8120 Oct 10 10:36

0°**⊽** 

8115 Dec 31 13:52

0°**≈** 

	0120 N 22 00 57	00 <b>m</b>			0126 4 07 10 20	000	
	8120 Nov 23 00:57	0°M			8126 Apr 07 18:29	0°©	
	8121 Jan 08 19:53	0° <b>∡</b> 7			8126 May 18 15:57	0° <b>N</b>	
	8121 Mar 02 00:18	0°る			8126 Jun 29 12:39	0° <b>т</b> р	
retrograde	8121 May 27 05:40	28° <b>ろ</b> 53'39			8126 Aug 11 23:31	0∘ <b>⊽</b>	
desc. node	8121 Jun 06 23:35	28° <b>ට</b> 10'05			8126 Sep 26 02:46	0°M	
opposition	8121 Jul 05 21:18	19° <b>ට</b> 41'16		evening set	8126 Oct 13 20:32	11°M32'15	
greatest brilliancy	8121 Jul 05 23:38	19° <b>る</b> 38'59			8126 Nov 11 13:44	0°⊀	
min. Earth dist.	8121 Jul 09 02:10	18°る26'11	0.66395 AU		010637 00 14 45	110 3000	0020152
direct	8121 Aug 16 12:53	9° <b>ට</b> 38'22		conjunction	8126 Nov 29 14:45	11°×30'26	0°29'53
	8121 Oct 23 07:22	0° <b>≈</b>		minimum elong	8126 Nov 29 15:37	11° <b>х</b> 31'48	0°30'02
	8121 Dec 14 08:49	0° <b>∀</b>		max. Earth dist.	8126 Dec 03 12:59		2.67589 AU
	8122 Jan 27 12:39	0° <b>Υ</b>			8126 Dec 28 17:40	0°る	
	8122 Mar 09 01:09	8°0		morning rise	8127 Jan 12 19:47	9° <b>ට</b> 34'01	
	8122 Apr 16 16:14	0°II		desc. node	8127 Jan 27 15:04	18° <b>る</b> 57'34	
asc. node	8122 May 10 09:41	18° <b>Ⅱ</b> 44'07			8127 Feb 14 00:16	0° <b>≈</b>	
	8122 May 24 15:46	0.22			8127 Apr 02 01:15	0° <b>)</b> €	
evening set	8122 Jun 29 06:56	27° <b>©</b> 53'09			8127 May 18 21:11	0° <b>Υ</b>	
	8122 Jul 02 00:36	0° <b>N</b>			8127 Jul 04 23:17	0° <b>8</b>	
	8122 Aug 10 14:59	0° <b>m</b>			8127 Aug 23 00:14	0° <b>I</b>	
	0100 0 00 10 50	1.60 *** 10110	1000100		8127 Oct 27 13:16	0.22	
conjunction	8122 Sep 02 10:59	16° Mp 42'49		retrograde	8127 Nov 16 04:13	2°528'33	
minimum elong	8122 Sep 02 09:18	16° Mp 39'46	1°01'57		8127 Dec 06 04:57	30°ŖⅡ	
79 J. P.	8122 Sep 21 01:32	0° <b>⊽</b>	2 51045 AXX	min. Earth dist.	8127 Dec 15 06:26	27° <b>Ⅱ</b> 42'19	
max. Earth dist.	8122 Oct 11 19:40	14° <b>£</b> 28'13	2.51845 AU	opposition	8127 Dec 16 07:02	27° <b>Ⅱ</b> 25'54	
morning rise	8122 Oct 29 06:56	26° <b>£</b> 22'30		greatest brilliancy	8127 Dec 16 07:36	27° <b>∏</b> 25'31	-3.1m
	8122 Nov 03 16:17 8122 Dec 19 13:48	0° <b>M</b> 0°⊀		asc. node direct	8127 Dec 31 11:14 8128 Jan 14 16:18	23° <b>Ⅲ</b> 52'15 22° <b>Ⅲ</b> 33'03	
	8122 Dec 19 13.48 8123 Feb 05 23:52	0°궁		direct	8128 Feb 18 20:57	0°9	
	8123 Mar 30 09:48	0°≈			8128 Apr 16 07:48	0°Ω	
desc. node	8123 Apr 24 21:11	0 <b>~</b> 13° <b>≈</b> 00'23			8128 Jun 03 05:30	0° mp	
dese. Hode	8123 Jun 06 14:46	0° <b>∀</b>			8128 Jul 20 02:57	0° <del>م</del>	
retrograde	8123 Jul 06 10:42	4° <b>)</b> 39'42			8128 Sep 05 09:27	0°M	
	8123 Aug 02 22:55	30°R≈			8128 Oct 23 01:53	0° <b>⊼</b>	
opposition	8123 Aug 12 20:22	26° <b>≈</b> 29'23	-3°48'51	evening set	8128 Nov 19 11:46	17° <b>√</b> 14'40	
greatest brilliancy	8123 Aug 13 17:22	26°≈09'43	-1.7m	<i>3</i>	8128 Dec 09 16:12	0°る	
min. Earth dist.	8123 Aug 19 17:16	23°≈55'03	0.58412 AU	desc. node	8128 Dec 14 12:49	3° <b>る</b> 04'52	
direct	8123 Sep 22 11:01	16° <b>≈</b> 47'02		max. Earth dist.	8128 Dec 25 04:04	9° <b>る</b> 50'42	2.67279 AU
	8123 Nov 11 09:20	0° <b>)</b> €					
	8124 Jan 02 15:19	$0^{\circ}\mathbf{\Upsilon}$		conjunction	8129 Jan 03 03:04	15° <b>る</b> 34'00	-0°10'18
	8124 Feb 14 07:04	$8^{\circ 0}$		minimum elong	8129 Jan 03 02:45	15° <b>る</b> 33'30	0°10'08
	8124 Mar 24 20:04	$\Pi$ $^{\circ}0$		behind sun begin	8129 Jan 02 12:16	15° <b>る</b> 10'20	
asc. node	8124 Mar 27 09:24	1° <b>Ⅱ</b> 58'38		behind sun end	8129 Jan 03 17:15	15° <b>る</b> 56'41	
	8124 May 02 10:30	$0$ $\circ$ $\odot$			8129 Jan 25 13:28	0° <b>≈</b>	
	8124 Jun 10 10:13	$0^{\circ}\Omega$		morning rise	8129 Feb 15 23:19	13° <b>≈</b> 56'47	
	8124 Jul 20 16:57	O° Mp			8129 Mar 12 06:13	0° <b>∀</b>	
evening set	8124 Aug 29 15:07	28° <b>m</b> 28'18			8129 Apr 25 13:33	0° <b>Υ</b>	
	8124 Aug 31 19:47	0∘ <b>ত</b>			8129 Jun 07 11:44	0°B	
	8124 Oct 14 22:31	0°M₊			8129 Jul 19 06:18	$\Pi$ °0	
					8129 Aug 29 11:55	0°©	
conjunction	8124 Oct 21 11:43	4°M20'55	1°00'32		8129 Oct 10 16:41	0°N	
minimum elong	8124 Oct 21 12:49	4°M22'43	1°00'36	asc. node	8129 Nov 17 09:41	24° <b>Ω</b> 15′26	
max. Earth dist.	8124 Nov 09 21:33		2.62377 AU	. 1	8129 Nov 27 15:31	0° Mp	
	8124 Nov 29 20:13	0°⊀ 5°⊀28'07		retrograde	8130 Jan 20 18:10	17° Mp 03'26	0.46185 AU
morning rise	8124 Dec 08 08:59	5° <b>X</b> '28'0/		min. Earth dist.	8130 Feb 17 13:09	11° Mp 43'34	-2.4m
	8125 Jan 16 04:03 8125 Mar 05 18:08	0°≈		greatest brilliancy opposition	8130 Feb 24 10:43 8130 Feb 26 00:26	9° Mp 18'21 8° Mp 45'06	5°05'17
desc. node	8125 Mar 11 17:58	0 ∞ 3°≈38'21		direct	8130 Mar 30 19:15	2° My 00'56	3 03 17
desc. node	8125 Apr 25 05:18	0° <b>∺</b>		direct	8130 Jun 21 02:21	ე∘ <b>ი</b>	
	8125 Apr 25 05:18 8125 Jun 19 22:50	0° <b>Υ</b>			8130 Aug 13 23:45	0° <b>m</b>	
retrograde	8125 Aug 29 03:04	21° <b>Υ</b> 03'41			8130 Oct 03 12:06	0° <b>⊼</b> 7	
opposition	8125 Aug 27 05:04 8125 Oct 01 06:05	14° <b>Υ</b> 42'03	-5°54'06	desc. node	8130 Nov 01 12:39	17° <b>∡</b> 43′06	
greatest brilliancy	8125 Oct 01 00:05 8125 Oct 03 02:12	14° <b>Υ</b> 05'46			8130 Nov 21 07:33	0°る	
min. Earth dist.	8125 Oct 09 19:18	11° <b>Υ</b> 54'17	0.45298 AU	evening set	8130 Dec 25 11:44	21° <b>る</b> 38'51	
direct	8125 Nov 06 11:22	6° <b>Y</b> 56′09	-	S	8131 Jan 07 10:00	0° <b>≈</b>	
	8126 Jan 10 19:28	0°8		max. Earth dist.	8131 Jan 17 23:08	6°≈53'21	2.61545 AU
asc. node	8126 Feb 12 10:34	20° <b>8</b> 57'51					
	8126 Feb 25 09:55	$\Pi^{\circ}0$		conjunction	8131 Feb 09 00:11	21° <b>≈</b> 30'47	-0°48'08

minimum elong	8131 Feb 08 22:59	21° <b>≈</b> 28'46	0°48'01		8136 Mar 14 09:09	0°ರ	
	8131 Feb 21 13:57	0° <b>∀</b>		retrograde	8136 May 13 08:45	16° <b>る</b> 15'36	
morning rise	8131 Mar 28 04:05	23° <b>¥</b> 55'37		opposition	8136 Jun 22 12:26	6° <b>ප</b> 46'39	0°02'10
	8131 Apr 05 18:04	$0$ ° $\mathbf{\gamma}$		greatest brilliancy	8136 Jun 22 12:35	6° <b>る</b> 46'30	-1.3m
	8131 May 17 02:31	0°B		desc. node	8136 Jun 23 13:29	6° <b>る</b> 21'59	
	8131 Jun 26 00:41	0°II		min. Earth dist.	8136 Jun 24 05:48		0.67781 AU
	8131 Aug 04 03:02 8131 Sep 12 06:44	0° <b>೮</b> 0ಂತಾ		direct	8136 Jul 11 12:34 8136 Aug 03 00:57	30°Ŗ <b>⋌</b> ¹ 26° <b>⋌</b> ¹47'36	
asc. node	8131 Sep 12 00:44 8131 Oct 05 07:40	17° <b>Ω</b> 16'29		direct	8136 Aug 27 05:34	20 <b>メ</b> ・4730 0°る	
asc. node	8131 Oct 22 18:22	0° m/y			8136 Nov 04 05:33	0° <b>≈</b>	
	8131 Dec 05 21:53	0∘ <del>ಹ</del>			8136 Dec 23 05:08	0° <b>)</b> €	
	8132 Feb 01 18:07	0° <b>M</b> ₊			8137 Feb 04 14:52	$0^{\circ}\mathbf{\Upsilon}$	
retrograde	8132 Mar 05 06:12	6°M22'13			8137 Mar 16 21:48	$9^{\circ}$ 8	
	8132 Apr 04 21:43	30° <b>₹</b>			8137 Apr 24 10:46	$\Pi^{\circ}0$	
min. Earth dist.	8132 Apr 07 22:52	28° <b>≏</b> 50'11		asc. node	8137 May 27 02:08	25° <b>∏</b> 50′17	
opposition	8132 Apr 13 20:03	26° <b>£</b> 31'44		evening set	8137 May 30 17:41	28° <b>Ⅱ</b> 43'39	
greatest brilliancy	8132 Apr 12 21:38	26° <b>£</b> 53'45	-1.7m		8137 Jun 01 08:16	0° <b>©</b>	
direct	8132 May 21 02:58 8132 Jul 10 14:19	17° <b>≏</b> 59'57 0° <b>ጤ</b>			8137 Jul 09 13:59	$0$ ° $\Omega$	
	8132 Sep 09 19:54	0° <b>⊼</b> 7		conjunction	8137 Aug 08 12:38	22° <b>Ω</b> 53'44	0°46'47
desc. node	8132 Sep 18 13:15	4° <b>₹</b> 150'12		minimum elong	8137 Aug 08 09:34	22° <b>Ω</b> 47'58	0°46'38
	8132 Oct 31 17:56	0°る		8	8137 Aug 18 00:14	0° m/	
	8132 Dec 18 20:45	0° <b>≈</b>		max. Earth dist.	8137 Sep 25 18:05	-	2.46530 AU
evening set	8133 Feb 01 18:46	29° <b>≈</b> 48'41			8137 Sep 28 06:28	0∘ <b>⊽</b>	
	8133 Feb 02 01:23	0° <b>∀</b>		morning rise	8137 Oct 10 00:02	8° <b>≏</b> 15′02	
max. Earth dist.	8133 Feb 16 13:11	10° <b>)</b> €00'30	2.50832 AU		8137 Nov 10 18:57	0°M	
	8133 Mar 16 16:59	$0^{\circ}$ Y			8137 Dec 26 20:37	0° <b>∡</b>	
conjunction	8133 Mar 24 07:51	5° <b>Ƴ</b> 31'55	1006!59		8138 Feb 14 04:17 8138 Apr 11 04:43	0°る 0°≈	
minimum elong	8133 Mar 24 07:53	5° <b>Υ</b> 31'58		desc. node	8138 May 11 11:50	0 ∞ 12°≈35'56	
minimum ciong	8133 Apr 26 06:24	0° <b>8</b>	1 0037	retrograde	8138 Jun 19 17:25	20°≈13'50	
morning rise	8133 May 20 21:51	18° <b>8</b> 49'27		opposition	8138 Jul 28 04:54	11°≈35'04	-2°43'19
	8133 Jun 04 08:05	$\Pi^{\circ}0$		greatest brilliancy	8138 Jul 28 16:32	11° <b>≈</b> 23'56	-1.5m
	8133 Jul 12 15:37	0ංම		min. Earth dist.	8138 Aug 02 16:31	9° <b>≈</b> 29'08	0.62305 AU
	8133 Aug 20 01:23	$0^{\circ}\Omega$		direct	8138 Sep 07 12:08	1° <b>≈</b> 37'42	
asc. node	8133 Aug 22 05:30	1° <b>Ω</b> 40'45			8138 Nov 26 22:16	0° <b>)</b> €	
	8133 Sep 28 11:54	0° Mp			8139 Jan 13 00:10	0° <b>Υ</b>	
	8133 Nov 09 01:26 8133 Dec 24 11:33	0° <b>∭</b> 0° <b>⊙</b>			8139 Feb 23 10:29 8139 Apr 03 11:08	0°Ⅱ 8°0	
	8134 Feb 17 14:41	0° <b>⊼</b> 7		asc. node	8139 Apr 14 03:17	8° <b>Ⅱ</b> 21'17	
retrograde	8134 Apr 10 04:24	13° <b>×</b> 18'18		use. Houe	8139 May 11 17:12	0°95	
min. Earth dist.	8134 May 18 15:45	4° <b>≯</b> 12'06	0.66684 AU		8139 Jun 19 08:51	$0^{\circ}\Omega$	
opposition	8134 May 20 17:36	3° <b>≮</b> 22'28	2°33'49		8139 Jul 29 07:09	0° <b>m</b>	
greatest brilliancy	8134 May 20 13:27	3° <b>х</b> 26′35	-1.4m	evening set	8139 Aug 08 22:09	7°M/46'12	
	8134 May 29 10:59	30°RML			8139 Sep 09 01:40	0ಂ <b>ರಾ</b>	
direct	8134 Jun 29 20:28	23°M52'18					
JJ.	8134 Aug 03 15:36	0°×7		conjunction	8139 Oct 04 21:30	17° <b>£</b> 50'35	1°06'15
desc. node	8134 Aug 06 13:41 8134 Oct 08 20:24	0° <i>オ57</i> '01 0° <b>る</b>		minimum elong	8139 Oct 04 22:00 8139 Oct 22 21:52	17° <b>≙</b> 51'25 0° <b>™</b>	1°06'17
	8134 Nov 28 23:38	0° <b>≈</b>		max. Earth dist.	8139 Oct 31 09:49		2.58844 AU
	8135 Jan 13 23:40	0° <b>ℋ</b>		morning rise	8139 Nov 24 11:20	21°M26'47	
	8135 Feb 25 14:28	$0^{\circ}\mathbf{\Upsilon}$		S	8139 Dec 07 17:15	0° <b>∡</b> ¹	
evening set	8135 Mar 23 11:15	19° <b>Ƴ</b> 08′23			8140 Jan 24 07:19	8°0	
	8135 Apr 06 18:57	$0^{\circ}S$			8140 Mar 13 20:51	0° <b>≈</b>	
max. Earth dist.	8135 Apr 22 16:00	12° <b>8</b> 13'22	2.37783 AU	desc. node	8140 Mar 28 08:25	8°≈27'01	
	8135 May 15 10:02	$\Pi$ $^{\circ}$ 0			8140 May 06 06:29	0° <b>)</b> €	
conjunction	8135 May 25 13:05	7° <b>Ⅱ</b> 58'59	-0°31'25	retrograde	8140 Jul 22 02:25 8140 Aug 05 05:46	0° <b>Υ</b> 1° <b>Υ</b> 08'43	
minimum elong	8135 May 25 15:54 8135 May 25 15:54	7° <b>П</b> 38'39 8° <b>П</b> 04'32		renograde	8140 Aug 03 05:46 8140 Aug 18 18:01	30°R <b>)</b> €	
	8135 Jun 22 08:59	0°99	J J. 11	opposition	8140 Sep 09 07:13	23° <b>)</b> 57'44	-5°21'22
asc. node	8135 Jul 10 02:12	13° <b>©</b> 59'03		greatest brilliancy	8140 Sep 10 21:16	23° <b>H</b> 24'11	
	8135 Jul 30 13:18	$0^{\circ}\Omega$		min. Earth dist.	8140 Sep 17 18:49	20° <b>)</b> 58'43	0.50787 AU
morning rise	8135 Aug 06 09:09	5° <b>Ω</b> 17'38		direct	8140 Oct 17 19:43	15° <b>)</b> 08′50	
	8135 Sep 07 19:31	0° <b>m</b>			8140 Dec 08 05:54	0° <b>Υ</b>	
	8135 Oct 18 22:22	0° <b>™</b>			8141 Jan 26 13:38	0° <b>8</b>	
	8135 Dec 01 16:33	0°M₊		asc. node	8141 Mar 01 03:00	24° <b>႘</b> 01'13	
	8136 Jan 18 07:12	0° <b>∡</b> 7			8141 Mar 09 04:19	$\Pi$ $\circ 0$	

