec 29 04:19	17° <b>る</b> 21'34			5036 May 22 03:24	0°II	
inferior conj	5034 Jan 04 09:34	13° <b>る</b> 44'17	-0°06'11		3030 May 22 03.21	· <u> </u>	
minimum elong	5034 Jan 04 09:48	13° <b>る</b> 43'55	0°06'05	superior conj	5036 Jun 03 07:45	15° <b>Ⅱ</b> 07'23	-0°42'09
transit middle	5034 Jan 04 09:48	13° <b>る</b> 43'55	0°06'05	minimum elong	5036 Jun 03 16:28	15° <b>Ⅱ</b> 34'27	0°41'47
transit begin	5034 Jan 04 06:01	13° <b>る</b> 49'43		max. Earth dist.	5036 Jun 06 12:13	19° <b>Ⅱ</b> 04'21	1.72628 AU
transit end	5034 Jan 04 13:36	13° <b>る</b> 38'07			5036 Jun 15 08:06	0° <b>©</b>	
asc. node	5034 Jan 04 19:09	13° <b>る</b> 29'39		asc. node	5036 Jun 21 14:15	7° <b>5</b> 43'51	
min. Earth dist.	5034 Jan 04 18:39	13° <b>ප</b> 30'25	0.26844 AU		5036 Jul 09 15:40	$0^{\circ}\Omega$	
morning rise	5034 Jan 10 14:38	10° <b>පි</b> 05'32		evening rise	5036 Jul 11 05:52	1° <b>Ω</b> 57'30	
direct	5034 Jan 25 00:44	5°₹57'04			5036 Aug 03 01:58	0° <b>m</b>	
greatest brilliancy	5034 Feb 04 14:40	8° <b>ට</b> 03'14	-4.9m		5036 Aug 27 15:25	0∘ <b>⊽</b>	
	5034 Mar 07 08:55	0° <b>≈</b>			5036 Sep 21 09:21	$0^{\circ}$ M	
morning max el	5034 Mar 16 14:30	9° <b>≈</b> 00′13	46°58'54	desc. node	5036 Oct 11 05:08	23°M48'28	
	5034 Apr 05 08:35	0° <b>∀</b>			5036 Oct 16 09:43	0° <b>∡</b> 7	
desc. node	5034 Apr 26 10:13	23° <b>) ₹</b> 54'09			5036 Nov 10 19:16	8°0	
	5034 May 01 16:08	$0$ ° $\mathbf{\gamma}$			5036 Dec 06 20:21	0° <b>≈</b>	
	5034 May 27 01:34	$9^{\circ}$ 8			5037 Jan 03 10:14	0° <b>)</b> €	
	5034 Jun 21 01:52	$\Pi^{\circ}0$		evening max el	5037 Jan 07 04:58	3° <b>¥</b> 51'14	47°03'50
	5034 Jul 15 21:56	0°©		asc. node	5037 Feb 01 06:55	26° <b>¥</b> 16'39	
	5034 Aug 09 14:56	$0^{\circ}\Omega$			5037 Feb 06 17:15	0° <b>Υ</b>	
asc. node	5034 Aug 17 11:51	9° <b>Ω</b> 35'40		greatest brilliancy	5037 Feb 16 19:23	5° <b>Υ</b> 07'17	-4.9m
	5034 Sep 03 04:25	0° <b>m</b>		retrograde	5037 Feb 26 21:55	7° <b>Ƴ</b> 04'04	

evening set	5037 Mar 16 08:05	1° <b>Y</b> 09'36			5039 Jul 25 10:42	0°N	
C	5037 Mar 18 05:59	30° <b>₹</b> ₩					
min. Earth dist.	5037 Mar 19 00:18	29° <b>)</b> 31'48	0.27089 AU	superior conj	5039 Aug 12 16:03	22° <b>Ω</b> 24'56	0°52'32
inferior conj	5037 Mar 19 13:49	29° <b>升</b> 10′58	8°48'12	minimum elong	5039 Aug 12 07:16	21° <b>Ω</b> 57'55	0°52'11
minimum elong	5037 Mar 19 08:30	29° <b>升</b> 19′10	8°47'47	max. Earth dist.	5039 Aug 12 10:36	22° <b>Ω</b> 08′13	1.73456 AU
morning rise	5037 Mar 22 09:04	27° <b>)</b> €28'23			5039 Aug 18 19:58	0° <b>™</b>	
direct	5037 Apr 09 03:32	21° <b>¥</b> 25′19			5039 Sep 12 04:47	0∘ <b>ত</b>	
greatest brilliancy	5037 Apr 18 08:32	23° <b>₩</b> 01'57	-4.9m	evening rise	5039 Sep 17 17:10	6° <b>≏</b> 47'31	
	5037 May 01 19:58	$0$ ° $\Upsilon$			5039 Oct 06 13:38	$0^{\circ}$ M	
desc. node	5037 May 23 22:02	18° <b>Ƴ</b> 18'39			5039 Oct 30 23:26	0°⊀	
morning max el	5037 May 29 02:06	23° <b>Y</b> 18'30	46°26'05	desc. node	5039 Nov 08 17:09	10° <b>∡</b> ⁴43'15	
	5037 Jun 04 17:55	$9^{\circ}$ 8			5039 Nov 24 10:48	0°ප	
	5037 Jul 02 13:41	$\Pi$ $^{\circ}0$			5039 Dec 19 00:15	0° <b>≈</b>	
	5037 Jul 28 20:30	0			5040 Jan 12 17:48	0° <b>∀</b>	
	5037 Aug 23 10:11	$0^{\circ}\Omega$			5040 Feb 06 21:44	$0^{\circ}$ Y	
asc. node	5037 Sep 13 23:42	25° <b>Ω</b> 45'11		asc. node	5040 Feb 29 18:39	26° <b>Ƴ</b> 14'17	
	5037 Sep 17 12:19	O° My			5040 Mar 04 04:17	$0^{\circ}S$	
	5037 Oct 12 05:00	0。 <b>ಹ</b>		evening max el	5040 Mar 20 14:03	17° <b>8</b> 22'03	46°54'22
	5037 Nov 05 14:08	0°M₊			5040 Apr 02 19:11	$\Pi$ °0	
morning set	5037 Nov 23 08:20	22°M01'59		greatest brilliancy	5040 Apr 29 11:46	18° <b>Ⅱ</b> 04'48	-4.8m
	5037 Nov 29 17:57	0° <b>⊼</b>		retrograde	5040 May 09 23:56	20° <b>Ⅱ</b> 08'33	
	5037 Dec 23 18:28	0°ಕ		evening set	5040 May 25 22:57	15° <b>Ⅱ</b> 10′17	
max. Earth dist.	5037 Dec 29 19:43	7° <b>る</b> 34'32	1.71571 AU	inferior conj	5040 May 31 03:05	12° <b>Ⅱ</b> 01'14	4°44'26
				minimum elong	5040 May 31 12:18	11° <b>Ⅱ</b> 46'49	4°42'00
superior conj	5038 Jan 01 05:07	10° <b>る</b> 34'18	0°05'50	min. Earth dist.	5040 May 31 00:16	12° <b>Ⅱ</b> 05'38	0.28023 AU
minimum elong	5038 Jan 01 06:35	10° <b>る</b> 38'52	0°05'46	morning rise	5040 Jun 06 02:04	8° <b>Ⅱ</b> 26'36	
behind sun begin	5037 Dec 31 06:43	9° <b>る</b> 24'06		desc. node	5040 Jun 20 09:48	4° <b>Ⅱ</b> 01'16	
behind sun end	5038 Jan 02 06:27	11° <b>る</b> 53'38		direct	5040 Jun 21 04:57	4° <b>Ⅱ</b> 00'31	
desc. node	5038 Jan 03 14:50	13° <b>る</b> 35'04		greatest brilliancy	5040 Jul 01 00:32	5° <b>Ⅱ</b> 45'54	-4.8m
	5038 Jan 16 16:57	0° <b>≈</b>			5040 Aug 04 18:58	0ა <b>ௐ</b>	
	5038 Feb 09 14:18	0° <b>∀</b>		morning max el	5040 Aug 09 01:33	4° <b>©</b> 01'14	45°46'29
evening rise	5038 Feb 10 18:05	1° <b>)</b> €27'16			5040 Sep 03 10:14	$0$ ° $\Omega$	
	5038 Mar 05 11:50	0° <b>Υ</b>			5040 Sep 30 07:21	0° m/y	
	5038 Mar 29 11:40	0° <b>8</b>		asc. node	5040 Oct 11 11:39	12° <b>m</b> 57'11	
	5038 Apr 22 16:43	0°II			5040 Oct 25 22:23	0∘ <b>⊽</b>	
asc. node	5038 Apr 26 16:30	4° <b>∏</b> 54'24			5040 Nov 19 19:15	0° <b>™</b>	
	5038 May 17 06:25	0°©			5040 Dec 14 04:46	0° <b>⊼</b>	
	5038 Jun 11 09:20	0° <b>N</b>			5041 Jan 07 07:33	0° <b>ට</b>	
	5038 Jul 07 10:15	0° <b>m</b>		desc. node	5041 Jan 31 02:32	29° <b>る</b> 47'27	
	5038 Aug 04 08:43	0° <b>™</b>	45022120		5041 Jan 31 06:32	0°≈	2.0
evening max el	5038 Aug 12 18:39	8° <b>£</b> 17'43	45°32'29	greatest brilliancy	5041 Feb 03 10:10	3°≈57'24	-3.9m
desc. node	5038 Aug 16 07:30	11° <b>≏</b> 37'53		morning set	5041 Feb 05 04:45	6°≈11'07	
	5038 Sep 08 04:22	0°M	4.7		5041 Feb 24 03:29	0° <b>}</b> (	
greatest brilliancy	5038 Sep 20 16:53	6°M13'48	-4.7m	aumorior coni	5041 Mar 19 12-24	28° <b>¥</b> 12'01	1922144
retrograde evening set	5038 Sep 30 08:52 5038 Oct 18 08:25	7°M54'29 1°M53'00		superior conj minimum elong	5041 Mar 18 13:34 5041 Mar 18 07:07	28 <b>X</b> 1201 27° <b>X</b> 51'44	
evening set	5038 Oct 18 08:23 5038 Oct 21 09:51	1 11€33 00 30°RΩ		minimum clong	5041 Mar 19 23:56	27 χ31 44 0°Υ	1 23 40
inferior conj	5038 Oct 21 09:31 5038 Oct 21 16:26	30 <b>қ≟</b> 29° <b>Ω</b> 49'44	-8°23'35	max. Earth dist.	5041 Mar 20 12:02	0° <b>Υ</b> 38'00	1.71248 AU
minimum elong	5038 Oct 21 10:20 5038 Oct 21 21:24	29° <b>Ω</b> 41'57		max. Lartii dist.	5041 Apr 12 21:41	0° <b>8</b>	1./1240 AC
min. Earth dist.	5038 Oct 21 21:24 5038 Oct 22 09:17	29° <b>£</b> 23'25	0.28652 AU	evening rise	5041 Apr 28 02:51	19° <b>8</b> 00'47	
morning rise	5038 Oct 25 10:12	27° <b>£</b> 31'26	0.20032710	e vennig rise	5041 May 06 22:34	0°П	
direct	5038 Nov 12 03:36	21° <b>£</b> 35'35		asc. node	5041 May 24 04:25	21° <b>I</b> 22'40	
greatest brilliancy	5038 Nov 23 04:07	23° <b>Ω</b> 49'51	-4.8m	use. Houe	5041 May 31 04:06	0.ಪ	
greatest similare)	5038 Dec 04 15:28	0°M			5041 Jun 24 15:27	$0^{\circ}\Omega$	
asc. node	5038 Dec 07 09:16	1°M53'58			5041 Jul 19 10:11	0° m)	
morning max el	5039 Jan 01 08:04	23°M55'36	46°34'19		5041 Aug 13 15:36	0∘ <b>⊽</b>	
	5039 Jan 07 06:14	0° <b>∡</b> 7			5041 Sep 08 14:16	0°M₊	
	5039 Feb 03 09:22	0°ප		desc. node	5041 Sep 12 19:16	4°M45'15	
	5039 Feb 28 20:12	0° <b>≈</b>			5041 Oct 05 20:57	0° <b>⊼</b>	
	5039 Mar 25 14:26	0° <b>)</b> €		evening max el	5041 Oct 23 20:09	18° <b>√</b> 14'44	46°09'05
desc. node	5039 Mar 29 00:22	4° <b>)</b> 10′25		<i>3</i>	5041 Nov 05 16:27	0°る	
	5039 Apr 19 01:10	0°Υ		greatest brilliancy	5041 Dec 02 19:19	17° <b>る</b> 23'34	-4.8m
	5039 May 13 09:01	0°8		retrograde	5041 Dec 12 05:54	19° <b>る</b> 03'09	
	5039 Jun 06 16:41	0°Щ		evening set	5041 Dec 26 18:16	14° <b>る</b> 56'36	
	5039 Jul 01 01:20	0ಂತಾ		inferior conj	5042 Jan 01 22:37	11° <b>る</b> 20'46	-0°29'56
morning set	5039 Jul 06 14:24	6° <b>©</b> 49'16		minimum elong	5042 Jan 01 23:46	11° <b>ろ</b> 19'01	
asc. node	5039 Jul 20 01:58	23°524'09		min. Earth dist.	5042 Jan 02 08:57	11° <b>පි</b> 05'00	

	5040 T 02 21 01	100710110			5044 4 00 10 40	00.00	
asc. node	5042 Jan 03 21:01	10°る10'12			5044 Aug 02 12:42	0° <b>m</b> )	
morning rise	5042 Jan 08 04:34	7° <b>る</b> 41'04			5044 Aug 27 02:25	0° <b>⊽</b>	
direct	5042 Jan 22 14:16	3° <b>る</b> 32'34			5044 Sep 20 20:50	0° <b>M</b>	
greatest brilliancy	5042 Feb 02 05:51	5° <b>る</b> 40'43	-4.9m	desc. node	5044 Oct 10 07:16	23°M18'51	
	5042 Mar 07 11:12	0° <b>≈</b>			5044 Oct 15 21:59	0°⊀⊓	
morning max el	5042 Mar 14 05:00	6° <b>≈</b> 38'42	46°59'01		5044 Nov 10 08:49	0°₹	
	5042 Apr 05 01:47	0° <b>∀</b>			5044 Dec 06 12:17	0° <b>≈</b>	
desc. node	5042 Apr 25 12:19	23° <b>∺</b> 17'36			5045 Jan 03 07:59	0° <b>∀</b>	
	5042 May 01 06:23	$0$ ° $\Upsilon$		evening max el	5045 Jan 04 20:00	1° <b>)</b> 31′05	47°02'48
	5042 May 26 14:22	0°8		asc. node	5045 Jan 31 08:57	24° <b>¥</b> 57'29	
	5042 Jun 20 13:47	$\Pi^{\circ}0$			5045 Feb 08 10:06	$0^{\circ}\mathbf{\Upsilon}$	
	5042 Jul 15 09:15	0°ಅ		greatest brilliancy	5045 Feb 14 08:32	2° <b>Y</b> 41'38	-4.9m
	5042 Aug 09 01:51	$0^{\circ}\Omega$		retrograde	5045 Feb 24 11:28	4° <b>Υ</b> 38'18	
asc. node	5042 Aug 16 13:49	9° <b>Ω</b> 08'36		ronogrado	5045 Mar 11 17:17	30°R <b>∀</b>	
asc. node	5042 Sep 02 15:05	0°m)		evening set	5045 Mar 13 17:34	28° <b>H</b> 50'03	
marning sat	5042 Sep 02 13:03 5042 Sep 12 21:31	12° Mp 36'04		min. Earth dist.	5045 Mar 16 12:46	28 <b>X</b> 30 03	0.27049 AU
morning set	•	-					
To all the	5042 Sep 27 00:38	0° <b>⊽</b>	1 72000 411	inferior conj	5045 Mar 17 02:51	26° <b>)</b> 46′00	8°42'11
max. Earth dist.	5042 Oct 16 21:50	24° <b>△</b> 34'10	1.72890 AU	minimum elong	5045 Mar 16 20:42	26° <b>¥</b> 55′29	8°41'37
		_		morning rise	5045 Mar 20 00:00	25° <b>米</b> 00′31	
superior conj	5042 Oct 19 09:34		1°23'17	direct	5045 Apr 06 16:50	19° <b>∺</b> 01'14	
minimum elong	5042 Oct 19 13:42	27° <b>≏</b> 51'57	1°23'15	greatest brilliancy	5045 Apr 15 20:45	20° <b>∺</b> 37′06	-4.9m
	5042 Oct 21 07:03	0°M			5045 May 02 18:43	$0$ ° $\mathbf{\Upsilon}$	
	5042 Nov 14 11:25	0° <b>∡</b>		desc. node	5045 May 23 00:03	17° <b>Ƴ</b> 24'35	
evening rise	5042 Nov 26 02:09	14° <b>∡</b> ¹26′01		morning max el	5045 May 26 15:28	20° <b>Ƴ</b> 57'22	46°27'34
desc. node	5042 Dec 06 04:59	27° <b>∡</b> ¹00'50			5045 Jun 04 13:55	$9^{\circ}$ 8	
	5042 Dec 08 14:37	გ∘ე			5045 Jul 02 04:43	$\Pi^{\circ}$	
	5043 Jan 01 17:04	0° <b>≈</b>			5045 Jul 28 09:28	0ංම	
	5043 Jan 25 19:29	0° <b>)</b> €			5045 Aug 22 22:04	0°N	
	5043 Feb 18 23:50	0°Υ		asc. node	5045 Sep 13 01:48	25° <b>Ω</b> 17'18	
	5043 Mar 15 10:13	0°8		use. Houe	5045 Sep 16 23:36	0° <b>m</b> )	
asc. node	5043 Mar 29 06:36	16° <b>8</b> 45'04			5045 Oct 11 15:55	0∘ <del>ত</del> المار	
asc. node		0°II				0 <b>==</b> 0°M⊾	
	5043 Apr 09 09:33				5045 Nov 05 00:52		
	5043 May 05 10:37	0.20		morning set	5045 Nov 20 23:32	19° <b>M</b> .46'46	
evening max el	5043 May 31 16:26	27° <b>©</b> 44'11	45°58'22		5045 Nov 29 04:38	0° <b>∡</b> ¹	
	5043 Jun 03 00:17	$0$ $^{\circ}\Omega$			5045 Dec 23 05:11	0°ಕ	
greatest brilliancy	5043 Jun 03 00:17 5043 Jul 08 21:07	0° <b>{\}</b> 26° <b>\Ω</b> 24'35	-4.7m	max. Earth dist.	5045 Dec 23 05:11 5045 Dec 27 03:27	0°궁 4°궁54'57	1.71611 AU
greatest brilliancy desc. node			-4.7m	max. Earth dist.			1.71611 AU
	5043 Jul 08 21:07	26° <b>Ω</b> 24'35	-4.7m	max. Earth dist.			1.71611 AU 0°09'36
desc. node	5043 Jul 08 21:07 5043 Jul 18 21:39	26° <b>\O</b> 24'35 28° <b>\O</b> 37'59	-4.7m		5045 Dec 27 03:27	4° <b>る</b> 54'57	
desc. node retrograde	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02	26° \Partial 24'35 28° \Partial 37'59 28° \Partial 39'24 23° \Partial 57'39		superior conj	5045 Dec 27 03:27 5045 Dec 29 17:20	4°ප්54'57 8°ප්08'39	0°09'36
desc. node retrograde evening set inferior conj	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55	26° N 24'35 28° N 37'59 28° N 39'24 23° N 57'39 20° N 22'39	-5°02'43	superior conj minimum elong behind sun begin	5045 Dec 27 03:27 5045 Dec 29 17:20 5045 Dec 29 19:44	4°ට 54'57 8°ට 08'39 8°ට 16'08 7°ට 11'23	0°09'36
desc. node retrograde evening set inferior conj minimum elong	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 02:36	26° N24'35 28° N37'59 28° N39'24 23° N57'39 20° N22'39 20° N37'12	-5°02'43 5°00'30	superior conj minimum elong behind sun begin behind sun end	5045 Dec 27 03:27 5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25	4°る54'57 8°る08'39 8°る16'08 7°る11'23 9°る20'54	0°09'36
desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 02:36 5043 Aug 10 01:39	26° N 24'35 28° N 37'59 28° N 39'24 23° N 57'39 20° N 22'39 20° N 37'12 20° N 38'41	-5°02'43 5°00'30	superior conj minimum elong behind sun begin	5045 Dec 27 03:27 5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25 5046 Jan 02 16:43	4°る54'57 8°る08'39 8°る16'08 7°る11'23 9°る20'54 13°る07'19	0°09'36
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 02:36 5043 Aug 10 01:39 5043 Aug 15 15:59	26° N 24'35 28° N 37'59 28° N 39'24 23° N 57'39 20° N 22'39 20° N 37'12 20° N 38'41 17° N 14'00	-5°02'43 5°00'30	superior conj minimum elong behind sun begin behind sun end desc. node	5045 Dec 27 03:27 5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25 5046 Jan 02 16:43 5046 Jan 16 03:45	4°ට54'57 8°ට08'39 8°ට16'08 7°ට11'23 9°ට20'54 13°ට07'19 0°≋	0°09'36
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 02:36 5043 Aug 10 01:39 5043 Aug 15 15:59 5043 Sep 01 00:46	26° A24'35 28° A37'59 28° A39'24 23° A57'39 20° A22'39 20° A37'12 20° A38'41 17° A14'00 12° A07'33	-5°02'43 5°00'30 0.28973 AU	superior conj minimum elong behind sun begin behind sun end	5045 Dec 27 03:27 5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25 5046 Jan 02 16:43 5046 Jan 16 03:45 5046 Feb 08 04:55	4°♂54'57 8°♂08'39 8°♂16'08 7°♂11'23 9°♂20'54 13°♂07'19 0°≈ 28°≈56'19	0°09'36
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desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 02:36 5043 Aug 10 01:39 5043 Aug 15 15:59 5043 Sep 01 00:46 5043 Sep 11 04:03 5043 Oct 06 13:12	26°N24'35 28°N37'59 28°N39'24 23°N57'39 20°N22'39 20°N37'12 20°N38'41 17°N14'00 12°N07'33 13°N58'43 0°M	-5°02'43 5°00'30 0.28973 AU -4.7m	superior conj minimum elong behind sun begin behind sun end desc. node	5045 Dec 27 03:27 5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25 5046 Jan 02 16:43 5046 Jan 16 03:45 5046 Feb 08 04:55 5046 Feb 09 01:12 5046 Mar 04 22:47	4°♂54'57 8°♂08'39 8°♂16'08 7°♂11'23 9°♂20'54 13°♂07'19 0°≈ 28°≈56'19 0°升 0°Υ	0°09'36
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 02:36 5043 Aug 10 01:39 5043 Aug 15 15:59 5043 Sep 01 00:46 5043 Sep 11 04:03 5043 Oct 06 13:12 5043 Oct 19 23:15	26° A 24'35 28° A 37'59 28° A 39'24 23° A 57'39 20° A 22'39 20° A 37'12 20° A 38'41 17° A 14'00 12° A 07'33 13° A 58'43 0° M 12° M 09'30	-5°02'43 5°00'30 0.28973 AU -4.7m	superior conj minimum elong behind sun begin behind sun end desc. node	5045 Dec 27 03:27 5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25 5046 Jan 02 16:43 5046 Feb 08 04:55 5046 Feb 09 01:12 5046 Mar 04 22:47 5046 Mar 28 22:44	4°♂54'57 8°♂08'39 8°♂16'08 7°♂11'23 9°♂20'54 13°♂07'19 0°≈ 28°≈56'19 0°升 0°Y 0°∀	0°09'36