	8141 Apr 17 21:51	0ಂತಾ		minimum elong	8146 Jan 25 03:00	7° <b>≈</b> 07'29	0°34'24
	8141 May 27 18:08	$0^{\circ}\Omega$			8146 Feb 28 12:31	0° <b>)</b> €	
	8141 Jul 07 19:09	0° <b>m</b>		morning rise	8146 Mar 11 11:20	7° <b>¥</b> 25'51	
	8141 Aug 19 14:00	0∘ <b>⊽</b>			8146 Apr 13 01:22	$0$ ° $\Upsilon$	
evening set	8141 Sep 27 13:13	26° <b>≏</b> 15′23			8146 May 24 21:38	$0^{\circ}$ 8	
	8141 Oct 03 05:08	0°M₊			8146 Jul 04 08:56	$\Pi$ $^{\circ}0$	
					8146 Aug 13 00:46	0₀ <b>©</b>	
conjunction	8141 Nov 15 02:45	27°M54'32	0°43'38		8146 Sep 21 20:04	0°Ω	
minimum elong	8141 Nov 15 03:54	27°M56'23	0°43'45	asc. node	8146 Oct 22 00:53	22° <b>Ω</b> 00'08	
Tr. al. 11 a	8141 Nov 18 08:54	0° 🗷	2 ((107 AII		8146 Nov 02 11:10	0 <b>்⊽</b> 0°™	
max. Earth dist.	8141 Nov 24 19:08 8141 Dec 30 08:04	4°× <b>7</b> 07'03	2.66187 AU	rotro ara do	8146 Dec 20 06:49	0° <b>11</b> 19° <b>1</b> 30'04	
morning rise	8141 Dec 30 08:04 8142 Jan 04 12:20	26°♂43'26 0°る		retrograde min. Earth dist.	8147 Feb 18 11:32 8147 Mar 21 21:24	19° <b>22</b> 30°04 12° <b>2</b> 46'23	0.54505 AU
desc. node	8142 Feb 13 05:16	0 る 25° <b>る</b> 01'15		greatest brilliancy	8147 Mar 27 20:17	12 <b>=</b> 40 23 10° <b>£</b> 29'48	-1.9m
desc. node	8142 Feb 21 03:35	23 <b>℃</b> 01 13		opposition	8147 Mar 29 03:20		5°10'43
	8142 Apr 10 03:04	0° <b>∀</b>		direct	8147 May 03 21:15	2° <b>⊆</b> 03'00	3 10 43
	8142 May 28 22:02	0°Υ		4	8147 Jul 27 04:00	0°M	
	8142 Jul 19 10:19	0°8			8147 Sep 19 22:53	0° <b>⊼</b>	
	8142 Sep 29 21:07	0°Щ		desc. node	8147 Oct 06 02:40	9° <b>≯</b> 25'38	
retrograde	8142 Oct 14 10:53	1° <b>Ⅱ</b> 17′07			8147 Nov 09 07:04	0° <b>ප</b>	
	8142 Oct 28 17:48	30° <b>₹</b> 8			8147 Dec 26 21:50	0° <b>≈</b>	
opposition	8142 Nov 13 14:25	26° <b>8</b> 12'56	-4°26'42	evening set	8148 Jan 17 16:45	14° <b>≈</b> 16'55	
greatest brilliancy	8142 Nov 14 13:10	25° <b>8</b> 57'16	-2.9m	max. Earth dist.	8148 Feb 04 04:30	26° <b>≈</b> 00'58	2.55563 AU
min. Earth dist.	8142 Nov 18 08:03	24° <b>8</b> 54'55	0.38108 AU		8148 Feb 10 01:02	0° <b>∀</b>	
direct	8142 Dec 14 21:59	20° <b>8</b> 38'08					
asc. node	8143 Jan 17 02:45	27° <b>8</b> 35'43		conjunction	8148 Mar 05 14:06	17° <b>)</b> € 00'34	
	8143 Jan 22 23:40	$\Pi^{\circ}0$		minimum elong	8148 Mar 05 13:12	16° <b>¥</b> 58'59	1°03'35
	8143 Mar 17 08:41	0∘ <b>©</b>			8148 Mar 23 20:39	0° <b>Υ</b>	
	8143 May 01 10:19	$0^{\circ}\Omega$		morning rise	8148 Apr 26 21:03	24° <b>Y</b> 54'38	
	8143 Jun 14 16:50	0° mp			8148 May 03 16:20	0°8	
	8143 Jul 29 18:11	0° <b>™</b>			8148 Jun 12 00:36	0°∏	
	8143 Sep 13 23:10 8143 Oct 31 01:11	0° <b>M</b> 0° <b>⊀</b>			8148 Jul 20 13:46	$0$ ം ${f V}$	
evening set	8143 Nov 06 07:06	3° <b>∡¹</b> 57'24		asc. node	8148 Aug 28 04:00 8148 Sep 07 22:13	8° <b>Ω</b> 15'17	
max. Earth dist.	8143 Dec 17 07:47	29° 🖈 56'58	2.68051 AU	asc. node	8148 Oct 06 19:50	0° mp	
max. Darm dist.	8143 Dec 17 07:47	0°る	2.00031710		8148 Nov 17 21:38	0° <del>ت</del> مالا	
	01.0 200 17 07.12	• •			8149 Jan 04 02:41	0°M	
conjunction	8143 Dec 21 09:35	2° <b>る</b> 32'15	0°05'40	retrograde	8149 Mar 27 17:42	29°M56'27	
minimum elong	8143 Dec 21 09:44	2° <b>る</b> 32'30	0°05'50	min. Earth dist.	8149 May 03 12:20	21°M22'38	0.64477 AU
behind sun begin	8143 Dec 20 16:21	2° <b>る</b> 04'53		opposition	8149 May 07 02:03	19°M57'22	3°27'02
behind sun end	8143 Dec 22 03:08	3° <b>⋜</b> 00'06		greatest brilliancy	8149 May 06 16:06	$20^{\circ}$ ML $07'17$	-1.4m
desc. node	8144 Jan 01 03:27	9° <b>る</b> 22'15		direct	8149 Jun 15 06:13	10°M45'54	
	8144 Feb 02 08:51	0° <b>≈</b>			8149 Aug 21 23:51	0°⊀	
morning rise	8144 Feb 03 00:37	0°≈25'24		desc. node	8149 Aug 23 03:00	0° <b>∡</b> 31'25	
	8144 Mar 19 11:21	0° <b>)</b> €			8149 Oct 18 02:29	0°る	
	8144 May 03 12:41	0° <b>Υ</b>			8149 Dec 06 16:23	0° <b>≈</b>	
	8144 Jun 16 13:14	0°B 0°B			8150 Jan 21 06:29	0° <b>\</b> 28° <b>\</b> 02'18	
	8144 Jul 29 19:57 8144 Sep 11 07:28	0. о п		evening set	8150 Mar 02 03:51 8150 Mar 04 20:49	28 <b>π</b> 02 18 0° <b>Υ</b>	
	8144 Oct 28 12:43	0°Ω		max. Earth dist.	8150 Mar 17 05:18		2.42670 AU
asc. node	8144 Dec 04 03:35	17° <b>Ω</b> 01'27		max. Earth dist.	8150 Apr 14 04:10	0° <b>8</b>	2.42070 AO
retrograde	8144 Dec 29 12:31	21° <b>Ω</b> 23'13			0150 Apr 14 04.10	۰ <b>ن</b>	
min. Earth dist.	8145 Jan 24 15:44	16° <b>Ω</b> 49'26	0.40957 AU	conjunction	8150 Apr 28 06:58	10° <b>8</b> 48'58	-0°54'40
greatest brilliancy	8145 Jan 31 02:53	14° <b>Ω</b> 47'19	-2.7m	minimum elong	8150 Apr 28 09:27	10° <b>8</b> 53'46	
opposition	8145 Feb 01 06:20	14° <b>Ω</b> 25'30	3°48'55	S	8150 May 22 22:44	0° <b>Ⅱ</b>	
direct	8145 Mar 04 02:46	8° <b>Ω</b> 38'40			8150 Jun 30 00:11	$0$ $\circ$ $\odot$	
	8145 May 10 17:27	0° m/		morning rise	8150 Jul 05 15:39	4° <b>5</b> 27'24	
	8145 Jul 03 18:52	0∘ <b>ত</b>		asc. node	8150 Jul 26 20:54	21° <b>©</b> 08'27	
	8145 Aug 22 22:32	$0^{\circ}$ M			8150 Aug 07 05:21	$0$ ° $\Omega$	
	8145 Oct 11 00:42	0° <b>∡</b>			8150 Sep 15 11:26	0°mp	
desc. node	8145 Nov 18 02:35	23° <b>∡</b> 38′01			8150 Oct 26 15:20	0∘ <b>⊽</b>	
	8145 Nov 28 05:58	0°る			8150 Dec 09 17:27	0°M 0°. <b>₹</b>	
evening set	8145 Dec 11 08:40	8°る17'02	2 (4414 433		8151 Jan 27 18:31	0° <b>∡</b> ¹	
max. Earth dist.	8146 Jan 08 08:08		2.64414 AU	ratraceada	8151 Apr 04 20:23	0°る 2° <b>ス</b> 47'26	
	8146 Jan 14 04:57	0° <b>≈</b>		retrograde	8151 Apr 30 23:45 8151 May 25 06:27	3°ጜ47'36 30°Ŗズ	
conjunction	8146 Jan 25 03:58	7° <b>≈</b> 09'04	-0°34'33	opposition	8151 Jun 10 10:44	30 KX. 24° ₹ 05'32	1°02'42
conjunction	5170 Jan 25 05.50	, ~03.04	J J T J J	оррознин	5151 3011 10 10.44	47 <b>/</b> UJ J4	1 0272

greatest brilliancy min. Earth dist. desc. node direct	8151 Jun 10 11:14 8151 Jun 10 16:40 8151 Jul 11 02:59 8151 Jul 21 14:10 8151 Sep 19 03:38	24° 🗷 05'02 23° 🗷 59'39 14° 🗷 55'53 14° 🗷 14'42 0°る	-1.3m 0.68135 AU	evening set	8156 Jul 15 16:27 8156 Aug 26 23:22 8156 Sep 09 16:30 8156 Oct 10 05:09	0° <b>ሙ</b> 0° <b>亞</b> 9° <b>亞</b> 26'21 0° <b>ጤ</b>	
	8151 Nov 14 22:46 8152 Jan 01 07:59 8152 Feb 13 07:41 8152 Mar 24 12:36	8°00 0°¥ 0°8		conjunction minimum elong max. Earth dist.	8156 Oct 30 18:17 8156 Oct 30 19:30 8156 Nov 15 13:18 8156 Nov 25 03:56	13°M32'15 13°M34'15 23°M48'09 0°⊀	0°55'13 0°55'18 2.63967 AU
evening set	8152 May 01 08:11 8152 May 02 01:45 8152 Jun 08 23:12	29° <b>႘</b> 25'23 0°Ⅲ 0°໑		morning rise	8156 Dec 16 12:29 8157 Jan 11 09:07 8157 Feb 28 12:56	13°♂39'05 0°♂ 0°≈	
asc. node	8152 Jun 12 19:13	3° <b>5</b> 02'06		desc. node	8157 Mar 01 20:19 8157 Apr 18 21:06	0°≈48'21 0°¥	
conjunction minimum elong	8152 Jul 10 18:59 8152 Jul 10 16:56 8152 Jul 17 03:29	25°©03'04 24°©59'03 0°Ω	0°19'48 0°19'37	retrograde	8157 Jun 10 01:21 8157 Aug 15 17:34 8157 Sep 13 11:26	0°Υ 0°႘ 4°႘33'52	
max. Earth dist.	8152 Aug 25 10:57 8152 Sep 02 02:06 8152 Sep 17 11:47	0° My 5° My 40'51 16° My 59'28	2.40921 AU	opposition greatest brilliancy	8157 Oct 11 06:38 8157 Oct 15 13:02 8157 Oct 17 06:34	30° <b>₹</b> Υ 28°Υ42'08 28°Υ09'49	
	8152 Oct 05 14:10 8152 Nov 18 01:57 8153 Jan 03 11:32	0°₩ 0°™ 0° <u>०</u>		min. Earth dist. direct	8157 Oct 23 10:31 8157 Nov 19 01:37 8157 Dec 25 08:23	26°Y16'07 21°Y42'05 0°B	0.42366 AU
desc. node	8153 Feb 23 05:56 8153 Apr 28 19:32	0°る 0°≈ 6°≈28'04		asc. node	8158 Feb 02 19:19 8158 Feb 16 10:35 8158 Mar 31 15:31	21°812'15 0°II 0°©	
retrograde	8153 May 28 01:39 8153 Jun 04 11:15 8153 Jul 07 21:51	6°≈47'32 30°Ŗる			8158 May 12 11:36 8158 Jun 23 23:02	0° <b>Ω</b> 0° <b>m</b>	
opposition greatest brilliancy min. Earth dist.	8153 Jul 13 18:32 8153 Jul 13 23:28 8153 Jul 17 19:20			evening set	8158 Aug 06 20:22 8158 Sep 21 06:44 8158 Oct 22 14:02	0° <b>₽</b> 0° <b>M</b> 20° <b>M</b> 12'02	
direct	8153 Aug 24 09:17 8153 Oct 13 06:21 8153 Dec 08 02:34	17°る42'54 0°≈ 0°⊁		conjunction	8158 Nov 06 21:53 8158 Dec 07 14:33	0°⋪ 19°⋪31'16	0°21'12
	8154 Jan 22 01:44 8154 Mar 03 20:42 8154 Apr 11 14:34	γ°0 Β°0 Π°0		minimum elong max. Earth dist.	8158 Dec 07 15:11 8158 Dec 08 14:35 8158 Dec 24 02:52	19° <b>メ</b> 32'16 20° <b>メ</b> 09'24 0°る	0°21'21 2.67992 AU
asc. node	8154 Apr 30 18:28 8154 May 19 15:47	15°∏05'53 0°©		desc. node morning rise	8159 Jan 17 17:38 8159 Jan 20 11:30	15° <b>පි</b> 38'21 17° <b>පි</b> 23'08	
evening set	8154 Jun 27 02:09 8154 Jul 14 21:35 8154 Aug 05 18:22	0° <b>N</b> 13° <b>N</b> 36'51 0° <b>M</b>			8159 Feb 09 06:12 8159 Mar 27 22:06 8159 May 13 00:04 8159 Jun 27 16:26	იაგ იაჯ იაგ იაგ	
conjunction minimum elong	8154 Sep 14 23:48 8154 Sep 14 23:04	29° 1005'30 29° 1004'12 0° <u>a</u>	1°05'55 1°05'55	votvo ovo do	8159 Aug 12 17:14 8159 Oct 01 06:28 8159 Dec 03 17:14	0°Ⅱ 0°巠 21°巠11'55	
max. Earth dist.	8154 Sep 16 06:42 8154 Oct 19 10:43 8154 Oct 29 22:08	22° <b>£</b> 56′03 0° <b>M</b>	2.54543 AU	retrograde asc. node min. Earth dist.	8159 Dec 21 18:52 8159 Dec 30 12:22	19°©02'26 16°©49'32	0.37344 AU
morning rise	8154 Nov 08 06:06 8154 Dec 14 17:22 8155 Jan 31 17:38	6°M13'38 0°ズ 0°る		opposition greatest brilliancy direct	8160 Jan 03 16:56 8160 Jan 03 12:16 8160 Feb 02 00:44	15°540'04 15°543'18 10°540'41	0°58'48 -3.0m
desc. node	8155 Mar 23 19:02 8155 Apr 14 23:08 8155 May 22 03:46	0°≈ 12°≈05'05 0°¥			8160 Apr 04 00:38 8160 May 26 13:14 8160 Jul 14 02:01	0° <b>ʊ</b> 0°₥ 0°Ω	
retrograde opposition greatest brilliancy	8155 Jul 16 20:07 8155 Aug 22 12:17 8155 Aug 23 15:27	14°¥01'38 6°¥10'04 5°¥45'02		evening set	8160 Aug 31 03:41 8160 Oct 18 06:11 8160 Nov 27 10:52	0° <b>M.</b> 0° <b>⊀</b> 25° <b>⊀</b> 12'08	
min. Earth dist.	8155 Aug 30 01:34 8155 Sep 09 07:44 8155 Oct 01 13:15	3° <b>)</b> 23'14 30° <b>R</b> ≈ 26°≈41'31	0.55908 AU	desc. node max. Earth dist.	8160 Dec 04 16:04 8160 Dec 05 01:13 8160 Dec 30 08:03	29° <b>メ</b> 45'31 0°る 16°る04'46	2.66502 AU
	8155 Oct 24 15:02 8155 Dec 26 00:02	0° <b>∀</b> 0° <b>Υ</b>		conjunction	8161 Jan 11 00:12	23° <b>る</b> 34'29	-0°19'28
asc. node	8156 Feb 08 01:04 8156 Mar 17 19:35 8156 Mar 19 02:38	0° <b>8</b> 29° <b>8</b> 00'36 0° <b>I</b> I		minimum elong morning rise	8161 Jan 10 23:38 8161 Jan 20 22:54 8161 Feb 24 04:44	23°₹33'34 0°≈ 22°≈27'06	U 1710
	8156 Apr 27 00:11 8156 Jun 05 05:06	$0 { m s}$			8161 Mar 07 12:27 8161 Apr 20 13:02	0° <b>ℋ</b> 0° <b>Ƴ</b>	

	8161 Jun 02 01:12	0° <b>႘</b>		greatest brilliancy	8166 May 28 06:31	11° <b>≯</b> 20′03	-1.3m
	8161 Jul 13 06:51	$\Pi^{\circ}0$		direct	8166 Jul 07 20:56	1° <b>х</b> 39′42	
	8161 Aug 22 19:21	$0$ $\circ$ $\odot$		desc. node	8166 Jul 27 16:22	3° <b>∡</b> ⁴49'42	
	8161 Oct 02 18:43	$0^{\circ}\Omega$			8166 Oct 01 22:40	0°ರ	
asc. node	8161 Nov 07 19:04	24° <b>Ω</b> 45'54			8166 Nov 23 14:16	0°≈	
	8161 Nov 16 00:04	0° <b>m</b> ∕			8167 Jan 09 01:10	0° <b>)</b> €	
	8162 Jan 28 09:11	0ಂ <b>ಹ</b>			8167 Feb 20 19:29	$0$ ° $\mathbf{\Upsilon}$	
retrograde	8162 Jan 31 21:25	0° <b>≏</b> 05'24			8167 Apr 02 00:27	0° <b>8</b>	
	8162 Feb 04 09:13	30°R, Mp		evening set	8167 Apr 05 19:40	2° <b>8</b> 54'42	
min. Earth dist.	8162 Mar 01 21:26	24° Mp 16'02	0.49222 AU		8167 May 10 14:51	$\Pi$ $^{\circ}0$	
greatest brilliancy	8162 Mar 08 14:55	21° m/48'50					
opposition	8162 Mar 10 04:22	21° m) 14'31	5°19'12	conjunction	8167 Jun 11 05:22	24° <b>I</b> I59'49	
direct	8162 Apr 13 02:19	14° Mp 01'41		minimum elong	8167 Jun 11 06:53	25° <b>I</b> I02'48	0°13′59
	8162 Jun 10 11:32	0° <b>№</b> 0° <b>亞</b>		behind sun begin	8167 Jun 10 15:27	24° <b>∏</b> 32'16	
	8162 Aug 07 12:15	0° <b>∕</b> 7		behind sun end	8167 Jun 11 22:18	25°Ⅲ33'20 0°©	
desc. node	8162 Sep 28 05:03 8162 Oct 22 15:42	0 <b>x</b> . 14° <b>x</b> 43′20		max. Earth dist.	8167 Jun 17 12:59 8167 Jun 25 12:37		2.36621 AU
desc. node	8162 Nov 16 12:09	14 <b>メ</b> ・43 20		asc. node	8167 Jun 30 11:52	10° <b>©</b> 14'35	2.30021 AU
evening set	8163 Jan 02 17:43	0 3 29° <b>る</b> 58'15		asc. noue	8167 Jul 25 16:35	0°Ω	
evening set	8163 Jan 02 17:43	0° <b>≈</b>		morning rise	8167 Aug 23 01:20	21° <b>Ω</b> 48'21	
max. Earth dist.	8163 Jan 23 22:41		2.59621 AU	morning 1130	8167 Sep 02 22:11	0° m	
max. Darm dist.	8163 Feb 16 22:42	0° <b>∀</b>	2.37021710		8167 Oct 13 23:52	0∘ <b>⊽</b>	
	0103100 10 22.12	٠,٨			8167 Nov 26 13:40	o° <b>m</b> .	
conjunction	8163 Feb 17 21:21	0° <b>)</b> 38'34	-0°54'54		8168 Jan 12 13:40	0° <b>⊼</b> ¹	
minimum elong	8163 Feb 17 20:09	0° <b>)</b> (36'31			8168 Mar 05 21:26	0°ප	
	8163 Apr 01 00:05	$0^{\circ}\mathbf{\Upsilon}$		retrograde	8168 May 21 05:30	23° <b>る</b> 57'25	
morning rise	8163 Apr 07 12:10	4° <b>Υ</b> 39'19		desc. node	8168 Jun 13 16:24	20° <b>る</b> 28'54	
S	8163 May 12 04:09	0°8		opposition	8168 Jun 30 03:21	14° <b>る</b> 37'21	-0°34'22
	8163 Jun 20 21:17	$\Pi^{\circ}0$		greatest brilliancy	8168 Jun 30 04:23	14° <b>පි</b> 36'20	-1.3m
	8163 Jul 29 18:36	0°ಅ		min. Earth dist.	8168 Jul 02 16:41	13° <b>る</b> 37'13	0.67137 AU
	8163 Sep 06 16:19	$0^{\circ}\Omega$		direct	8168 Aug 10 18:13	4° <b>る</b> 35'33	
asc. node	8163 Sep 25 16:47	14° <b>Ω</b> 24'40			8168 Oct 27 21:08	0° <b>≈</b>	
	8163 Oct 16 18:05	0° <b>m</b> ∕			8168 Dec 17 13:02	0° <b>∀</b>	
	8163 Nov 28 19:36	0∘ <b>⊽</b>			8169 Jan 30 10:19	$0^{\circ}\mathbf{\Upsilon}$	
	8164 Jan 19 03:13	0°M₊			8169 Mar 11 21:22	$9^{\circ}$ 8	
retrograde	8164 Mar 13 16:49	15°M36'25			8169 Apr 19 12:03	$\Pi^{\circ}0$	
min. Earth dist.	8164 Apr 17 13:03	7°M40'37	0.61257 AU	asc. node	8169 May 17 11:38	22° <b>Ⅱ</b> 07'15	
opposition	8164 Apr 22 14:34	5°M40'32	4°15'18	greatest brilliancy	8169 May 20 21:22	24° <b>Ⅱ</b> 48'58	1.2m
greatest brilliancy	8164 Apr 21 20:59	5°M57'55	-1.6m		8169 May 27 10:42	$0$ $\circ$ $\odot$	
	8164 May 08 16:38	30° <b>₹</b> Ω		evening set	8169 Jun 16 12:21	15° <b>©</b> 48'24	
direct	8164 May 30 14:40	26° <b>£</b> 52'55			8169 Jul 04 17:29	$0^{\circ}\Omega$	
	8164 Jun 23 10:26	0°M			8169 Aug 13 04:51	0° <b>т</b> р	
	8164 Sep 03 02:25	0° <b>∡</b> 7			01/01/02/02/02/0	50 m 1 (100	005450
desc. node	8164 Sep 08 15:51	2° <b>₹</b> 56'39		conjunction	8169 Aug 23 00:48	7° Mp 16'32	
	8164 Oct 26 10:40	5°0		minimum elong	8169 Aug 22 22:24	7° Mp 12'07	0°56'46
	8164 Dec 14 00:52 8165 Jan 28 09:04	0° <b>≈</b> 0° <b>∀</b>			8169 Sep 23 12:04	0° <b>亞</b>	2 40510 ATT
evening set	8165 Feb 11 12:34	9° <b>∺</b> 45'29		max. Earth dist. morning rise	8169 Oct 05 08:39 8169 Oct 21 05:44	8° <b>≙</b> 20'17 19° <b>≙</b> 18'41	2.49518 AU
max. Earth dist.	8165 Feb 25 06:47	19° <b>∺</b> 26′08	2.47990 AU	morning risc	8169 Nov 06 00:03	0°M	
max. Lattii Uist.	8165 Mar 12 00:36	19 <b>Λ</b> 2008	2.7/7/0 AU		8169 Dec 21 21:34	0° <b>⊼</b> 1	
	0103 Wai 12 00.30	V I			8170 Feb 08 14:08	°ੇਂ ਰ°ੇਂ	
conjunction	8165 Apr 05 00:42	17° <b>Ƴ</b> 37'32	-1°05'27		8170 Apr 03 03:15	0°≈	
minimum elong	8165 Apr 05 01:33	17° <b>Y</b> 39'06		desc. node	8170 May 01 14:14	13° <b>≈</b> 37'48	
g	8165 Apr 21 12:03	0°8	1 00 29	retrograde	8170 Jun 29 00:21	28° <b>≈</b> 47'40	
	8165 May 30 11:08	0°II		opposition	8170 Aug 05 22:28	20°≈23'59	-3°21'18
morning rise	8165 Jun 05 07:07	4° <b>Ⅱ</b> 33'23		greatest brilliancy	8170 Aug 06 15:11	20°≈08'10	-1.6m
<b>5</b> -	8165 Jul 07 16:18	0ංම 		min. Earth dist.	8170 Aug 12 05:03	18° <b>≈</b> 01'24	0.60262 AU
greatest brilliancy	8165 Jul 26 07:56	14° <b>©</b> 39'26	1.2m	direct	8170 Sep 15 21:52	10° <b>≈</b> 33'22	
asc. node	8165 Aug 12 13:10	28°906'01			8170 Nov 18 02:05	0° <b>∀</b>	
	8165 Aug 14 23:52	$0^{\circ}\Omega$			8171 Jan 06 15:27	$0^{\circ}\mathbf{\Upsilon}$	
	8165 Sep 23 07:44	0° <b>m</b> p			8171 Feb 17 17:54	$8^{\circ}$ 0	
	8165 Nov 03 15:53	0∘ <b>⊽</b>			8171 Mar 29 01:18	$\Pi^{\circ}0$	
	8165 Dec 18 09:23	0° <b>M</b> ₊		asc. node	8171 Apr 04 10:50	4° <b>Ⅱ</b> 58'32	
	8166 Feb 08 05:02	0° <b>∡</b> ¹			8171 May 06 11:42	0ಂತ	
retrograde	8166 Apr 17 18:58	21° <b>∡</b> 10′05			8171 Jun 14 06:57	$0^{\circ}\Omega$	
min. Earth dist.	8166 May 27 02:33	11° <b>∡</b> 747'53	0.67474 AU		8171 Jul 24 08:41	0° <b>m</b>	
opposition	8166 May 28 08:18	11° <b>∤</b> 18'17	2°01'00	evening set	8171 Aug 21 14:07	20° <b>m</b> 21'47	

	8171 Sep 04 06:31	0° <b>⊙</b>			8176 Jun 10 15:33	0°8	
					8176 Jul 23 00:27	$\Pi$ °0	
conjunction	8171 Oct 15 03:03	27° <b>£</b> 56'32			8176 Sep 03 01:13	0ა <b>ௐ</b>	
minimum elong	8171 Oct 15 03:58	27° <b>≏</b> 58'04	1°03'35		8176 Oct 16 16:08	$0^{\circ}\Omega$	
	8171 Oct 18 04:54	0°M₊		asc. node	8176 Nov 24 11:56	22° <b>Ω</b> 55'47	
max. Earth dist.	8171 Nov 06 12:44	12° <b>M</b> 47'42	2.60902 AU		8176 Dec 10 04:17	0° <b>m</b>	
morning rise	8171 Dec 03 02:16	0° <b>≯</b> 03'04		retrograde	8177 Jan 11 12:41	6° <b>m</b> 54′07	
	8171 Dec 03 00:21	0° <b>∡</b>		min. Earth dist.	8177 Feb 07 10:11	1° m 57'28	0.43749 AU
	8172 Jan 19 09:40	0°ಕ			8177 Feb 13 06:16	30°R <b>Ω</b>	
	8172 Mar 08 08:00	0° <b>≈</b>		greatest brilliancy	8177 Feb 14 07:13	29° <b>Ω</b> 38'48	-2.5m
desc. node	8172 Mar 18 10:48	6°≈03'11		opposition	8177 Feb 15 18:35	29° <b>Ω</b> 08'52	4°42'50
	8172 Apr 28 19:37	0° <b>∀</b>		direct	8177 Mar 19 15:23	22° <b>Ω</b> 49'59	
. 1	8172 Jun 27 18:23	0° <b>Υ</b>			8177 Apr 24 15:04	0° <b>m</b>	
retrograde	8172 Aug 18 04:39	12° <b>Υ</b> 27'24	5044100		8177 Jun 26 03:02	0∘ <b>亚</b>	
opposition	8172 Sep 21 04:59	5° <b>Υ</b> 42'28 5° <b>Υ</b> 06'11			8177 Aug 17 02:43	0° <b>ጤ</b> 0° <b>ዶ</b>	
greatest brilliancy min. Earth dist.	8172 Sep 22 23:31		-2.2m 0.47766 AU	desc. node	8177 Oct 05 22:57 8177 Nov 08 04:51	0° <b>x</b> ¹ 20° <b>x</b> ¹27'05	
IIIII. Eartii dist.	8172 Sep 29 20:53 8172 Oct 09 04:46	2 1 43 39 30° <b>₹</b>	0.47700 AU	desc. node		20 x·2/03 0°る	
direct	8172 Oct 09 04:46 8172 Oct 28 13:08	30° <b>₹π</b> 27° <b>¥</b> 24'57		evening set	8177 Nov 23 12:21 8177 Dec 19 09:35	0°る 16° <b>る</b> 21'59	
direct	8172 Oct 28 13:08 8172 Nov 17 04:58	27 <b>γ</b> (2437		evening set	8177 Dec 19 09.33 8178 Jan 09 13:57	10 <b>6</b> 21 39 0° <b>≈</b>	
	8172 Nov 17 04:38 8173 Jan 17 20:43	0°8		max. Earth dist.	8178 Jan 13 21:42		2.62936 AU
asc. node	8173 Feb 19 11:53	22° <b>8</b> 15'17		max. Earth dist.	61/6 Jan 13 21.42	2 ~~40 40	2.02930 AU
asc. Houc	8173 Mar 02 05:42	0°II		conjunction	8178 Feb 02 12:36	15° <b>≈</b> 42'32	-0°42'43
	8173 Apr 11 17:36	0°©		minimum elong	8178 Feb 02 11:28	15°≈40'40	
	8173 May 22 01:38	$0 {\circ} \Omega$		minimum ciong	8178 Feb 23 20:34	0° <b>∀</b>	0 42 33
	8173 Jul 02 11:30	o°mp		morning rise	8178 Mar 20 17:52	17° <b>₩</b> 03'17	
	8173 Aug 14 13:37	0∘ <b>ರ</b> ೧.ಗು		morning rise	8178 Apr 08 05:29	0° <b>Υ</b>	
	8173 Sep 28 10:03	0° <b>M</b>			8178 May 19 19:55	0°8	
evening set	8173 Oct 07 00:23	5°M37'53			8178 Jun 29 00:05	0°II	
	8173 Nov 13 16:59	0° <b>∡</b> 7			8178 Aug 07 08:07	0.ಕಾ 	
	017511011510.05				8178 Sep 15 17:18	$0^{\circ}\Omega$	
conjunction	8173 Nov 23 11:39	6° <b>х</b> 15′20	0°35'48	asc. node	8178 Oct 12 09:33	19° <b>Ω</b> 48'35	
minimum elong	8173 Nov 23 12:40	6° <b>≯</b> 16'56	0°35'56		8178 Oct 26 13:14	0° m/y	
max. Earth dist.	8173 Nov 29 23:33	10° <b>х</b> 23′55	2.67076 AU		8178 Dec 10 17:07	0∘ <del>⊽</del>	
	8173 Dec 30 20:12	0°ರ		retrograde	8179 Feb 27 16:20	29° <b>ჲ</b> 50'11	
morning rise	8174 Jan 07 01:46	4° <b>ප</b> 34'47		min. Earth dist.	8179 Apr 01 09:03	22° <b>≏</b> 38'34	0.57146 AU
desc. node	8174 Feb 03 08:07	21° <b>る</b> 49'42		opposition	8179 Apr 07 21:01	20° <b>≏</b> 06'56	4°54'57
	8174 Feb 16 06:10	0° <b>≈</b>		greatest brilliancy	8179 Apr 06 18:47	20° <b>≏</b> 32'31	-1.8m
	8174 Apr 04 16:24	0° <b>∀</b>		direct	8179 May 14 11:55	11° <b>≏</b> 49'29	
	8174 May 22 06:32	$0^{\circ}\mathbf{\Upsilon}$			8179 Jul 18 01:33	$0^{\circ}$ M	
	8174 Jul 09 20:49	$9^{\circ}$ 8			8179 Sep 13 23:54	0° <b>∡</b> ¹	
	8174 Sep 01 01:59	$\Pi^{\circ}0$		desc. node	8179 Sep 26 05:35	6° <b>₰</b> 757'04	
retrograde	8174 Nov 01 20:17	18° <b>Ⅱ</b> 51'11			8179 Nov 04 05:18	0°ප	
opposition	8174 Dec 01 16:33	13° <b>Ⅱ</b> 56′06			8179 Dec 22 03:42	0° <b>≈</b>	
greatest brilliancy	8174 Dec 02 00:28	13° <b>Ⅱ</b> 50'49		evening set	8180 Jan 26 16:55	23° <b>≈</b> 26′19	
min. Earth dist.	8174 Dec 03 09:30	13° <b>Ⅱ</b> 28'48	0.36859 AU		8180 Feb 05 09:00	0° <b>∀</b>	
direct	8174 Dec 31 17:01	8° <b>Ⅱ</b> 52'43		max. Earth dist.	8180 Feb 11 12:32	4° <b>){</b> 12'49	2.53026 AU
asc. node	8175 Jan 07 12:57	9° <b>Ⅱ</b> 11'56					
	8175 Mar 04 23:44	0°©		conjunction	8180 Mar 15 22:10	27° <b>)</b> 40'57	
	8175 Apr 23 07:51	$\Omega^{\circ}\Omega$		minimum elong	8180 Mar 15 21:42	27° <b>)</b> (40′07	1°06'23
	8175 Jun 08 05:44	0° Mp			8180 Mar 19 03:35	$^{\circ \gamma}$	
	8175 Jul 24 04:16	0∘ <b>亚</b>			8180 Apr 28 20:50	0°8	
	8175 Sep 08 21:36	0°M		morning rise	8180 May 09 21:52	8° <b>8</b> 21'18	
. ,	8175 Oct 26 06:54	0° <b>√</b> 7			8180 Jun 07 01:59	0°∏	
evening set	8175 Nov 14 11:11	12° <b>メ</b> 05'56 0° <b>る</b>			8180 Jul 15 12:11	$0$ ം ${f V}$ $0$ ം ${f a}$	
may Earth dist	8175 Dec 12 18:36		2 67720 ATT	aga mada	8180 Aug 22 23:27		
max. Earth dist. desc. node	8175 Dec 22 10:19 8175 Dec 22 05:40	6°る0/31	2.67738 AU	asc. node	8180 Aug 29 07:37 8180 Oct 01 10:52	4° <b>Ω</b> 53'33 0° <b>m</b>	
acsc. Hout	01/3 DEC 22 US.40	0 00020			8180 Oct 01 10:32 8180 Nov 12 03:13	0ം <b>⊽</b>	
conjunction	8175 Dec 29 05:55	10° <b>る</b> 28'14	-0°03'44		8180 Dec 28 01:01	0°M	
minimum elong	8175 Dec 29 05:47	10 32814 10° <b>3</b> 28'01			8181 Feb 24 17:51	0° <b>∕</b> 7	
behind sun begin	8175 Dec 28 11:42	9° <b>る</b> 59'14	0 0 <i>0 0</i> 7	retrograde	8181 Apr 04 12:09	8° <b>∡</b> ¹09'19	
behind sun end	8175 Dec 29 23:52	9 83914 10° <b>8</b> 56'48		renograde	8181 May 10 10:12	30°RM	
James James Gra	8176 Jan 28 16:57	0°≈		min. Earth dist.	8181 May 12 05:58		0.65814 AU
morning rise	8176 Feb 10 22:11	8°≈33'36		opposition	8181 May 14 23:29		2°56'32
0	8176 Mar 14 14:32	0° <b>∀</b>		greatest brilliancy	8181 May 14 17:04	28°M17'48	-1.4m
	8176 Apr 28 06:01	0° <b>Υ</b>		direct	8181 Jun 23 16:21	18°M48'59	
	-F- == 00.01	•					