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 02:36 5043 Aug 10 01:39 5043 Aug 15 15:59 5043 Sep 01 00:46 5043 Sep 11 04:03 5043 Oct 06 13:12 5043 Oct 19 23:15 5043 Nov 06 10:52	26° A 24'35 28° A 37'59 28° A 39'24 23° A 57'39 20° A 22'39 20° A 37'12 20° A 38'41 17° A 14'00 12° A 07'33 13° A 58'43 0° M 12° M 09'30 0° £	-5°02'43 5°00'30 0.28973 AU -4.7m	superior conj minimum elong behind sun begin behind sun end desc. node evening rise	5045 Dec 27 03:27 5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25 5046 Jan 02 16:43 5046 Jan 16 03:45 5046 Feb 08 04:55 5046 Feb 09 01:12 5046 Mar 04 22:47 5046 Mar 28 22:44 5046 Apr 22 04:02	4°♂54'57 8°♂08'39 8°♂16'08 7°♂11'23 9°♂20'54 13°♂07'19 0°≈ 28°≈56'19 0°升 0°Y 0°Y 0°Ы 0°Ⅱ	0°09'36
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 02:36 5043 Aug 10 01:39 5043 Aug 15 15:59 5043 Sep 01 00:46 5043 Sep 11 04:03 5043 Oct 06 13:12 5043 Oct 19 23:15 5043 Nov 06 10:52 5043 Nov 08 23:33	26° A 24'35 28° A 37'59 28° A 39'24 23° A 57'39 20° A 22'39 20° A 37'12 20° A 38'41 17° A 14'00 12° A 07'33 13° A 58'43 0° M 12° M 09'30 0° £ 2° £42'53	-5°02'43 5°00'30 0.28973 AU -4.7m	superior conj minimum elong behind sun begin behind sun end desc. node	5045 Dec 27 03:27 5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25 5046 Jan 02 16:43 5046 Jan 16 03:45 5046 Feb 08 04:55 5046 Feb 09 01:12 5046 Mar 04 22:47 5046 Mar 28 22:44 5046 Apr 22 04:02 5046 Apr 25 18:33	4°♂54'57 8°♂08'39 8°♂16'08 7°♂11'23 9°♂20'54 13°♂07'19 0°≈ 28°≈56'19 0°∀ 0°∀ 0°∀ 0°Ы 0°Ш 4°Ⅲ25'50	0°09'36
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 02:36 5043 Aug 10 01:39 5043 Aug 15 15:59 5043 Sep 01 00:46 5043 Sep 11 04:03 5043 Oct 06 13:12 5043 Oct 19 23:15 5043 Nov 06 10:52	26° A 24'35 28° A 37'59 28° A 39'24 23° A 57'39 20° A 22'39 20° A 37'12 20° A 38'41 17° A 14'00 12° A 07'33 13° A 58'43 0° M 12° M 09'30 0° \overline{D} 2° \overline{D} 42'53 0° M	-5°02'43 5°00'30 0.28973 AU -4.7m	superior conj minimum elong behind sun begin behind sun end desc. node evening rise	5045 Dec 27 03:27 5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25 5046 Jan 02 16:43 5046 Jan 16 03:45 5046 Feb 08 04:55 5046 Feb 09 01:12 5046 Mar 04 22:47 5046 Mar 28 22:44 5046 Apr 22 04:02	4°♂54'57 8°♂08'39 8°♂16'08 7°♂11'23 9°♂20'54 13°♂07'19 0°≈ 28°≈56'19 0°Y 0°Y 0°Y 0°U 4°Ⅲ25'50 0°©	0°09'36
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desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 02:36 5043 Aug 10 01:39 5043 Aug 15 15:59 5043 Sep 01 00:46 5043 Sep 11 04:03 5043 Oct 06 13:12 5043 Oct 19 23:15 5043 Nov 06 10:52 5043 Nov 08 23:33 5043 Dec 03 06:58	26° A 24'35 28° A 37'59 28° A 39'24 23° A 57'39 20° A 22'39 20° A 37'12 20° A 38'41 17° A 14'00 12° A 07'33 13° A 58'43 0° M 12° M 09'30 0° \overline{D} 2° \overline{D} 42'53 0° M	-5°02'43 5°00'30 0.28973 AU -4.7m	superior conj minimum elong behind sun begin behind sun end desc. node evening rise	5045 Dec 27 03:27 5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25 5046 Jan 02 16:43 5046 Jan 16 03:45 5046 Feb 08 04:55 5046 Feb 09 01:12 5046 Mar 04 22:47 5046 Mar 28 22:44 5046 Apr 22 04:02 5046 Apr 25 18:33 5046 May 16 18:12	4°♂54'57 8°♂08'39 8°♂16'08 7°♂11'23 9°♂20'54 13°♂07'19 0°≈ 28°≈56'19 0°Y 0°Y 0°Y 0°U 4°Ⅲ25'50 0°©	0°09'36
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 02:36 5043 Aug 10 01:39 5043 Aug 15 15:59 5043 Sep 01 00:46 5043 Sep 11 04:03 5043 Oct 06 13:12 5043 Oct 19 23:15 5043 Nov 06 10:52 5043 Nov 08 23:33 5043 Dec 03 06:58 5043 Dec 28 15:03	26° A 24'35 28° A 37'59 28° A 39'24 23° A 57'39 20° A 22'39 20° A 37'12 20° A 38'41 17° A 14'00 12° A 07'33 13° A 58'43 0° M 12° M 09'30 0° \( \oldsymbol{\Omega}\) 2° \( \oldsymbol{\Omega}\) 2° \( \oldsymbol{\Omega}\) 0° \( \oldsymbol{\Omega}\) 0° \( \oldsymbol{\Omega}\)	-5°02'43 5°00'30 0.28973 AU -4.7m	superior conj minimum elong behind sun begin behind sun end desc. node evening rise	5045 Dec 27 03:27 5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25 5046 Jan 02 16:43 5046 Jan 16 03:45 5046 Feb 08 04:55 5046 Feb 09 01:12 5046 Mar 04 22:47 5046 Mar 28 22:44 5046 Apr 22 04:02 5046 Apr 25 18:33 5046 May 16 18:12 5046 Jun 10 22:01	4°♂54'57 8°♂08'39 8°♂16'08 7°♂11'23 9°♂20'54 13°♂07'19 0°≈ 28°≈56'19 0°Y 0°Y 0°Y 0°U 4°Ⅲ25'50 0°©	0°09'36
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 02:36 5043 Aug 10 01:39 5043 Aug 15 15:59 5043 Sep 01 00:46 5043 Sep 11 04:03 5043 Oct 06 13:12 5043 Oct 19 23:15 5043 Nov 06 10:52 5043 Nov 08 23:33 5043 Dec 03 06:58 5043 Dec 28 15:03 5044 Jan 22 05:41	26° A 24'35 28° A 37'59 28° A 39'24 23° A 57'39 20° A 22'39 20° A 37'12 20° A 38'41 17° A 14'00 12° A 07'33 13° A 58'43 0° M 12° M 09'30 0° Ω 2° Ω 42'53 0° M 0° ⊀ 0° ⊀	-5°02'43 5°00'30 0.28973 AU -4.7m	superior conj minimum elong behind sun begin behind sun end desc. node evening rise	5045 Dec 27 03:27  5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25 5046 Jan 02 16:43 5046 Jan 16 03:45 5046 Feb 08 04:55 5046 Feb 09 01:12 5046 Mar 04 22:47 5046 Mar 28 22:44 5046 Apr 22 04:02 5046 Apr 25 18:33 5046 May 16 18:12 5046 Jun 10 22:01 5046 Jul 07 00:52	4°♂54'57  8°♂08'39 8°♂16'08 7°♂11'23 9°♂20'54 13°♂07'19 0°≈ 28°≈56'19 0°भ 0°भ 0°भ 0°भ 0°॥ 4°Ⅲ25'50 0°ጭ 0°ብ	0°09'36
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 02:36 5043 Aug 10 01:39 5043 Aug 15 15:59 5043 Sep 01 00:46 5043 Sep 11 04:03 5043 Oct 06 13:12 5043 Nov 06 10:52 5043 Nov 08 23:33 5043 Dec 03 06:58 5043 Dec 28 15:03 5044 Feb 15 11:25	26° A 24'35 28° A 37'59 28° A 39'24 23° A 57'39 20° A 22'39 20° A 37'12 20° A 38'41 17° A 14'00 12° A 07'33 13° A 58'43 0° M 12° M 09'30 0° Ω 2° Ω 42'53 0° M 0° ⊀ 0° ♂ 0° ♂	-5°02'43 5°00'30 0.28973 AU -4.7m	superior conj minimum elong behind sun begin behind sun end desc. node evening rise	5045 Dec 27 03:27  5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25 5046 Jan 02 16:43 5046 Jan 16 03:45 5046 Feb 08 04:55 5046 Feb 09 01:12 5046 Mar 04 22:47 5046 Apr 22 04:02 5046 Apr 25 18:33 5046 May 16 18:12 5046 Jun 10 22:01 5046 Jul 07 00:52 5046 Aug 04 04:24 5046 Aug 10 09:02	4°♂54'57  8°♂08'39 8°♂16'08 7°♂11'23 9°♂20'54 13°♂07'19 0°≈ 28°≈56'19 0°升 0°升 0°升 0°出 4°Ⅱ25'50 0°勁 0°凡	0°09'36 0°09'30
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desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 02:36 5043 Aug 10 01:39 5043 Aug 15 15:59 5043 Sep 01 00:46 5043 Sep 11 04:03 5043 Oct 06 13:12 5043 Oct 19 23:15 5043 Nov 06 10:52 5043 Nov 08 23:33 5043 Dec 03 06:58 5043 Dec 28 15:03 5044 Jan 22 05:41 5044 Feb 15 11:25 5044 Feb 28 14:28 5044 Mar 10 12:42 5044 Apr 03 12:17	26° A 24'35 28° A 37'59 28° A 39'24 23° A 57'39 20° A 22'39 20° A 37'12 20° A 38'41 17° A 14'00 12° A 07'33 13° A 58'43 0° M 12° M 09'30 0° Ω 2° Ω 42'53 0° M 0° ズ 0° ℧ 0° ズ	-5°02'43 5°00'30 0.28973 AU -4.7m	superior conj minimum elong behind sun begin behind sun end desc. node evening rise  asc. node  evening max el desc. node	5045 Dec 27 03:27  5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25 5046 Jan 02 16:43 5046 Jan 16 03:45 5046 Feb 08 04:55 5046 Feb 09 01:12 5046 Mar 04 22:47 5046 Mar 28 22:44 5046 Apr 22 04:02 5046 Apr 25 18:33 5046 May 16 18:12 5046 Jun 10 22:01 5046 Jul 07 00:52 5046 Aug 04 04:24 5046 Aug 10 09:02 5046 Aug 15 09:33 5046 Sep 09 11:05	4°♂54'57  8°♂08'39 8°♂16'08 7°♂11'23 9°♂20'54 13°♂07'19 0°≈ 28°≈56'19 0°∀ 0°∀ 0°∀ 0°B 0°∏ 4°∏25'50 0°© 0°Ω 0°™ 0°Ω 6°Ω03'53 10°Ω46'39 0°™	0°09'36 0°09'30 45°32'06
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 02:36 5043 Aug 10 01:39 5043 Aug 15 15:59 5043 Sep 01 00:46 5043 Sep 11 04:03 5043 Oct 06 13:12 5043 Oct 19 23:15 5043 Nov 06 10:52 5043 Nov 08 23:33 5043 Dec 03 06:58 5043 Dec 28 15:03 5044 Jan 22 05:41 5044 Feb 15 11:25 5044 Feb 28 14:28 5044 Apr 03 12:17 5044 Apr 22 20:13	26° A24'35 28° A37'59 28° A39'24 23° A57'39 20° A22'39 20° A37'12 20° A38'41 17° A14'00 12° A07'33 13° A58'43 0° M 12° M09'30 0° Ω 2° Ω42'53 0° M 0° ⊀ 0° ⊀ 0° ★ 0° ★ 0° ★ 16° ≈ 21'08 0° 升 0° Y 24° Y10'22	-5°02'43 5°00'30 0.28973 AU -4.7m	superior conj minimum elong behind sun begin behind sun end desc. node evening rise  asc. node  evening max el desc. node greatest brilliancy	5045 Dec 27 03:27  5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25 5046 Jan 02 16:43 5046 Feb 08 04:55 5046 Feb 09 01:12 5046 Mar 04 22:47 5046 Mar 28 22:44 5046 Apr 22 04:02 5046 Apr 25 18:33 5046 May 16 18:12 5046 Jun 10 22:01 5046 Jul 07 00:52 5046 Aug 04 04:24 5046 Aug 10 09:02 5046 Aug 15 09:33 5046 Sep 09 11:05 5046 Sep 18 07:25	4°♂54'57  8°♂08'39 8°♂16'08 7°♂11'23 9°♂20'54 13°♂07'19 0°≈ 28°≈56'19 0°∀ 0°∀ 0°∀ 0°B 0°∏ 4°∏25'50 0°© 0°Ω 0°™ 0°Ω 6°Ω03'53 10°Ω46'39 0°™ 4°™01'49	0°09'36 0°09'30
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 02:36 5043 Aug 10 01:39 5043 Aug 15 15:59 5043 Sep 01 00:46 5043 Sep 11 04:03 5043 Oct 06 13:12 5043 Oct 19 23:15 5043 Nov 06 10:52 5043 Nov 08 23:33 5043 Dec 03 06:58 5043 Dec 28 15:03 5044 Jan 22 05:41 5044 Feb 15 11:25 5044 Mar 10 12:42 5044 Apr 03 12:17 5044 Apr 27 12:11	26° A24'35 28° A37'59 28° A39'24 23° A57'39 20° A22'39 20° A37'12 20° A38'41 17° A14'00 12° A07'33 13° A58'43 0° M 12° M09'30 0° Ω 2° Ω42'53 0° M 0° ズ	-5°02'43 5°00'30 0.28973 AU -4.7m	superior conj minimum elong behind sun begin behind sun end desc. node evening rise  asc. node  evening max el desc. node	5045 Dec 27 03:27  5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25 5046 Jan 02 16:43 5046 Feb 08 04:55 5046 Feb 09 01:12 5046 Mar 04 22:47 5046 Mar 28 22:44 5046 Apr 22 04:02 5046 Apr 25 18:33 5046 May 16 18:12 5046 Jun 10 22:01 5046 Jul 07 00:52 5046 Aug 04 04:24 5046 Aug 10 09:02 5046 Aug 15 09:33 5046 Sep 09 11:05 5046 Sep 18 07:25 5046 Sep 27 23:18	4°♂54'57  8°♂08'39 8°♂16'08 7°♂11'23 9°♂20'54 13°♂07'19 0°≈ 28°≈56'19 0°∀ 0°∀ 0°Ы 4°∏25'50 0°© 0°Д 0°™ 0°Ф 6°Ф03'53 10°Ф46'39 0°™ 4°™01'49 5°™42'45	0°09'36 0°09'30 45°32'06
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desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node  desc. node	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 01:39 5043 Aug 10 01:39 5043 Aug 15 15:59 5043 Sep 01 00:46 5043 Sep 11 04:03 5043 Oct 06 13:12 5043 Oct 19 23:15 5043 Nov 06 10:52 5043 Nov 08 23:33 5043 Dec 03 06:58 5043 Dec 28 15:03 5044 Jan 22 05:41 5044 Feb 15 11:25 5044 Feb 28 14:28 5044 Apr 03 12:17 5044 Apr 22 20:13 5044 Apr 27 12:11 5044 May 21 14:01	26° A 24'35 28° A 37'59 28° A 39'24 23° A 57'39 20° A 22'39 20° A 37'12 20° A 38'41 17° A 14'00 12° A 07'33 13° A 58'43 0° M 12° M 09'30 0° Ω 2° Ω 42'53 0° M 0° X	-5°02'43 5°00'30 0.28973 AU -4.7m 45°50'30	superior conj minimum elong behind sun begin behind sun end desc. node evening rise  asc. node  evening max el desc. node greatest brilliancy retrograde evening set	5045 Dec 27 03:27  5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25 5046 Jan 02 16:43 5046 Jan 16 03:45 5046 Feb 08 04:55 5046 Feb 09 01:12 5046 Mar 04 22:47 5046 Mar 28 22:44 5046 Apr 22 04:02 5046 Apr 25 18:33 5046 May 16 18:12 5046 Jun 10 22:01 5046 Jul 07 00:52 5046 Aug 04 04:24 5046 Aug 10 09:02 5046 Aug 15 09:33 5046 Sep 09 11:05 5046 Sep 18 07:25 5046 Sep 27 23:18 5046 Oct 15 10:57 5046 Oct 16 00:53	4°♂54'57  8°♂08'39 8°♂16'08 7°♂11'23 9°♂20'54 13°♂07'19 0°≈ 28°≈56'19 0°भ 0°भ 0°भ 4°Щ25'50 0°% 0°M 0°  0°  0°  0°  0°  0°  0°  0°  0°  0°	0°09'36 0°09'30 45°32'06 -4.7m
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desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node  desc. node  superior conj minimum elong	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 01:39 5043 Aug 15 15:59 5043 Sep 01 00:46 5043 Sep 11 04:03 5043 Oct 06 13:12 5043 Oct 19 23:15 5043 Nov 06 10:52 5043 Nov 08 23:33 5043 Dec 03 06:58 5043 Dec 28 15:03 5044 Jan 22 05:41 5044 Feb 15 11:25 5044 Feb 28 14:28 5044 Apr 03 12:17 5044 Apr 27 12:11 5044 May 31 22:25 5044 May 31 22:25 5044 May 31 22:25 5044 May 31 22:25 5044 May 31 22:25	26° A 24'35 28° A 37'59 28° A 39'24 23° A 57'39 20° A 22'39 20° A 37'12 20° A 38'41 17° A 14'00 12° A 07'33 13° A 58'43 0° M 12° M 09'30 0° Ω 2° Ω 42'53 0° M 0° ズ 16° ≈ 21'08 0° ϒ 24° Υ 10'22 0° ϒ 0° Π 12° II 51'08 13° II 19'43	-5°02'43 5°00'30 0.28973 AU -4.7m 45°50'30	superior conj minimum elong behind sun begin behind sun end desc. node evening rise  asc. node  evening max el desc. node greatest brilliancy retrograde  evening set inferior conj minimum elong	5045 Dec 27 03:27  5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25 5046 Jan 02 16:43 5046 Jan 16 03:45 5046 Feb 08 04:55 5046 Feb 09 01:12 5046 Mar 04 22:47 5046 Mar 28 22:44 5046 Apr 22 04:02 5046 Apr 25 18:33 5046 May 16 18:12 5046 Jun 10 22:01 5046 Jul 07 00:52 5046 Aug 04 04:24 5046 Aug 10 09:02 5046 Aug 15 09:33 5046 Sep 09 11:05 5046 Sep 18 07:25 5046 Oct 15 10:57 5046 Oct 16 00:53 5046 Oct 19 07:56 5046 Oct 19 12:09	8° ₹08'39 8° ₹16'08 7° ₹11'23 9° ₹20'54 13° ₹07'19 0° ≈ 28° ≈56'19 0° ¥ 0° ¥ 0° ¥ 0° ¶ 4° ¶25'50 0° \$ 0° \$ 0° \$ 0° \$ 0° \$ 0° \$ 0° \$ 0°	0°09'36 0°09'30 45°32'06 -4.7m -8°27'53 8°27'38
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desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node  desc. node  superior conj minimum elong	5043 Jul 08 21:07 5043 Jul 18 21:39 5043 Jul 20 00:02 5043 Aug 04 13:29 5043 Aug 10 11:55 5043 Aug 10 02:36 5043 Aug 10 01:39 5043 Aug 15 15:59 5043 Sep 01 00:46 5043 Sep 11 04:03 5043 Oct 06 13:12 5043 Nov 06 10:52 5043 Nov 08 23:33 5043 Dec 03 06:58 5043 Dec 28 15:03 5044 Jan 22 05:41 5044 Feb 15 11:25 5044 Feb 28 14:28 5044 Mar 10 12:42 5044 Apr 03 12:17 5044 Apr 27 12:11 5044 May 21 14:01 5044 May 31 22:25 5044 Jun 01 07:38 5044 Jun 04 06:08 5044 Jun 14 18:41 5044 Jun 20 16:10	26° A 24'35 28° A 37'59 28° A 39'24 23° A 57'39 20° A 22'39 20° A 37'12 20° A 38'41 17° A 14'00 12° A 07'33 13° A 58'43 0° m 12° m 09'30 0° Ω 2° Ω 42'53 0° m 0° X 16° ≈ 21'08 0° X 0° Y 24° Y 10'22 0° X 0° I 12° I 51'08 13° I 19'43 16° I 58'18	-5°02'43 5°00'30 0.28973 AU -4.7m 45°50'30	superior conj minimum elong behind sun begin behind sun end desc. node evening rise  asc. node  evening max el desc. node greatest brilliancy retrograde  evening set inferior conj minimum elong min. Earth dist. morning rise direct	5045 Dec 27 03:27  5045 Dec 29 17:20 5045 Dec 29 19:44 5045 Dec 28 23:03 5045 Dec 30 16:25 5046 Jan 02 16:43 5046 Jan 16 03:45 5046 Feb 08 04:55 5046 Feb 09 01:12 5046 Mar 04 22:47 5046 Mar 28 22:44 5046 Apr 22 04:02 5046 Apr 25 18:33 5046 May 16 18:12 5046 Jun 10 22:01 5046 Jul 07 00:52 5046 Aug 04 04:24 5046 Aug 10 09:02 5046 Aug 15 09:33 5046 Sep 09 11:05 5046 Sep 18 07:25 5046 Sep 18 07:25 5046 Oct 15 10:57 5046 Oct 16 00:53 5046 Oct 19 07:56 5046 Oct 19 12:09 5046 Oct 20 00:12	8° ₹08'39 8° ₹16'08 7° ₹11'23 9° ₹20'54 13° ₹07'19 0° ≈ 28° ≈56'19 0° ¥ 0° ¥ 0° ¥ 0° ¶ 4° ¶25'50 0° © 0° Ω 0° ¶ 0° Ω 0° ¶ 0° Ω 4° № 4° № 4° № 4° № 4° № 4° № 4° № 4° №	0°09'36 0°09'30 45°32'06 -4.7m -8°27'53 8°27'38
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asc. node	5046 Dec 06 11:10	0°M42'00			5049 Jul 18 21:55	0° <b>m</b>	
morning max el	5046 Dec 29 21:41	21°M34'30	46°32'45		5049 Aug 13 04:12	0∘ <b>⊽</b> 0 ıı⁄ı	
morning max ci	5047 Jan 07 01:46	0° <b>x</b> 7	40 32 43		5049 Sep 08 04:35	o° <b>m</b> .	
	5047 Feb 03 00:26	∘ੰਤ		desc. node	5049 Sep 11 21:21	4°M09'51	
	5047 Feb 28 09:28	0° <b>≈</b>		desc. node	5049 Oct 05 15:10	0°×7	
	5047 Mar 25 02:45	0° <b>)</b> €		evening max el	5049 Oct 21 10:00	15° <b>₹</b> 56'01	46°07'03
desc. node	5047 Mar 28 02:23	3° <b>)</b> (39′15		evening man er	5049 Nov 06 01:03	0°ਰ	.0 0, 05
acse. noue	5047 Apr 18 12:50	0°Υ		greatest brilliancy	5049 Nov 30 07:51	14° <b>る</b> 59'03	-4.8m
	5047 May 12 20:15	0°8		retrograde	5049 Dec 09 18:55	16° <b>පි</b> 38'46	
	5047 Jun 06 03:36	0°II		evening set	5049 Dec 24 08:16	12° <b>る</b> 30'05	
	5047 Jun 30 12:01	0°ಅ		inferior conj	5049 Dec 30 11:25	8° <b>ප</b> 55'42	-0°53'46
morning set	5047 Jul 04 07:22	4°9541'04		minimum elong	5049 Dec 30 13:29	8° <b>る</b> 52'34	0°53'06
asc. node	5047 Jul 19 03:59	22°957'50		min. Earth dist.	5049 Dec 30 22:46	8° <b>る</b> 38'24	0.26927 AU
	5047 Jul 24 21:16	$0^{\circ}\Omega$		asc. node	5050 Jan 02 23:05	6°₹49'42	
				morning rise	5050 Jan 05 18:04	5° <b>る</b> 15'23	
superior conj	5047 Aug 10 10:07	20° <b>Ω</b> 20'31	0°49'59	direct	5050 Jan 20 04:08	1° <b>る</b> 06'40	
minimum elong	5047 Aug 10 01:30	19° <b>Ω</b> 54'04	0°49'37	greatest brilliancy	5050 Jan 30 20:19	3° <b>ප</b> 16'00	-4.9m
max. Earth dist.	5047 Aug 10 05:28	20° <b>Ω</b> 06′14	1.73454 AU		5050 Mar 07 12:32	0° <b>≈</b>	
	5047 Aug 18 06:30	0° <b>m</b>		morning max el	5050 Mar 11 19:45	4°≈16'57	46°59'11
	5047 Sep 11 15:24	0∘ <b>ত</b>		_	5050 Apr 04 18:55	0° <b>∀</b>	
evening rise	5047 Sep 15 11:19	4° <b>£</b> 42'51		desc. node	5050 Apr 24 14:21	22° <b>)</b> 40′26	
	5047 Oct 06 00:27	0°M			5050 Apr 30 20:41	$0^{\circ}\Upsilon$	
	5047 Oct 30 10:34	0° <b>∡</b> ¹			5050 May 26 03:15	$9^{\circ}$ 8	
desc. node	5047 Nov 07 19:05	10° <b>√</b> 14'41			5050 Jun 20 01:49	$\Pi^{\circ}0$	
	5047 Nov 23 22:21	ರ°ರ			5050 Jul 14 20:43	0ಂತ	
	5047 Dec 18 12:24	0° <b>≈</b>			5050 Aug 08 12:55	$0^{\circ}\Omega$	
	5048 Jan 12 06:50	0° <b>)</b> €		asc. node	5050 Aug 15 15:58	8° <b>Ω</b> 41'34	
	5048 Feb 06 12:17	$0^{\circ}\mathbf{\Upsilon}$			5050 Sep 02 01:56	o° mp	
asc. node	5048 Feb 28 20:45	25° <b>Ƴ</b> 32'19		morning set	5050 Sep 10 15:19	10° <b>m</b> 30'08	
	5048 Mar 03 22:09	$6^{\circ}B$			5050 Sep 26 11:23	0∘ <b>ত</b>	
evening max el	5048 Mar 18 03:17	14° <b>8</b> 58'37	46°55'55	max. Earth dist.	5050 Oct 14 17:56	22° <b>₽</b> 34'33	1.72928 AU
	5048 Apr 03 01:13	$\Pi^{\circ}0$					
greatest brilliancy	5048 Apr 27 04:16	15° <b>Ⅱ</b> 49'06	-4.8m	superior conj	5050 Oct 17 02:53	25° <b>≏</b> 30'48	1°23'57
retrograde	5048 May 07 14:51	17° <b>Ⅲ</b> 52′03		minimum elong	5050 Oct 17 06:21	25° <b>≙</b> 41'31	1°23'56
evening set	5048 May 23 16:43	12° <b>Ⅱ</b> 49'50			5050 Oct 20 17:50	$0^{\circ}$ M	
inferior conj	5048 May 28 18:02	9° <b>Ⅱ</b> 45'12	5°02'50		5050 Nov 13 22:19	0° <b>∡</b> ¹	
minimum elong	5048 May 29 03:37	9° <b>Ⅱ</b> 30'13	5°00'23	evening rise	5050 Nov 23 16:59	12° <b>₰</b> 08'47	
min. Earth dist.	5048 May 28 15:45	9° <b>Ⅱ</b> 48'47	0.27991 AU	desc. node	5050 Dec 05 06:57	26° <b>≯</b> 32'31	
morning rise	5048 Jun 03 14:50	6° <b>Ⅱ</b> 13'33			5050 Dec 08 01:43	ರ°0	
direct	5048 Jun 18 18:48	1° <b>Ⅱ</b> 44'45			5051 Jan 01 04:26	0° <b>≈</b>	
desc. node	5048 Jun 19 11:41	1° <b>Ⅱ</b> 45'20			5051 Jan 25 07:09	0° <b>)</b> €	
greatest brilliancy	5048 Jun 28 15:20	3° <b>Ⅱ</b> 30′51	-4.8m		5051 Feb 18 11:54	$0^{\circ}\mathbf{\Upsilon}$	
	5048 Aug 04 18:59	$0$ $\circ$ $\odot$			5051 Mar 14 22:53	$9^{\circ}$ 8	
morning max el	5048 Aug 06 16:14	1° <b>©</b> 47'27	45°47'22	asc. node	5051 Mar 28 08:37	16° <b>8</b> 11'37	
	5048 Sep 03 02:15	$0^{\circ}\Omega$			5051 Apr 08 23:18	$\Pi^{\circ}0$	
	5048 Sep 29 20:43	O° Mp			5051 May 05 02:45	$0$ $\circ$ $\odot$	
asc. node	5048 Oct 10 13:42	12° <b>m</b> 25'52		evening max el	5051 May 29 09:04	25°533'14	46°00'12
	5048 Oct 25 10:32	0∘ <b>⊽</b>			5051 Jun 02 23:42	$0^{\circ}\Omega$	
	5048 Nov 19 06:49	0°M		greatest brilliancy	5051 Jul 06 13:09	24° <b>Ω</b> 14'17	-4.7m
	5048 Dec 13 16:03	0° <b>∡</b> ¹		retrograde	5051 Jul 17 16:55	26° <b>Ω</b> 29'29	
	5049 Jan 06 18:41	0°ප		desc. node	5051 Jul 17 23:47	26° <b>Ω</b> 29'24	
desc. node	5049 Jan 30 04:37	29° <b>る</b> 19'23		evening set	5051 Aug 02 03:59	21° <b>Ω</b> 50'42	
	5049 Jan 30 17:34	0° <b>≈</b>		min. Earth dist.	5051 Aug 07 17:23	18° <b>Ω</b> 29'47	0.28943 AU
greatest brilliancy	5049 Feb 01 19:27	2° <b>≈</b> 36'35	-3.9m	inferior conj	5051 Aug 08 04:12	18° <b>Ω</b> 12'50	-4°46'28
morning set	5049 Feb 02 15:04	3° <b>≈</b> 38'10		minimum elong	5051 Aug 07 19:11	18° <b>Ω</b> 26'57	4°44'14
	5049 Feb 23 14:27	0° <b>∀</b>		morning rise	5051 Aug 13 10:45	15° <b>Ω</b> 00'47	
				direct	5051 Aug 29 17:28	9° <b>Ω</b> 58'25	
superior conj	5049 Mar 16 00:02	25° <b>∺</b> 39'35		greatest brilliancy	5051 Sep 08 18:52	11° <b>Ω</b> 48'17	-4.7m
minimum elong	5049 Mar 15 16:39	25° <b>)</b> 16′21			5051 Oct 06 18:11	0° <b>m</b>	
max. Earth dist.	5049 Mar 17 16:04		1.71227 AU	morning max el	5051 Oct 17 15:01	9° <b>™</b> 58'32	45°49'30
	5049 Mar 19 10:53	$0^{\circ}\Upsilon$			5051 Nov 06 04:01	0∘ <b>ত</b>	
	5049 Apr 12 08:38	$9^{\circ}$ 8		asc. node	5051 Nov 08 01:28	2° <b>ჲ</b> 02'45	
evening rise	5049 Apr 25 14:33	16° <b>8</b> 33'24			5051 Dec 02 20:59	$0^{\circ}$ M	
	5049 May 06 09:34	$\Pi^{\circ}0$			5051 Dec 28 03:47	0° <b>∡</b> °	
asc. node	5049 May 23 06:21	20° <b>Ⅲ</b> 54'34			5052 Jan 21 17:46	0° <b>ට</b>	
	5049 May 30 15:11	$0$ $\circ$ $\odot$			5052 Feb 14 23:08	0° <b>≈</b>	
	5049 Jun 24 02:44	$0^{\circ}\Omega$		desc. node	5052 Feb 27 16:33	15° <b>≈</b> 51'25	

	5052 Mar 10 00:12	0° <b>){</b>		desc. node	5054 Aug 14 11:35	9° <b>£</b> 53'25	
	5052 Apr 02 23:36	0° <b>Υ</b>		dese. Hode	5054 Sep 11 09:05	0°M	
morning set	5052 Apr 20 08:23	21° <b>Υ</b> 43'30		greatest brilliancy	5054 Sep 15 21:48	1° <b>M</b> 49'06	-4.7m
morning sec	5052 Apr 26 23:20	0°8		retrograde	5054 Sep 25 14:11	3°M30'55	,
	5052 May 21 01:02	0°II			5054 Oct 09 02:02	30°R <b>Ω</b>	
	.,			evening set	5054 Oct 13 17:15	27° <b>Ω</b> 25'25	
superior conj	5052 May 29 12:45	10° <b>Ⅱ</b> 32'35	-0°48'15	inferior conj	5054 Oct 16 23:36	25° <b>≏</b> 24'41	-8°31'30
minimum elong	5052 May 29 22:22	11° <b>Ⅱ</b> 02'28	0°47'52	minimum elong	5054 Oct 17 03:04	25° <b>₽</b> 19'15	8°31'19
max. Earth dist.	5052 Jun 02 01:18	14° <b>Ⅱ</b> 54'53	1.72534 AU	min. Earth dist.	5054 Oct 17 15:14	25° <b>♀</b> 00'15	0.28751 AU
	5052 Jun 14 05:38	0° <b>©</b>		morning rise	5054 Oct 20 12:40	23° <b>₽</b> 13'11	
asc. node	5052 Jun 19 18:12	6° <b>5</b> 49'35		direct	5054 Nov 07 10:29	17° <b>≙</b> 09'08	
evening rise	5052 Jul 06 15:50	27°5540'14		greatest brilliancy	5054 Nov 18 12:02	19° <b>≏</b> 23'07	-4.8m
	5052 Jul 08 13:15	$0^{\circ}\Omega$		asc. node	5054 Dec 05 13:13	29° <b>≏</b> 31'43	
	5052 Aug 01 23:48	0° <b>m</b> p			5054 Dec 06 03:56	$0^{\circ}$ M	
	5052 Aug 26 13:47	0० <b>ত</b>		morning max el	5054 Dec 27 12:09	19° <b>M</b> 15'05	46°31'21
	5052 Sep 20 08:40	0° <b>M</b>			5055 Jan 06 20:57	0° <b>∡</b> 7	
desc. node	5052 Oct 09 09:13	22°M47'43			5055 Feb 02 15:29	0°ප	
	5052 Oct 15 10:35	0°⊀			5055 Feb 27 22:50	0° <b>≈</b>	
	5052 Nov 09 22:46	0°రె			5055 Mar 24 15:11	0° <b>∀</b>	
	5052 Dec 06 04:48	0° <b>≈</b>		desc. node	5055 Mar 27 04:21	3° <b>∺</b> 07′20	
evening max el	5053 Jan 02 09:55	29° <b>≈</b> 07'04	47°01'23		5055 Apr 18 00:43	$0$ ° $\Upsilon$	
	5053 Jan 03 07:02	0° <b>∀</b>			5055 May 12 07:45	0°8	
asc. node	5053 Jan 30 11:01	23° <b>)(</b> 34'09			5055 Jun 05 14:50	$\Pi$ $^{\circ}0$	
	5053 Feb 11 06:38	$0$ ° $\Upsilon$			5055 Jun 29 23:04	0	
greatest brilliancy	5053 Feb 11 21:58	0° <b>Ƴ</b> 14'26	-4.9m	morning set	5055 Jul 01 23:52	2° <b>©</b> 30'17	
retrograde	5053 Feb 22 00:15	2° <b>Y</b> 10'14		asc. node	5055 Jul 18 06:06	22° <b>©</b> 30'47	
	5053 Mar 04 06:55	30° <b>₹</b> ₩			5055 Jul 24 08:09	$0 {\circ} \Omega$	
evening set	5053 Mar 11 02:29	26° <b>∺</b> 28'46					
min. Earth dist.	5053 Mar 14 01:29	24° <b>) (</b> 40′40	0.27015 AU	superior conj	5055 Aug 08 03:48	18° <b>Ω</b> 14'02	
inferior conj	5053 Mar 14 15:38	24° <b> </b>	8°35'00	minimum elong	5055 Aug 07 19:25	17° <b>Ω</b> 48'15	
minimum elong	5053 Mar 14 08:42	24° <b>∺</b> 29'31	8°34'16	max. Earth dist.	5055 Aug 08 00:24	18° <b>Ω</b> 03'34	1.73447 AU
morning rise	5053 Mar 17 15:06	22° <b>)</b> 29'44			5055 Aug 17 17:19	0° <b>m</b> )	
direct	5053 Apr 04 05:22	16° <b>)</b> ₹34'43			5055 Sep 11 02:15	0∘ <b>ত</b>	
greatest brilliancy	5053 Apr 13 09:33	18° <b>)</b> 10′28	-4.9m	evening rise	5055 Sep 13 05:22	2° <b>△</b> 37'15	
	5053 May 03 12:30	0° <b>Υ</b>			5055 Oct 05 11:30	0° <b>™</b>	
desc. node	5053 May 22 01:59	16° <b>Y</b> 29'32			5055 Oct 29 21:56	0° <b>∡</b>	
morning max el	5053 May 24 03:44	18° <b>Ƴ</b> 31′29	46°29'12	desc. node	5055 Nov 06 21:04	9° <b>∡</b> ¹45'35	
	5053 Jun 04 09:57	0° <b>8</b>			5055 Nov 23 10:10	0°る	
	5053 Jul 01 20:03	0°II			5055 Dec 18 00:48	0° <b>≈</b>	
	5053 Jul 27 22:46	0° <b>©</b>			5056 Jan 11 20:06	0° <b>∀</b> 0° <b>Υ</b>	
1	5053 Aug 22 10:17	0° <b>Ω</b>		1	5056 Feb 06 03:07		
asc. node	5053 Sep 12 03:45	24° <b>Ω</b> 48'04		asc. node	5056 Feb 27 22:44	24° <b>Ƴ</b> 49'15	
	5053 Sep 16 11:10	0° <b>m</b> 0° <b>0</b>			5056 Mar 03 16:33	0° <b>8</b>	46957122
	5053 Oct 11 03:08	0° <b>Մ</b> 0° <b>亞</b>		evening max el	5056 Mar 15 16:54	12° <b>8</b> 35'55 0° <b>Ⅱ</b>	40 37 23
marning sat	5053 Nov 04 11:54	17°M32'03		greatest brilliancy	5056 Apr 03 09:47	0 <u>П</u> 13° <b>П</b> 31'51	-4.9m
morning set	5053 Nov 18 15:11 5053 Nov 28 15:36	17 1163203 0° <b>√</b> 7		retrograde	5056 Apr 24 19:56 5056 May 05 06:06	15° <b>Д</b> 34'54	-4.9111
	5053 Nov 28 15:30 5053 Dec 22 16:11	0°る		evening set	5056 May 21 10:29	10° <b>I</b> I28'18	
max. Earth dist.	5053 Dec 24 13:33		1.71652 AU	inferior conj	5056 May 26 08:54	7° <b>П</b> 28'12	5°20'49
max. Lurui uist.	2005 Dec 24 13.33	2 021 34	1.,1002 110	minimum elong	5056 May 26 18:47		5°18'20
superior conj	5053 Dec 27 06:10	5° <b>る</b> 44'07	0°13'18	min. Earth dist.	5056 May 26 06:48	7° <b>П</b> 31'28	0.27966 AU
minimum elong	5053 Dec 27 09:27	5° <b>る</b> 54'23	0°13'10	morning rise	5056 Jun 01 03:23	4° <b>П</b> 00'03	0.27900110
behind sun begin	5053 Dec 26 18:35	5° <b>る</b> 07'52	0 13 10	morning rise	5056 Jun 11 05:07	30°R₩	
behind sun end	5053 Dec 28 00:18	6° <b>る</b> 40'53		direct	5056 Jun 16 08:56	29° <b>8</b> 27'56	
desc. node	5054 Jan 01 18:50	12° <b>る</b> 39'27		desc. node	5056 Jun 18 13:50	29° <b>8</b> 33'35	
	5054 Jan 15 14:49	0°≈			5056 Jun 21 16:21	0°Ⅱ	
evening rise	5054 Feb 05 16:09	26° <b>≈</b> 25'49		greatest brilliancy	5056 Jun 26 05:47	1° <b>Ⅱ</b> 14'35	-4.8m
5 -7	5054 Feb 08 12:22	0° <b>∀</b>		morning max el	5056 Aug 04 07:50	29° <b>∏</b> 35'01	45°48'16
	5054 Mar 04 10:06	0° <b>Υ</b>		<i>5</i> 22	5056 Aug 04 18:16	0.82	- *
	5054 Mar 28 10:14	0°8			5056 Sep 02 18:14	$0^{\circ}\Omega$	
	5054 Apr 21 15:49	0°II			5056 Sep 29 10:08	0° m)	
asc. node	5054 Apr 24 20:27	3° <b>Ⅲ</b> 55′21		asc. node	5056 Oct 09 15:39	11° m 53'56	
	5054 May 16 06:29	0ಂತಾ			5056 Oct 24 22:45	0∘ <del>⊽</del>	
	5054 Jun 10 11:16	$0^{\circ}\Omega$			5056 Nov 18 18:26	$0^{\circ}$ M	
	5054 Jul 06 16:06	0° <b>m</b>			5056 Dec 13 03:21	0° <b>∡</b> ¹	
	5054 Aug 04 01:09	0∘ <b>⊽</b>			5057 Jan 06 05:50	ರ∘ರ	
evening max el	5054 Aug 07 22:50	3° <b>≏</b> 47'46	45°32'02	desc. node	5057 Jan 29 06:39	28° <b>පි</b> 51'01	
-	-						

	5057 I 20 04:20	0900			5050 II. 20 10.20	100 0 44122	
	5057 Jan 30 04:38	0°≈		evening set	5059 Jul 30 18:39	19° <b>Ω</b> 44'22	1020112
morning set	5057 Jan 31 01:47	1°≈06′23		inferior conj	5059 Aug 05 20:30	16° <b>Ω</b> 03'52	
	5057 Feb 23 01:28	0° <b>)</b> €		minimum elong	5059 Aug 05 11:50	16°Ω17'28	
				min. Earth dist.	5059 Aug 05 09:25	16° <b>Ω</b> 21'15	0.28916 AU
superior conj	5057 Mar 13 10:45	23° <b>∺</b> 07'50		morning rise	5059 Aug 11 05:24	12° <b>Ω</b> 48'17	
minimum elong	5057 Mar 13 02:29	22° <b>)</b> (41′51	1°21'04	direct	5059 Aug 27 09:54	7° <b>Ω</b> 50′07	
max. Earth dist.	5057 Mar 14 23:00	25° <b>∺</b> 01'52	1.71206 AU	greatest brilliancy	5059 Sep 06 09:55	9° <b>Ω</b> 38'40	-4.7m
	5057 Mar 18 21:51	$0$ ° $\Upsilon$			5059 Oct 06 21:08	0° <b>m</b> ∕	
	5057 Apr 11 19:35	$6^\circ$		morning max el	5059 Oct 15 05:58	7° <b>№</b> 46'09	45°48'27
evening rise	5057 Apr 23 02:30	14° <b>8</b> 06'51		•	5059 Nov 05 20:38	0∘ <b>⊽</b>	
8 21	5057 May 05 20:32	0°II		asc. node	5059 Nov 07 03:31	1° <b>£</b> 23'51	
asc. node	5057 May 22 08:24	20° <b>I</b> I26'53		uov. nouv	5059 Dec 02 10:42	0°M	
ase. Houe	5057 May 30 02:15	0°95			5059 Dec 27 16:13	0° <b>⊼</b>	
	•	0°Ω				% ਨ 0 ×	
	5057 Jun 23 14:04				5060 Jan 21 05:32		
	5057 Jul 18 09:45	0° <b>т</b> р			5060 Feb 14 10:32	0° <b>≈</b>	
	5057 Aug 12 16:58	0∘ <b>⊽</b>		desc. node	5060 Feb 26 18:26	15° <b>≈</b> 22'08	
	5057 Sep 07 19:09	0°M₊			5060 Mar 09 11:22	0° <b>∀</b>	
desc. node	5057 Sep 10 23:18	3°M33'33			5060 Apr 02 10:36	$0$ ° $\Upsilon$	
	5057 Oct 05 09:53	0° <b>∡</b> ¹		morning set	5060 Apr 17 20:21	19° <b>Ƴ</b> 16'55	
evening max el	5057 Oct 19 00:37	13° <b>∡</b> ³39′27	46°05'12		5060 Apr 26 10:11	$8^\circ$ 0	
	5057 Nov 06 12:33	0°ප			5060 May 20 11:45	$\Pi^{\circ}0$	
greatest brilliancy	5057 Nov 27 20:27	12° <b>る</b> 35'23	-4.8m		•		
retrograde	5057 Dec 07 08:04	14° <b>る</b> 14'57		superior conj	5060 May 27 03:02	8° <b>Ⅱ</b> 14'46	-0°51'12
evening set	5057 Dec 21 22:38	10° <b>පි</b> 04'14		minimum elong	5060 May 27 03:02 5060 May 27 13:01	8° <b>П</b> 45'46	
•	5057 Dec 21 22:38 5057 Dec 28 00:20	6° <b>る</b> 31'19	1017/25	max. Earth dist.	•	12° <b>∏</b> 49'10	1.72479 AU
inferior conj				max. Earth dist.	5060 May 30 19:28		1.72479 AU
minimum elong	5057 Dec 28 03:17	6° <b>る</b> 26'49			5060 Jun 13 16:16	0°©	
min. Earth dist.	5057 Dec 28 12:31	6° <b>る</b> 12'45	0.26971 AU	asc. node	5060 Jun 18 20:17	6° <b>©</b> 23'13	
asc. node	5058 Jan 02 01:11	3° <b>る</b> 31′54		evening rise	5060 Jul 04 08:39	25° <b>©</b> 31'28	
morning rise	5058 Jan 03 07:24	2° <b>る</b> 50'31			5060 Jul 07 23:54	$0$ ° $\Omega$	
	5058 Jan 09 19:14	30°₹ <b>҂</b> 7			5060 Aug 01 10:34	0° <b>m</b> y	
direct	5058 Jan 17 18:15	28° <b>₰</b> ¹41'40			5060 Aug 26 00:51	0∘ <b>ত</b>	
	5058 Jan 25 23:21	0°ರ			5060 Sep 19 20:14	$0^{\circ}$ M	
greatest brilliancy	5058 Jan 28 10:24	0° <b>る</b> 51'18	-4.9m	desc. node	5060 Oct 08 11:11	22° <b>M</b> 17'17	
	5058 Mar 07 12:32	0° <b>≈</b>			5060 Oct 14 23:01	0° <b>∡</b> ¹	
morning max el	5058 Mar 09 10:27	1°≈55'24	46°59'12		5060 Nov 09 12:38	8°0	
8	5058 Apr 04 11:37	0° <b>)</b> €			5060 Dec 05 21:23	0° <b>≈</b>	
desc. node	5058 Apr 23 16:16	22° <b>)</b> 03'36		evening max el	5060 Dec 30 22:54	26° <b>≈</b> 41'27	47°00'05
dese. Hode	5058 Apr 30 10:43	0°Υ		evening max er	5060 Bec 30 22:34 5061 Jan 03 06:48	0° <b>)</b> €	47 00 05
	•	0°8		1		22° <b>)</b> €08'37	
	5058 May 25 15:55			asc. node	5061 Jan 29 12:57		4.0
	5058 Jun 19 13:39	0°II		greatest brilliancy	5061 Feb 09 11:50	27° <b>)</b> (48'34	-4.9m
	5058 Jul 14 08:01	0ಂ <b>ತಾ</b>		retrograde	5061 Feb 19 12:42	29° <b>)</b> 43′13	
	5058 Aug 07 23:52	$0^{\circ}\Omega$		evening set	5061 Mar 08 11:12	24° <b>∺</b> 08'40	
asc. node	5058 Aug 14 17:52	8° <b>Ω</b> 14'07		min. Earth dist.	5061 Mar 11 14:31	22° <b>ℋ</b> 14'16	0.26980 AU
	5058 Sep 01 12:41	0° <b>m</b>		inferior conj	5061 Mar 12 04:25	21° <b>) €</b> 52'46	8°26'46
morning set	5058 Sep 08 08:53	8° <b>™</b> 23'49		minimum elong	5061 Mar 11 20:46	22° <b>)</b> €04'35	8°25'52
	5058 Sep 25 22:04	0∘ <b>⊽</b>		morning rise	5061 Mar 15 06:30	19° <b>)(</b> 59'41	
max. Earth dist.	5058 Oct 12 11:48	20° <b>£</b> 28'18	1.72962 AU	direct	5061 Apr 01 17:21	14° <b>)</b> 09′02	
				greatest brilliancy	5061 Apr 10 22:52	15° <b>)</b> 45′27	-4.9m
superior conj	5058 Oct 14 20:01	23° <b>£</b> 22'13	1°24'30	· ·	5061 May 04 01:19	$_0$ ° $\Upsilon$	
minimum elong	5058 Oct 14 22:46	23° <b>₽</b> 30'44		desc. node	5061 May 21 04:07	15° <b>Υ</b> 37'11	
minimum ciong	5058 Oct 20 04:32	0°M	1 2420	morning max el	5061 May 21 04:07	16° <b>Υ</b> 05'51	46°30'51
		0° <b>⊼</b> 7		morning max ci		0° <b>8</b>	40 30 31
	5058 Nov 13 09:07				5061 Jun 04 04:59		
evening rise	5058 Nov 21 07:37	9° <b>₹</b> 51'26			5061 Jul 01 10:48	0° <b>I</b>	
desc. node	5058 Dec 04 09:02	26° <b>∡</b> 05'00			5061 Jul 27 11:35	0°€	
	5058 Dec 07 12:40	0°₹			5061 Aug 21 22:04	$0$ ° $\Omega$	
	5058 Dec 31 15:38	0° <b>≈</b>		asc. node	5061 Sep 11 05:44	24° <b>Ω</b> 20′10	
	5059 Jan 24 18:40	0° <b>ℋ</b>			5061 Sep 15 22:21	0° <b>m</b> y	
	5059 Feb 17 23:49	$0$ ° $\mathbf{\Upsilon}$			5061 Oct 10 13:59	0∘ <b>⊽</b>	
	5059 Mar 14 11:25	$9^{\circ}$ 8			5061 Nov 03 22:36	$0^{\circ}$ M	
asc. node	5059 Mar 27 10:33	15° <b>8</b> 38'23		morning set	5061 Nov 16 06:45	15°M18'05	
	5059 Apr 08 12:57	0°II		Ü	5061 Nov 28 02:17	0° <b>∡</b> 7	
	5059 May 04 18:53	0°9		max. Earth dist.	5061 Dec 22 01:04	29° <b>х</b> 54'13	1.71698 AU
evening max el	5059 May 27 01:21	23°S22'09	46°02'02	Zurur dibt.	5061 Dec 22 02:55	0°る	2070 710
Cronnig mux of	5059 Jun 02 23:51	0°Ω	10 02 02		5001 <b>D00</b> 22 02.55	Ų O	
greatest brilliancy	5059 Jul 04 05:42	22° <b>Ω</b> 05'24	-4.7m	superior conj	5061 Dec 24 18:47	3° <b>る</b> 19'45	0°17'01
	5059 Jul 15 09:21	24° <b>Ω</b> 20'14	·T. / III		5061 Dec 24 18.47 5061 Dec 24 22:55	3° <b>る</b> 32'43	0°16'49
retrograde				minimum elong			0 1049
desc. node	5059 Jul 17 01:44	24° <b>Ω</b> 16'53		desc. node	5061 Dec 31 20:52	12° <b>る</b> 12'07	

	5062 Jan 15 01:39	0° <b>≈</b>		greatest brilliancy	5064 Jun 23 19:21	28° <b>8</b> 57'43	-4.8m
evening rise	5062 Feb 03 03:08	0 ∞ 23°≈55'27		greatest offinality	5064 Jun 26 12:12	0° <b>I</b>	-4.0111
evening rise	5062 Feb 07 23:16	0° <b>∺</b>		morning max el	5064 Aug 01 23:51	27° <b>I</b> I24'21	45°49'08
	5062 Mar 03 21:05	0° <b>Υ</b>		morning max cr	5064 Aug 04 16:16	0°95	45 47 00
	5062 Mar 03 21:03 5062 Mar 27 21:23	0°8			5064 Sep 02 09:40	$0^{\circ}\Omega$	
	5062 Apr 21 03:16	0° <b>I</b>			5064 Sep 28 23:10	0° <b>m</b> )	
asc. node	5062 Apr 23 22:33	3° <b>I</b> I26'33		asc. node	5064 Oct 08 17:41	11° <b>m</b> )23'11	
use. Houe	5062 May 15 18:28	0.ಲ		use. Houe	5064 Oct 24 10:39	0∘ <b>ರ</b>	
	5062 Jun 10 00:13	$0^{\circ}\Omega$			5064 Nov 18 05:46	0° <b>M</b>	
	5062 Jul 06 07:10	0° m/y			5064 Dec 12 14:24	0° <b>∡</b> 7	
	5062 Aug 03 22:10	0∘ <u>⊽</u>			5065 Jan 05 16:45	0°ප	