	9101 Cap 19 14:42	0°ම			9106 Oat 20 22:06	0°ಕ	
	8191 Sep 18 14:42 8191 Nov 11 06:18	0° <b>U</b>			8196 Oct 20 22:06 8196 Dec 09 02:41	0°≈	
asc. node	8191 Nov 11 00:18 8191 Dec 12 05:05	8° <b>Ω</b> 44'53			8197 Jan 23 15:46	0° <b>∺</b>	
retrograde	8191 Dec 12 05:05 8191 Dec 19 10:10	9° <b>Ω</b> 07'19		evening set	8197 Feb 21 18:52	20° <b>¥</b> 16'57	
min. Earth dist.	8192 Jan 14 11:02	4°Ω44'53	0.39037 AU	evening set	8197 Mar 07 07:56	0° <b>Υ</b>	
opposition	8192 Jan 20 21:23	2°Ω50'18		max. Earth dist.	8197 Mar 07 13:40		2.45072 AU
greatest brilliancy	8192 Jan 20 03:20	3°Ω03'48			8197 Apr 16 18:13	0°8	
8	8192 Jan 31 03:08	30° <b>R</b> ∽					
direct	8192 Feb 19 23:30	27°928'00		conjunction	8197 Apr 17 16:09	0° <b>8</b> 41'38	-1°00'44
	8192 Mar 11 01:26	$0^{\circ}\Omega$		minimum elong	8197 Apr 17 17:57	0° <b>8</b> 45'03	1°00'48
	8192 May 17 13:43	0° <b>m</b>			8197 May 25 15:18	$\Pi^{\circ}0$	
	8192 Jul 07 14:41	0∘ <b>亚</b>		morning rise	8197 Jun 21 22:33	21° <b>Ⅱ</b> 27'39	
	8192 Aug 25 17:21	0°M₊			8197 Jul 02 18:20	0ං <b>ව</b>	
	8192 Oct 13 08:17	0° <b>∡</b> ¹		asc. node	8197 Aug 02 22:31	24° <b>©</b> 29'52	
desc. node	8192 Nov 24 18:50	26° <b>∡</b> ¹28'48			8197 Aug 10 00:01	$0$ $\circ$ $\Omega$	
	8192 Nov 30 09:01	0°₹			8197 Sep 18 05:37	0° <b>m</b> ∕	
evening set	8192 Dec 05 09:37	3° <b>ठ</b> 10'18			8197 Oct 29 09:22	0∘ <b>⊽</b>	
max. Earth dist.	8193 Jan 04 13:32		2.65447 AU		8197 Dec 12 14:51	0° <b>M</b> ₊	
	8193 Jan 16 07:54	0° <b>≈</b>			8198 Jan 31 10:51	0° <b>∡</b> ¹	
. ,.	0102 1 10 00 51	10 45125	0020124	retrograde	8198 Apr 25 08:46	28° 🗷 55'36	102700
conjunction	8193 Jan 19 00:51	1°≈45'25		opposition	8198 Jun 04 21:14	19° <b>₹</b> 08'44	1°27'08
minimum elong	8193 Jan 19 00:02 8193 Mar 02 18:54	1° <b>≈</b> 44'06 0° <b>)</b> €	0-2815	min. Earth dist.	8198 Jun 04 11:32 8198 Jun 04 21:03	19° <b>х</b> 18′23 19° <b>х</b> 08′56	0.67971 AU -1.3m
morning rise	8193 Mar 04 18:23	0 <del>X</del> 1° <b>¥</b> 19'54		greatest brilliancy direct	8198 Jul 15 18:22	9° <b>₹</b> ¹22'45	-1.5111
morning risc	8193 Apr 15 13:30	0° <b>Υ</b>		desc. node	8198 Jul 17 19:38	9° <b>×</b> <sup>7</sup> 24'17	
	8193 May 27 17:20	%8 0.8		desc. node	8198 Sep 24 02:16	0° <b>ਰ</b>	
	8193 Jul 07 12:40	0°II			8198 Nov 17 23:08	0° <b>≈</b>	
	8193 Aug 16 12:51	0°9			8199 Jan 04 00:07	0° <b>₩</b>	
	8193 Sep 25 18:00	$0^{\circ}\Omega$			8199 Feb 15 22:47	$0^{\circ}\Upsilon$	
asc. node	8193 Oct 29 03:09	23° <b>Ω</b> 52'01			8199 Mar 28 04:52	0°8	
	8193 Nov 07 03:27	0° <b>m</b>		evening set	8199 Apr 20 06:45	17° <b>8</b> 50'01	
	8193 Dec 28 07:38	0∘ <b>⊽</b>			8199 May 05 19:07	$\Pi^{\circ}0$	
retrograde	8194 Feb 11 04:19	11° <b>≏</b> 56'39			8199 Jun 12 16:51	0ංම	
min. Earth dist.	8194 Mar 13 11:58	5° <b>£</b> 36'38	0.52209 AU	asc. node	8199 Jun 20 21:16	6°528'30	
greatest brilliancy	8194 Mar 19 20:06	3° <b>≙</b> 13'52	-2.0m				
opposition	8194 Mar 21 06:28	2° <b>≏</b> 41'26	5°18'34	conjunction	8199 Jun 28 09:50	12° <b>5</b> 24'53	0°05'28
	8194 Mar 28 17:05	30°R, Mp		minimum elong	8199 Jun 28 09:13	12° <b>©</b> 23'40	0°05'18
direct	8194 Apr 25 05:51	25° m 02'49		behind sun begin	8199 Jun 27 04:02	11°526'08	
	8194 May 25 04:48	0∘ <b>亚</b>		behind sun end	8199 Jun 29 14:25	13° <b>©</b> 21'11	
	8194 Jul 31 10:01	0° <b>™</b> 0° <i>₹</i> ¹		F4h 4:-4	8199 Jul 20 20:23	0°Ω 20%Ω40!45	2 20502 ATT
desc. node	8194 Sep 22 17:23 8194 Oct 12 18:45	0° <b>×</b> ° 11° <b>×</b> <sup>7</sup> 52'38		max. Earth dist.	8199 Aug 16 17:30	20° <b>Ω</b> 40'45 0° <b>m</b>	2.38582 AU
desc. node	8194 Oct 12 18:45 8194 Nov 11 14:41	0°る		morning rise	8199 Aug 29 01:56 8199 Sep 07 11:05	0°1110 6°100 59'37	
	8194 Nov 11 14.41 8194 Dec 29 02:44	0°≈		morning risc	8199 Oct 09 02:54	0 <b>்⊽</b>	
evening set	8195 Jan 11 03:38	8°≈29'51			8199 Nov 21 13:36	0° <b>™</b>	
max. Earth dist.	8195 Jan 30 04:52	21°≈08'28	2.57468 AU		8200 Jan 07 02:25	0° <b>∡</b> ¹	
	8195 Feb 12 07:30	0° <b>)</b> €			8200 Feb 27 15:10	5°0	
					8200 May 12 17:52	0° <b>≈</b>	
conjunction	8195 Feb 27 03:59	10° <b>)</b> 12′15	-1°00'30	retrograde	8200 May 30 06:34	1° <b>≈</b> 44'03	
minimum elong	8195 Feb 27 02:54	10° <b>¥</b> 10′23	1°00'25	desc. node	8200 Jun 04 18:28	1° <b>≈</b> 32'52	
	8195 Mar 27 06:38	$0^{\circ}\Upsilon$			8200 Jun 15 20:55	30°Ŗ₹	
morning rise	8195 Apr 18 15:23	16° <b>Y</b> 12'04		opposition	8200 Jul 08 21:03	22° <b>♂</b> 33'44	
	8195 May 07 06:53	$9^{\circ}$ 8		greatest brilliancy	8200 Jul 08 23:59	22° <b>る</b> 30'52	
	8195 Jun 15 19:26	Π°0		min. Earth dist.	8200 Jul 12 06:15		0.66206 AU
	8195 Jul 24 12:04	0°©		direct	8200 Aug 19 12:28	12° <b>る</b> 30'25	
1	8195 Sep 01 04:58	0°Ω			8200 Oct 20 07:25	0° <b>≈</b>	
asc. node	8195 Sep 15 23:46	11° <b>Ω</b> 17'54			8200 Dec 12 14:17	0° <b>∀</b>	
	8195 Oct 10 23:23	0° <b>m</b> )			8201 Jan 26 02:49	0°Υ	
	8195 Nov 22 07:41 8196 Jan 09 15:24	0° <b>╟</b> 0° <b>亞</b>			8201 Mar 07 19:15 8201 Apr 15 12:01	0°B 0°B	
retrograde	8196 Jan 09 15:24 8196 Mar 21 20:19	24°M25'30		asc. node	8201 Apr 13 12:01 8201 May 08 20:01	0° <b>Ⅱ</b> 18° <b>Ⅱ</b> 24'46	
min. Earth dist.	8196 Apr 26 18:58	16°ML07'31	0.63165 AU	use. Houc	8201 May 08 20:01 8201 May 23 11:52	18 <b>ப</b> 2440	
greatest brilliancy	8196 Apr 30 11:10	14°ML39'53	-1.5m		8201 Jun 30 20:02	0°Ω	
opposition	8196 May 01 00:14	14°ML26'52		evening set	8201 Jul 03 19:59	2° <b>Ω</b> 18'50	
direct	8196 Jun 08 16:08	5°M25'18		J	8201 Aug 09 08:59	0° m/y	
	8196 Aug 26 13:40	0° <b>∡</b> ¹			-	•	
desc. node	8196 Aug 29 19:22	1° <b>≯</b> ³36′01		conjunction	8201 Sep 06 10:11	20° m 30'25	1°03'17
dese. node	0170 Aug 27 17.22	1 7 30 01		conjunction			