evening max el	5062 Aug 05 13:06	1° <b>≏</b> 33'56	45°32'07	desc. node	5065 Jan 28 08:34	28° <b>る</b> 23'03	
desc. node	5062 Aug 13 13:34	9° <b>ഫ</b> 00'07		morning set	5065 Jan 28 12:42	28° <b>ප</b> 36'01	
greatest brilliancy	5062 Sep 13 11:33	29° <b>≏</b> 37'06	-4.7m		5065 Jan 29 15:28	0° <b>≈</b>	
	5062 Sep 14 16:06	0° <b>M</b>			5065 Feb 22 12:17	0° <b>₩</b>	
retrograde	5062 Sep 23 05:36	1°M20'35					
	5062 Oct 01 11:32	30° <b>₹</b>		superior conj	5065 Mar 10 21:07	20° <b>)</b> 35′23	-1°19'40
evening set	5062 Oct 11 09:16	25° <b>≙</b> 13′28		minimum elong	5065 Mar 10 12:04	20° <b>)</b> €06'57	1°19'30
inferior conj	5062 Oct 14 15:18	23° <b>≙</b> 13′21	-8°34'10	max. Earth dist.	5065 Mar 12 07:07	22° <b>)</b> 22'21	1.71191 AU
minimum elong	5062 Oct 14 18:01	23° <b>ഫ</b> 09'07	8°34'03		5065 Mar 18 08:41	$0$ ° $\Upsilon$	
min. Earth dist.	5062 Oct 15 06:00	22° <b>≏</b> 50'24	0.28800 AU		5065 Apr 11 06:26	0°8	
morning rise	5062 Oct 18 02:32	21° <b>£</b> 04'45		evening rise	5065 Apr 20 13:51	11° <b>8</b> 38'38	
direct	5062 Nov 05 02:14	14° <b>≙</b> 57'04			5065 May 05 07:24	$\Pi$ $^{\circ}0$	
greatest brilliancy	5062 Nov 16 03:57	17° <b>≏</b> 11'09	-4.8m	asc. node	5065 May 21 10:26	19° <b>Ⅱ</b> 59'26	
asc. node	5062 Dec 04 15:18	28° <b>≙</b> 24'31			5065 May 29 13:13	0°€	
	5062 Dec 06 15:05	0° <b>M</b> .			5065 Jun 23 01:16	$0 {\circ} \Omega$	
morning max el	5062 Dec 25 03:30	16°M59'03	46°29'45		5065 Jul 17 21:29	0° <b>m</b>	
	5063 Jan 06 15:19	0°⊀			5065 Aug 12 05:40	0∘ <b>ত</b>	
	5063 Feb 02 06:08	0°₹			5065 Sep 07 09:45	0°M₊	
	5063 Feb 27 11:53	0° <b>≈</b>		desc. node	5065 Sep 10 01:20	2°M57'40	
	5063 Mar 24 03:21	0° <b>∀</b>			5065 Oct 05 04:56	0° <b>∡</b> ¹	
desc. node	5063 Mar 26 06:24	2° <b>)</b> 36′33		evening max el	5065 Oct 16 15:34	11° <b>∡</b> ²24′16	46°03'19
	5063 Apr 17 12:18	0° <b>Υ</b>			5065 Nov 07 03:33	0°₹	
	5063 May 11 18:56	0° <b>8</b>		greatest brilliancy	5065 Nov 25 09:43	10° <b>る</b> 13'34	-4.8m
	5063 Jun 05 01:44	0°II		retrograde	5065 Dec 04 21:01	11° <b>ප</b> 52'13	
	5063 Jun 29 09:45	0°95		evening set	5065 Dec 19 13:22	7° <b>る</b> 39'33	1040120
morning set	5063 Jun 29 16:15	0°520'04		inferior conj	5065 Dec 25 13:27	4°る08'20	
asc. node	5063 Jul 17 08:00	22°504'08		minimum elong	5065 Dec 25 17:16	4°る02'30	
	5063 Jul 23 18:42	$0$ ° $\Omega$		min. Earth dist.	5065 Dec 26 02:37		0.27015 AU
	50(2 A 05 21-20	1.00 00001	0944127	morning rise	5065 Dec 31 20:38	0°る27'02 0°る18'33	
superior conj	5063 Aug 05 21:29	16° <b>Ω</b> 08'24		asc. node	5066 Jan 01 03:02		
minimum elong	5063 Aug 05 13:22	15° <b>Ω</b> 43'28		J: 4	5066 Jan 01 17:19	30°R⊀ <sup>7</sup>	
max. Earth dist.	5063 Aug 05 20:29	16° <b>Ω</b> 05'21	1.73440 AU	direct	5066 Jan 15 08:20	26° <b>₹</b> 18'06 28° <b>₹</b> 27'48	-4.9m
evening rise	5063 Aug 17 03:49 5063 Sep 10 23:38	0°Mp 0° <b>≏</b> 33'16		greatest brilliancy	5066 Jan 26 00:42 5066 Jan 29 12:50	28 x・2748 0°る	-4.9111
evening rise	5063 Sep 10 23:38	0∘ <b>ರ</b> ೧ <b>ವ</b> ೨೨ 10		morning max el	5066 Mar 07 00:20	0 3 29° <b>る</b> 32'17	46°59'00
	5063 Oct 04 22:14	0°M		morning max ci	5066 Mar 07 11:16	29 <b>3</b> 2 17 0° <b>≈</b>	40 39 00
	5063 Oct 04 22:14 5063 Oct 29 08:59	0° <b>∡</b> 7			5066 Apr 04 03:54	0° <b>∺</b>	
desc. node	5063 Nov 05 23:13	9° <b>×</b> 17'58		desc. node	5066 Apr 22 18:24	21° <b>)</b> 27'49	
dese. node	5063 Nov 22 21:41	0° <b>ਰ</b>		dese. node	5066 Apr 30 00:35	0°Υ	
	5063 Dec 17 12:57	0° <b>≈</b>			5066 May 25 04:31	0°8	
	5064 Jan 11 09:14	0° <b>)</b> €			5066 Jun 19 01:28	0°II	
	5064 Feb 05 17:58	$0^{\circ}\Upsilon$			5066 Jul 13 19:16	0°9	
asc. node	5064 Feb 27 00:42	24° <b>Y</b> 05'56			5066 Aug 07 10:46	$0^{\circ}\Omega$	
	5064 Mar 03 11:18	0°8		asc. node	5066 Aug 13 19:53	7° <b>Ω</b> 47'12	
evening max el	5064 Mar 13 07:27	10° <b>8</b> 15'53	46°58'53		5066 Aug 31 23:22	0° m)	
Č	5064 Apr 03 21:16	0° <b>I</b> I		morning set	5066 Sep 06 02:25	6° m) 17'32	
greatest brilliancy	5064 Apr 22 11:09	11° <b>Ⅱ</b> 14'13	-4.9m	-	5066 Sep 25 08:42	0∘ <del>⊽</del>	
retrograde	5064 May 02 21:42	13° <b>Ⅱ</b> 17'38		max. Earth dist.	5066 Oct 10 04:18		1.72997 AU
evening set	5064 May 19 04:13	8° <b>Ⅱ</b> 06'37					
inferior conj	5064 May 23 23:34	5° <b>Ⅱ</b> 11'04	5°38'19	superior conj	5066 Oct 12 13:21	21° <b>≏</b> 14'26	1°24'54
minimum elong	5064 May 24 09:43	4° <b>Ⅱ</b> 55'15	5°35'52	minimum elong	5066 Oct 12 15:24	21° <b>≏</b> 20'45	1°24'54
min. Earth dist.	5064 May 23 21:17	5° <b>Ⅱ</b> 14'38	0.27936 AU		5066 Oct 19 15:12	0° <b>M</b> ₊	
morning rise	5064 May 29 15:33	1° <b>Ⅱ</b> 46′52			5066 Nov 12 19:54	0° <b>∡</b> ¹	
	5064 Jun 02 02:59	30° <b>₹</b> 8		evening rise	5066 Nov 18 22:35	7° <b>∡</b> ³35′12	
direct	5064 Jun 13 23:20	27° <b>8</b> 11'14		desc. node	5066 Dec 03 11:02	25° <b>∡</b> ³37'15	
desc. node	5064 Jun 17 15:50	27° <b>8</b> 26'59			5066 Dec 06 23:38	0°₹	

	5066 D 21 02 40	00.		,	5060 0 10 07 10	220 0 5 11 4 7	
	5066 Dec 31 02:49	0° <b>≈</b>		asc. node	5069 Sep 10 07:49	23° <b>Ω</b> 51'47	
	5067 Jan 24 06:08	0° <b>∀</b>			5069 Sep 15 09:46	0° <b>m</b> ∕	
	5067 Feb 17 11:43	$0$ ° $\mathbf{\Lambda}$			5069 Oct 10 01:04	0∘ <b>⊽</b>	
	5067 Mar 13 23:57	$9^{\circ}$ 8			5069 Nov 03 09:31	0°M₊	
asc. node	5067 Mar 26 12:38	15° <b>8</b> 05'28		morning set	5069 Nov 13 22:27	13°M03'53	
	5067 Apr 08 02:43	$\Pi^{\circ}$			5069 Nov 27 13:12	0° <b>∡</b> ¹	
	5067 May 04 11:24	0°ಅ		max. Earth dist.	5069 Dec 19 15:09	27° <b>∡</b> ³33'49	1.71743 AU
evening max el	5067 May 24 16:59	21° <b>©</b> 08'53	46°03'47		5069 Dec 21 13:54	გ∘ე	
S	5067 Jun 03 01:28	$0^{\circ}\Omega$					
greatest brilliancy	5067 Jul 01 22:51	19° <b>Ω</b> 56′29	-4.8m	superior conj	5069 Dec 22 07:33	0° <b>る</b> 55'14	0°20'39
retrograde	5067 Jul 13 01:25	22° <b>Ω</b> 10'29	1.0111	minimum elong	5069 Dec 22 12:31	1° <b>る</b> 10'45	
desc. node	5067 Jul 16 03:42	21°Ω59'06		desc. node	5069 Dec 30 22:47	11°る43'39	0 20 20
				desc. Hode		0°≈	
evening set	5067 Jul 28 09:27	17° <b>Ω</b> 37'15	0.20004.433		5070 Jan 14 12:44		
min. Earth dist.	5067 Aug 03 01:52		0.28884 AU	evening rise	5070 Jan 31 14:22	21°≈25'08	
inferior conj	5067 Aug 03 12:49	13° <b>Ω</b> 54'33			5070 Feb 07 10:27	0° <b>∀</b>	
minimum elong	5067 Aug 03 04:31	14° <b>Ω</b> 07'35	4°10'27		5070 Mar 03 08:23	0° <b>Υ</b>	
morning rise	5067 Aug 08 23:58	10° <b>Ω</b> 35'29			5070 Mar 27 08:50	$9^{\circ}$ 8	
direct	5067 Aug 25 01:45	5° <b>Ω</b> 41'23			5070 Apr 20 15:00	$\Pi$ $\circ$ 0	
greatest brilliancy	5067 Sep 04 01:28	7° <b>Ω</b> 29'11	-4.7m	asc. node	5070 Apr 23 00:34	2° <b>Ⅱ</b> 56'39	
	5067 Oct 06 22:41	0° <b>m</b>			5070 May 15 06:43	$0$ $\circ$ $\odot$	
morning max el	5067 Oct 12 20:18	5° Mp 32'04	45°47'32		5070 Jun 09 13:30	$0^{\circ}\Omega$	
	5067 Nov 05 13:01	0∘ <b>ত</b>			5070 Jul 05 22:43	o°mp	
asc. node	5067 Nov 06 05:36	0° <b>£</b> 45'18		evening max el	5070 Aug 03 04:24	29° m) 21'49	45°32'10
	5067 Dec 02 00:21	0°M		v , v 8 v .	5070 Aug 03 20:21	0∘ <b>⊽</b>	
	5067 Dec 27 04:40	0° <b>∡</b> 7		desc. node	5070 Aug 12 15:38	8° <b>亞</b> 05'00	
	5068 Jan 20 17:22	0°ਤ		greatest brilliancy	5070 Sep 11 00:53	27° <b>≏</b> 23'49	-4.7m
					-		-4./111
	5068 Feb 13 22:00	0°≈		retrograde	5070 Sep 20 21:30	29° <b>Ω</b> 09'24	
desc. node	5068 Feb 25 20:32	14°≈53'19		evening set	5070 Oct 09 01:01	23° <b>Ω</b> 01'13	000 (100
	5068 Mar 08 22:36	0° <b>)</b> (		inferior conj	5070 Oct 12 07:03	21° <b>Ω</b> 01'08	
	5068 Apr 01 21:38	0° <b>Υ</b>		minimum elong	5070 Oct 12 08:59	20° <b>≙</b> 58'08	8°36'00
morning set	5068 Apr 15 08:31	16° <b>Y</b> 50'37		min. Earth dist.	5070 Oct 12 20:29	20° <b>≏</b> 40'12	0.28846 AU
	5068 Apr 25 21:05	0°8		morning rise	5070 Oct 15 16:45	18° <b>≏</b> 55'01	
	5068 May 19 22:34	$\Pi$ $\circ 0$		direct	5070 Nov 02 18:32	12° <b>≏</b> 44'20	
				greatest brilliancy	5070 Nov 13 19:24	14° <b>♀</b> 57'53	-4.8m
				greatest offinaley	30/0 NOV 13 19.24	14 == 37 33	- <del>-</del> 0111
superior conj	5068 May 24 17:25	5° <b>Ⅱ</b> 56'50	-0°54'03	asc. node	5070 Dec 03 17:12	27° <b>£</b> 17'48	- <del>1</del> .0111
superior conj minimum elong	5068 May 24 17:25 5068 May 25 03:42	5°Ⅲ56'50 6°Ⅲ28'46					- <del>4</del> .0111
	•				5070 Dec 03 17:12	27° <b>≏</b> 17'48	46°28'07
minimum elong	5068 May 25 03:42	6° <b>Ⅱ</b> 28'46	0°53'41	asc. node	5070 Dec 03 17:12 5070 Dec 06 23:40	27° <b>£</b> 17'48 0° <b>M</b> ₊	
minimum elong	5068 May 25 03:42 5068 May 28 11:44	6° <b>Ⅱ</b> 28'46 10° <b>Ⅲ</b> 37'13	0°53'41	asc. node	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42	27° <b>£</b> 17'48 0° <b>M</b> 14° <b>M</b> 44'27	
minimum elong max. Earth dist.	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12	6°Ⅱ28'46 10°Ⅲ37'13 0°ᢒ 5°ᢒ55'48	0°53'41	asc. node	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54	27° <b>ച</b> 17'48 0°ጤ 14°ጤ44'27 0°\$ 0°\$	
minimum elong max. Earth dist.	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17	6°II28'46 10°II37'13 0°S 5°S55'48 23°S21'33	0°53'41	asc. node	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08	27° <b>£</b> 17'48 0° <b>M</b> 14° <b>M</b> 44'27 0° <b>♂</b> 0° <b>♂</b>	
minimum elong max. Earth dist.	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44	6°∏28'46 10°∏37'13 0°© 5°©55'48 23°©21'33 0°Ω	0°53'41	asc. node morning max el	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46	27° <b>£</b> 17'48 0° <b>M</b> 14° <b>M</b> 44'27 0° <b>₹</b> 0° <b>5</b> 0°≈ 0° <b>¥</b>	
minimum elong max. Earth dist.	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33	6°I28'46 10°I37'13 0°S 5°S55'48 23°S21'33 0°N 0°M	0°53'41	asc. node	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26	27° № 17'48 0° M 14° M 44'27 0° ₹ 0° ₹ 0° ₹ 0° ₹ 2° ¥ 04'49	
minimum elong max. Earth dist.	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33 5068 Aug 25 12:07	6°I28'46 10°I37'13 0°S 5°S55'48 23°S21'33 0°N 0°M	0°53'41	asc. node morning max el	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26 5071 Apr 17 00:10	27° <b>2</b> 17'48 0° <b>M</b> 14° <b>M</b> 44'27 0° <b>X</b> 0° <b>X</b> 0° <b>X</b> 0° <b>X</b> 0° <b>X</b> 0° <b>X</b> 0° <b>X</b> 0° <b>X</b>	
minimum elong max. Earth dist. asc. node evening rise	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33 5068 Aug 25 12:07 5068 Sep 19 08:01	6°I28'46 10°I37'13 0°S 5°S55'48 23°S21'33 0°N 0°M 0°S 0°M	0°53'41	asc. node morning max el	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26 5071 Apr 17 00:10 5071 May 11 06:25	27°至17'48 0°M 14°M44'27 0°ズ 0°ズ 0°※ 0°※ 0°米 2°升04'49 0°Υ 0°∀	
minimum elong max. Earth dist.	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33 5068 Aug 25 12:07 5068 Sep 19 08:01 5068 Oct 07 13:19	6°I28'46 10°I37'13 0°S 5°S55'48 23°S21'33 0°N 0°M 0°B 21°M46'42	0°53'41	asc. node morning max el desc. node	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26 5071 Apr 17 00:10 5071 May 11 06:25 5071 Jun 04 12:55	27°至17'48 0°M 14°M,44'27 0°ズ 0°ズ 0°※ 0°米 2°米04'49 0°Y 0°B 0°I	
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minimum elong max. Earth dist. asc. node evening rise	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33 5068 Aug 25 12:07 5068 Sep 19 08:01 5068 Oct 07 13:19 5068 Oct 14 11:41 5068 Nov 09 02:50 5068 Dec 05 14:30 5068 Dec 28 11:33	6°I28'46 10°I37'13 0°S 5°S55'48 23°S21'33 0°N 0°N 0°S 0°M 21°M46'42 0°X 0°S 0°≈ 24°≈14'35 0°H 20°H39'49	0°53'41 1.72429 AU 46°58'44	asc. node morning max el  desc. node morning set	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26 5071 Apr 17 00:10 5071 May 11 06:25 5071 Jun 04 12:55 5071 Jun 27 08:54 5071 Jun 28 20:43 5071 Jul 16 10:02	27° \$\Delta 17'48\\ 0° \mathbb{M}\\ 14° \mathbb{M} 44'27\\ 0° \$\delta'\\ 0° \mathbb{M}\\ 2° \mathbb{M} 04'49\\ 0° \mathbb{M}\\ 28° \mathbb{M} 09'41\\ 0° \mathbb{G}\\ 21° \mathbb{G} 37'02\\ 0° \Lambda\\ 14° \Lambda 02'22	46°28'07 0°41'50
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minimum elong max. Earth dist.  asc. node evening rise  desc. node evening max el asc. node	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33 5068 Aug 25 12:07 5068 Sep 19 08:01 5068 Oct 07 13:19 5068 Oct 14 11:41 5068 Nov 09 02:50 5068 Dec 05 14:30 5068 Dec 28 11:33 5069 Jan 03 07:59 5069 Jan 28 15:00	6°I28'46 10°I37'13 0°S 5°S55'48 23°S21'33 0°N 0°N 0°S 0°M 21°M46'42 0°X 0°S 0°≈ 24°≈14'35 0°H 20°H39'49	0°53'41 1.72429 AU 46°58'44	asc. node morning max el  desc. node morning set asc. node	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26 5071 Apr 17 00:10 5071 May 11 06:25 5071 Jun 04 12:55 5071 Jun 27 08:54 5071 Jun 28 20:43 5071 Jul 16 10:02 5071 Jul 23 05:31 5071 Aug 03 15:19	27° № 17'48 0° M. 14° M.44'27 0° ⊀ 0° ♂ 0° ⇔ 0° ¥ 2° ¥04'49 0° ♀ 0° ¥ 28° M.09'41 0° ☺ 21° ☺ 37'02 0° Ω 14° € 02'22 13° € 38'25	46°28'07 0°41'50
minimum elong max. Earth dist.  asc. node evening rise  desc. node  evening max el  asc. node greatest brilliancy	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33 5068 Aug 25 12:07 5068 Sep 19 08:01 5068 Oct 07 13:19 5068 Oct 14 11:41 5068 Nov 09 02:50 5068 Dec 05 14:30 5068 Dec 28 11:33 5069 Jan 03 07:59 5069 Feb 07 01:42	6°用28'46 10°用37'13 0°ឆ 5°ឆ55'48 23°ឆ21'33 0°Ω 0°™ 0°ឆ 0°™ 21°™46'42 0°ズ 0°उ 0°अ 24°≈14'35 0°H 20°H39'49 25°H32'08	0°53'41 1.72429 AU 46°58'44	asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26 5071 Apr 17 00:10 5071 May 11 06:25 5071 Jun 04 12:55 5071 Jun 27 08:54 5071 Jun 28 20:43 5071 Jul 16 10:02 5071 Jul 23 05:31 5071 Aug 03 15:19 5071 Aug 03 07:32	27° № 17'48 0° M. 14° M.44'27 0° ⊀ 0° ♂ 0° ⇔ 0° ¥ 2° ¥04'49 0° ♀ 0° ¥ 28° M.09'41 0° ☺ 21° ☺ 37'02 0° Ω 14° € 02'22 13° € 38'25	46°28'07 0°41'50 0°41'29
minimum elong max. Earth dist.  asc. node evening rise  desc. node  evening max el  asc. node greatest brilliancy retrograde	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33 5068 Aug 25 12:07 5068 Sep 19 08:01 5068 Oct 07 13:19 5068 Oct 14 11:41 5068 Nov 09 02:50 5068 Dec 05 14:30 5068 Dec 28 11:33 5069 Jan 03 07:59 5069 Feb 07 01:42 5069 Feb 17 01:18	6°I28'46 10°I37'13 0°S 5°S55'48 23°S21'33 0°N 0°M 0°S 0°M 21°M46'42 0°X 0°S 0°S 24°≈14'35 0°H 20°H39'49 25°H22'08 27°H16'05	0°53'41 1.72429 AU 46°58'44 -4.9m	asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26 5071 Apr 17 00:10 5071 May 11 06:25 5071 Jun 04 12:55 5071 Jun 27 08:54 5071 Jun 28 20:43 5071 Jul 16 10:02 5071 Jul 23 05:31 5071 Aug 03 15:19 5071 Aug 03 07:32 5071 Aug 03 18:51	27° № 17'48 0° M 14° M 44'27 0° ₹ 0° ♂ 0° ≈ 0° ₩ 2° ₩ 04'49 0° ϒ 0° ₩ 28° ₩ 109'41 0° © 21° © 37'02 0° \$\mathcal{L}\$ 14° \$\mathcal{L}\$ 02'22 13° \$\mathcal{L}\$ 38'25 14° \$\mathcal{L}\$ 13'15	46°28'07 0°41'50 0°41'29
minimum elong max. Earth dist.  asc. node evening rise  desc. node  evening max el asc. node greatest brilliancy retrograde evening set	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33 5068 Aug 25 12:07 5068 Sep 19 08:01 5068 Oct 07 13:19 5068 Oct 14 11:41 5068 Nov 09 02:50 5068 Dec 05 14:30 5068 Dec 28 11:33 5069 Jan 03 07:59 5069 Feb 07 01:42 5069 Feb 17 01:18 5069 Mar 05 19:50	6°用28'46 10°用37'13 0°學 5°學55'48 23°學21'33 0°凡 0°順 0°亞 0°胍 21°胍46'42 0°ズ 0°云 0°※ 24°※14'35 0°升 20°升39'49 25°升22'08 27°升16'05 21°升48'15	0°53'41 1.72429 AU 46°58'44 -4.9m	asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong max. Earth dist.	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26 5071 Apr 17 00:10 5071 May 11 06:25 5071 Jun 04 12:55 5071 Jun 27 08:54 5071 Jun 28 20:43 5071 Jul 23 05:31 5071 Aug 03 15:19 5071 Aug 03 15:19 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 16 14:37	27°至17'48 0°M 14°M44'27 0°ズ 0°区 0°※ 0°区 0°※ 0°Y 0°区 0°Y 0°区 0°I 28°I109'41 0°© 21°©37'02 0°Ω 14°Ω02'22 13°Ω38'25 14°Ω13'15 0°M	46°28'07 0°41'50 0°41'29
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minimum elong max. Earth dist.  asc. node evening rise  desc. node  evening max el  asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33 5068 Aug 25 12:07 5068 Sep 19 08:01 5068 Oct 07 13:19 5068 Oct 14 11:41 5068 Nov 09 02:50 5068 Dec 05 14:30 5068 Dec 28 11:33 5069 Jan 03 07:59 5069 Feb 07 01:42 5069 Feb 17 01:18 5069 Mar 05 19:50 5069 Mar 09 03:40 5069 Mar 09 17:18	6°用28'46 10°用37'13 0°勁 5°勁55'48 23°勁21'33 0°凡 0°肌 21°肌46'42 0°ポ 0°ጜ 0°ጜ 24°≈14'35 0°米 22°米39'49 25°米22'08 27°米16'05 21°升48'15 19°升47'28 19°升26'26	0°53'41 1.72429 AU 46°58'44 -4.9m 0.26946 AU 8°17'34	asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong max. Earth dist.	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26 5071 Apr 17 00:10 5071 May 11 06:25 5071 Jun 04 12:55 5071 Jun 27 08:54 5071 Jun 28 20:43 5071 Jul 16 10:02 5071 Jul 23 05:31 5071 Aug 03 15:19 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 16 14:37 5071 Sep 08 23:42	27° \$\Delta 17'48\$ 0° \$\mathbb{\text{N}}\$ 14° \$\mathbb{M} \.44'27\$ 0° \$\overline{\text{N}}\$ 0° \$\overline{\text{N}}\$ 0° \$\overline{\text{N}}\$ 2° \$\overline{\text{N}} \.04'49\$ 0° \$\overline{\text{N}}\$ 0° \$\overline{\text{M}}\$ 21° \$\overline{\text{S}} \.37'02\$ 0° \$\overline{\text{N}}\$ 14° \$\overline{\text{N}} \.02'22\$ 13° \$\overline{\text{N}} \.38'25\$ 14° \$\overline{\text{N}} \.13'15\$ 0° \$\overline{\text{M}}\$ 28° \$\overline{\text{N}} \.28'55\$ 0° \$\overline{\text{S}}\$	46°28'07 0°41'50 0°41'29
minimum elong max. Earth dist.  asc. node evening rise  desc. node  evening max el  asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33 5068 Aug 25 12:07 5068 Sep 19 08:01 5068 Oct 07 13:19 5068 Oct 14 11:41 5068 Nov 09 02:50 5068 Dec 05 14:30 5068 Dec 28 11:33 5069 Jan 03 07:59 5069 Feb 07 01:42 5069 Feb 17 01:18 5069 Mar 09 03:40 5069 Mar 09 03:57	6°I28'46 10°I37'13 0°S 5°S55'48 23°S21'33 0°N 0°M 0°A 0°M 21°M46'42 0°X 0°S 0°≈ 24°≈14'35 0°H 25°H29'08 27°H16'05 21°H48'15 19°H47'28 19°H26'26 19°H39'19	0°53'41 1.72429 AU 46°58'44 -4.9m 0.26946 AU 8°17'34	asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong max. Earth dist.	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26 5071 Apr 17 00:10 5071 May 11 06:25 5071 Jun 04 12:55 5071 Jun 27 08:54 5071 Jun 28 20:43 5071 Jul 16 10:02 5071 Jul 23 05:31 5071 Aug 03 15:19 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 16 14:37 5071 Sep 08 18:05 5071 Sep 09 23:42 5071 Oct 04 09:21	27° \$\Delta 17'48 0° M 14° M 44'27 0° \$\delta'\$ 0° \$\delta'\$ 0° \$\delta'\$ 0° \$\delta'\$ 2° \$\delta 04'49 0° \$\delta'\$ 0° \$\delta'\$ 28° \$\delta 09'41 0° \$\delta'\$ 21° \$\delta 37'02 0° \$\delta'\$ 14° \$\delta 02'22 13° \$\delta 38'25 14° \$\delta 13'15 0° \$\delta'\$ 28° \$\delta 28'55 0° \$\delta'\$ 0° \$\delta'\$ 0° \$\delta'\$	46°28'07 0°41'50 0°41'29