minimum elong	8201 Sep 06 08:44	20° <b>m</b> 27'49	1°03'14	min. Earth dist.	8206 Dec 19 16:35	2° <b>©</b> 49'04	0.36673 AU
	8201 Sep 19 17:38	0∘ <b>亚</b>		opposition	8206 Dec 21 09:41	2° <b>5</b> 21'40	-0°39'21
max. Earth dist.	8201 Oct 14 18:23	17° <b>≏</b> 26'38	2.52373 AU	greatest brilliancy	8206 Dec 21 09:37	2° <b>©</b> 21'43	-3.1m
morning rise	8201 Nov 01 17:37	29° <b>≙</b> 39'05		asc. node	8206 Dec 29 20:36	0°512'04	
	8201 Nov 02 06:04	0° <b>M</b> .			8206 Dec 30 17:18	30°RⅡ	
	8201 Dec 18 00:35	0° <b>∡</b> ¹		direct	8207 Jan 19 15:17	27° <b>Ⅱ</b> 29'30	
	8202 Feb 04 05:33	0°₹			8207 Feb 08 11:22	$0 {\circ} {f \widehat{e}}$	
	8202 Mar 28 02:33	0° <b>≈</b>			8207 Apr 14 10:46	$0 {\circ} \Omega$	
desc. node	8202 Apr 22 16:00	13° <b>≈</b> 21′09			8207 Jun 02 04:15	0° <b>m</b> )	
	8202 May 31 06:54	0° <b>∀</b>			8207 Jul 19 08:34	0∘ <b>ত</b>	
retrograde	8202 Jul 09 21:17	7° <b>)</b> 45′14			8207 Sep 04 18:03	0° <b>™</b>	
	8202 Aug 15 04:07	30°R <b>≈</b>			8207 Oct 22 12:07	0° <b>∡</b>	
opposition	8202 Aug 16 03:17	29° <b>≈</b> 38′26		evening set	8207 Nov 23 11:27	20° <b>∡</b> 05'50	
greatest brilliancy	8202 Aug 17 01:45	29°≈17'27			8207 Dec 09 03:43	0°る	
min. Earth dist.	8202 Aug 23 03:18	27°≈01'27	0.57971 AU	desc. node	8207 Dec 13 08:44	2° <b>る</b> 39'57	2 (51 (6 1 ) )
direct	8202 Sep 25 15:37	19°≈58'02		max. Earth dist.	8207 Dec 28 13:17	12° <b>6</b> 19'21	2.67166 AU
	8202 Nov 07 06:04	0° <b>∀</b>			0200 1 07 01 42	100 70 4101	0012157
	8202 Dec 31 16:49	$^{\circ \gamma}$		conjunction	8208 Jan 07 01:42	18°පි24'21 18°පි23'44	
	8203 Feb 12 19:31	0°B 8°0		minimum elong	8208 Jan 07 01:19	18°る23'44 18°る05'45	0°12'48
asc. node	8203 Mar 24 12:37	0°Д 1°Д48'15		behind sun begin behind sun end	8208 Jan 06 14:04 8208 Jan 07 12:33	18°る05'45 18°る41'44	
asc. node	8203 Mar 26 20:43 8203 May 02 04:24	о°9		bennid sun end	8208 Jan 25 02:09	18 O41 44 0°≈	
	8203 May 02 04.24 8203 Jun 10 03:58	0° <b>U</b>		morning rise	8208 Feb 19 23:04	0 ≈ 16°≈51'35	
	8203 Jul 20 09:37	0° <b>m</b>		morning rise	8208 Net 19 23:04 8208 Mar 10 19:50	0° <b>)</b>	
	8203 Jul 20 09.57 8203 Aug 31 10:58	0∘ <del>ত</del> بالا			8208 Apr 24 03:30	0°Υ	
evening set	8203 Sep 03 07:13	0 <b>—</b> 1° <b>⊆</b> 58'40			8208 Jun 06 01:14	0°8	
evening set	8203 Oct 14 12:06	0°M			8208 Jul 17 18:10	0°II	
	0203 001 14 12.00	0 110			8208 Aug 27 20:02	0.© 0 H	
conjunction	8203 Oct 25 19:00	7°M29'20	0°59'10		8208 Oct 08 15:33	$0^{\circ}\Omega$	
minimum elong	8203 Oct 25 20:09	7°M231'15	0°59'16	asc. node	8208 Nov 15 20:49	25° <b>Ω</b> 08'14	
max. Earth dist.	8203 Nov 13 09:24	19° <b>M</b> .40'40	2.62700 AU	use. House	8208 Nov 24 03:27	0° m)	
	8203 Nov 29 08:13	0° <b>∡</b> 7		retrograde	8209 Jan 24 11:43	21° mp 01'01	
morning rise	8203 Dec 12 10:30	8° <b>҂</b> 23'42		min. Earth dist.	8209 Feb 21 10:03	15° <b>m</b> ) 36'43	0.46752 AU
S	8204 Jan 15 14:05	ರ°0		greatest brilliancy	8209 Feb 28 08:22	13° <b>m</b> ) 10'03	-2.3m
	8204 Mar 04 00:37	0° <b>≈</b>		opposition	8209 Mar 01 22:30	12° <b>m</b> )36'11	5°11'32
desc. node	8204 Mar 09 13:14	3° <b>≈</b> 22'17		direct	8209 Apr 03 23:13	5° Mp 46'27	
	8204 Apr 23 03:15	0° <b>)</b> €			8209 Jun 18 01:46	0∘ <b>ত</b>	
	8204 Jun 16 15:20	$0^{\circ}\mathbf{\Upsilon}$			8209 Aug 11 22:10	0°M	
retrograde	8204 Sep 02 09:42	24° <b>Ƴ</b> 54'34			8209 Oct 01 18:00	0° <b>∡</b> ¹	
opposition	8204 Oct 05 09:03	18° <b>Ƴ</b> 38'18	-5°54'03	desc. node	8209 Oct 30 08:00	17° <b>∡</b> °22'59	
greatest brilliancy	8204 Oct 07 04:46	18° <b>Ƴ</b> 02'39	-2.4m		8209 Nov 19 17:25	0°రె	
min. Earth dist.	8204 Oct 13 20:23	15° <b>Ƴ</b> 54'02	0.44731 AU	evening set	8209 Dec 28 12:36	24° <b>る</b> 33'37	
direct	8204 Nov 10 05:45	11° <b>Y</b> 00'55			8210 Jan 05 22:41	0° <b>≈</b>	
	8205 Jan 07 10:29	0°8		max. Earth dist.	8210 Jan 20 15:44	9° <b>≈</b> 36′20	2.61207 AU
asc. node	8205 Feb 10 21:17	21° <b>8</b> 25'35					
	8205 Feb 23 09:26	$\Pi^{\circ}0$		conjunction	8210 Feb 12 03:13	24° <b>≈</b> 33'11	
	8205 Apr 06 02:57	0°©		minimum elong	8210 Feb 12 02:01	24°≈31'10	0°50'01
	8205 May 17 03:50	0° <b>N</b>			8210 Feb 20 04:49	0° <b>∀</b>	
	8205 Jun 28 01:35	0° Mp		morning rise	8210 Mar 31 13:01	27° <b>¥</b> 14′23	
	8205 Aug 10 12:21	0° <b>™</b>			8210 Apr 04 10:32	0° <b>Υ</b>	
. ,	8205 Sep 24 15:04	0°M			8210 May 15 20:02	0° <b>∀</b>	
evening set	8205 Oct 17 00:12	14° <b>M</b> .32'33 0° <b>∡</b> 7			8210 Jun 24 18:34	$\Pi^{\circ 0}$	
	8205 Nov 10 01:36	0.8.			8210 Aug 02 20:26	0° <b>⊙</b>	
conjunction	8205 Dec 02 14:31	14° <b>₹</b> 22'13	0°27'25	asc. node	8210 Sep 10 22:19 8210 Oct 03 19:00	0° <b>Ω</b> 17° <b>Ω</b> 12'30	
minimum elong	8205 Dec 02 14:31 8205 Dec 02 15:20	14 × 22 13 14° × 23'30	0°27'34	asc. noue	8210 Oct 03 19:00 8210 Oct 21 05:28	0° mg	
max. Earth dist.	8205 Dec 02 13.20 8205 Dec 06 01:51				8210 Oct 21 03:28 8210 Dec 03 21:08	0∘ <b>ʊ</b> 0 ılıı	
max. Lattii Uist.	8205 Dec 00 01:31 8205 Dec 27 05:17	10 x 34 37 0°る	2.07000 AU		8210 Dec 03 21:08 8211 Jan 27 15:56	0° <b>m</b>	
morning rise	8206 Jan 15 17:42	0 8 12° <b>8</b> 22'45		retrograde	8211 Mar 09 10:14	9°M31'29	
desc. node	8206 Jan 25 10:41	18° <b>පි</b> 32'30		min. Earth dist.	8211 Apr 12 07:54	1°M54'18	0.59517 AU
acce. node	8206 Feb 12 11:26	0°≈		greatest brilliancy	8211 Apr 17 03:22	0°M00'48	-1.7m
	8206 Mar 31 10:58	0° <b>∀</b>		o	8211 Apr 17 03:22	30°R <b>™</b>	
	8206 May 17 03:17	0° <b>Υ</b>		opposition	8211 Apr 18 00:41	29° <b>£</b> 39'46	4°33'41
	8206 Jul 02 21:18	0°8		direct	8211 May 25 10:03	21° <b>Ω</b> 04'46	
	8206 Aug 20 00:58	0°II			8211 Jul 06 23:05	0°M	
	8206 Oct 16 20:26	0ಂತಾ			8211 Sep 08 14:16	0° <b>∡</b> 7	
retrograde	8206 Nov 21 05:32	7° <b>5</b> 28'01		desc. node	8211 Sep 17 08:22	4° <b>∡</b> °47'27	
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evening set max. Earth dist.	8211 Oct 30 23:52 8211 Dec 18 08:18 8212 Feb 01 16:34 8212 Feb 06 01:33 8212 Feb 20 11:29 8212 Mar 15 10:38	0°る 0°≈ 0°¥ 2°¥59'30 12°¥58'41 0° <b>Y</b>	2.50304 AU	max. Earth dist. morning rise	8216 Aug 16 19:16 8216 Sep 26 23:18 8216 Sep 29 01:52 8216 Oct 13 16:20 8216 Nov 09 08:57 8216 Dec 25 06:45 8217 Feb 12 07:06	0° M 0° Ω 1° Ω 29'42 11° Ω 44'38 0° M 0° X' 0° S	2.47086 AU
conjunction minimum elong	8212 Mar 27 22:38 8212 Mar 27 22:50 8212 Apr 25 01:36	9° <b>Y</b> 05'00 9° <b>Y</b> 05'21 0° <b>呂</b>		desc. node retrograde	8217 Apr 08 07:03 8217 May 09 06:59 8217 Jun 22 23:01	0°≈ 13°≈35'21 23°≈10'12	
morning rise	8212 May 25 04:44 8212 Jun 03 03:58 8212 Jul 11 11:23	23°802'36 0°∏ 0°©		opposition greatest brilliancy min. Earth dist.	8217 Jul 31 07:56 8217 Jul 31 20:46 8217 Aug 05 23:24	14°≈34'23 14°≈22'06 12°≈24'51	
asc. node	8212 Aug 18 20:09 8212 Aug 20 15:23 8212 Sep 27 04:28 8212 Nov 07 13:53	0° N 1° N 23'44 0° M 0° Ω		direct	8217 Sep 10 13:32 8217 Nov 24 11:13 8218 Jan 11 08:28 8218 Feb 22 01:18	4°≈37'48 0° <del>Υ</del> 0° <b>Υ</b> 0° <b>Υ</b>	0.01720 AO
retrograde	8212 Dec 22 14:56 8213 Feb 14 05:07 8213 Apr 13 04:09	0°M 0°⊀ 16°⊀10'08		asc. node	8218 Apr 02 04:43 8218 Apr 12 12:07 8218 May 10 11:45	0°Ⅲ 8°Ⅲ03′20 0°ᢒ	
min. Earth dist. opposition greatest brilliancy	8213 May 21 19:03 8213 May 23 16:40 8213 May 23 13:08	7° ₹ 00'34 6° ₹ 15'06 6° ₹ 18'37	0.66850 AU 2°24'30 -1.3m	evening set	8218 Jun 18 03:14 8218 Jul 28 00:35 8218 Aug 12 22:28	0° <b>Ω</b> 0° <b>m</b> 11° <b>m</b> 36′58	
direct	8213 Jun 10 03:43 8213 Jul 02 20:31 8213 Jul 27 14:37	30°RM 26°M43'15 0°⊀		conjunction	8218 Sep 07 17:38 8218 Oct 08 09:10	0° <b>ჲ</b> 21° <b>ჲ</b> 09'12	1°05'41
desc. node	8213 Aug 04 09:02 8213 Oct 06 13:34 8213 Nov 27 06:58	2°♂08'05 0°♂ 0°≈		minimum elong max. Earth dist.	8218 Oct 08 09:48 8218 Oct 21 12:05 8218 Nov 02 22:54	21° <b>£</b> 10'15 0° <b>M</b> 8° <b>M</b> 17'32	1°05'44 2.59260 AU
evening set	8214 Jan 12 13:29 8214 Feb 24 08:09 8214 Mar 27 08:52	0° <b>ℋ</b> 0° <b>♈</b> 22° <b>♈</b> 58'36		morning rise	8218 Nov 27 14:35 8218 Dec 06 05:26 8219 Jan 22 16:42	24°M26'05 0°メ 0°る	
max. Earth dist.	8214 Apr 05 14:59 8214 Apr 29 22:29 8214 May 14 07:09	0° <b>8</b>	2.37394 AU	desc. node	8219 Mar 13 00:44 8219 Mar 27 03:41 8219 May 04 18:29	0°≈ 8°≈18'26 0°¥	
conjunction minimum elong	8214 May 30 02:21 8214 May 30 04:57	12° <b>П</b> 27'40 12° <b>П</b> 32'49	-0°27'41 0°27'48	retrograde	8219 Jul 11 20:15 8219 Aug 10 02:50 8219 Sep 06 07:15	0°Υ 4°Υ32'44 30°R¥	
asc. node	8214 Jun 21 06:06 8214 Jul 08 13:29 8214 Jul 29 09:28	0°5 13°540′20 0°Ω	0 27 40	opposition greatest brilliancy min. Earth dist.	8219 Sep 13 23:02 8219 Sep 15 14:10 8219 Sep 22 11:13	27°\£26'17 26°\£51'52 24°\£27'30	-5°27'21 -2.1m 0.50220 AU
morning rise	8214 Aug 11 02:37 8214 Sep 06 13:52 8214 Oct 17 13:58	9° <b>Ω</b> 51'11 0° <b>m</b> 0° <b>⊆</b>		direct	8219 Oct 22 05:36 8219 Dec 05 03:55 8220 Jan 25 13:12	18°¥42'27 0° <b>Υ</b> 0° <b>∀</b>	0.30220 AO
	8214 Oct 17 13:38 8214 Nov 30 03:58 8215 Jan 16 10:20 8215 Mar 12 06:12	0°M 0° <b>%</b> 0°중		asc. node	8220 Feb 28 12:57 8220 Mar 07 14:03 8220 Apr 16 11:06	24°803'54 0°Ⅲ 0°9	
retrograde desc. node opposition	8215 May 17 08:40 8215 Jun 22 08:53 8215 Jun 26 11:13	19°804'15 11°813'10 9°837'10	-0°08'31		8220 May 26 08:25 8220 Jul 06 09:18 8220 Aug 18 03:27	0°₽ 0°₩ 0°Ω	
greatest brilliancy min. Earth dist.	8215 Jun 26 11:28 8215 Jun 28 08:50 8215 Jul 30 06:01	9° <b>ප</b> 36'56		evening set	8220 Sep 30 22:08 8220 Oct 01 17:48 8220 Nov 16 20:50	29° <b>£</b> 27'33 0° <b>M</b> 0° <b>⊀</b>	
direct	8215 Aug 06 23:39 8215 Aug 14 22:13 8215 Nov 02 22:33	29° <b>҂</b> 37′21 0° <b>ठ</b> 0°≈		conjunction minimum elong	8220 Nov 18 05:36 8220 Nov 18 06:44	0° <b>₹</b> 52'34 0° <b>₹</b> 54'23	0°41'27 0°41'35
	8215 Dec 22 13:52 8216 Feb 04 06:06 8216 Mar 15 16:32	0° <b>႘</b> 0° <b>Ƴ</b>		max. Earth dist. morning rise	8220 Nov 27 08:15 8221 Jan 02 07:06 8221 Jan 02 23:31	6°፟፟፟፟፟፟፟፟፟፟፟፟	2.66396 AU
asc. node	8216 Apr 23 07:18 8216 May 25 13:17 8216 May 31 05:19	0°Ⅱ 25°Ⅱ30'41 0°ᢒ		desc. node	8221 Feb 11 00:47 8221 Feb 19 13:25 8221 Apr 08 09:51	24° <b>පි</b> 38'15 0°≈ 0°¥	
evening set	8216 Jun 04 10:06 8216 Jul 08 10:30	3°€19'18 0°N			8221 May 26 21:35 8221 Jul 16 13:27 8221 Sep 17 06:03	0°π 0°8 0°Υ	
conjunction minimum elong	8216 Aug 12 20:42 8216 Aug 12 17:43	27° <b>Ω</b> 03'07 26° <b>Ω</b> 57'31		retrograde opposition	8221 Oct 19 08:34 8221 Nov 18 09:44	5° <b>Ⅱ</b> 49'45 0° <b>Ⅱ</b> 48'22	-4°06'25