minimum elong max. Earth dist.  asc. node evening rise  desc. node  evening max el  asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33 5068 Aug 25 12:07 5068 Sep 19 08:01 5068 Oct 07 13:19 5068 Oct 14 11:41 5068 Nov 09 02:50 5068 Dec 05 14:30 5068 Dec 28 11:33 5069 Jan 03 07:59 5069 Feb 07 01:42 5069 Feb 17 01:18 5069 Mar 05 19:50 5069 Mar 09 03:40 5069 Mar 09 08:57 5069 Mar 12 22:11 5069 Mar 30 05:17	6°I28'46 10°I37'13 0°S 5°S55'48 23°S21'33 0°N 0°N 0°S 0°M 21°M46'42 0°X 0°S 0°S 24°≈14'35 0°H 220°H39'49 25°H22'08 27°H16'05 21°H48'15 19°H47'28 19°H26'26 19°H39'19 17°H29'14	0°53'41 1.72429 AU 46°58'44 -4.9m 0.26946 AU 8°17'34 8°16'29	asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong max. Earth dist. evening rise	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26 5071 Apr 17 00:10 5071 May 11 06:25 5071 Jun 04 12:55 5071 Jun 27 08:54 5071 Jun 28 20:43 5071 Jul 16 10:02 5071 Jul 23 05:31 5071 Aug 03 15:19 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 16 14:37 5071 Sep 08 23:42 5071 Oct 04 09:21 5071 Oct 28 20:26	27° \$\Delta 17'48 0° \$\mathbb{n}\$ 14° \$\mathbb{n} 44'27 0° \$\mathscr{n}\$ 0° \$\mathscr{n}\$ 0° \$\mathscr{n}\$ 0° \$\mathscr{n}\$ 2° \$\mathscr{n} 04'49 0° \$\mathscr{n}\$ 0° \$\mathscr{n}\$ 28° \$\mathscr{n} 09'41 0° \$\mathscr{n}\$ 21° \$\mathscr{n} 37'02 0° \$\mathscr{n}\$ 14° \$\mathscr{n} 02'22 13° \$\mathscr{n} 38'25 14° \$\mathscr{n} 13'15 0° \$\mathscr{n}\$ 28° \$\mathscr{n} 28'55 0° \$\mathscr{n}\$ 0° \$\mathscr{n}\$ 0° \$\mathscr{n}\$ 8° \$\mathscr{n} 48'29	46°28'07 0°41'50 0°41'29
minimum elong max. Earth dist.  asc. node evening rise  desc. node  evening max el  asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33 5068 Aug 25 12:07 5068 Sep 19 08:01 5068 Oct 07 13:19 5068 Oct 14 11:41 5068 Nov 09 02:50 5068 Dec 05 14:30 5068 Dec 28 11:33 5069 Jan 03 07:59 5069 Feb 07 01:42 5069 Feb 17 01:18 5069 Mar 05 19:50 5069 Mar 09 03:40 5069 Mar 09 08:57 5069 Mar 12 22:11 5069 Mar 30 05:17 5069 Apr 08 12:25	6°H28'46 10°H37'13 0°S 5°S55'48 23°S21'33 0°N 0°M 0°A 0°M 21°M46'42 0° N 0°S 0° 24°≈14'35 0° H 220°H39'49 25°H22'08 27°H16'05 21°H48'15 19°H47'28 19°H26'26 19°H39'19 17°H29'14 11°H42'54	0°53'41 1.72429 AU 46°58'44 -4.9m 0.26946 AU 8°17'34 8°16'29	asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong max. Earth dist. evening rise	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26 5071 Apr 17 00:10 5071 May 11 06:25 5071 Jun 04 12:55 5071 Jun 27 08:54 5071 Jun 28 20:43 5071 Jul 16 10:02 5071 Jul 23 05:31  5071 Aug 03 15:19 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 16 14:37 5071 Sep 08 18:05 5071 Oct 04 09:21 5071 Oct 28 20:26 5071 Nov 05 01:08 5071 Nov 22 09:34	27° \$\Delta 17'48 0° \$\mathbb{n}\$ 14° \$\mathbb{n} 44'27 0° \$\mathscr{n}\$ 0° \$\mathscr{n}\$ 0° \$\mathscr{n}\$ 0° \$\mathscr{n}\$ 2° \$\mathscr{n} 04'49 0° \$\mathscr{n}\$ 0° \$\mathscr{n}\$ 21° \$\mathscr{n} 37'02 0° \$\mathscr{n}\$ 14° \$\mathscr{n} 02'22 13° \$\mathscr{n} 38'25 14° \$\mathscr{n} 13'15 0° \$\mathscr{n}\$ 28° \$\mathscr{n} 28'55 0° \$\mathscr{n}\$ 0° \$\mathscr{n}\$ 0° \$\mathscr{n}\$	46°28'07 0°41'50 0°41'29
minimum elong max. Earth dist.  asc. node evening rise  desc. node  evening max el  asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33 5068 Aug 25 12:07 5068 Sep 19 08:01 5068 Oct 07 13:19 5068 Oct 14 11:41 5068 Nov 09 02:50 5068 Dec 05 14:30 5068 Dec 28 11:33 5069 Jan 03 07:59 5069 Feb 07 01:42 5069 Feb 17 01:18 5069 Mar 05 19:50 5069 Mar 09 03:40 5069 Mar 09 03:40 5069 Mar 09 08:57 5069 Mar 12 22:11 5069 Mar 30 05:17 5069 May 04 10:55	6°H28'46 10°H37'13 0°S 5°S55'48 23°S21'33 0°N 0°M 0°A 0°M 21°M46'42 0°X 0°B 0°S 0°S 24°≈14'35 0°H 220°H39'49 25°H22'08 27°H16'05 21°H48'15 19°H47'28 19°H26'26 19°H39'19 17°H29'14 11°H42'54 13°H20'29 0°Y	0°53'41 1.72429 AU 46°58'44 -4.9m 0.26946 AU 8°17'34 8°16'29	asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong max. Earth dist. evening rise	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26 5071 Apr 17 00:10 5071 May 11 06:25 5071 Jun 04 12:55 5071 Jun 27 08:54 5071 Jun 28 20:43 5071 Jul 16 10:02 5071 Jul 23 05:31  5071 Aug 03 15:19 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 16 14:37 5071 Sep 08 18:05 5071 Sep 09 23:42 5071 Oct 04 09:21 5071 Nov 05 01:08 5071 Nov 22 09:34 5071 Dec 17 01:30	27° \$\tilde{17'48}\$ 0° \$\mathbb{\tilde{\Pi}\$} 14° \$\mathbb{\tilde{\Pi}\$44'27} 0° \$\starting{\Pi}\$ 0° \$\tilde{\Pi}\$ 0° \$\tilde{\Pi}\$ 2° \$\tilde{\Pi}\$04'49 0° \$\tilde{\Pi}\$ 0° \$\tilde{\Pi}\$ 28° \$\mathbb{\Tilde{\Pi}\$09'41 0° \$\tilde{\Pi}\$ 21° \$\tilde{\Pi}\$37'02 0° \$\tilde{\Pi}\$ 14° \$\tilde{\Pi}\$02'22 13° \$\tilde{\Pi}\$38'25 14° \$\tilde{\Pi}\$13'15 0° \$\mathbb{\Pi}\$ 28° \$\mathbb{\Pi}\$28'55 0° \$\mathref{\Pi}\$ 0° \$\mathref{\Pi}\$ 8° \$\tilde{\Pi}\$48'29 0° \$\tilde{\Pi}\$ 0° \$\tilde{\Pi}\$ 0° \$\tilde{\Pi}\$	46°28'07 0°41'50 0°41'29
minimum elong max. Earth dist.  asc. node evening rise  desc. node  evening max el  asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33 5068 Aug 25 12:07 5068 Sep 19 08:01 5068 Oct 07 13:19 5068 Oct 14 11:41 5068 Nov 09 02:50 5068 Dec 05 14:30 5068 Dec 28 11:33 5069 Jan 03 07:59 5069 Feb 07 01:42 5069 Feb 07 01:18 5069 Mar 05 19:50 5069 Mar 09 03:40 5069 Mar 09 03:40 5069 Mar 09 03:57 5069 Mar 09 08:57 5069 Mar 12 22:11 5069 Mar 30 05:17 5069 May 04 10:55 5069 May 19 04:30	6°H28'46 10°H37'13 0°S 5°S55'48 23°S21'33 0°N 0°M 0°A 0°M 21°M46'42 0° N 0°S 0° 24°≈14'35 0°H 20°H39'49 25°H22'08 27°H16'05 21°H48'15 19°H47'28 19°H39'19 17°H29'14 11°H42'54 13°H20'29 0° 13°Y41'40	0°53'41 1.72429 AU 46°58'44 -4.9m 0.26946 AU 8°17'34 8°16'29	asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong max. Earth dist. evening rise	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26 5071 Apr 17 00:10 5071 May 11 06:25 5071 Jun 04 12:55 5071 Jun 27 08:54 5071 Jun 28 20:43 5071 Jul 16 10:02 5071 Jul 23 05:31  5071 Aug 03 15:19 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 16 14:37 5071 Sep 08 18:05 5071 Sep 09 23:42 5071 Oct 04 09:21 5071 Oct 28 20:26 5071 Nov 05 01:08 5071 Nov 22 09:34 5071 Dec 17 01:30 5072 Jan 10 22:48	27° \$\tilde{17'48}\$ 0° \$\mathbb{\tilde{\Pi}\$} 14° \$\mathbb{\tilde{\Pi}\$44'27} 0° \$\starting{\Pi}\$ 0° \$\tilde{\Pi}\$ 0° \$\tilde{\Pi}\$ 2° \$\tilde{\Pi}\$04'49 0° \$\tilde{\Pi}\$ 0° \$\tilde{\Pi}\$ 28° \$\mathbb{\Tilde{\Pi}\$02'22 13° \$\tilde{\Pi}\$37'02 0° \$\tilde{\Pi}\$ 14° \$\tilde{\Pi}\$02'22 13° \$\tilde{\Pi}\$38'25 14° \$\tilde{\Pi}\$13'15 0° \$\mathbb{\Pi}\$ 28° \$\mathbb{\Pi}\$28'55 0° \$\tilde{\Pi}\$	46°28'07 0°41'50 0°41'29
minimum elong max. Earth dist.  asc. node evening rise  desc. node  evening max el  asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33 5068 Aug 25 12:07 5068 Sep 19 08:01 5068 Oct 07 13:19 5068 Oct 14 11:41 5068 Nov 09 02:50 5068 Dec 05 14:30 5068 Dec 28 11:33 5069 Jan 03 07:59 5069 Feb 07 01:42 5069 Feb 07 01:42 5069 Feb 17 01:18 5069 Mar 09 03:40 5069 Mar 09 03:57 5069 Mar 09 08:57 5069 Mar 12 22:11 5069 Mar 30 05:17 5069 Mar 30 05:17 5069 Mar 04:30 5069 May 04 10:55 5069 May 19 04:30 5069 May 20 06:07	6°I28'46 10°I37'13 0°S 5°S55'48 23°S21'33 0°N 0°M 0°A 0°M 21°M46'42 0°A 0°G 0°S 24°≈14'35 0°H 20°H39'49 25°H22'08 27°H16'05 21°H48'15 19°H47'28 19°H26'26 19°H39'19 17°H29'14 11°H42'54 13°H20'29 0°Y 13°Y41'40 14°Y45'12	0°53'41 1.72429 AU 46°58'44 -4.9m 0.26946 AU 8°17'34 8°16'29	asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong max. Earth dist. evening rise  desc. node	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26 5071 Apr 17 00:10 5071 May 11 06:25 5071 Jun 04 12:55 5071 Jun 27 08:54 5071 Jun 28 20:43 5071 Jul 16 10:02 5071 Jul 23 05:31  5071 Aug 03 15:19 5071 Aug 03 15:19 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 16 14:37 5071 Sep 08 18:05 5071 Sep 09 23:42 5071 Oct 04 09:21 5071 Nov 05 01:08 5071 Nov 22 09:34 5071 Dec 17 01:30 5072 Jan 10 22:48 5072 Feb 05 09:22	27° \$\Delta 17'48 0° \$\mathbb{N}\$ 14° \$\mathbb{N} 44'27 0° \$\mathscr{A}\$ 0° \$\mathscr{A}\$ 0° \$\mathscr{A}\$ 0° \$\mathscr{A}\$ 2° \$\mathscr{A} 04'49 0° \$\mathscr{A}\$ 0° \$\mathscr{A}\$ 0° \$\mathscr{A}\$ 14° \$\mathscr{A} 02'22 13° \$\mathscr{A} 38'25 14° \$\mathscr{A} 13'15 0° \$\mathscr{A}\$ 28° \$\mathscr{A} 28'55 0° \$\mathscr{A}\$ 0° \$\	46°28'07 0°41'50 0°41'29
minimum elong max. Earth dist.  asc. node evening rise  desc. node  evening max el  asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33 5068 Aug 25 12:07 5068 Sep 19 08:01 5068 Oct 07 13:19 5068 Oct 14 11:41 5068 Nov 09 02:50 5068 Dec 05 14:30 5068 Dec 28 11:33 5069 Jan 03 07:59 5069 Jan 28 15:00 5069 Feb 07 01:42 5069 Feb 07 01:42 5069 Feb 17 01:18 5069 Mar 09 03:40 5069 Mar 09 03:40 5069 Mar 09 03:57 5069 Mar 09 08:57 5069 Mar 12 22:11 5069 Mar 30 05:17 5069 Apr 08 12:25 5069 May 04 10:55 5069 May 19 04:30 5069 May 20 06:07 5069 Jun 03 23:37	6°I28'46 10°I37'13 0°S 5°S55'48 23°S21'33 0°N 0°M 0°S 0°M 21°M46'42 0°X 0°G 0°S 24°≈14'35 0°H 20°H39'49 25°H22'08 27°H16'05 21°H48'15 19°H47'28 19°H26'26 19°H39'19 17°H29'14 11°H42'54 13°H20'29 0°Y 13°Y41'40 14°Y45'12 0°U	0°53'41 1.72429 AU 46°58'44 -4.9m 0.26946 AU 8°17'34 8°16'29	asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong max. Earth dist. evening rise	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26 5071 Apr 17 00:10 5071 May 11 06:25 5071 Jun 04 12:55 5071 Jun 27 08:54 5071 Jun 28 20:43 5071 Jul 16 10:02 5071 Jul 23 05:31  5071 Aug 03 15:19 5071 Aug 03 15:19 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 16 14:37 5071 Sep 08 18:05 5071 Sep 09 23:42 5071 Oct 04 09:21 5071 Nov 05 01:08 5071 Nov 22 09:34 5071 Dec 17 01:30 5072 Jan 10 22:48 5072 Feb 05 09:22 5072 Feb 26 02:48	27° \$\Delta 17'48 0° \$\mathbb{\text{M}}.44'27 0° \$\mathscr{\text{N}}.0° \$\mathscr{\text{N}}.0° \$\mathscr{\text{N}}.09' \$\math	46°28'07 0°41'50 0°41'29
minimum elong max. Earth dist.  asc. node evening rise  desc. node  evening max el  asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33 5068 Aug 25 12:07 5068 Sep 19 08:01 5068 Oct 07 13:19 5068 Oct 14 11:41 5068 Nov 09 02:50 5068 Dec 05 14:30 5068 Dec 28 11:33 5069 Jan 03 07:59 5069 Jan 28 15:00 5069 Feb 07 01:42 5069 Feb 07 01:42 5069 Feb 17 01:18 5069 Mar 09 03:40 5069 Mar 09 03:40 5069 Mar 09 08:57 5069 Mar 09 08:57 5069 Mar 12 22:11 5069 Apr 08 12:25 5069 May 04 10:55 5069 May 04 10:55 5069 May 04 10:55 5069 May 04 06:07 5069 Jun 03 23:37 5069 Jul 01 01:30	6°I28'46 10°I37'13 0°S 5°S55'48 23°S21'33 0°N 0°M 0°S 0°M 21°M46'42 0°X 0°S 0°S 24°S14'35 0°H 20°H39'49 25°H22'08 27°H16'05 21°H48'15 19°H26'26 19°H39'19 17°H29'14 11°H42'54 13°H20'29 0°Y 13°Y41'40 14°Y45'12 0°B 0°I	0°53'41 1.72429 AU 46°58'44 -4.9m 0.26946 AU 8°17'34 8°16'29	asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong max. Earth dist. evening rise  desc. node	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26 5071 Apr 17 00:10 5071 May 11 06:25 5071 Jun 04 12:55 5071 Jun 27 08:54 5071 Jul 28 20:43 5071 Jul 16 10:02 5071 Jul 23 05:31  5071 Aug 03 15:19 5071 Aug 03 15:19 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 16 14:37 5071 Sep 08 18:05 5071 Sep 09 23:42 5071 Oct 04 09:21 5071 Oct 28 20:26 5071 Nov 05 01:08 5071 Dec 17 01:30 5072 Jan 10 22:48 5072 Feb 05 09:22 5072 Feb 26 02:48 5072 Mar 03 06:59	27° 17'48 0° M 14° M 44'27 0° ズ 0° I 0° I 2° H 09'41 0° I 28° H 09'41 0° I 28° H 09'41 0° I 28° M 28'55 14° A 13'15 0° M 28° M 28'55 0° M 0° ズ 8° ズ 48'29 0° ズ 0° X 0° Y 23° Y 21'25 0° Y	46°28'07 0°41'50 0°41'29 1.73433 AU
minimum elong max. Earth dist.  asc. node evening rise  desc. node  evening max el  asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el	5068 May 25 03:42 5068 May 28 11:44 5068 Jun 13 03:04 5068 Jun 17 22:12 5068 Jul 02 01:17 5068 Jul 07 10:44 5068 Jul 31 21:33 5068 Aug 25 12:07 5068 Sep 19 08:01 5068 Oct 07 13:19 5068 Oct 14 11:41 5068 Nov 09 02:50 5068 Dec 05 14:30 5068 Dec 28 11:33 5069 Jan 03 07:59 5069 Jan 28 15:00 5069 Feb 07 01:42 5069 Feb 07 01:42 5069 Feb 17 01:18 5069 Mar 09 03:40 5069 Mar 09 03:40 5069 Mar 09 03:57 5069 Mar 09 08:57 5069 Mar 12 22:11 5069 Mar 30 05:17 5069 Apr 08 12:25 5069 May 04 10:55 5069 May 19 04:30 5069 May 20 06:07 5069 Jun 03 23:37	6°I28'46 10°I37'13 0°S 5°S55'48 23°S21'33 0°N 0°M 0°S 0°M 21°M46'42 0°X 0°G 0°S 24°≈14'35 0°H 20°H39'49 25°H22'08 27°H16'05 21°H48'15 19°H47'28 19°H26'26 19°H39'19 17°H29'14 11°H42'54 13°H20'29 0°Y 13°Y41'40 14°Y45'12 0°U	0°53'41 1.72429 AU 46°58'44 -4.9m 0.26946 AU 8°17'34 8°16'29	asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong max. Earth dist. evening rise  desc. node	5070 Dec 03 17:12 5070 Dec 06 23:40 5070 Dec 22 19:42 5071 Jan 06 09:34 5071 Feb 01 20:54 5071 Feb 27 01:08 5071 Mar 23 15:46 5071 Mar 25 08:26 5071 Apr 17 00:10 5071 May 11 06:25 5071 Jun 04 12:55 5071 Jun 27 08:54 5071 Jun 28 20:43 5071 Jul 16 10:02 5071 Jul 23 05:31  5071 Aug 03 15:19 5071 Aug 03 15:19 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 03 18:51 5071 Aug 16 14:37 5071 Sep 08 18:05 5071 Sep 09 23:42 5071 Oct 04 09:21 5071 Nov 05 01:08 5071 Nov 22 09:34 5071 Dec 17 01:30 5072 Jan 10 22:48 5072 Feb 05 09:22 5072 Feb 26 02:48	27° \$\Delta 17'48 0° \$\mathbb{\text{M}}.44'27 0° \$\mathscr{\text{N}}.0° \$\mathscr{\text{N}}.0° \$\mathscr{\text{N}}.09' \$\math	46°28'07 0°41'50 0°41'29 1.73433 AU

greatest brilliancy	5072 Apr 20 02:21	8° <b>II</b> 55'20	-4.9m		5074 Sep 24 19:32	0∘ <b>⊽</b>	
retrograde	5072 Apr 30 13:23	10° <b>Ⅱ</b> 58'49		max. Earth dist.	5074 Oct 07 21:07		1.73031 AU
evening set	5072 May 16 21:59	5° <b>Ⅱ</b> 43'35					
inferior conj	5072 May 21 14:10	2° <b>Ⅱ</b> 52'31	5°55'23	superior conj	5074 Oct 10 06:59	19° <b>≙</b> 07'06	1°25'11
minimum elong	5072 May 22 00:30	2° <b>Ⅱ</b> 36′26	5°52'59	minimum elong	5074 Oct 10 08:20	19° <b>≏</b> 11'15	1°25'12
min. Earth dist.	5072 May 21 11:33		0.27904 AU		5074 Oct 19 02:02	$0^{\circ}$ M	
	5072 May 26 07:58	30° <b>₹8</b>			5074 Nov 12 06:51	0° <b>∡</b>	
morning rise	5072 May 27 03:24	29° <b>8</b> 32'28		evening rise	5074 Nov 16 13:50	5° 🖈 19'26	
direct desc. node	5072 Jun 11 14:00	24° <b>8</b> 53'20		desc. node	5074 Dec 02 13:01	25° <b>メ</b> 08'53 0°る	
greatest brilliancy	5072 Jun 16 17:45 5072 Jun 21 08:22	25° <b>8</b> 23'56 26° <b>8</b> 38'55	1 8m		5074 Dec 06 10:47 5074 Dec 30 14:14	0°≈	
greatest offinalicy	5072 Jun 28 20:02	0°II	-4.0111		5074 Dec 30 14:14 5075 Jan 23 17:54	0° <b>∺</b>	
morning max el	5072 Jul 30 15:42	25° <b>I</b> 12'19	45°50'08		5075 Feb 16 23:54	0°Υ	
5 8	5072 Aug 04 13:48	0ංම			5075 Mar 13 12:49	0°8	
	5072 Sep 02 01:10	$0^{\circ}\Omega$		asc. node	5075 Mar 25 14:37	14° <b>8</b> 31'19	
	5072 Sep 28 12:25	0° <b>m</b>			5075 Apr 07 16:52	$\Pi^{\circ}0$	
asc. node	5072 Oct 07 19:44	10° <b>m</b> 51'39			5075 May 04 04:30	$0$ $\circ$ $\odot$	
	5072 Oct 23 22:50	0∘ <b>⊽</b>		evening max el	5075 May 22 07:35	18° <b>©</b> 52'16	46°05'37
	5072 Nov 17 17:25	0° <b>M</b>			5075 Jun 03 04:54	$0$ $^{\circ}\Omega$	
	5072 Dec 12 01:48	0° <b>∡</b>		greatest brilliancy	5075 Jun 29 15:46	17° <b>Ω</b> 46′20	-4.8m
	5073 Jan 05 04:00	0°る		retrograde	5075 Jul 10 17:12	19° <b>£</b> 59'52	
morning set	5073 Jan 25 23:39	26°る04'43		desc. node	5075 Jul 15 05:50	19° <b>Ω</b> 35'26	
desc. node	5073 Jan 27 10:41 5073 Jan 29 02:39	27°る54'37 0°≈		evening set	5075 Jul 26 00:13	15° <b>Ω</b> 28'43 11° <b>Ω</b> 44'18	2954150
	5073 Feb 21 23:26	0 <b>≈</b> 0° <b>∀</b>		inferior conj minimum elong	5075 Aug 01 05:00 5075 Jul 31 21:08	11° <b>Ω</b> 56'40	
	3073100 21 23.20	0 /		min. Earth dist.	5075 Jul 31 18:28	12°Ω00'51	0.28854 AU
superior conj	5073 Mar 08 07:23	18° <b>₩</b> 01'42	-1°17'59	morning rise	5075 Aug 06 18:20	8° <b>Ω</b> 21'53	0.2003 1710
minimum elong	5073 Mar 07 21:39	17° <b>)</b> € 31'05		direct	5075 Aug 22 17:05	3° <b>£</b> 31′29	
max. Earth dist.	5073 Mar 09 15:45	19° <b>)</b> 43′28	1.71176 AU	greatest brilliancy	5075 Sep 01 17:32	5° <b>Ω</b> 19'27	-4.7m
	5073 Mar 17 19:50	$0^{\circ}$ $\Upsilon$			5075 Oct 06 23:09	0° m/	
	5073 Apr 10 17:35	$9^{\circ}$ 8		morning max el	5075 Oct 10 10:41	3° Mp 17'41	45°46'54
evening rise	5073 Apr 18 01:05	9° <b>8</b> 08'54		asc. node	5075 Nov 05 07:30	0° <b>ჲ</b> 06'20	
	5073 May 04 18:36	0°II			5075 Nov 05 05:11	0∘ <b>⊽</b>	
asc. node	5073 May 20 12:22	19° <b>Ⅱ</b> 30'34			5075 Dec 01 13:55	0°M	
	5073 May 29 00:33	0° <b>⊙</b>			5075 Dec 26 17:05	0° <b>₹</b>	
	5073 Jun 22 12:51 5073 Jul 17 09:34	0° <b>Ω</b> 0° <b>m</b>			5076 Jan 20 05:14 5076 Feb 13 09:33	0°る ∞∞	
	5073 Aug 11 18:44	0∘ <b>ت</b> رااا		desc. node	5076 Feb 24 22:35	0 ∞ 14°≈24'04	
	5073 Sep 07 00:48	0° <b>M</b>		desc. Hode	5076 Mar 08 09:57	0° <b>)</b>	
desc. node	5073 Sep 09 03:25	2°M20'53			5076 Apr 01 08:49	0°Υ	
	5073 Oct 05 00:52	0° <b>∡</b> ¹		morning set	5076 Apr 12 20:01	14° <b>Y</b> °21'42	
evening max el	5073 Oct 14 05:52	9° <b>∡</b> 06'48	46°01'17	-	5076 Apr 25 08:06	0°8	
	5073 Nov 08 00:14	ರ°0			5076 May 19 09:28	$\Pi^{\circ}0$	
greatest brilliancy	5073 Nov 22 23:28	7° <b>る</b> 51'30	-4.8m				
retrograde	5073 Dec 02 09:16	9° <b>පි</b> 28'40		superior conj	5076 May 22 07:19	3° <b>Ⅱ</b> 37′05	
evening set	5073 Dec 17 04:17	5° <b>云</b> 13'46		minimum elong	5076 May 22 17:50	4° <b>∏</b> 09'46	
inferior conj	5073 Dec 23 02:38	1°る44'38		max. Earth dist.	5076 May 26 01:45		1.72375 AU
minimum elong min. Earth dist.	5073 Dec 23 07:16 5073 Dec 23 17:07	1°る37'32 1°る22'26	2°02'04 0.27064 AU	asc. node	5076 Jun 12 13:55 5076 Jun 17 00:14	0°ഇ 5° <b>ഇ</b> 28'36	
IIIII. Eartii dist.	5073 Dec 25 17:07 5073 Dec 25 23:28	1 322 20 30°R <b>₹</b>	0.27004 AU	evening rise	5076 Jun 29 17:37	21° <b>©</b> 10'30	
morning rise	5073 Dec 29 09:39	30 KX. 28° <b>∡</b> 102'57		evening 1150	5076 Jul 06 21:38	0°Ω	
asc. node	5073 Dec 23 05:08	27° <b>×</b> 02'37			5076 Jul 31 08:36	0° m)	
direct	5074 Jan 12 22:03	23° <b>∡</b> *53′37			5076 Aug 24 23:28	0∘ <u>v</u>	
greatest brilliancy	5074 Jan 23 15:41	26° <b>₹</b> 04'04	-4.9m		5076 Sep 18 19:53	$0^{\circ}$ M.	