greatest brilliancy	8221 Nov 19 05:23	0° <b>Ⅱ</b> 34'54	-2.9m	evening set	8227 Jan 20 21:21	17° <b>≈</b> 22'07	
· ·	8221 Nov 21 08:15	30° <b>₹</b> 8		max. Earth dist.	8227 Feb 07 01:57	28° <b>≈</b> 56′07	2.55101 AU
min. Earth dist.	8221 Nov 22 14:33	29° <b>8</b> 39'21	0.37796 AU		8227 Feb 08 15:31	0° <b>∀</b>	
direct	8221 Dec 19 12:17	25° <b>8</b> 20'18					
asc. node	8222 Jan 15 14:20	0° <b>Ⅱ</b> 07'02		conjunction	8227 Mar 10 00:04	20° <b>)</b> €21'21	-1°04'37
	8222 Jan 15 05:46	$\Pi^{\circ}0$		minimum elong	8227 Mar 09 23:17	20° <b>)</b> 19′58	1°04'34
	8222 Mar 14 16:41	0ංම			8227 Mar 23 13:24	$0^{\circ}$ Y	
	8222 Apr 29 11:09	$0^{\circ}\Omega$		morning rise	8227 May 01 18:06	28° <b>Y</b> '44'02	
	8222 Jun 12 23:30	O° Mp			8227 May 03 10:41	$0^{\circ}$ 8	
	8222 Jul 28 03:08	0∘ <b>ত</b>			8227 Jun 11 19:49	$\Pi$ °0	
	8222 Sep 12 09:07	0°M			8227 Jul 20 08:56	0	
	8222 Oct 29 11:51	0°⊀			8227 Aug 27 22:02	$0$ ° $\Omega$	
evening set	8222 Nov 09 09:13	6° <b>≯</b> 53'36		asc. node	8227 Sep 07 09:24	8° <b>Ω</b> 03′12	
	8222 Dec 15 21:06	0° <b>ろ</b>			8227 Oct 06 11:09	0° <b>™</b>	
max. Earth dist.	8222 Dec 19 17:31	2° <b>る</b> 26'39	2.68024 AU		8227 Nov 17 07:15	0∘ <b>⊽</b>	
					8228 Jan 02 21:12	0° <b>M</b>	
conjunction	8222 Dec 24 09:38	5° <b>る</b> 24'41	0°02'56		8228 Mar 08 20:11	0° <b>∡</b> 7	
minimum elong	8222 Dec 24 09:43	5° <b>る</b> 24'48	0°03'06	retrograde	8228 Mar 30 18:16	2° <b>₹</b> 53'11	
behind sun begin	8222 Dec 23 15:32	4°る55'55		t materia	8228 Apr 20 07:35	30°RM	0.64546.477
behind sun end	8222 Dec 25 03:54	5° <b>る</b> 53'40		min. Earth dist.	8228 May 06 17:02	24°M15'18	0.64746 AU
desc. node	8222 Dec 29 22:14	8° <b>る</b> 55'27		opposition	8228 May 10 02:27	22°M54'08	3°18'45
	8223 Jan 31 20:54	0° <b>≈</b> 3° <b>≈</b> 18'39		greatest brilliancy	8228 May 09 17:21	23°M03'13	-1.4m
morning rise	8223 Feb 06 00:12	0° <b>H</b>		direct	8228 Jun 18 08:17	13°M40′28 0°⊀	
	8223 Mar 18 23:31 8223 May 03 00:01	0° <b>Υ</b>		desc. node	8228 Aug 18 16:21	1° <b>x</b> <sup>7</sup> 00'16	
	8223 Jun 15 22:28	0°8		desc. node	8228 Aug 20 22:38 8228 Oct 16 02:25	0100.10 00 8°0	
	8223 Jul 13 22:28 8223 Jul 29 01:02	0°II			8228 Dec 05 01:29	0°≈	
	8223 Sep 10 03:32	0°e			8229 Jan 19 20:27	0 <b>∞</b> 0° <b>∀</b>	
	8223 Oct 26 03:08	0° <b>U</b>			8229 Mar 03 13:50	0°Υ	
asc. node	8223 Dec 03 13:49	19° <b>Ω</b> 27'16		evening set	8229 Mar 05 20:01	1° <b>Υ</b> 38'14	
retrograde	8224 Jan 03 12:47	25° <b>Ω</b> 48'32		max. Earth dist.	8229 Mar 21 18:37	13° <b>Υ</b> 20'11	2.42091 AU
min. Earth dist.	8224 Jan 29 19:13	21°Ω11'27	0.41460 AU	max. Dartii dist.	8229 Apr 12 23:07	0°8	2.12071710
greatest brilliancy	8224 Feb 05 09:06	19° <b>£</b> 05′23	-2.7m		v==>p= -= -v··		
opposition	8224 Feb 06 15:01	18° <b>Ω</b> 41′20	4°05'26	conjunction	8229 May 02 13:55	15° <b>8</b> 02'53	-0°52'12
direct	8224 Mar 08 14:36	12° <b>Ω</b> 48'30		minimum elong	8229 May 02 16:35	15° <b>8</b> 08'02	
	8224 May 06 23:11	0° <b>m</b> y		Č	8229 May 21 18:41	$\Pi^{\circ}0$	
	8224 Jul 01 13:15	0∘ <b>⊽</b>			8229 Jun 28 20:15	$0$ $\circ$ $\odot$	
	8224 Aug 21 02:11	0°M,		morning rise	8229 Jul 10 15:10	9° <b>©</b> 18'15	
	8224 Oct 09 08:22	0° <b>∡</b> ¹		asc. node	8229 Jul 25 06:21	20°5548'26	
desc. node	8224 Nov 15 20:56	23° <b>х</b> 13'59			8229 Aug 06 00:43	$0^{\circ}\Omega$	
	8224 Nov 26 16:12	0°ප			8229 Sep 14 05:08	0° <b>™</b>	
evening set	8224 Dec 14 09:16	11° <b>ප</b> 10'56			8229 Oct 25 06:05	0∘ <b>⊽</b>	
max. Earth dist.	8225 Jan 10 23:50	28° <b>る</b> 52'45	2.64169 AU		8229 Dec 08 02:58	$0^{\circ}$ M	
	8225 Jan 12 17:21	0° <b>≈</b>			8230 Jan 25 15:29	0° <b>∡</b>	
					8230 Mar 29 12:51	0°ප	
conjunction	8225 Jan 28 05:19	10° <b>≈</b> 06'50		retrograde	8230 May 03 22:36	6° <b>る</b> 34'55	
minimum elong	8225 Jan 28 04:18	10°≈05'10	0°36'49		8230 Jun 05 08:50	30°₹ <b>⋌</b>	
	8225 Feb 27 02:44	0° <b>∀</b>		opposition	8230 Jun 13 08:27	26° ₹ 54'10	
morning rise	8225 Mar 14 16:08	10° <b>¥</b> 33'56		greatest brilliancy	8230 Jun 13 09:01	26° ₹ 53'36	-1.3m
	8225 Apr 11 16:52	$^{\circ \gamma}$		min. Earth dist.	8230 Jun 13 18:25	26° <b>₹</b> 44'17	0.68149 AU
	8225 May 23 13:45	0°B 8°0		desc. node direct	8230 Jul 08 22:39	18° <b>х</b> 34′25 17° <b>х</b> 02′07	
	8225 Jul 03 00:52	0°e 0 π		direct	8230 Jul 24 12:09 8230 Sep 15 14:13	1/ x·020/ 0°る	
	8225 Aug 11 15:26 8225 Sep 20 07:36	0° <b>U</b>			8230 Nov 13 00:33	0°≈	
asc. node	8225 Oct 20 11:20	22° <b>Ω</b> 06'49			8230 Nov 13 00.33 8230 Dec 30 19:54	0 <b>∞</b> 0° <b>∀</b>	
asc. node	8225 Oct 20 11:20 8225 Oct 31 15:02	0° m			8231 Feb 12 00:28	0°Υ	
	8225 Dec 17 07:43	0∘ <del>ಹ</del>			8231 Mar 24 07:57	%8 0°8	
retrograde	8226 Feb 21 19:51	0 <b>—</b> 22° <b>⊆</b> 54'40			8231 May 01 22:13	0°II	
min. Earth dist.	8226 Mar 25 11:33	16° <b>♀</b> 04'52	0.55028 AU	evening set	8231 May 06 21:35	3° <b>П</b> 55'22	
greatest brilliancy	8226 Mar 31 07:29	13° <b>⊆</b> 50'32		-0	8231 Jun 08 19:38	0°50	
opposition	8226 Apr 01 13:31	13° <b>⊆</b> 21'34		asc. node	8231 Jun 12 04:55	2°5540'58	
direct	8226 May 07 11:07	5° <b>£</b> 20'12				000	
	8226 Jul 24 07:27	0°M		conjunction	8231 Jul 16 14:15	29° <b>©</b> 42'56	0°24'07
	8226 Sep 17 23:01	0° <b>∡</b> 7		minimum elong	8231 Jul 16 11:50	29° <b>©</b> 38'14	0°23'57
desc. node	8226 Oct 03 21:35	9° <b>х</b> 13′49		5	8231 Jul 16 23:02	$0^{\circ}\Omega$	
	8226 Nov 07 14:23	0°ರ			8231 Aug 25 04:54	0° m/y	
	8226 Dec 25 09:17	0° <b>≈</b>		max. Earth dist.	8231 Sep 07 16:29	10° <b>m</b> 01'24	2.41517 AU

morning rise	8231 Sep 22 15:59	20° m 58'03		min. Earth dist.	8236 Oct 27 15:33	0° <b>8</b> 27'23	0.41832 AU
	8231 Oct 05 05:54	0∘ <del>⊽</del>			8236 Oct 29 05:13	30° <b>₹</b> Υ	
	8231 Nov 17 14:42	0°M₊		direct	8236 Nov 23 01:11	25° <b>Y</b> 58'31	
	8232 Jan 02 19:30	0° <b>∡</b> ¹			8236 Dec 17 16:26	$_{0\circ}$ 8	
	8232 Feb 22 02:45	0°ರ		asc. node	8237 Feb 01 05:52	22° <b>8</b> 03'10	
	8232 Apr 23 19:59	0° <b>≈</b>			8237 Feb 13 22:07	$\Pi$ $^{\circ}0$	
desc. node	8232 May 25 21:14	8° <b>≈</b> 43'31			8237 Mar 29 18:56	0°€	
retrograde	8232 Jun 07 13:44	9° <b>≈</b> 38'57			8237 May 10 20:31	$0^{\circ}\Omega$	
opposition	8232 Jul 16 19:10	0° <b>≈</b> 39'40	-1°48'50		8237 Jun 22 10:06	0° <b>m</b> y	
greatest brilliancy	8232 Jul 17 00:54	0° <b>≈</b> 34'07	-1.4m		8237 Aug 05 08:05	0ಂ <b>ರಾ</b>	
	8232 Jul 18 12:00	30°Ŗ₹			8237 Sep 19 18:30	0° <b>M</b>	
min. Earth dist.	8232 Jul 20 23:41	29° <b>る</b> 02'05	0.64973 AU	evening set	8237 Oct 25 17:05	23°M10'18	
direct	8232 Aug 27 09:00	20° <b>る</b> 36'44			8237 Nov 05 09:33	0° <b>∡</b> ¹	
	8232 Oct 09 02:32	0° <b>≈</b>			0227 D 10 14 47	220 722122	0010126
	8232 Dec 06 04:17	0° <b>∀</b> 0° <b>Υ</b>		conjunction	8237 Dec 10 14:47	22° <b>×</b> <sup>7</sup> 23'32	
	8233 Jan 20 14:43 8233 Mar 02 14:28	0° <b>8</b>		minimum elong max. Earth dist.	8237 Dec 10 15:21 8237 Dec 11 03:22	22° 🖈 24'25 22° 🖈 43'29	0°18'45 2.68033 AU
	8233 Apr 10 10:26	0°II		max. Earth dist.	8237 Dec 22 14:31	22 <b>メ</b> ・43 29 0°る	2.08033 AU
asc. node	8233 Apr 29 05:44	14° <b>Ⅱ</b> 48'09		desc. node	8238 Jan 15 12:50	0 る 15° <b>る</b> 12'14	
asc. Houc	8233 May 18 12:06	0°9		morning rise	8238 Jan 23 10:28	13 <b>3</b> 1214 20° <b>3</b> 14'07	
	8233 Jun 25 21:44	0°Ω		morning risc	8238 Feb 07 17:41	20°≈	
evening set	8233 Jul 19 06:24	17° <b>Ω</b> 50'17			8238 Mar 26 08:46	0° <b>∀</b>	
e venning see	8233 Aug 04 12:24	0°m)			8238 May 11 08:36	0° <b>Υ</b>	
	8233 Sep 14 22:41	0∘ <del>⊽</del>			8238 Jun 25 20:25	0°8	
	ī				8238 Aug 10 11:03	0°II	
conjunction	8233 Sep 18 19:21	2° <b>£</b> 43'19	1°06'26		8238 Sep 27 15:17	0ංම	
minimum elong	8233 Sep 18 18:50	2° <b>≏</b> 42'24	1°06'26	retrograde	8238 Dec 08 07:07	25°959'16	
max. Earth dist.	8233 Oct 22 09:59	25° <b>≙</b> 54'03	2.55024 AU	asc. node	8238 Dec 20 06:43	24° <b>©</b> 59'25	
	8233 Oct 28 11:53	0°M₊		min. Earth dist.	8239 Jan 03 21:46	21° <b>5</b> 37'37	0.37586 AU
morning rise	8233 Nov 11 14:50	9°M25'18		opposition	8239 Jan 08 12:45	20°519'53	1°26'47
	8233 Dec 13 04:32	0° <b>∡</b> ¹		greatest brilliancy	8239 Jan 08 05:21	20° <b>©</b> 25'05	-3.0m
	8234 Jan 30 00:54	0°ರ		direct	8239 Feb 07 00:40	15° <b>©</b> 17'12	
	8234 Mar 21 17:18	0° <b>≈</b>			8239 Mar 31 17:23	$0^{\circ}\Omega$	
desc. node	8234 Apr 12 18:23	12°≈11'50			8239 May 25 05:09	0° <b>m</b> )	
	8234 May 18 11:14	0° <b>∀</b>			8239 Jul 13 05:01	0° <b>™</b>	
retrograde	8234 Jul 20 10:46	17° <b>)</b> 12'06	4022150		8239 Aug 30 11:00	0° <b>M</b>	
opposition	8234 Aug 25 21:57	9° <b>₩</b> 24'29		. ,	8239 Oct 17 15:46	0° <b>∡</b> 7	
greatest brilliancy	8234 Aug 27 02:34	8°¥58'09	-1.8m 0.55406 AU	evening set	8239 Dec 01 10:42	28° ₹ 03'35 29° ₹ 20'23	
min. Earth dist.	8234 Sep 02 13:16 8234 Oct 03 05:06	0 K3003 30°R≈	0.55400 AU	desc. node	8239 Dec 03 11:23 8239 Dec 04 12:29	29 x・2023	
direct	8234 Oct 03 03:00 8234 Oct 04 19:00	30 k∞ 29°≈58'58		max. Earth dist.	8240 Jan 02 17:27		2.66317 AU
direct	8234 Oct 04 19:00 8234 Oct 06 09:02	0° <b>∺</b>		max. Latur dist.	0240 Jan 02 17.27	10 05400	2.00317 AC
	8234 Dec 23 17:04	0° <b>Υ</b>		conjunction	8240 Jan 15 00:13	26° <b>පි</b> 27'52	-0°22'05
	8235 Feb 06 10:17	0°8		minimum elong	8240 Jan 14 23:34	26° <b>る</b> 26'49	
asc. node	8235 Mar 17 06:08	28° <b>8</b> 52'48			8240 Jan 20 11:32	0° <b>≈</b>	
	8235 Mar 18 17:24	$\Pi$ $^{\circ}0$		morning rise	8240 Feb 28 07:01	25° <b>≈</b> 27'58	
	8235 Apr 26 17:01	0ංම		-	8240 Mar 06 02:02	0° <b>)</b> €	
	8235 Jun 04 22:17	$0^{\circ}\Omega$			8240 Apr 19 03:04	$0^{\circ}$ $\Upsilon$	
	8235 Jul 15 08:59	0° <b>m</b>			8240 May 31 15:03	$9^{\circ}$ 8	
	8235 Aug 26 14:38	0∘ <b>⊽</b>			8240 Jul 11 19:49	$\Pi^{\circ}0$	
evening set	8235 Sep 14 05:34	12° <b>≙</b> 48'09			8240 Aug 21 06:09	0ංම	
	8235 Oct 09 18:57	0°M₊			8240 Oct 01 00:17	$0^{\circ}\Omega$	
	000537 07	1.00.00.0	0050150	asc. node	8240 Nov 06 05:31	25° <b>Ω</b> 12'53	
conjunction	8235 Nov 04 00:06	16°M36'17			8240 Nov 13 13:38	0° <b>™</b>	
minimum elong	8235 Nov 04 01:20				8241 Jan 11 19:53	0° <b>亞</b>	
max. Earth dist.	8235 Nov 19 01:39 8235 Nov 24 16:16	26°11622′55 0° <b>√</b> 1	2.64234 AU	retrograde	8241 Feb 04 10:11 8241 Feb 27 03:49	3° <b>≏</b> 44'40 30°R <b>™</b>	
morning rise	8235 Nov 24 16:16 8235 Dec 20 13:18	0° <b>x</b> ¹ 16° <b>x</b> ¹32'40		min. Earth dist.	8241 Feb 27 03:49 8241 Mar 05 15:11	אַראָדען 27° אָען 49'22	0.49799 AU
morning 1150	8236 Jan 10 19:54	16 x・32 40 0°る		greatest brilliancy	8241 Mar 12 07:00	27 m/49 22 25° m/22'58	-2.1m
	8236 Feb 27 21:13	0°≈		opposition	8241 Mar 13 19:52	24° Mp 48'57	5°21'08
desc. node	8236 Feb 28 14:53	0°≈27'19		direct	8241 Apr 16 23:29	17° <b>m</b> 30'52	
	8236 Apr 16 23:45	0° <b>\</b>			8241 Jun 06 09:07	0° <b>ರ</b>	
	8236 Jun 07 12:08	0°Υ			8241 Aug 05 06:53	0°M₊	
	8236 Aug 08 07:15	0°8			8241 Sep 26 09:47	0° <b>∡</b> ¹	
retrograde	8236 Sep 18 00:47	8° <b>8</b> 34'51		desc. node	8241 Oct 20 11:02	14° <b>₹</b> 25'06	
opposition	8236 Oct 19 20:52	2° <b>8</b> 49'04	-5°43'31		8241 Nov 14 21:39	ರ°0	
greatest brilliancy	8236 Oct 21 13:23	2° <b>8</b> 18'03	-2.6m		8242 Jan 01 07:32	0° <b>≈</b>	

evening set max. Earth dist.	8242 Jan 05 18:39 8242 Jan 26 15:08 8242 Feb 15 13:53	2°≈53'41 16°≈36'02 0°¥	2.59231 AU	morning rise	8246 Aug 27 13:20 8246 Sep 01 16:43 8246 Oct 12 15:46 8246 Nov 25 01:39	26° <b>റ</b> 07'42 0° നു 0° <u>മ</u> 0° സ	
conjunction minimum elong	8242 Feb 21 02:00 8242 Feb 21 00:49 8242 Mar 30 16:58	3°¥44'58 3°¥42'57 0° <b>Y</b>		retrograde	8247 Jan 10 18:45 8247 Mar 04 06:50 8247 May 25 06:12	0°♂ 0°중 26°중47'02	
morning rise	8242 Apr 11 00:51 8242 May 10 21:57 8242 Jun 19 15:16 8242 Jul 28 11:55	8° <b>Y</b> 07'15 0° <b>∀</b> 0° <b>I</b> I 0° <b>©</b>		desc. node opposition greatest brilliancy min. Earth dist.	8247 Jun 12 11:05 8247 Jul 04 02:15 8247 Jul 04 03:42 8247 Jul 06 19:30	24°る40'56 17°る28'48 17°る27'23 16°る24'47	
asc. node	8242 Sep 05 07:56 8242 Sep 24 01:49 8242 Oct 15 06:06 8242 Nov 26 23:14	0° A 14° A 14'55 0° M 0° <u>∩</u>		direct	8247 Aug 14 16:34 8247 Oct 26 05:45 8247 Dec 16 19:54 8248 Jan 30 00:47	7°る26'21 0°≈ 0°升 0°Υ	
retrograde min, Earth dist.	8243 Jan 15 22:45 8243 Mar 17 19:03 8243 Apr 21 20:28	0°M 18°M40'23 10°M39'32	0.61654 AU	greatest brilliancy	8248 Mar 10 15:28 8248 Apr 18 07:49 8248 May 03 10:47	0° <b>В</b> 0° <b>П</b> 11° <b>П</b> 55'54	1.2m
opposition greatest brilliancy	8243 Apr 26 17:22 8243 Apr 26 00:49	8°M43'37 9°M00'03	4°08'27 -1.6m	asc. node	8248 May 15 21:30 8248 May 26 06:50	21° <b>∏</b> 46′55 0°∽	1,2111
direct	8243 May 30 14:41 8243 Jun 03 19:55 8243 Jun 08 03:05 8243 Sep 01 14:56	30°R		evening set	8248 Jun 21 04:29 8248 Jul 03 13:01 8248 Aug 11 23:02	20°\$22'51 0° <b>Ω</b> 0° <b>m</b>	
desc. node	8243 Sep 07 11:56 8243 Oct 25 14:56 8243 Dec 13 11:43	3°☎03'13 0°☎ 0°≈		conjunction minimum elong	8248 Aug 27 04:22 8248 Aug 27 02:10 8248 Sep 22 04:18	11°നു15'04 11°നു11'03 0° <b>റ</b>	0°58'44
evening set max. Earth dist.	8244 Jan 27 23:59 8244 Feb 15 20:34 8244 Feb 29 13:22 8244 Mar 10 18:22	0°₩ 13°₩00'43 22°₩40'52 0° <b>Υ</b>	2.47459 AU	max. Earth dist. morning rise	8248 Oct 08 13:47 8248 Oct 24 18:59 8248 Nov 04 13:47 8248 Dec 20 07:55	11° <b>♀</b> 31'17 22° <b>♀</b> 41'27 0° <b>™</b> 0° <b>⊀</b>	2.50070 AU
conjunction	8244 Apr 08 18:44	21° <b>Υ</b> ′19'20			8249 Feb 06 18:34 8249 Mar 31 15:21	ි ©°≅	
minimum elong	8244 Apr 08 19:47 8244 Apr 20 07:39	21° <b>Υ</b> 21'18 0° <b>႘</b>	1°04'41	desc. node	8249 Apr 29 08:43 8249 Jun 14 06:32	14°≈11'40 0° <b>米</b>	
morning rise	8244 May 29 07:36 8244 Jun 09 19:42 8244 Jul 06 12:37	0°Ⅱ 8°Ⅱ59'46 0°໑		retrograde opposition	8249 Jul 02 09:08 8249 Jul 19 09:57 8249 Aug 09 03:26	1° <b>)</b> (49'14 30° <b>R</b> ≈ 23°≈28'37	-3°31'23
greatest brilliancy asc. node	8244 Jul 07 20:32 8244 Aug 11 00:19 8244 Aug 13 18:59 8244 Sep 22 00:31	1°\$02'52 27°\$50'19 0°\$0 0°\$0	1.2m	greatest brilliancy min. Earth dist. direct	8249 Aug 09 21:26 8249 Aug 15 12:55 8249 Sep 19 00:18 8249 Nov 14 22:46	23°≈11'34 21°≈03'22 13°≈39'18 0°¥	
	8244 Nov 02 04:45 8244 Dec 16 14:49 8245 Feb 05 11:50	0°™ 0°™ 0°™			8250 Jan 04 20:43 8250 Feb 16 07:55 8250 Mar 27 18:46	0°Υ 0°Υ 1°0	
retrograde min. Earth dist. opposition greatest brilliancy	8245 Apr 20 18:30 8245 May 30 05:24 8245 May 31 07:08 8245 May 31 05:46	24° \$\tilde{\$7}01'29 14° \$\tilde{\$7}36'04 14° \$\tilde{\$7}10'25 14° \$\tilde{\$7}11'48	1°51'15	asc. node	8250 Apr 02 21:39 8250 May 05 06:12 8250 Jun 13 01:08 8250 Jul 23 01:43	4°∏45'01 0°⊊ 0°Ω 0°™p	
direct desc. node	8245 Jul 10 20:45 8245 Jul 25 12:23 8245 Sep 29 08:39 8245 Nov 21 19:35	4°♂30'17 5°♂43'10 0°♂ 0°≈	-1.5111	evening set	8250 Aug 25 09:22 8250 Sep 02 21:59 8250 Oct 16 18:40	24° m/00'12 0° Ω 0° M	
	8246 Jan 07 13:52 8246 Feb 19 12:20 8246 Mar 31 19:47	0° <b>∀</b> 0° <b>∀</b>		conjunction minimum elong max. Earth dist.	8250 Oct 18 12:11 8250 Oct 18 13:11 8250 Nov 09 01:15	1°M09'20 1°M11'00 15°M24'24	1°02'28 1°02'32 2.61262 AU
evening set	8246 Apr 09 22:15 8246 May 09 11:31	6° <b>∀</b> 58'35 0° <b>Ⅱ</b>		morning rise	8250 Dec 01 12:23 8250 Dec 06 04:39 8251 Jan 17 19:25	0°♂ 3°♂00'34 0°♂	
conjunction minimum elong behind sun begin behind sun end	8246 Jun 15 22:05 8246 Jun 15 23:08 8246 Jun 14 22:18 8246 Jun 16 23:59	29° II 36'37 29° II 38'42 28° II 49'31 0° 527'53		desc. node	8251 Mar 07 13:27 8251 Mar 17 06:09 8251 Apr 27 14:06 8251 Jun 24 11:31	0°≈ 5°≈50'08 0° <del>X</del> 0° <b>Y</b>	
asc. node	8246 Jun 16 09:54 8246 Jun 28 23:08	0°ତ 9°ତ55'48		retrograde opposition	8251 Aug 23 06:58 8251 Sep 26 03:33	16° <b>Υ</b> 07'21 9° <b>Υ</b> 27'25	
max. Earth dist.	8246 Jul 14 06:14 8246 Jul 24 12:46	21°≌58'07 0° <b>Ω</b>	2.36813 AU	greatest brilliancy min. Earth dist.	8251 Sep 27 22:23 8251 Oct 04 19:05	8° <b>Υ</b> 51'05 6° <b>Υ</b> 32'54	-2.3m 0.47192 AU

direct	8251 Nov 02 04:05	1° <b>Ƴ</b> 17'14			8257 Jan 08 02:46	0° <b>≈</b>	
	8252 Jan 16 07:02	0°8		max. Earth dist.	8257 Jan 16 13:40	5°≈29'48	2.62640 AU
asc. node	8252 Feb 18 22:56	22° <b>8</b> 30'34					
	8252 Feb 29 10:59	0° <b>I</b> I		conjunction	8257 Feb 05 14:31	18° <b>≈</b> 41'42	-0°44'54
	8252 Apr 10 05:06	0ංම		minimum elong	8257 Feb 05 13:22	18° <b>≈</b> 39'46	0°44'47
	8252 May 20 15:23	$0^{\circ}\Omega$			8257 Feb 22 11:20	0° <b>∀</b>	
	8252 Jul 01 01:42	0° <b>m</b>		morning rise	8257 Mar 24 00:25	20° <b>)</b> 15′50	
	8252 Aug 13 03:22	0∘ <b>⊽</b>			8257 Apr 06 21:44	$0^{\circ}\mathbf{\Upsilon}$	
	8252 Sep 26 23:03	0°M₊			8257 May 18 13:05	$9^{\circ}$ 8	
evening set	8252 Oct 10 05:37	8°M41'17			8257 Jun 27 17:31	$\Pi^{\circ}0$	
	8252 Nov 12 05:19	0° <b>∡</b> ¹			8257 Aug 06 00:54	0ංම	
		_			8257 Sep 14 07:49	$0$ $^{\circ}\Omega$	
conjunction	8252 Nov 26 12:28	9° <b>∡</b> 108'36	0°33'26	asc. node	8257 Oct 10 20:57	19° <b>Ω</b> 48'26	
minimum elong	8252 Nov 26 13:26	9°×10'08	0°33'35		8257 Oct 24 22:16	0° <b>m</b>	
max. Earth dist.	8252 Dec 02 12:37	12° <b>₹</b> 58'17	2.67214 AU		8257 Dec 08 10:19	0° <b>№</b> 0° <b>亞</b>	
morning rise	8252 Dec 29 08:02 8253 Jan 10 00:04	0°る 7°る23'33		retrograde	8258 Feb 08 22:33 8258 Mar 02 22:22	3°M06'15	
desc. node	8253 Feb 01 03:14	7 <b>3</b> 23 33		renograde	8258 Mar 23 17:23	30°R <b>≏</b>	
desc. node	8253 Feb 14 17:12	0°≈		min. Earth dist.	8258 Apr 04 20:25	25° <b>£</b> 49'03	0.57603 AU
	8253 Apr 03 01:20	0° <b>₩</b>		greatest brilliancy	8258 Apr 10 02:54	23° <b>⊆</b> 45'37	-1.7m
	8253 May 20 10:29	$0^{\circ}\Upsilon$		opposition	8258 Apr 11 04:08	23° <b>Ω</b> 20'54	4°50'16
	8253 Jul 07 12:56	0°8		direct	8258 May 17 21:40	15° <b>≙</b> 00'00	
	8253 Aug 28 01:45	0°II			8258 Jul 14 10:38	0° <b>M</b>	
retrograde	8253 Nov 06 22:15	23° <b>Ⅱ</b> 45'16			8258 Sep 11 20:51	0° <b>∡</b> ¹	
opposition	8253 Dec 06 19:01	18° <b>Ⅱ</b> 49'55	-2°18'03	desc. node	8258 Sep 24 00:26	6° <b>∡</b> 749'47	
greatest brilliancy	8253 Dec 07 00:15	18° <b>Ⅱ</b> 46′26	-3.0m		8258 Nov 02 11:51	0°₹	
min. Earth dist.	8253 Dec 07 18:57	18° <b>耳</b> 34′03	0.36730 AU		8258 Dec 20 15:17	0° <b>≈</b>	
direct	8254 Jan 05 12:39	13° <b>Ⅱ</b> 50′39		evening set	8259 Jan 29 22:17	26° <b>≈</b> 33'35	
asc. node	8254 Jan 05 22:11	13° <b>Ⅱ</b> 50'43			8259 Feb 03 23:55	0° <b>∺</b>	
	8254 Feb 28 16:51	0ංම ව		max. Earth dist.	8259 Feb 14 10:41	7° <b>)</b> €09'43	2.52522 AU
	8254 Apr 20 23:03	0° <b>N</b>			8259 Mar 18 20:50	$0^{\circ}$ Y	
	8254 Jun 06 08:51 8254 Jul 22 12:05	0 <b>்⊽</b> 0∘∭		conjunction	8259 Mar 20 10:22	1° <b>Ƴ</b> 07'28	1006!49
	8254 Sep 07 07:31	0° <b>m</b>		minimum elong	8259 Mar 20 10:04	1° <b>Υ</b> 0/28	
	8254 Oct 24 17:59	0° <b>⊼</b> ¹		minimum clong	8259 Apr 28 15:32	0°8	1 00 48
evening set	8254 Nov 17 11:33	14° <b>×</b> 757'36		morning rise	8259 May 15 00:04	12° <b>8</b> 23'21	
<i>Ş</i>	8254 Dec 11 06:41	0°ප			8259 Jun 06 21:24	0°II	
desc. node	8254 Dec 20 01:00	5° <b>そ</b> 33'33			8259 Jul 15 07:32	0ಂತ	
max. Earth dist.	8254 Dec 24 19:07	8° <b>る</b> 34'57	2.67658 AU		8259 Aug 22 17:47	$0^{\circ}\Omega$	
				asc. node	8259 Aug 28 17:28	4° <b>Ω</b> 37'43	
conjunction	8255 Jan 01 04:56	13° <b>る</b> 18'04	-0°06'26		8259 Oct 01 02:56	0° <b>т</b> р	
minimum elong	8255 Jan 01 04:44	13° <b>る</b> 17'44	0°06'15		8259 Nov 11 14:40	0ಂ <b>ರಾ</b>	
behind sun begin	8254 Dec 31 11:33	12° <b>ろ</b> 50'21			8259 Dec 27 01:34	0° <b>M</b> ₅	
behind sun end	8255 Jan 01 21:55	13° <b>る</b> 45'07			8260 Feb 21 08:13	0° <b>∡</b> 7	
	8255 Jan 27 05:56	0°≈		retrograde	8260 Apr 07 12:27	11°× <b>7</b> 03'44	0.66025 ATT
morning rise	8255 Feb 13 21:34	11° <b>≈</b> 26'15 0° <b>米</b>		min. Earth dist.	8260 May 15 09:16 8260 May 17 23:01	2° <b>尽</b> 07'53 1° <b>尽</b> 06'15	0.66025 AU 2°47'33
	8255 Mar 14 04:07 8255 Apr 27 19:31	0° <b>Υ</b>		opposition greatest brilliancy	8260 May 17 23.01 8260 May 17 17:16	1°×10013	
	8255 Jun 10 03:58	0°8		greatest orimancy	8260 May 20 17:42	30°RM	-1.4111
	8255 Jul 22 10:20	$0^{\circ}\Pi$		direct	8260 Jun 26 17:17	21°M42'07	
	8255 Sep 02 05:36	0°ಅ			8260 Aug 07 00:51	0° <b>₹</b>	
	8255 Oct 15 06:24	$0^{\circ}\Omega$		desc. node	8260 Aug 11 01:12	1° <b>≯</b> 27'33	
asc. node	8255 Nov 23 22:10	24° <b>Ω</b> 17'07			8260 Oct 09 22:02	0°ರ	
	8255 Dec 05 07:14	0° <b>m</b>			8260 Nov 29 21:36	0° <b>≈</b>	
retrograde	8256 Jan 16 10:48	11° <b>m</b> 05'40			8261 Jan 15 00:37	0° <b>∀</b>	
min. Earth dist.	8256 Feb 12 10:36	6° Mp 05′06	0.44304 AU		8261 Feb 26 20:10	$0^{\circ}\Upsilon$	
greatest brilliancy	8256 Feb 19 09:34	3° <b>m</b> 43'47		evening set	8261 Mar 17 14:44	13° <b>Y</b> 45'44	
opposition	8256 Feb 20 22:12	3° m 12'32	4°53'15	max. Earth dist.	8261 Apr 08 07:21	0° <b>8</b> 04'13	2.39296 AU
	8256 Mar 02 02:00	30°R€			8261 Apr 08 05:08	0°8	
direct	8256 Mar 24 01:03	26° <b>Ω</b> 47'42			8261 May 16 23:15	$\Pi$ $^{\circ}0$	
	8256 Apr 16 05:55	0° <b>m</b> )			02/11/4 17 14/02	00 <b>T</b> 2010*	0020144
	8256 Jun 23 12:22	0∘ <b>m</b> 0∘ <b>⊽</b>		conjunction	8261 May 17 14:02	0° <b>Ⅱ</b> 29'01	
	8256 Aug 15 03:50 8256 Oct 04 05:59	0° <b>M</b> 0° <b>⊀</b>		minimum elong	8261 May 17 17:03 8261 Jun 23 23:23	0°Ⅲ34'55 0°ᢒ	0 3931
desc. node	8256 Nov 06 00:06	0°×¹ 20°×¹05'06		asc. node	8261 Jul 23 23:23 8261 Jul 15 14:57	17° <b>5</b> 05'15	
acce. node	8256 Nov 21 22:43	0°중		morning rise	8261 Jul 28 12:06	27°911'03	
evening set	8256 Dec 22 10:00	19° <b>ರ</b> 15'16			8261 Aug 01 02:42	0°Ω	
<i>5</i>							