	5074 Jan 31 13:11	ರ°0		desc. node	5076 Oct 06 15:15	21°M15'25	
morning max el	5074 Mar 04 13:20	27° <b>る</b> 05'49	46°58'49		5076 Oct 14 00:26	0°⊀	
	5074 Mar 07 09:31	0° <b>≈</b>			5076 Nov 08 17:07	0°ರ	
	5074 Apr 03 20:13	0° <b>∀</b>			5076 Dec 05 07:52	0° <b>≈</b>	
desc. node	5074 Apr 21 20:23	20° <b>¥</b> 51′06		evening max el	5076 Dec 26 00:16	21° <b>≈</b> 48'27	46°57'21
	5074 Apr 29 14:35	0°Υ 0°Υ		aga m-J-	5077 Jan 03 10:24	0° <b>)</b> (	
	5074 May 24 17:17 5074 Jun 18 13:28	0°H 8°0		asc. node	5077 Jan 27 17:03 5077 Feb 04 14:46	19° <b>)</b> € 07'57 22° <b>)</b> € 54'46	-4.9m
	5074 Jul 13 06:45	0ಂខ ೧.π		greatest brilliancy retrograde	5077 Feb 14 14:46 5077 Feb 14 14:08	24° <b>H</b> 34'46 24° <b>H</b> 48'53	<del>-4</del> .7III
	5074 Aug 06 21:54	0° <b>U</b>		evening set	5077 Mar 03 04:13	19° <b>H</b> 27'25	
asc. node	5074 Aug 10 21:54 5074 Aug 12 21:59	7° <b>Ω</b> 19'51		min. Earth dist.	5077 Mar 06 16:31	17° <b>H</b> 20'28	0.26919 AU
	5074 Aug 31 10:18	0° m/y		inferior conj	5077 Mar 07 06:01	16° <b>)</b> 59'40	8°07'19
morning set	5074 Sep 03 20:06	4° الله 11'02		minimum elong	5077 Mar 06 21:04	17° <b>)</b> 13′28	8°06'00

	5077.14 10 14 02	1.40 1/ 5010 6			5070 0 4 20 07 27	00.7	
morning rise	5077 Mar 10 14:02	14° <b>¥</b> 58'06			5079 Oct 28 07:37	0° ⊀ <sup>7</sup>	
direct	5077 Mar 27 17:27	9° <b>∺</b> 16′09		desc. node	5079 Nov 04 03:08	8° <b>∡</b> 120′03	
greatest brilliancy	5077 Apr 06 01:48	10° <b>)</b> 54′57	-4.9m		5079 Nov 21 21:14	0°ಕ	
	5077 May 04 18:02	$0^{\circ}\mathbf{Y}$			5079 Dec 16 13:49	0° <b>≈</b>	
morning max el	5077 May 16 18:12	11° <b>Y</b> 19'28	46°34'13		5080 Jan 10 12:07	0° <b>ℋ</b>	
desc. node	5077 May 19 08:03	13° <b>Ƴ</b> 53'49			5080 Feb 05 00:32	$0$ ° $\Upsilon$	
	5077 Jun 03 17:51	0°B		asc. node	5080 Feb 25 04:47	22° <b>Y</b> 37'29	
	5077 Jun 30 16:04	$\Pi^{\circ}0$			5080 Mar 03 02:41	$0^{\circ}$ 8	
	5077 Jul 26 13:23	$0$ $\circ$ $\odot$		evening max el	5080 Mar 08 14:38	5° <b>8</b> 40'16	47°01'30
	5077 Aug 20 21:55	$0^{\circ}\Omega$			5080 Apr 05 09:58	$\Pi^{\circ}$ 0	
asc. node	5077 Sep 09 09:46	23° <b>Ω</b> 23′18		greatest brilliancy	5080 Apr 17 17:51	6° <b>Ⅱ</b> 38'32	-4.9m
	5077 Sep 14 21:04	0° m/		retrograde	5080 Apr 28 04:47	8° <b>Ⅱ</b> 41'29	
	5077 Oct 09 12:03	0∘ <b>⊽</b>		evening set	5080 May 14 15:56	3° <b>Ⅲ</b> 22'12	
	5077 Nov 02 20:21	0°M		inferior conj	5080 May 19 04:53	0° <b>П</b> 35'36	6°11'54
morning set	5077 Nov 11 14:23	10° <b>M</b> ₅50'47		minimum elong	5080 May 19 15:19	0° <b>Ⅱ</b> 19'19	
morning sec	5077 Nov 26 23:59	0° <b>⊼</b> 7		min. Earth dist.	5080 May 19 01:56	0° <b>П</b> 40'12	0.27874 AU
max. Earth dist.	5077 Dec 17 06:04	25° <b>✓</b> 16'37	1.71781 AU	mm. Earth dist.	5080 May 20 03:44	30°R8	0.27071110
max. Lattii dist.	3077 DCC 17 00.04	23 × 1037	1./1/61 AC	morning rise	5080 May 24 15:08	27° <b>8</b> 19'43	
	5077 D 10 20-42	200.722127	0024114	direct	•		
superior conj	5077 Dec 19 20:42	28° ₹ 32'26	0°24'14		5080 Jun 09 04:50	22° <b>8</b> 37'08	
minimum elong	5077 Dec 20 02:26	28° <b>₹</b> 50'20	0°23'58	desc. node	5080 Jun 15 19:55	23° <b>8</b> 27'11	4.0
	5077 Dec 21 00:42	0°る		greatest brilliancy	5080 Jun 18 21:31	24° <b>8</b> 21'29	-4.8m
desc. node	5077 Dec 30 00:56	11° <b>ප</b> 16'31			5080 Jun 30 07:22	$0^{\circ}\Pi$	
	5078 Jan 13 23:36	0° <b>≈</b>		morning max el	5080 Jul 28 07:00	22° <b>Ⅱ</b> 59'54	45°50'56
evening rise	5078 Jan 29 02:00	18° <b>≈</b> 56'44			5080 Aug 04 10:09	$0$ $\circ$ $\odot$	
	5078 Feb 06 21:24	0° <b>ℋ</b>			5080 Sep 01 16:05	$0 {\circ} \Omega$	
	5078 Mar 02 19:28	$0$ ° $\Upsilon$			5080 Sep 28 01:13	0° <b>m</b> y	
	5078 Mar 26 20:08	0°B		asc. node	5080 Oct 06 21:41	10° <b>m</b> 21'03	
	5078 Apr 20 02:38	$\Pi^{\circ}0$			5080 Oct 23 10:38	0∘ <b>ऌ</b>	
asc. node	5078 Apr 22 02:29	2° <b>Ⅲ</b> 26'45			5080 Nov 17 04:42	0° <b>M</b> .	
	5078 May 14 18:55	0°ಅ			5080 Dec 11 12:48	0° <b>∡</b> ¹	
	5078 Jun 09 02:47	$0^{\circ}\Omega$			5081 Jan 04 14:53	0°₹	
	5078 Jul 05 14:24	0°m)		morning set	5081 Jan 23 10:36	23° <b>る</b> 34'32	
evening max el	5078 Jul 31 20:15	27° m) 11'27	45°32'21	desc. node	5081 Jan 26 12:42	27° <b>る</b> 26'58	
o ronning man or	5078 Aug 03 19:20	0° <b>⊽</b>	3221	desc. node	5081 Jan 28 13:28	0° <b>≈</b>	
desc. node	5078 Aug 11 17:39	ა <u>—</u> 7° <b>ჲ</b> 09'02			5081 Feb 21 10:13	0° <b>¥</b>	
greatest brilliancy	5078 Sep 08 14:03	25° <b>⊆</b> 10'51	-4.7m		3001100 21 10.13	υ <b>/</b> (	
retrograde	5078 Sep 18 13:20	26° <b>≏</b> 58'20	- <del>4</del> ./III	superior conj	5081 Mar 05 17:51	15° <b>¥</b> 29'48	1°16'07
•	5078 Oct 06 16:25	20° <b>⊆</b> 49'47			5081 Mar 05 07:30	13 <b>X</b> 29 48 14° <b>X</b> 57'14	
evening set							
			0027110	minimum elong			
inferior conj	5078 Oct 09 22:41	18° <b>≏</b> 49'12		max. Earth dist.	5081 Mar 06 21:58	16° <b>¥</b> 58'14	1.71156 AU
minimum elong	5078 Oct 09 22:41 5078 Oct 09 23:49	18° <b>♀</b> 49'12 18° <b>♀</b> 47'26	8°37'17	•	5081 Mar 06 21:58 5081 Mar 17 06:34	16° <b>¥</b> 58'14 0° <b>Υ</b>	
minimum elong min. Earth dist.	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37	18° <b>♀</b> 49'12 18° <b>♀</b> 47'26 18° <b>♀</b> 30'35		max. Earth dist.	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18	16°¥58'14 0° <b>Υ</b> 0° <b>∀</b>	
minimum elong min. Earth dist. morning rise	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06	18° <b>Ω</b> 49'12 18° <b>Ω</b> 47'26 18° <b>Ω</b> 30'35 16° <b>Ω</b> 45'04	8°37'17	•	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30	16° <del>),</del> 58'14 0° <b>Υ</b> 0° <b>∀</b> 6° <b>∀</b> 41'03	
minimum elong min. Earth dist. morning rise direct	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02	18° <b>△</b> 49'12 18° <b>△</b> 47'26 18° <b>△</b> 30'35 16° <b>△</b> 45'04 10° <b>△</b> 32'04	8°37'17 0.28887 AU	max. Earth dist.	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20	16°¥58'14 0° <b>°</b> 0° <b>8</b> 6° <b>8</b> 41'03 0° <b>I</b>	
minimum elong min. Earth dist. morning rise	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09	18° <b>Ω</b> 49'12 18° <b>Ω</b> 47'26 18° <b>Ω</b> 30'35 16° <b>Ω</b> 45'04	8°37'17 0.28887 AU	max. Earth dist.	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28	16° ¥ 58'14 0° Υ 0° ႘ 6° ႘ 41'03 0° Π 19° Π 03'40	
minimum elong min. Earth dist. morning rise direct	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02	18° <b>△</b> 49'12 18° <b>△</b> 47'26 18° <b>△</b> 30'35 16° <b>△</b> 45'04 10° <b>△</b> 32'04	8°37'17 0.28887 AU	max. Earth dist.	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20	16°米58'14 0°Y 0°8 6°841'03 0°Ⅲ 19°Ⅲ03'40 0°©	
minimum elong min. Earth dist. morning rise direct greatest brilliancy	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09	18° \( \Omega 49' 12\) 18° \( \Omega 47' 26\) 18° \( \Omega 30' 35\) 16° \( \Omega 45' 04\) 10° \( \Omega 32' 04\) 12° \( \Omega 44' 17\)	8°37'17 0.28887 AU	max. Earth dist.	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28	16° ¥ 58'14 0° Υ 0° ႘ 6° ႘ 41'03 0° Π 19° Π 03'40	
minimum elong min. Earth dist. morning rise direct greatest brilliancy	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18	18° \( \Omega \) 49'12 18° \( \Omega \) 47'26 18° \( \Omega \) 30'35 16° \( \Omega \) 45'04 10° \( \Omega \) 32'04 12° \( \Omega \) 44'17 26° \( \Omega \) 13'42	8°37'17 0.28887 AU -4.8m	max. Earth dist.	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24	16°米58'14 0°Y 0°8 6°841'03 0°Ⅲ 19°Ⅲ03'40 0°©	
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 07 05:36	18° \$\times 49'12 18° \$\times 47'26 18° \$\times 30'35 16° \$\times 45'04 10° \$\times 32'04 12° \$\times 44'17 26° \$\times 13'42 0° \$\mathbb{M}\$.	8°37'17 0.28887 AU -4.8m	max. Earth dist.	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00	16° ¥58'14 0° ♥ 0° ♥ 6° ♥41'03 0° Ⅲ 19° Ⅲ03'40 0° ₤ 0° ₤	
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 07 05:36 5078 Dec 20 11:57	18° \$\alpha 49'12 18° \$\alpha 47'26 18° \$\alpha 30'35 16° \$\alpha 45'04 10° \$\alpha 32'04 12° \$\alpha 44'17 26° \$\alpha 13'42 0° \$\mathbf{M}\$. 12° \$\mathbf{M}\$.30'51	8°37'17 0.28887 AU -4.8m	max. Earth dist.	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17	16°¥58'14 0°Y 0°8 6°841'03 0°11 19°103'40 0°9 0°Ω 0°Ω	
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 07 05:36 5078 Dec 20 11:57 5079 Jan 06 03:08	18° № 49'12 18° № 47'26 18° № 30'35 16° № 45'04 10° № 32'04 12° № 44'17 26° № 13'42 0° № 12° № 30'51 0° 🗷	8°37'17 0.28887 AU -4.8m	max. Earth dist.	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30	16°¥58'14 0°Y 0°8 6°841'03 0°II 19°I03'40 0°S 0°A 0°IN 0°IN	
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 07 05:36 5078 Dec 20 11:57 5079 Jan 06 03:08 5079 Feb 01 11:10	18°至49'12 18°至47'26 18°至30'35 16°至45'04 10°至32'04 12°至44'17 26°至13'42 0°肌 12°肌30'51 0°ズ 0°云	8°37'17 0.28887 AU -4.8m	max. Earth dist.  evening rise  asc. node	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30 5081 Sep 06 15:40	16° \ 58'14 0° \ \ 0° \ \ 0° \ \ 8 6° \ \ 841'03 0° \ \ \ 19° \ \ \ 103'40 0° \ \ 0° \ \ 0° \ \ \ \	
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 07 05:36 5078 Dec 20 11:57 5079 Jan 06 03:08 5079 Feb 01 11:10 5079 Feb 26 13:56	18° \$\times 49'12 18° \$\times 47'26 18° \$\times 30'35 16° \$\times 45'04 10° \$\times 32'04 12° \$\times 44'17 26° \$\times 13'42 0° \$\times 12° \$\times 30'51 0° \$\times 100' \$\times 00' \$\	8°37'17 0.28887 AU -4.8m	max. Earth dist.  evening rise  asc. node	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30 5081 Sep 06 15:40 5081 Sep 08 05:21	16° \ 58'14 0° \ \ 0° \ \ 8 6° \ \ 841'03 0° \ \ \ 19° \ \ \ 103'40 0° \ \ \ 0° \ \ \ 0° \ \ \ 0° \ \ \ 0° \ \ \ 0° \ \ \ 0° \ \ \ 0° \ \ \ 0° \ \ \ 0° \ \ \ 0° \ \ \ 0° \ \ \ 0° \ \ \ \	1.71156 AU
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 07 05:36 5078 Dec 20 11:57 5079 Jan 06 03:08 5079 Feb 01 11:10 5079 Feb 26 13:56 5079 Mar 23 03:45 5079 Mar 24 10:25	18° \$\times 49'12 18° \$\times 49'12 18° \$\times 47'26 18° \$\times 30'35 16° \$\times 45'04 10° \$\times 32'04 12° \$\times 44'17 26° \$\times 13'42 0° \$\times 12° \$\times 30'51 0° \$\times 0° \$\times 0° \$\times 12' \$\times 34'11	8°37'17 0.28887 AU -4.8m	max. Earth dist.  evening rise asc. node	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30 5081 Sep 06 15:40 5081 Sep 08 05:21 5081 Oct 04 21:00 5081 Oct 11 19:15	16° \( \) 58'14 0° \( \) 0° \( \) 6° \( \) 41'03 0° \( \) 19° \( \) 103'40 0° \( \) 0° \(	1.71156 AU
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 07 05:36 5078 Dec 20 11:57 5079 Jan 06 03:08 5079 Feb 01 11:10 5079 Feb 26 13:56 5079 Mar 23 03:45 5079 Apr 16 11:39	18°至49'12 18°至47'26 18°至30'35 16°至45'04 10°至32'04 12°至44'17 26°至13'42 0°肌 12°肌30'51 0°ズ 0°云 0°米 1°光34'11	8°37'17 0.28887 AU -4.8m	max. Earth dist.  evening rise asc. node  desc. node evening max el	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30 5081 Sep 06 15:40 5081 Sep 08 05:21 5081 Oct 04 21:00 5081 Oct 11 19:15 5081 Nov 09 03:46	16° ¥ 58'14 0° Y 0° 8 6° 841'03 0° II 19° II 03'40 0° 5 0° 10 0° 10 1° III 44'25 0° メ 6° メ 48'12 0° 5	1.71156 AU 45°59'20
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 07 05:36 5078 Dec 20 11:57 5079 Jan 06 03:08 5079 Feb 01 11:10 5079 Feb 26 13:56 5079 Mar 23 03:45 5079 Mar 24 10:25 5079 May 10 17:33	18°至49'12 18°至47'26 18°至30'35 16°至45'04 10°至32'04 12°至44'17 26°至13'42 0°肌 12°肌30'51 0°ズ 0°云 0°云 0°米 1°升34'11 0°Y 0°엉	8°37'17 0.28887 AU -4.8m	max. Earth dist.  evening rise asc. node  desc. node evening max el greatest brilliancy	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30 5081 Sep 06 15:40 5081 Sep 08 05:21 5081 Oct 04 21:00 5081 Oct 11 19:15 5081 Nov 09 03:46 5081 Nov 20 13:27	16° \ 58'14 0° \ 0° \ 0° \ 8'41'03 0° \ II 19° \ II03'40 0° \ 0° \ 0° \ 0° \ 0° \ 0° \ 0° \ 0°	1.71156 AU
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 07 05:36 5078 Dec 20 11:57 5079 Jan 06 03:08 5079 Feb 01 11:10 5079 Feb 26 13:56 5079 Mar 23 03:45 5079 Mar 24 10:25 5079 May 10 17:33 5079 Jun 03 23:49	18°至49'12 18°至47'26 18°至30'35 16°至45'04 10°至32'04 12°至44'17 26°至13'42 0°肌 12°肌30'51 0°ズ 0°云 0°米 1°升34'11 0°Y 0°と 0°出	8°37'17 0.28887 AU -4.8m	max. Earth dist.  evening rise asc. node  desc. node evening max el greatest brilliancy retrograde	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30 5081 Sep 06 15:40 5081 Sep 08 05:21 5081 Oct 04 21:00 5081 Oct 11 19:15 5081 Nov 09 03:46 5081 Nov 20 13:27 5081 Nov 29 21:16	16° \ 58'14 0° \ 0° \ 0° \ 8'41'03 0° \ II 19° \ I 03'40 0° \ 0° \ 0° \ 0° \ 0° \ 0° \ 0° \ 0°	1.71156 AU 45°59'20
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 07 05:36 5078 Dec 20 11:57 5079 Jan 06 03:08 5079 Feb 01 11:10 5079 Feb 26 13:56 5079 Mar 23 03:45 5079 Mar 24 10:25 5079 May 10 17:33 5079 Jun 03 23:49 5079 Jun 03 23:49 5079 Jun 25 01:16	18°至49'12 18°至47'26 18°至30'35 16°至45'04 10°至32'04 12°至44'17 26°至13'42 0°肌 12°肌30'51 0°ズ 0°云 0°※ 0°沃 1°米34'11 0°Y 0°뭥 0°肌 25°肌59'11	8°37'17 0.28887 AU -4.8m	max. Earth dist.  evening rise asc. node  desc. node evening max el greatest brilliancy	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30 5081 Sep 06 15:40 5081 Sep 08 05:21 5081 Oct 04 21:00 5081 Oct 11 19:15 5081 Nov 09 03:46 5081 Nov 20 13:27 5081 Nov 29 21:16 5081 Dec 14 19:21	16° \ 58'14 0° \ 0° \ 0° \ 0° \ 0° \ 0° \ 0° \ 103'40 0° \ 0° \ 0° \ 0° \ 0° \ 0° \ 0° \ 0°	1.71156 AU 45°59'20
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 07 05:36 5078 Dec 20 11:57 5079 Jan 06 03:08 5079 Feb 01 11:10 5079 Feb 26 13:56 5079 Mar 23 03:45 5079 Mar 24 10:25 5079 May 10 17:33 5079 Jun 03 23:49 5079 Jun 03 23:49 5079 Jun 25 01:16 5079 Jun 28 07:25	18°至49'12 18°至47'26 18°至30'35 16°至45'04 10°至32'04 12°至44'17 26°至13'42 0°肌 12°肌30'51 0°ズ 0°区 0°※ 0°米 1°米34'11 0°Υ 0°と 0°Ⅱ 25°Ⅲ59'11	8°37'17 0.28887 AU -4.8m	max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde evening set	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30 5081 Sep 06 15:40 5081 Sep 08 05:21 5081 Oct 04 21:00 5081 Nov 09 03:46 5081 Nov 20 13:27 5081 Nov 29 21:16 5081 Dec 14 19:21 5081 Dec 19 15:15	16° \ 58'14 0° \ 0° \ 0° \ 0° \ 0° \ 0° \ 0° \ 103'40 0° \ 0° \ 0° \ 0° \ 0° \ 0° \ 0° \ 0°	1.71156 AU 45°59'20 -4.8m
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 07 05:36 5078 Dec 20 11:57 5079 Jan 06 03:08 5079 Feb 01 11:10 5079 Feb 26 13:56 5079 Mar 23 03:45 5079 Mar 24 10:25 5079 May 10 17:33 5079 Jun 03 23:49 5079 Jun 03 23:49 5079 Jun 28 07:25 5079 Jul 15 12:08	18° 至49'12 18° 至47'26 18° 至30'35 16° 至45'04 10° 至32'04 12° 至44'17 26° 至13'42 0° 肌 12° 肌30'51 0° ズ 0° 云 0° ※ 0° 光 1° 米34'11 0° Y 0° 凶 0° Ⅱ 25° 耳59'11 0° ⑤	8°37'17 0.28887 AU -4.8m	max. Earth dist.  evening rise  asc. node  desc. node  evening max el  greatest brilliancy retrograde evening set inferior conj	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30 5081 Sep 06 15:40 5081 Sep 08 05:21 5081 Oct 04 21:00 5081 Nov 09 03:46 5081 Nov 20 13:27 5081 Nov 29 21:16 5081 Dec 14 19:21 5081 Dec 20 15:52	16° X 58'14 0° Y 0° 8 6° 841'03 0° II 19° II 03'40 0° © 0° II 0° II 1° II 04'25 0° II 1° II 44'25 0° II 6° II 48'25 0° II 6°	1.71156 AU 45°59'20 -4.8m
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 07 05:36 5078 Dec 20 11:57 5079 Jan 06 03:08 5079 Feb 01 11:10 5079 Feb 26 13:56 5079 Mar 23 03:45 5079 Mar 24 10:25 5079 May 10 17:33 5079 Jun 03 23:49 5079 Jun 03 23:49 5079 Jun 25 01:16 5079 Jun 28 07:25	18°至49'12 18°至47'26 18°至30'35 16°至45'04 10°至32'04 12°至44'17 26°至13'42 0°肌 12°肌30'51 0°ズ 0°区 0°※ 0°米 1°米34'11 0°Υ 0°と 0°Ⅱ 25°Ⅲ59'11	8°37'17 0.28887 AU -4.8m	max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde evening set inferior conj minimum elong	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30 5081 Sep 06 15:40 5081 Sep 08 05:21 5081 Oct 04 21:00 5081 Oct 11 19:15 5081 Nov 09 03:46 5081 Nov 20 13:27 5081 Dec 14 19:21 5081 Dec 19 15:15 5081 Dec 20 15:52 5081 Dec 20 21:16	16° \( \) \( 58' \) 14 0° \( \) 0° \( \) 6° \( \) 41'03 0° \( \) 19° \( \) 103'40 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 30' \( \) 5° \( \) 330'55 7° \( \) 306'38 2° \( \) 28' \( \) 48'56 30° \( \) 8' \( \) 29° \( \) 22'18 29° \( \) 22'18 29° \( \) 314'00	1.71156 AU  45°59'20  -4.8m  -2°26'07 2°24'26
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node  morning set asc. node	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 02 19:18 5078 Dec 20 11:57 5079 Jan 06 03:08 5079 Feb 01 11:10 5079 Feb 26 13:56 5079 Mar 23 03:45 5079 Mar 24 10:25 5079 Apr 16 11:39 5079 Jun 03 23:49 5079 Jun 03 23:49 5079 Jun 25 01:16 5079 Jun 28 07:25 5079 Jul 15 12:08 5079 Jul 22 16:06	18° \$\times 49'12 18° \$\times 49'12 18° \$\times 47'26 18° \$\times 30'35 16° \$\times 45'04 10° \$\times 23'04 12° \$\times 44'17 26° \$\times 13'42 0° \$\times 0° \$\times 0° \$\times 0° \$\times 10' \$\times 34'11 0° \$\times 0° \$\times 10' \$\times 0° \$\t	8°37'17 0.28887 AU -4.8m 46°26'37	max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30 5081 Sep 06 15:40 5081 Sep 08 05:21 5081 Oct 04 21:00 5081 Oct 11 19:15 5081 Nov 09 03:46 5081 Nov 20 13:27 5081 Dec 14 19:21 5081 Dec 19 15:15 5081 Dec 20 11:65 5081 Dec 20 21:16	16° X 58'14 0° Y 0° 8 6° 841'03 0° II 19° II 03'40 0° © 0° II 0° II 1° II 44'25 0° ダ 6° ダ48'12 0° T 5° T 30'55 7° T 06'38 2° T 48'56 30° R ズ 29° ズ 22'18 29° ズ 14'00 28° ズ 57'46	1.71156 AU 45°59'20 -4.8m
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node  morning set asc. node	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 07 05:36 5078 Dec 20 11:57 5079 Jan 06 03:08 5079 Feb 01 11:10 5079 Feb 26 13:56 5079 Mar 23 03:45 5079 Mar 24 10:25 5079 Apr 16 11:39 5079 May 10 17:33 5079 Jun 03 23:49 5079 Jun 03 23:49 5079 Jun 28 07:25 5079 Jul 15 12:08 5079 Jul 22 16:06	18° 至49'12 18° 至49'12 18° 至47'26 18° 至30'35 16° 至45'04 10° 至32'04 12° 至44'17 26° 至13'42 0° 肌 12° 肌30'51 0° ズ 0° 云 0° ※ 0° 光 1° 光34'11 0° Y 0° と 0° 肌 25° 肌59'11 0° 空 21° 空10'55 0° ん	8°37'17 0.28887 AU -4.8m 46°26'37	max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30 5081 Sep 06 15:40 5081 Sep 08 05:21 5081 Oct 04 21:00 5081 Oct 11 19:15 5081 Nov 09 03:46 5081 Nov 20 13:27 5081 Nov 20 13:27 5081 Nov 20 21:16 5081 Dec 14 19:21 5081 Dec 20 15:52 5081 Dec 20 21:16 5081 Dec 21 07:51 5081 Dec 26 22:29	16° \ 58'14 0° \ 7' 0° \ 8' 6° \ 8'41'03 0° \ 11 19° \ 103'40 0° \ 9 0° \ 0° \ 10 0° \ 10° \ 10° \ 125' 0° \ 248'12 0° \ 30° \ 38 2° \ 348'56 30° \ 8' 29° \ 22'18 29° \ 22'18 29° \ 27'46'35	1.71156 AU  45°59'20  -4.8m  -2°26'07 2°24'26
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node  morning set asc. node	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 02 19:18 5078 Dec 20 11:57 5079 Jan 06 03:08 5079 Feb 01 11:10 5079 Feb 26 13:56 5079 Mar 23 03:45 5079 Mar 24 10:25 5079 Apr 16 11:39 5079 May 10 17:33 5079 Jun 03 23:49 5079 Jun 28 07:25 5079 Jul 25 01:16 5079 Jul 25 01:16 5079 Jul 22 16:06 5079 Aug 01 08:45 5079 Aug 01 08:45 5079 Aug 01 01:20	18° 至49'12 18° 至49'12 18° 至47'26 18° 至30'35 16° 至45'04 10° 至32'04 12° 至44'17 26° 至13'42 0° 肌 12° 肌30'51 0° ズ 0° 云 0° ※ 0° H 1° 升34'11 0° Y 0° B 0° H 25° 肌59'11 0° ⑤	8°37'17 0.28887 AU -4.8m 46°26'37 0°38'58 0°38'38	max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30 5081 Sep 06 15:40 5081 Sep 08 05:21 5081 Oct 04 21:00 5081 Oct 11 19:15 5081 Nov 09 03:46 5081 Nov 20 13:27 5081 Nov 20 13:27 5081 Dec 14 19:21 5081 Dec 19 15:15 5081 Dec 20 21:16 5081 Dec 20 17:51 5081 Dec 26 22:29 5081 Dec 30 07:12	16° ¥ 58'14 0° Y 0° 8 6° 841'03 0° II 19° II 03'40 0° 9 0° II 0° II 1° III 44'25 0° メ 6° メ 48'12 0° 3 5° 30'55 7° 306'38 2° 348'56 30° R メ 29° メ 22'18 29° メ 22'18 29° メ 25'46'35 24° メ 40'35 24° メ 701'30	1.71156 AU  45°59'20  -4.8m  -2°26'07 2°24'26
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node  morning set asc. node	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 02 19:18 5078 Dec 20 11:57 5079 Jan 06 03:08 5079 Feb 01 11:10 5079 Feb 26 13:56 5079 Mar 23 03:45 5079 Mar 24 10:25 5079 Apr 16 11:39 5079 May 10 17:33 5079 Jun 03 23:49 5079 Jun 03 23:49 5079 Jun 28 07:25 5079 Jul 15 12:08 5079 Jul 22 16:06 5079 Aug 01 08:45 5079 Aug 01 01:20 5079 Aug 01 17:32	18° 至49'12 18° 至49'12 18° 至47'26 18° 至30'35 16° 至45'04 10° 至32'04 12° 至44'17 26° 至13'42 0° 肌 12° 肌30'51 0° ズ 0° 云 0° ※ 0° H 1° 升34'11 0° Y 0° B 21° 至10'55 0° 紀 11° 兄55'48 11° 兄32'59 12° 兄22'50	8°37'17 0.28887 AU -4.8m 46°26'37	max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30 5081 Sep 06 15:40 5081 Sep 08 05:21 5081 Oct 04 21:00 5081 Oct 11 19:15 5081 Nov 09 03:46 5081 Nov 20 13:27 5081 Nov 20 13:27 5081 Nov 29 21:16 5081 Dec 14 19:21 5081 Dec 19 15:15 5081 Dec 20 15:52 5081 Dec 20 21:16 5081 Dec 21 07:51 5081 Dec 26 22:29 5081 Dec 30 07:12 5082 Jan 10 11:25	16° ★58'14 0° Y 0° ႘ 6° ႘ 41'03 0° II 19° II 03'40 0° ⑤ 0° II 0° II 1° II 44'25 0° 丞 6° ズ 48'12 0° ♂ 5° ♂ 30'55 7° ♂ 06'38 2° ♂ 48'56 30° ℝ ズ 29° ズ 22'18 29° ズ 14'00 28° ズ 57'46 25° ズ 40'35 24° ズ 10'30 21° ズ 30'13	45°59'20 -4.8m -2°26'07 2°24'26 0.27116 AU
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong max. Earth dist.	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 02 19:18 5078 Dec 20 11:57 5079 Jan 06 03:08 5079 Feb 01 11:10 5079 Feb 26 13:56 5079 Mar 23 03:45 5079 Mar 24 10:25 5079 Apr 16 11:39 5079 May 10 17:33 5079 Jun 03 23:49 5079 Jun 03 23:49 5079 Jun 28 07:25 5079 Jul 15 12:08 5079 Aug 01 08:45 5079 Aug 01 08:45 5079 Aug 01 01:20 5079 Aug 01 17:32 5079 Aug 16 01:09	18° 至49'12 18° 至47'26 18° 至30'35 16° 至45'04 10° 至32'04 12° 至44'17 26° 至13'42 0° 肌 12° 肌30'51 0° ズ 0° 云 0° ※ 0° 光 1° 光34'11 0° Y 0° と 0° 肌 25° 肌59'11 0° の 21° の10'55 0° ん	8°37'17 0.28887 AU -4.8m 46°26'37 0°38'58 0°38'38	max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30 5081 Sep 06 15:40 5081 Sep 08 05:21 5081 Oct 04 21:00 5081 Oct 11 19:15 5081 Nov 09 03:46 5081 Nov 20 13:27 5081 Nov 20 13:27 5081 Nov 29 21:16 5081 Dec 14 19:21 5081 Dec 19 15:15 5081 Dec 20 15:52 5081 Dec 20 21:16 5081 Dec 30 07:12 5082 Jan 10 11:25 5082 Jan 21 07:13	16° ★58'14 0° Y 0° ႘ 6° ႘ 41'03 0° II 19° II 03'40 0° ⑤ 0° II 0° II 1° II 44'25 0° 丞 6° ズ 48'12 0° ♂ 5° ♂ 30'55 7° ♂ 06'38 2° ♂ 48'56 30° ℝ ズ 29° ズ 22'18 29° ズ 14'00 28° ズ 57'46 25° ズ 40'35 24° ズ 10'30 21° ズ 30'13 23° ズ 42'12	1.71156 AU  45°59'20  -4.8m  -2°26'07 2°24'26
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node  morning set asc. node	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 02 19:18 5078 Dec 20 11:57 5079 Jan 06 03:08 5079 Feb 01 11:10 5079 Feb 26 13:56 5079 Mar 23 03:45 5079 Mar 24 10:25 5079 Apr 16 11:39 5079 May 10 17:33 5079 Jun 03 23:49 5079 Jun 03 23:49 5079 Jun 28 07:25 5079 Jul 25 01:16 5079 Jul 25 01:16 5079 Jul 22 16:06 5079 Aug 01 08:45 5079 Aug 01 01:20 5079 Aug 01 17:32 5079 Aug 16 01:09 5079 Sep 06 12:13	18° 至49'12 18° 至49'12 18° 至47'26 18° 至30'35 16° 至45'04 10° 至32'04 12° 至44'17 26° 至13'42 0° 肌 12° 肌30'51 0° ズ 0° 云 0° ※ 0° H 1° 升34'11 0° Y 0° B 21° 至10'55 0° 紀 11° 兄55'48 11° 兄32'59 12° 兄22'50	8°37'17 0.28887 AU -4.8m 46°26'37 0°38'58 0°38'38	max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30 5081 Sep 06 15:40 5081 Sep 08 05:21 5081 Oct 04 21:00 5081 Oct 11 19:15 5081 Nov 09 03:46 5081 Nov 20 13:27 5081 Nov 20 13:27 5081 Nov 29 21:16 5081 Dec 14 19:21 5081 Dec 19 15:15 5081 Dec 20 15:52 5081 Dec 20 21:16 5081 Dec 21 07:51 5081 Dec 26 22:29 5081 Dec 30 07:12 5082 Jan 10 11:25	16° \( \) 58'14 0° \( \) 0° \( \) 6° \( \) 41'03 0° \( \) 19° \( \) 103'40 0° \( \) 30'55 7° \( \) 30'555 7° \( \) 30'555 7° \( \) 30'555 7° \( \) 30'555 7° \( \) 30'555 7° \( \) 30'555 7° \( \) 30'555 7° \( \) 30'555 7° \( \) 30'555 7° \( \) 30'555 7° \( \) 30'555 2° \( \) 48'56 30° \( \) 8' \( \) 48'56 30° \( \) 8' \( \) 48'56 30° \( \) 8' \( \) 48'56 30° \( \) 8' \( \) 48'56 30° \( \) 8' \( \) 48'56 30° \( \) 8' \( \) 40'35 24° \( \) 40'130 21° \( \) 8' 30'13 23° \( \) 8' 42'12 0° \( \) 5'	45°59'20 -4.8m -2°26'07 2°24'26 0.27116 AU
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong max. Earth dist.	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 02 19:18 5078 Dec 20 11:57 5079 Jan 06 03:08 5079 Feb 01 11:10 5079 Feb 26 13:56 5079 Mar 23 03:45 5079 Mar 24 10:25 5079 Apr 16 11:39 5079 May 10 17:33 5079 Jun 03 23:49 5079 Jun 03 23:49 5079 Jun 28 07:25 5079 Jul 15 12:08 5079 Aug 01 08:45 5079 Aug 01 08:45 5079 Aug 01 01:20 5079 Aug 01 17:32 5079 Aug 16 01:09	18° 年49'12 18° 年49'12 18° 年47'26 18° 年30'35 16° 年45'04 10° 年32'04 12° 年44'17 26° 年13'42 0° M 12° M 30'51 0° ズ 0° ズ 0° ズ 0° ズ 1° 光 34'11 0° Y 0° と 0° 川 25° 月59'11 0° の 21° 510'55 0° の 11° 及55'48 11° 及32'59 12° 及22'50 0° M 26° M 24'23 0° 年	8°37'17 0.28887 AU -4.8m 46°26'37 0°38'58 0°38'38	max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30 5081 Sep 06 15:40 5081 Sep 08 05:21 5081 Oct 04 21:00 5081 Oct 11 19:15 5081 Nov 09 03:46 5081 Nov 20 13:27 5081 Nov 20 13:27 5081 Nov 29 21:16 5081 Dec 14 19:21 5081 Dec 19 15:15 5081 Dec 20 15:52 5081 Dec 20 21:16 5081 Dec 30 07:12 5082 Jan 10 11:25 5082 Jan 21 07:13	16° ★58'14 0° Y 0° ႘ 6° ႘ 41'03 0° II 19° II 03'40 0° ⑤ 0° II 0° II 1° II 44'25 0° 丞 6° ズ 48'12 0° ♂ 5° ♂ 30'55 7° ♂ 06'38 2° ♂ 48'56 30° ℝ ズ 29° ズ 22'18 29° ズ 14'00 28° ズ 57'46 25° ズ 40'35 24° ズ 10'30 21° ズ 30'13 23° ズ 42'12	45°59'20 -4.8m -2°26'07 2°24'26 0.27116 AU
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong max. Earth dist.	5078 Oct 09 22:41 5078 Oct 09 23:49 5078 Oct 10 10:37 5078 Oct 13 07:06 5078 Oct 31 11:02 5078 Nov 11 10:09 5078 Dec 02 19:18 5078 Dec 02 19:18 5078 Dec 20 11:57 5079 Jan 06 03:08 5079 Feb 01 11:10 5079 Feb 26 13:56 5079 Mar 23 03:45 5079 Mar 24 10:25 5079 Apr 16 11:39 5079 May 10 17:33 5079 Jun 03 23:49 5079 Jun 03 23:49 5079 Jun 28 07:25 5079 Jul 25 01:16 5079 Jul 25 01:16 5079 Jul 22 16:06 5079 Aug 01 08:45 5079 Aug 01 01:20 5079 Aug 01 17:32 5079 Aug 16 01:09 5079 Sep 06 12:13	18° 至49'12 18° 至47'26 18° 至30'35 16° 至45'04 10° 至32'04 12° 至44'17 26° 至13'42 0° 肌 12° 肌30'51 0° ズ 0° 云 0° 米 1° 米34'11 0° Y 0° と 0° 肌 25° 肌59'11 0° の 21° 至10'55 0° ん	8°37'17 0.28887 AU -4.8m 46°26'37 0°38'58 0°38'38	max. Earth dist.  evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy	5081 Mar 06 21:58 5081 Mar 17 06:34 5081 Apr 10 04:18 5081 Apr 15 12:30 5081 May 04 05:20 5081 May 19 14:28 5081 May 28 11:24 5081 Jun 22 00:00 5081 Jul 16 21:17 5081 Aug 11 07:30 5081 Sep 06 15:40 5081 Sep 08 05:21 5081 Oct 04 21:00 5081 Oct 11 19:15 5081 Nov 09 03:46 5081 Nov 20 13:27 5081 Nov 20 13:27 5081 Dec 14 19:21 5081 Dec 14 19:21 5081 Dec 20 15:52 5081 Dec 20 21:16 5081 Dec 30 07:12 5082 Jan 10 11:25 5082 Feb 01 21:06	16° \( \) 58'14 0° \( \) 0° \( \) 6° \( \) 41'03 0° \( \) 19° \( \) 103'40 0° \( \) 30'55 7° \( \) 30'555 7° \( \) 30'555 7° \( \) 30'555 7° \( \) 30'555 7° \( \) 30'555 7° \( \) 30'555 7° \( \) 30'555 7° \( \) 30'555 7° \( \) 30'555 7° \( \) 30'555 7° \( \) 30'555 2° \( \) 48'56 30° \( \) 8' \( \) 48'56 30° \( \) 8' \( \) 48'56 30° \( \) 8' \( \) 48'56 30° \( \) 8' \( \) 48'56 30° \( \) 8' \( \) 48'56 30° \( \) 8' \( \) 40'35 24° \( \) 40'130 21° \( \) 8' 30'13 23° \( \) 8' 42'12 0° \( \) 5'	45°59'20 -4.8m -2°26'07 2°24'26 0.27116 AU

	5082 Apr 03 11:52	0° <b>)</b> €			5084 Dec 05 01:34	0° <b>≈</b>	
desc. node	5082 Apr 20 22:20	20° <b>¥</b> 15'47		evening max el	5084 Dec 23 13:56	19° <b>≈</b> 25'00	46°55'57
4050. 11040	5082 Apr 29 04:02	0°Υ		evening man er	5085 Jan 03 14:23	0° <b>∀</b>	.0 0007
	5082 May 24 05:32	0°8		asc. node	5085 Jan 26 19:00	17° <b>)</b> 32'39	
	5082 Jun 18 00:57	0°II		greatest brilliancy	5085 Feb 02 03:12	20° <b>)</b> € 26'42	-4.9m
	5082 Jul 12 17:45	0°9		retrograde	5085 Feb 12 03:21	22° <b>H</b> 21'33	1.5111
	5082 Aug 06 08:35	$0^{\circ}\Omega$		evening set	5085 Feb 28 12:28	17° <b>¥</b> 06'22	
asc. node	5082 Aug 11 23:54	6° <b>£</b> 53′13		min. Earth dist.	5085 Mar 04 04:57	14° <b>)</b> 53'38	0.26891 AU
use. Hode	5082 Aug 30 20:50	0°m		inferior conj	5085 Mar 04 18:37	14° <b>X</b> 33'39	7°55'58
morning set	5082 Sep 01 13:49	2° Mp 05'47		minimum elong	5085 Mar 04 09:09	14° <b>)</b> (323)	7°54'28
morning set	5082 Sep 24 06:00	2 110347 0° <b>Ω</b>		morning rise	5085 Mar 08 05:57	12°\(\frac{4}{12}\)	7 34 28
max. Earth dist.	5082 Oct 05 14:27		1.73068 AU	direct	5085 Mar 25 06:07	6° <b>\(\frac{12}{49}\)</b> 18	
max. Earth dist.	3002 Oct 03 14.27	14 ==01 00	1.75006 AU	greatest brilliancy	5085 Apr 03 14:33	8° <b>H</b> 28'44	-4.9m
aumorior aoni	5002 Oct 00 00:25	17° <b>≏</b> 00'46	1925/21	greatest brilliancy	•	0°Υ	-4.9111
superior conj	5082 Oct 08 00:35 5082 Oct 08 01:13	17 <b>≗</b> 0040 17° <b>≗</b> 02'42		mamina may al	5085 May 04 22:56	8° <b>Y</b> 58'56	46°35'49
minimum elong		0°M	1 23 21	morning max el desc. node	5085 May 14 08:30	13° <b>Y</b> 04'07	40 33 49
	5082 Oct 18 12:33	0°116 0° <b>√</b> 7		desc. node	5085 May 18 10:13	13 <b>1</b> 04 07	
	5082 Nov 11 17:29				5085 Jun 03 11:35		
evening rise	5082 Nov 14 05:02	3° <b>х</b> 04'39			5085 Jun 30 06:23	0°II	
desc. node	5082 Dec 01 15:06	24° <b>₹</b> 41'47			5085 Jul 26 02:03	0°€	
	5082 Dec 05 21:38	ිර ව		,	5085 Aug 20 09:40	0°N	
	5082 Dec 30 01:22	0° <b>≈</b>		asc. node	5085 Sep 08 11:47	22° <b>Ω</b> 55'26	
	5083 Jan 23 05:23	0° <b>)</b> €			5085 Sep 14 08:14	0° mp	
	5083 Feb 16 11:50	0° <b>Υ</b>			5085 Oct 08 22:54	0∘ <b>⊽</b>	
	5083 Mar 13 01:28	0°8			5085 Nov 02 07:05	0° <b>M</b> ₊	
asc. node	5083 Mar 24 16:35	13° <b>8</b> 57'52		morning set	5085 Nov 09 06:34	8°MJ38'48	
	5083 Apr 07 06:50	$\Pi^{\circ}0$			5085 Nov 26 10:45	0° <b>∡</b> ¹	
	5083 May 03 21:32	0		max. Earth dist.	5085 Dec 14 19:38	22° <b>₹</b> 55'09	1.71827 AU
evening max el	5083 May 19 22:06	16° <b>©</b> 36'39	46°07'40				
	5083 Jun 03 09:30	$0 {\circ} \Omega$		superior conj	5085 Dec 17 09:54	26° <b>₹</b> 09'44	0°27'45
greatest brilliancy	5083 Jun 27 08:18	15° <b>Ω</b> 37′21	-4.8m	minimum elong	5085 Dec 17 16:20	26° <b>₹</b> 29'51	0°27'28
retrograde	5083 Jul 08 09:28	17° <b>Ω</b> 51'21			5085 Dec 20 11:34	0°ප	
desc. node	5083 Jul 14 07:46	17° <b>Ω</b> 09'11		desc. node	5085 Dec 29 02:55	10° <b>る</b> 48'43	
evening set	5083 Jul 23 15:21	13° <b>Ω</b> 21'40			5086 Jan 13 10:33	0° <b>≈</b>	
inferior conj	5083 Jul 29 21:24	9° <b>Ω</b> 35'56	-3°37'05	evening rise	5086 Jan 26 13:19	16° <b>≈</b> 27'09	
minimum elong	5083 Jul 29 14:00	9° <b>Ω</b> 47'32	3°35'05		5086 Feb 06 08:28	0° <b>∀</b>	
min. Earth dist.	5083 Jul 29 11:07	9° <b>Ω</b> 52'03	0.28825 AU		5086 Mar 02 06:39	$0$ ° $\Upsilon$	
morning rise	5083 Aug 04 12:53	6° <b>Ω</b> 10′33			5086 Mar 26 07:32	$8^{\circ}$ 0	
direct	5083 Aug 20 08:35	1° <b>Ω</b> 23′20			5086 Apr 19 14:22	$\Pi$ $^{\circ}0$	
greatest brilliancy	5083 Aug 30 10:01	3° <b>Ω</b> 11′56	-4.7m	asc. node	5086 Apr 21 04:36	1° <b>Ⅱ</b> 57'10	
	5083 Oct 06 22:02	O° Mp			5086 May 14 07:15	$0$ $\circ$ $\odot$	
morning max el	5083 Oct 08 01:57	1°Mp06'37	45°46'09		5086 Jun 08 16:15	$0^{\circ}\Omega$	
asc. node	5083 Nov 04 09:36	29° <b>m</b> 29'11			5086 Jul 05 06:25	0° <b>m</b> )	
	5083 Nov 04 20:47	0∘ <b>⊽</b>		evening max el	5086 Jul 29 12:42	25° <b>m</b> 02'27	45°32'40
	5083 Dec 01 03:09	0°M			5086 Aug 03 19:22	0∘ <b>⊽</b>	
	5083 Dec 26 05:15	0° <b>∡</b> ¹		desc. node	5086 Aug 10 19:38	6° <b>£</b> 11'52	
	5084 Jan 19 16:50	0°ප		greatest brilliancy	5086 Sep 06 03:59	22° <b>≏</b> 59'25	-4.7m
	5084 Feb 12 20:51	0° <b>≈</b>		retrograde	5086 Sep 16 05:09	24° <b>≙</b> 48'09	
desc. node	5084 Feb 24 00:30	13° <b>≈</b> 55′06		evening set	5086 Oct 04 07:50	18° <b>≙</b> 40'02	
	5084 Mar 07 21:03	0° <b>)</b> €		inferior conj	5086 Oct 07 14:39	16° <b>≙</b> 38′23	-8°37'47
	5084 Mar 31 19:45	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	5086 Oct 07 15:01	16° <b>≏</b> 37'49	8°37'47
morning set	5084 Apr 10 07:19	11° <b>Y</b> 52'43		min. Earth dist.	5086 Oct 08 01:04	16° <b>≏</b> 22'06	0.28922 AU
	5084 Apr 24 18:55	$B_{\circ 0}$		morning rise	5086 Oct 10 22:06	14° <b>≏</b> 35'36	
	5084 May 18 20:12	$\Pi^{\circ}0$		direct	5086 Oct 29 03:58	8° <b>≏</b> 21'10	
				greatest brilliancy	5086 Nov 09 00:47	10° <b>≏</b> 31'22	-4.8m
superior conj	5084 May 19 21:14	1° <b>Ⅱ</b> 17'51	-0°59'35	asc. node	5086 Dec 01 21:21	25° <b>£</b> 11'29	
minimum elong	5084 May 20 07:55	1° <b>Ⅱ</b> 51′05			5086 Dec 07 09:28	0° <b>M</b> .	
max. Earth dist.	5084 May 23 13:51	5° <b>Ⅱ</b> 53'16	1.72319 AU	morning max el	5086 Dec 18 03:29	10°ML15'37	46°24'46
	5084 Jun 12 00:35	0ಂತಾ		-	5087 Jan 05 20:24	0° <b>∡</b> ¹	
asc. node	5084 Jun 16 02:20	5° <b>©</b> 02'09			5087 Feb 01 01:28	0°ರ	
evening rise	5084 Jun 27 10:06	19° <b>©</b> 00'37			5087 Feb 26 02:54	0° <b>≈</b>	
S	5084 Jul 06 08:19	0°N			5087 Mar 22 15:57	0° <b>)</b> €	
	5084 Jul 30 19:24	o°mp		desc. node	5087 Mar 23 12:27	1° <b>)</b> €03'01	
	5084 Aug 24 10:33	0∘ <b>ರ</b>			5087 Apr 15 23:22	0°Υ	
	5084 Sep 18 07:34	0°M			5087 May 10 04:55	0°8	
desc. node	5084 Oct 05 17:15	20°M44'49			5087 Jun 03 10:55	0°II	
	5084 Oct 13 13:05	0° <b>⊼</b> ¹		morning set	5087 Jun 22 17:26	23° <b>II</b> 47'24	
	5084 Nov 08 07:27	°ਤ ਹ°ਤ			5087 Jun 27 18:19	<sub>29</sub> ස	
					2, 10.17		

asc. node	5087 Jul 14 14:01	20°543'25		inferior conj	5089 Dec 18 05:21	27° <b>∡</b> 00'03	
	5087 Jul 22 02:53	$0^{\circ}\Omega$		minimum elong	5089 Dec 18 11:30	26° <b>≯</b> 50'37	
				min. Earth dist.	5089 Dec 18 22:45	26° <b>₹</b> ³33'22	0.27170 AU
superior conj	5087 Jul 30 02:09	9° <b>Ω</b> 48'29	0°36'02	morning rise	5089 Dec 24 11:24	23° <b>∡</b> 18'51	
minimum elong	5087 Jul 29 19:09	9° <b>Ω</b> 26'58	0°35'43	asc. node	5089 Dec 29 09:04	21° <b>尽</b> 00'53	
max. Earth dist.	5087 Jul 30 15:26	10° <b>Ω</b> 29'23	1.73404 AU	direct	5090 Jan 08 00:52	19° <b>₹</b> '06'48	
	5087 Aug 15 11:55	O° Mp		greatest brilliancy	5090 Jan 18 23:06		-4.9m
evening rise	5087 Sep 04 06:31	24° m 19'43		8	5090 Feb 02 20:13	0°ਰ	
evening rise	5087 Sep 04 00:31 5087 Sep 08 21:10	0° <u>م</u>		morning max el	5090 Feb 27 15:25	22° <b>ਰ</b> 14'21	46°58'25
	•	0° <b>M</b>		morning max ci		0°≈	40 38 23
	5087 Oct 03 07:13				5090 Mar 07 03:08		
	5087 Oct 27 18:57	0° <b>∡</b> 7			5090 Apr 03 03:37	0° <b>∺</b>	
desc. node	5087 Nov 03 05:16	7° <b>∡</b> ′51'31		desc. node	5090 Apr 20 00:26	19° <b>)</b> 40′00	
	5087 Nov 21 09:04	0°ಕ			5090 Apr 28 17:47	$\mathbf{\gamma}_0$	
	5087 Dec 16 02:22	0° <b>≈</b>			5090 May 23 18:11	$9^{\circ}$ 8	
	5088 Jan 10 01:50	0° <b>∀</b>			5090 Jun 17 12:54	$\Pi^{\circ}0$	
	5088 Feb 04 16:21	$0$ ° $\Upsilon$			5090 Jul 12 05:14	$0$ $\circ$ $\odot$	
asc. node	5088 Feb 24 06:45	21° <b>Y</b> 51'30			5090 Aug 05 19:45	$0^{\circ}\Omega$	
	5088 Mar 02 23:36	0°8		asc. node	5090 Aug 11 01:56	6° <b>Ω</b> 25'31	
evening max el	5088 Mar 06 05:30	3° <b>8</b> 19'35	47°02'29	morning set	5090 Aug 30 07:08	29° <b>Ω</b> 57'59	
evening max er	5088 Apr 06 15:49	0° <b>I</b>	17 0229	morning sec	5090 Aug 30 07:48	0° m)	
areatast brillianas	•		-4.9m		-	0∘ <del>ত</del>	
greatest brilliancy	5088 Apr 15 09:44		-4.9111	D 4 F	5090 Sep 23 16:54		1 72102 411
retrograde	5088 Apr 25 19:22	6° <b>Ⅱ</b> 21'29		max. Earth dist.	5090 Oct 03 09:28	11° <b>≏</b> 57'55	1.73103 AU
evening set	5088 May 12 09:39	0° <b>∏</b> 58'17					
	5088 May 14 00:28	30° <b>₹8</b>		superior conj	5090 Oct 05 18:01	14° <b>≙</b> 52'38	1°25'24
inferior conj	5088 May 16 19:17	28° <b>8</b> 16'19		minimum elong	5090 Oct 05 17:55	14° <b>≏</b> 52'20	1°25'24
minimum elong	5088 May 17 05:46	27° <b>8</b> 59'57	6°25'38		5090 Oct 17 23:29	0° <b>M</b> .	
min. Earth dist.	5088 May 16 16:20	28° <b>8</b> 20'56	0.27841 AU		5090 Nov 11 04:32	0° <b>∡</b> ¹	
morning rise	5088 May 22 02:17	25° <b>8</b> 04'45		evening rise	5090 Nov 11 20:24	0° <b>∡</b> 749′10	
direct	5088 Jun 06 19:00	20° <b>8</b> 18'37		desc. node	5090 Nov 30 17:03	24° <b>∡</b> 13'04	
desc. node	5088 Jun 14 21:52	21° <b>8</b> 32'42			5090 Dec 05 08:52	0°ರ	
greatest brilliancy	5088 Jun 16 10:45	22° <b>8</b> 02'04	-4.8m		5090 Dec 29 12:51	0° <b>≈</b>	
· ·	5088 Jul 01 09:17	0° <b>I</b> I			5091 Jan 22 17:10	0° <b>₩</b>	
morning max el	5088 Jul 25 21:03	20° <b>Ⅱ</b> 43'02	45°51'56		5091 Feb 16 00:04	0° <b>Υ</b>	
morning man er	5088 Aug 04 06:19	0°9			5091 Mar 12 14:27	0°8	
	5088 Sep 01 07:11	0°Ω		asc. node	5091 Mar 23 18:41	13° <b>8</b> 23'44	
	5088 Sep 27 14:17	0°m)		asc. Houc	5091 Apr 06 21:18	0° <b>Ⅱ</b>	
1-					•	0ಂಣ ೧ π	
asc. node	5088 Oct 05 23:44	9° m/49'52			5091 May 03 15:26		4.600.012.4
	5088 Oct 22 22:41	0∘ <b>亚</b>		evening max el	5091 May 17 12:52	14°9520'13	46°09'34
	5088 Nov 16 16:13	0° <b>M</b> -			5091 Jun 03 17:04	$0$ $\circ$ $\Omega$	
	5088 Dec 11 00:03	0° <b>∡</b>		greatest brilliancy	5091 Jun 25 00:08	13° <b>Ω</b> 25′21	-4.8m
	5089 Jan 04 01:59	0°ප		retrograde	5091 Jul 06 01:58	15° <b>Ω</b> 40'21	
morning set	5089 Jan 20 22:01	21° <b>る</b> 05'02		desc. node	5091 Jul 13 09:44	14° <b>£</b> 35′36	
desc. node	5089 Jan 25 14:38	26° <b>⋜</b> 58'15		evening set	5091 Jul 21 06:20	11° <b>Ω</b> 11'49	
	5089 Jan 28 00:33	0° <b>≈</b>		min. Earth dist.	5091 Jul 27 03:13	7° <b>Ω</b> 40'58	0.28796 AU
	5089 Feb 20 21:18	0° <b>∀</b>		inferior conj	5091 Jul 27 13:27	7° <b>Ω</b> 24'57	-3°18'35
				minimum elong	5091 Jul 27 06:34	7° <b>Ω</b> 35'44	3°16'41
superior conj	5089 Mar 03 04:20	12° <b>)</b> €56'56	-1°14'06	morning rise	5091 Aug 02 07:04	3° <b>Ω</b> 56'54	
minimum elong	5089 Mar 02 17:27	12° <b>)</b> 22'44			5091 Aug 11 16:21	30°Rூ	
max. Earth dist.	5089 Mar 04 01:00		1.71149 AU	direct	5091 Aug 11 10:21 5091 Aug 18 00:01	29° <b>©</b> 12'35	
max. Lartii dist.	5089 Mar 16 17:42	0° <b>Υ</b>	1./114) AU	uncet	5091 Aug 18 00:01 5091 Aug 24 13:06	0°Ω	
		0°8			•		4.7
	5089 Apr 09 15:27			greatest brilliancy	5091 Aug 28 01:57	1° <b>Ω</b> 01'47	
evening rise	5089 Apr 12 23:25	4° <b>8</b> 10'12		morning max el	5091 Oct 05 17:45	28° <b>Ω</b> 55'32	45°45'31
	5089 May 03 16:32	0° <b>I</b> I			5091 Oct 06 20:34	0° <b>m</b> )	
asc. node	5089 May 18 16:28	18° <b>Ⅲ</b> 35′00		asc. node	5091 Nov 03 11:39	28° <b>m</b> 51'04	
	5089 May 27 22:44	0			5091 Nov 04 12:33	0∘ <b>ত</b>	
	5089 Jun 21 11:38	$0 {\circ} \Omega$			5091 Nov 30 16:37	0° <b>M</b> .	
	5089 Jul 16 09:30	0° <b>m</b> p			5091 Dec 25 17:41	0° <b>∡</b> ¹	
	5089 Aug 10 20:49	0∘ <b>⊽</b>			5092 Jan 19 04:44	5°0	
	5089 Sep 06 07:13	0°M			5092 Feb 12 08:25	0° <b>≈</b>	
desc. node	5089 Sep 07 07:23	1°M06'41		desc. node	5092 Feb 23 02:35	13° <b>≈</b> 25'55	
	5089 Oct 04 18:18	0° <b>∡</b> 7			5092 Mar 07 08:23	0° <b>₩</b>	
evening max el	5089 Oct 09 08:02	4° <b>₹</b> '27'18	45°57'36		5092 Mar 31 06:54	0° <b>Υ</b>	
	5089 Nov 10 19:38	0°る		morning set	5092 Apr 07 18:54	9° <b>Υ</b> 23'55	
greatest brilliancy	5089 Nov 18 03:31	0 3 3° <b>る</b> 10'05	-4.8m	morning set	5092 Apr 07 18:54 5092 Apr 24 05:55	9 1 23 33 0° <b>8</b>	
		4° <b>る</b> 44'54	- <del>1</del> .0111		5052 Apr 24 05.55	v O	
retrograde	5089 Nov 27 09:49	4°る44°34 0°る23'48		gunorier con:	5002 May 17, 11:00	200	1002110
evening set	5089 Dec 12 10:47			superior conj	5092 May 17 11:08	28° <b>8</b> 57'47	
	5089 Dec 13 04:07	30°₹ <b>৴</b>		minimum elong	5092 May 17 21:56	29° <b>8</b> 31'21	1 01 49

	5092 May 18 07:08	0°Щ			5094 Dec 07 11:55	0°M₊	
may Forth dist	5092 May 21 03:19		1.72272 AU	morning may al	5094 Dec 15 17:58	7°M57'30	46°23'03
max. Earth dist.		о°©	1./22/2 AU	morning max el	5094 Dec 13 17.38 5095 Jan 05 13:23	/ 1163/30 0° <b>√</b> 1	40 23 03
1	5092 Jun 11 11:32						
asc. node	5092 Jun 15 04:14	4°534'14			5095 Jan 31 15:38	%ರ	
evening rise	5092 Jun 25 02:22	16°9549'07			5095 Feb 25 15:45	0° <b>≈</b>	
	5092 Jul 05 19:18	0° <b>Q</b>			5095 Mar 22 04:04	0° <b>)</b> {	
	5092 Jul 30 06:33	0° <b>m</b> )		desc. node	5095 Mar 22 14:29	0° <b>)</b> 32′04	
	5092 Aug 23 22:02	0∘ <b>亚</b>			5095 Apr 15 11:00	0° <b>Ƴ</b>	
	5092 Sep 17 19:38	0° <b>™</b>			5095 May 09 16:12	0° <b>8</b>	
desc. node	5092 Oct 04 19:21	20°M13'23			5095 Jun 02 21:55	0°II	
	5092 Oct 13 02:10	0° <b>∡</b> 7		morning set	5095 Jun 20 09:49	21° <b>Ⅱ</b> 36'35	
	5092 Nov 07 22:16	6°0			5095 Jun 27 05:05	0°©	
	5092 Dec 04 19:59	0° <b>≈</b>		asc. node	5095 Jul 13 16:05	20°9516'54	
evening max el	5092 Dec 21 04:23	17°≈02'52	46°54'30		5095 Jul 21 13:31	$0$ ° $\Omega$	
_	5093 Jan 03 20:38	0° <b>∀</b>				0	
asc. node	5093 Jan 25 21:03	15° <b>¥</b> 53′13		superior conj	5095 Jul 27 19:47	7° <b>Ω</b> 42'19	
greatest brilliancy	5093 Jan 30 15:22	17° <b>) (</b> 57'44	-4.9m	minimum elong	5095 Jul 27 13:15	7° <b>Ω</b> 22'13	0°32'47
retrograde	5093 Feb 09 16:48	19° <b>¥</b> 53′23		max. Earth dist.	5095 Jul 28 12:47	8° <b>Ω</b> 34'39	1.73387 AU
evening set	5093 Feb 25 20:47	14° <b>) (</b> 44'40			5095 Aug 14 22:33	0° <b>m</b> )	
min. Earth dist.	5093 Mar 01 17:09	12° <b>)</b> € 26′24	0.26859 AU	evening rise	5095 Sep 02 00:56	22° m/15'50	
inferior conj	5093 Mar 02 07:10	12° <b>)</b> €04'55	7°43'42		5095 Sep 08 07:55	0∘ <b>⊽</b>	
minimum elong	5093 Mar 01 21:14	12° <b>∺</b> 20′09	7°42'01		5095 Oct 02 18:12	$0^{\circ}$ M	
morning rise	5093 Mar 05 21:52	9° <b>¥</b> 54'06			5095 Oct 27 06:18	0° <b>∡</b> ¹	
direct	5093 Mar 22 19:06	4° <b>¥</b> 22'06		desc. node	5095 Nov 02 07:10	7° <b>∡</b> ′22'19	
greatest brilliancy	5093 Apr 01 02:45	6° <b>∺</b> 01'24	-4.9m		5095 Nov 20 20:55	0°ප	
	5093 May 05 02:09	0° <b>Υ</b>			5095 Dec 15 14:58	0° <b>≈</b>	
morning max el	5093 May 11 22:40	6° <b>Ƴ</b> 37'53	46°37'22		5096 Jan 09 15:35	0° <b>∀</b>	
desc. node	5093 May 17 12:09	12° <b>Y</b> 14'35			5096 Feb 04 08:16	0° <b>Υ</b>	
	5093 Jun 03 05:00	$0^{\circ}$ 8		asc. node	5096 Feb 23 08:51	21° <b>Y</b> 05'42	
	5093 Jun 29 20:38	$\Pi$ °0			5096 Mar 02 21:04	$0^{\circ}S$	
	5093 Jul 25 14:48	0		evening max el	5096 Mar 03 19:17	0° <b>8</b> 56'30	47°03'29
	5093 Aug 19 21:32	$0^{\circ}\Omega$			5096 Apr 08 10:55	$\Pi$ $^{\circ}0$	
asc. node	5093 Sep 07 13:51	22° <b>Ω</b> 27′08		greatest brilliancy	5096 Apr 13 02:01	2° <b>Ⅱ</b> 02'11	-4.9m
	5093 Sep 13 19:36	0° <b>m</b> )		retrograde	5096 Apr 23 09:38	4° <b>Ⅱ</b> 02'13	
	5093 Oct 08 09:58	0∘ <b>⊽</b>			5096 May 07 15:11	30° <b>₹</b> 8	
_	5093 Nov 01 18:01	0° <b>™</b>		evening set	5096 May 10 03:26	28° <b>8</b> 34'55	
morning set	5093 Nov 06 22:33	6° <b>™</b> 25'42		inferior conj	5096 May 14 09:46	25° <b>8</b> 57'47	
	5093 Nov 25 21:40	0° <b>∡</b> 7	. =	minimum elong	5096 May 14 20:13	25° <b>8</b> 41'28	6°41'06
max. Earth dist.	5093 Dec 12 07:30	20° <b>₹</b> 28'09	1.71869 AU	min. Earth dist.	5096 May 14 07:02		0.27807 AU
	5002 D 14 22 05	220 746141	0021114	morning rise	5096 May 19 13:20	22° <b>8</b> 50'50	
superior conj	5093 Dec 14 23:05	23° 🗷 46'41	0°31'14	direct	5096 Jun 04 08:45	18° <b>8</b> 00'43	
minimum elong	5093 Dec 15 06:09	24° <b>₹</b> 08'49	0°30'54	desc. node	5096 Jun 13 23:49	19° <b>8</b> 43'18	4.0
JJ.	5093 Dec 19 22:32	0°る		greatest brilliancy	5096 Jun 14 00:33	_	-4.8m
desc. node	5093 Dec 28 04:50	10°る20'18 0°≈			5096 Jul 02 03:56 5096 Jul 23 10:37	0° <b>Ц</b> 18° <b>Ц</b> 25'38	45°53'07
evening rise	5094 Jan 12 21:37	0 ≈ 13°≈57'15		morning max el		18 <b>п</b> 25 38	43 33 07
evening rise	5094 Jan 24 00:40 5094 Feb 05 19:38	13 ≈3/13 0° <b>)</b>			5096 Aug 04 01:31 5096 Aug 31 21:44	0°€ 0°€	
	5094 Ner 01 17:58	0°Υ			5096 Sep 27 02:57	0° <b>m</b> )	
		%8 0°8		asc node	•	9° <b>m</b> ) 19'37	
	5094 Mar 25 19:01 5094 Apr 19 02:10	0° <b>I</b>		asc. node	5096 Oct 05 01:45 5096 Oct 22 10:27	0₀ <b>ʊ</b>	
aga mada	-	0 H 1°H27′03				0°M	
asc. node	5094 Apr 20 06:35 5094 May 13 19:37	0°95			5096 Nov 16 03:32 5096 Dec 10 11:08	0° <b>⊼</b> ¹	
	5094 Jun 08 05:48	0°€ 0 €			5097 Jan 03 12:58	0° <b>ろ</b>	
	5094 Jul 04 22:42	0° <b>m</b> )		morning set	5097 Jan 18 09:15	18° <b>る</b> 35'24	
avanina may al			45022145	desc. node	5097 Jan 24 16:46	18 <b>3</b> 33 24 26° <b>る</b> 30'39	
evening max el	5094 Jul 27 04:35	22°Mp51'51 0° <b>₽</b>	45°32'45	desc. node	5097 Jan 27 11:28	20 <b>⊘</b> 30 39	
desc. node	5094 Aug 03 20:45 5094 Aug 09 21:41	0° <b>1</b> 213'18			5097 Feb 20 08:12	0° <b>∺</b>	
	•	20° <b>£</b> 47'58	-4.7m		3037 FGU ZU U8.12	υ <b>Λ</b>	
greatest brilliancy retrograde	5094 Sep 03 18:27 5094 Sep 13 20:25	20° <b>±</b> 47′58 22° <b>£</b> 37′15	-4./111	superior conj	5097 Feb 28 14:36	10° <b>¥</b> 24'05	1011154
evening set	5094 Sep 13 20:25 5094 Oct 01 22:45	16° <b>£</b> 30′21		minimum elong	5097 Feb 28 14:36 5097 Feb 28 03:18	9° <b>X</b> 48'32	
inferior conj	5094 Oct 01 22:45 5094 Oct 05 06:30	16° <b>≥≥</b> 30′21 14° <b>⊆</b> 27′00	_8°37'2 <i>1</i>	max. Earth dist.	5097 Heb 28 03:18 5097 Mar 01 02:38		1.71140 AU
minimum elong	5094 Oct 05 06:30 5094 Oct 05 06:04	14° <b>£</b> 27'00 14° <b>£</b> 27'40		max. Darui Uist.	5097 Mar 01 02:38 5097 Mar 16 04:34	0° <b>Υ</b>	1./1140 AU
min. Earth dist.	5094 Oct 05 06:04 5094 Oct 05 15:43	14° <b>£</b> 27'40 14° <b>£</b> 12'34	0.28956 AU		5097 Mar 16 04:34 5097 Apr 09 02:20	0° <b>8</b>	
			0.20730 AU	avaning rice	•	1° <b>8</b> 39'55	
morning rise direct	5094 Oct 08 13:18 5094 Oct 26 20:26	12° <b>£</b> 24'57 6° <b>£</b> 09'42		evening rise	5097 Apr 10 10:16 5097 May 03 03:28	0°Ⅱ	
greatest brilliancy	5094 Nov 06 15:36	8° <b>£</b> 18'00	-4.8m	asc. node	5097 May 17 18:24	0 <u>П</u> 18° <b>П</b> 06'55	
asc. node	5094 Nov 30 23:14	24° <b>£</b> 09'56	т.ош	ase. Houe	5097 May 27 09:48	0°©	
450. 110de	507 1 140 V 50 25.17	20/30			2071 11thy 21 07.70	· •	

	5097 Jun 20 23:00	$0 {\circ} \Omega$			5099 Nov 30 05:31	0° <b>M</b>	
	5097 Jul 15 21:26	O° Mp			5099 Dec 25 05:38	0° <b>∡</b> 7	
	5097 Aug 10 09:50	0∘ <b>ত</b>			5100 Jan 18 16:12	8°0	
	5097 Sep 05 22:33	0°M			5100 Feb 11 19:39	0° <b>≈</b>	
desc. node	5097 Sep 06 09:29	0°M30'00		desc. node	5100 Feb 22 04:37	12° <b>≈</b> 57'31	
	5097 Oct 04 15:57	0° <b>√</b>			5100 Mar 07 19:25	0° <b>\</b>	
evening max el	5097 Oct 06 20:47	2° <b>҂</b> 07'36	45°55'47		5100 Mar 31 17:48	$0^{\circ}$ Y	
<i>5 5</i>	5097 Nov 13 10:19	0°₹		morning set	5100 Apr 06 05:56	6° <b>Y</b> ′54′02	
greatest brilliancy	5097 Nov 15 16:50	0° <b>る</b> 49'20	-4.8m		5100 Apr 24 16:42	0°8	
retrograde	5097 Nov 24 22:41	2°₹23'58			510011p1 21 10.12	ů <b>O</b>	
retrograde	5097 Dec 05 22:59	30°R. <b>₹</b>		superior conj	5100 May 16 00:28	26° <b>8</b> 36'36	1904'42
evening set	5097 Dec 03 22:39 5097 Dec 10 02:14	27° <b>₹</b> 158'57		minimum elong	5100 May 16 00:28 5100 May 16 11:17	20 <b>8</b> 30 30 27° <b>8</b> 10'17	
•		24° <b>×</b> 38'15	2900151	minimum clong	•	27 <b>Ο</b> 1017 0° <b>Π</b>	1 0421
inferior conj	5097 Dec 15 18:43			E d Ed	5100 May 18 17:49		1 72220 ATT
minimum elong	5097 Dec 16 01:34	24° 🖈 27'45		max. Earth dist.	5100 May 19 18:06	1° <b>Ⅱ</b> 15'33	1.72220 AU
min. Earth dist.	5097 Dec 16 13:17	24° <b>₹</b> 09'48	0.27233 AU		5100 Jun 11 22:10	0°50	
morning rise	5097 Dec 22 00:03	20° <b>₹</b> 58'04		asc. node	5100 Jun 15 06:17	4°507'42	
asc. node	5097 Dec 28 11:11	18° <b>≯</b> 05'24		evening rise	5100 Jun 23 18:19	14° <b>©</b> 37'32	
direct	5098 Jan 05 14:36	16° <b>≯</b> 43'39			5100 Jul 06 05:59	$0$ $\circ$ $\Omega$	
greatest brilliancy	5098 Jan 16 14:47	18° <b>₹</b> 59'37	-4.9m		5100 Jul 30 17:23	0° <b>m</b> y	
	5098 Feb 03 13:11	0°ප			5100 Aug 24 09:12	0∘ <b>⊽</b>	
morning max el	5098 Feb 25 05:39	19° <b>る</b> 51'49	46°58'12		5100 Sep 18 07:24	0° <b>M</b> ₊	
	5098 Mar 06 22:55	0° <b>≈</b>		desc. node	5100 Oct 04 21:17	19° <b>M</b> 42'34	
	5098 Apr 02 18:55	0° <b>∀</b>			5100 Oct 13 14:55	0° <b>∡</b> ¹	
desc. node	5098 Apr 19 02:25	19° <b>)</b> 04'56			5100 Nov 08 12:49	0°ರ	
	5098 Apr 28 07:07	$0^{\circ}\Upsilon$			5100 Dec 05 14:21	0° <b>≈</b>	
	5098 May 23 06:26	0°8		evening max el	5100 Dec 19 19:07	14° <b>≈</b> 42'56	46°52'50
	5098 Jun 17 00:27	0° <b>I</b>		evening man er	5101 Jan 05 04:36	0° <b>∀</b>	.0 0200
	5098 Jul 11 16:19	0°©		asc. node	5101 Jan 25 23:05	14° <b>)</b> 11'15	
	5098 Aug 05 06:31	0°Ω		greatest brilliancy	5101 Jan 29 03:46	15° <b>)</b> 30'24	-4.9m
aca mada	•	5° <b>Ω</b> 59'09			5101 Jan 29 05:40 5101 Feb 08 05:59	17° <b>)</b> 26'07	-4.9111
asc. node	5098 Aug 10 04:01			retrograde		17 <b>H</b> 26 07	
morning set	5098 Aug 28 00:49	27° <b>£</b> 52′29		evening set	5101 Feb 24 05:13		0.26022 ATT
	5098 Aug 29 18:22	0° <b>m</b>		min. Earth dist.	5101 Feb 28 05:37	9° <b>¥</b> 59'49	0.26833 AU
	5098 Sep 23 03:23	0∘ <b>ত</b>		inferior conj	5101 Feb 28 19:44	9° <b>)</b> (38′11	7°30'32
max. Earth dist.	5098 Oct 01 06:55	10° <b>≏</b> 03′28	1.73134 AU	minimum elong	5101 Feb 28 09:26	9° <b>)</b> 53′58	7°28'39
				morning rise	5101 Mar 04 13:53	7° <b>¥</b> 22'22	
superior conj	5098 Oct 03 11:52			direct	5101 Mar 21 08:14	1° <b>¥</b> 55'55	
minimum elong	5098 Oct 03 11:05	12° <b>≏</b> 44'37	1°25'19	greatest brilliancy	5101 Mar 30 15:17	3° <b>∺</b> 34'53	-4.9m
	5098 Oct 17 09:59	0° <b>M</b>			5101 May 06 03:43	$0^{\circ}$ Y	
evening rise	5098 Nov 09 12:14	28°M36'29		morning max el	5101 May 10 12:10	4° <b>Ƴ</b> 15′26	46°38'46
	5098 Nov 10 15:11	0° <b>∡</b> ¹		desc. node	5101 May 17 14:08	11° <b>Y</b> 26'25	
desc. node	5098 Nov 29 19:04	23° <b>∡</b> ¹45'38			5101 Jun 03 21:55	0°8	
	5098 Dec 04 19:46	0°రె			5101 Jun 30 10:34	$\Pi^{\circ}0$	
	5098 Dec 29 00:03	0° <b>≈</b>			5101 Jul 26 03:14	0°©	
	5099 Jan 22 04:44	0° <b>∀</b>			5101 Aug 20 09:06	$0^{\circ}\Omega$	
	5099 Feb 15 12:07	$0^{\circ}\Upsilon$		asc. node	5101 Sep 07 15:47	21° <b>Ω</b> 59'17	
	5099 Mar 12 03:17	0°8			5101 Sep 14 06:38	0° m)	
asc. node	5099 Mar 22 20:38	12° <b>8</b> 49'49			5101 Oct 08 20:43	0∘ <b>⊽</b>	
use. Houe	5099 Apr 06 11:38	0°II			5101 Nov 02 04:40	0° <b>™</b>	
	5099 May 03 09:23	0°ಅ		morning set	5101 Nov 05 14:55	4° <b>™</b> 14'44	
evening max el	5099 May 15 04:22	12° <b>5</b> 06'39	46°11'42	morning set	5101 Nov 26 08:18	0° <b>%</b>	
evening max er	5099 Jun 04 02:48	12 <b>3</b> 00 39	40 11 42	may Earth dist			1 71000 AII
4 41 311			4.0	max. Earth dist.	5101 Dec 10 18:29	17° <b>∡</b> 59'21	1.71909 AU
greatest brilliancy	5099 Jun 22 15:53	11° <b>Ω</b> 14'34	-4.8m		5101 D 12 12 57	210 72652	0024124
retrograde	5099 Jul 03 18:55	13° <b>Ω</b> 30'39		superior conj	5101 Dec 13 12:57	21° <b>×</b> <sup>7</sup> 26'53	0°34'34
desc. node	5099 Jul 12 11:53	11° <b>Ω</b> 58'49		minimum elong	5101 Dec 13 20:37	21° <b>х</b> 50'49	0°34'14
evening set	5099 Jul 18 21:37	9° <b>Ω</b> 03'10			5101 Dec 20 09:13	0°ಕ	
inferior conj	5099 Jul 25 05:34	5° <b>Ω</b> 15'13		desc. node	5101 Dec 28 06:59	9° <b>る</b> 53'32	
minimum elong	5099 Jul 24 23:14	5° <b>Ω</b> 25'07			5102 Jan 13 08:21	0° <b>≈</b>	
min. Earth dist.	5099 Jul 24 19:06		0.28764 AU				
morning rise	5099 Jul 31 01:13	1° <b>Ω</b> 44'44					
	5099 Aug 03 10:24	30° <b>₹</b> 🥯					
direct	5099 Aug 15 16:00	27° <b>©</b> 03'14					
greatest brilliancy	5099 Aug 25 17:23	28°952'26	-4.7m				
-	5099 Aug 28 15:13	$0^{\circ}\Omega$					
morning max el	5099 Oct 03 10:13	26° <b>Ω</b> 47'31	45°44'59				
Č	5099 Oct 06 17:39	0° m					
asc. node	5099 Nov 02 13:31	28° <b>m</b> ) 14'17					
	5099 Nov 04 03:34	0° <b>ರ</b>					