	8261 Sep 09 05:59	0° <b>m</b> )			8266 Dec 13 19:59	$0^{\circ}\mathbf{Y}$	
	8261 Oct 20 04:55	0∘ <b>⊽</b>			8267 Jan 30 09:46	0°8	
	8261 Dec 02 19:25	0°M		asc. node	8267 Mar 07 14:11	26° <b>8</b> 16'24	
	8262 Jan 19 10:06	0° <b>∡</b> ¹			8267 Mar 12 13:19	0°Ⅲ	
	8262 Mar 17 08:01	5°0			8267 Apr 20 23:22	0ಂಣ	
retrograde	8262 May 11 14:45	14° <b>る</b> 13'53			8267 May 30 12:11	$0^{\circ}\Omega$	
opposition	8262 Jun 20 20:34	4° <b>る</b> 40'21	0°16'56		8267 Jul 10 05:07	O° Mp	
greatest brilliancy	8262 Jun 20 21:02	4° <b>る</b> 39'53	-1.3m		8267 Aug 21 16:18	0 <b>்⊽</b>	
min. Earth dist.	8262 Jun 22 02:09	4° <b>る</b> 11'05	0.68009 AU	evening set	8267 Sep 24 12:47	23° <b>₽</b> 00'20	
desc. node	8262 Jun 29 01:11	1° <b>る</b> 29'12			8267 Oct 05 00:48	0°M	
	8262 Jul 03 04:13	30°R <i>≯</i>					
direct	8262 Aug 01 05:15	24° <b>∡</b> ⁴43'32		conjunction	8267 Nov 12 19:51	25°M22'02	0°46'45
	8262 Sep 02 00:47	0°る		minimum elong	8267 Nov 12 21:04	25°M23'59	0°46'53
	8262 Nov 06 14:22	0° <b>≈</b>			8267 Nov 20 00:22	0° <b>∡</b> 7	
	8262 Dec 25 11:21	0° <b>Υ</b> 0° <b>Υ</b>		max. Earth dist.	8267 Nov 24 11:35	2° <b>x</b> 52'17	2.65543 AU
	8263 Feb 06 23:56			morning rise	8267 Dec 28 11:04	24° <b>メ</b> 31'43 0°る	
	8263 Mar 19 10:14	0°Ⅱ 8°0		desc. node	8268 Jan 06 02:38 8268 Feb 18 17:44	0°る 27° <b>る</b> 25'06	
evening set	8263 Apr 27 01:17 8263 May 23 06:46	0 <u>П</u> 20° <b>П</b> 44'42		desc. node	8268 Feb 22 20:50	27 <b>3</b> 23 00 0° <b>≈</b>	
asc. node	8263 Jun 02 14:47	28° <b>I</b> I56'06			8268 Apr 11 05:03	0° <b>∺</b>	
asc. node	8263 Jun 02 14:47 8263 Jun 03 23:03	0°95			8268 May 30 18:59	0°Υ	
	8263 Jul 12 02:51	$0^{\circ}\Omega$			8268 Jul 23 11:13	0°8	
		* 00		retrograde	8268 Oct 05 03:50	23° <b>8</b> 43'00	
conjunction	8263 Aug 01 21:51	16° <b>Ω</b> 01'44	0°39'59	opposition	8268 Nov 04 20:00	18° <b>8</b> 25'03	-5°03'00
minimum elong	8263 Aug 01 18:42	15° <b>Ω</b> 55'42	0°39'50	greatest brilliancy	8268 Nov 06 03:11	18° <b>8</b> 02'41	-2.8m
	8263 Aug 20 09:08	0° <b>™</b>		min. Earth dist.	8268 Nov 11 00:45	16° <b>8</b> 38'43	0.39335 AU
max. Earth dist.	8263 Sep 21 14:01	23°M 39'46	2.44589 AU	direct	8268 Dec 07 07:23	12° <b>8</b> 22'15	
	8263 Sep 30 10:23	0∘ <b>⊽</b>		asc. node	8269 Jan 22 16:02	25° <b>8</b> 14'19	
morning rise	8263 Oct 05 12:42	3° <b>≏</b> 37'06			8269 Jan 31 22:11	$\Pi^{\circ}0$	
	8263 Nov 12 17:50	$0^{\circ}$ M			8269 Mar 21 08:01	$0$ $\circ$ $\odot$	
	8263 Dec 28 16:33	0° <b>∡</b>			8269 May 04 00:34	$0^{\circ}\Omega$	
	8264 Feb 16 02:07	6°0			8269 Jun 16 11:48	0° m/y	
	8264 Apr 12 23:46	0°≈			8269 Jul 30 23:50	0∘ <b>亚</b>	
desc. node	8264 May 15 23:40	12°≈43'03			8269 Sep 14 19:30 8269 Oct 31 16:20	0° <b>M</b> 0° <i>₹</i>	
retrograde opposition	8264 Jun 16 05:31 8264 Jul 24 23:40	17°≈46'33 8°≈59'41	2026122	evening set	8269 Nov 03 04:25	0° <b>x</b> ¹ 1° <b>x</b> ¹35'28	
greatest brilliancy	8264 Jul 25 09:07	8°≈50'35	-1.5m	max. Earth dist.	8269 Dec 16 04:16	28° <b>х</b> 51'34	2.68140 AU
min. Earth dist.	8264 Jul 29 23:24	7°≈04'14	0.63404 AU	max. Dartii dist.	8269 Dec 17 23:24	0°る	2.00140710
min. Bartii dist.	8264 Aug 22 23:25	30°Rる	0.03 10 1710		0207 BCC 17 23.21	<b>° °</b>	
direct	8264 Sep 04 09:13	28° <b>る</b> 59'14		conjunction	8269 Dec 18 12:45	0° <b>る</b> 21'10	0°09'29
	8264 Sep 17 06:33	0° <b>≈</b>		minimum elong	8269 Dec 18 13:03	0° <b>る</b> 21'37	0°09'39
	8264 Nov 29 01:01	0° <b>)</b> €		behind sun begin	8269 Dec 17 22:05	29° <b>₰</b> 57'54	
	8265 Jan 14 19:02	$0^{\circ}$ Y		behind sun end	8269 Dec 19 04:01	0° <b>る</b> 45'21	
	8265 Feb 25 05:03	$9^{\circ}$ 8		desc. node	8270 Jan 05 15:04	11° <b>る</b> 51'10	
	8265 Apr 05 05:24	$\Pi$ °0		morning rise	8270 Jan 31 03:53	28° <b>る</b> 09'30	
asc. node	8265 Apr 19 13:40	11° <b>∏</b> 14'39			8270 Feb 03 00:48	0° <b>≈</b>	
	8265 May 13 09:56	0°©			8270 Mar 21 09:09	0° <b>∀</b>	
	8265 Jun 20 22:11	0° <b>N</b>			8270 May 05 19:38	$^{\circ \gamma}$	
avanirt	8265 Jul 30 15:21	0°Mp 2°m⊳12'02			8270 Jun 19 09:23	0°B 0°B	
evening set	8265 Aug 02 14:52	2°Mp12'02 0°Ω			8270 Aug 02 10:02	0₀© 0∘П	
	8265 Sep 10 04:04	0 ==			8270 Sep 16 01:57 8270 Nov 05 17:10	0ა <b>V</b>	
conjunction	8265 Sep 30 04:54	13° <b>≏</b> 57'51	1°06'50	asc. node	8270 Dec 10 15:55	12° <b>Ω</b> 31'43	
minimum elong	8265 Sep 30 05:08	13° <b>⊆</b> 58'15		retrograde	8270 Dec 23 15:13	13° <b>Ω</b> 43'45	
minimum ciong	8265 Oct 23 18:38	0°M	1 00 01	min. Earth dist.	8271 Jan 18 17:03	9° <b>Ω</b> 19'34	0.39450 AU
max. Earth dist.	8265 Oct 29 06:06		2.57458 AU	opposition	8271 Jan 25 11:18	7° <b>Ω</b> 17'04	3°09'31
morning rise	8265 Nov 20 21:19	18°M37'31		greatest brilliancy	8271 Jan 24 14:09	7° <b>Ω</b> 33'07	
Č	8265 Dec 08 10:19	0° <b>∡</b> ″		direct	8271 Feb 24 15:49	1° <b>Ω</b> 49'17	
	8266 Jan 24 23:54	ರ°0			8271 May 15 16:02	0° <b>m</b> p	
	8266 Mar 15 19:04	0° <b>≈</b>			8271 Jul 06 13:48	0∘ <b>⊽</b>	
desc. node	8266 Apr 02 20:46	10° <b>≈</b> 24′05			8271 Aug 24 23:06	$0^{\circ}$ M.	
	8266 May 09 03:04	0° <b>∀</b>			8271 Oct 12 17:11	0° <b>∡</b> ″	
retrograde	8266 Jul 31 17:52	27° <b>)</b> 13′32		desc. node	8271 Nov 23 13:21	26° <b>х</b> 03′09	
opposition	8266 Sep 05 08:27	19° <b>¥</b> 47'26			8271 Nov 29 20:07	0°ಕ	
greatest brilliancy	8266 Sep 06 19:13	19° <b>∺</b> 16′07		evening set	8271 Dec 09 09:51	6° <b>る</b> 02'20	
min. Earth dist.	8266 Sep 13 12:38		0.52611 AU	max. Earth dist.	8272 Jan 08 01:22		2.65241 AU
direct	8266 Oct 14 09:33	10° <b>)</b> 42′12			8272 Jan 15 20:53	0° <b>≈</b>	

conjunction	8272 Jan 23 01:27	4° <b>≈</b> 40'04	-0°30'56	retrograde	8277 Apr 28 07:55	1° <b>る</b> 43'19	
minimum elong	8272 Jan 23 00:34	4° <b>≈</b> 38'39			8277 May 14 13:03	30°R. <b>✓</b>	
_	8272 Mar 01 09:27	0° <b>)</b> €		opposition	8277 Jun 07 18:57	21° <b>₹</b> 57'26	1°17'05
morning rise	8272 Mar 07 21:29	4° <b>)</b> 22'43		greatest brilliancy	8277 Jun 07 18:58	21° <b>₹</b> 57'26	-1.3m
	8272 Apr 14 05:05	$0^{\circ}\mathbf{\Upsilon}$		min. Earth dist.	8277 Jun 07 12:40	22° <b>х</b> 03′42	0.68027 AU
	8272 May 26 09:15	$9^{\circ}$ 8		desc. node	8277 Jul 15 15:21	12° <b>∡</b> 13'45	
	8272 Jul 06 04:06	$\Pi^{\circ}0$		direct	8277 Jul 18 16:32	12° <b>≯</b> 10′18	
	8272 Aug 15 02:42	$0$ $\circ$ $\odot$			8277 Sep 21 01:25	0°ರ	
	8272 Sep 24 03:58	$0^{\circ}\Omega$			8277 Nov 16 02:37	0°≈	
asc. node	8272 Oct 27 13:20	24° <b>Ω</b> 04'32			8278 Jan 02 12:22	0° <b>)</b> €	
	8272 Nov 05 03:29	0° <b>m</b> )			8278 Feb 14 15:28	0° <b>Υ</b>	
	8272 Dec 24 10:12	0∘ <b>ত</b>			8278 Mar 26 23:58	0°8	
retrograde	8273 Feb 14 14:13	15° <b>≙</b> 27'01		evening set	8278 Apr 24 16:40	22° <b>8</b> 11'43	
min. Earth dist.	8273 Mar 17 04:07	9° <b>≙</b> 00'23	0.52759 AU		8278 May 04 15:16	0°Щ	
greatest brilliancy	8273 Mar 23 09:14	6° <b>£</b> 39'34			8278 Jun 11 13:03	0.20 0.20	
opposition	8273 Mar 24 18:45	6° <b>£</b> 07'42	5°17'34	asc. node	8278 Jun 19 06:20	6° <b>5</b> 06'44	
11.	8273 Apr 13 11:47	30°R Mp			0270 1 1 02 06 51	170610112	0010107
direct	8273 Apr 28 21:57	28° m/24'22		conjunction	8278 Jul 03 06:51	17°5010'43	0°10'07
	8273 May 15 05:40	0∘ <b>亚</b>		minimum elong	8278 Jul 03 05:44	17°508'32	0°09'55
	8273 Jul 28 21:26	0° <b>™</b> 0° <i>⊼</i> ¹		behind sun begin	8278 Jul 02 05:18	16°920'27	
JJ.	8273 Sep 20 19:54			behind sun end	8278 Jul 04 06:11	17° <b>©</b> 56'36 0° <b>Ω</b>	
desc. node	8273 Oct 10 13:50 8273 Nov 09 23:12	11° <b>オ</b> 37'19 0°る		max. Earth dist.	8278 Jul 19 15:46		2.39131 AU
	8273 Dec 27 14:58	0°≈		max. Earm dist.	8278 Aug 23 14:01 8278 Aug 27 19:48	20 <b>32</b> 4827	2.39131 AU
evening set	8274 Jan 14 07:01	0 ≈ 11°≈30'50		morning rise	8278 Sep 11 20:06	עווי ט 11°10'31	
max. Earth dist.	8274 Feb 02 02:50		2.57044 AU	morning risc	8278 Oct 07 18:34	0° <b>ت</b>	
max. Latur dist.	8274 Feb 10 22:32	0° <b>∺</b>	2.37044 AO		8278 Nov 20 02:07	0° <b>m</b>	
	0274100 10 22.32	υ <b>/</b> (			8279 Jan 05 09:34	0° <b>⊼</b> 7	
conjunction	8274 Mar 02 11:54	13° <b>¥</b> 26′27	-1°01'49		8279 Feb 25 08:43	°ਨ ਨ	
minimum elong	8274 Mar 02 10:52	13° <b>)</b> 24'41			8279 May 03 21:47	0° <b>≈</b>	
	8274 Mar 25 23:49	0°Υ		retrograde	8279 Jun 02 08:19	4° <b>≈</b> 33'49	
morning rise	8274 Apr 22 08:24	19° <b>Ƴ</b> 50'23		desc. node	8279 Jun 02 13:53	4° <b>≈</b> 33'47	
C	8274 May 06 01:32	0°B			8279 Jun 29 08:20	30°Rる	
	8274 Jun 14 14:46	$\Pi^{\circ}$		opposition	8279 Jul 11 20:25	25° <b>る</b> 25'35	-1°22'07
	8274 Jul 23 07:15	0ංම		greatest brilliancy	8279 Jul 11 23:58	25° <b>る</b> 22'07	-1.4m
	8274 Aug 30 22:51	$0^{\circ}\Omega$		min. Earth dist.	8279 Jul 15 08:49	24° <b>る</b> 03'08	0.66007 AU
asc. node	8274 Sep 14 11:23	11° <b>Ω</b> 07'38		direct	8279 Aug 22 10:45	15° <b>る</b> 22'08	
	8274 Oct 09 14:15	0° <b>m</b> )			8279 Oct 17 00:16	0° <b>≈</b>	
	8274 Nov 20 16:00	0∘ <b>⊽</b>			8279 Dec 10 18:23	0° <b>∀</b>	
	8275 Jan 07 04:20	0° <b>M</b>			8280 Jan 24 16:26	$0^{\circ}\Upsilon$	
retrograde	8275 Mar 25 21:15	27°M24'22			8280 Mar 05 13:09	$9^{\circ}$ 8	
min. Earth dist.	8275 Apr 30 23:57	19°M02'21	0.63476 AU		8280 Apr 13 07:48	$\Pi$ $^{\circ}0$	
opposition	8275 May 05 01:25	17°M25'16	3°40'24	asc. node	8280 May 06 06:50	18° <b>Ⅱ</b> 06'19	
greatest brilliancy	8275 May 04 13:14	17°M37'25	-1.5m		8280 May 21 08:00	0°€	
direct	8275 Jun 12 19:22	8°M21'26			8280 Jun 28 15:23	$0^{\circ}\Omega$	
	8275 Aug 24 16:39	0° <b>∡</b> ¹		evening set	8280 Jul 07 09:19	6° <b>Ω</b> 44'46	
desc. node	8275 Aug 28 15:11	1° <b>₹</b> 53′29			8280 Aug 07 02:43	0° Ту	
	8275 Oct 20 00:08	5°0		aamin	9290 C 00 00 50	240 m. 1011 c	1904122
	8275 Dec 08 12:33	0° <b>≈</b>		conjunction	8280 Sep 09 09:59		1°04'22
avaning sat	8276 Jan 23 05:59 8276 Feb 26 08:06	0° <b>∺</b> 23° <b>∺</b> 44'59		minimum elong	8280 Sep 09 08:46 8280 Sep 17 09:18	24° Mp 17′05 0° <u> </u>	1°04'22
evening set	8276 Feb 26 08:06 8276 Mar 06 01:01	23° <b>π</b> 44′59 0° <b>Υ</b>		max. Earth dist.	8280 Sep 1 / 09:18 8280 Oct 16 23:27		2.52892 AU
max. Earth dist.	8276 Mar 11 14:02	4° <b>Υ</b> 01'00	2.44490 AU	max. Earm dist.	8280 Oct 10 23.27 8280 Oct 30 19:21	20 <b>=</b> 30 37 0° <b>M</b>	2.32892 AU
man. Barui UISt.	8276 Apr 15 13:11	0° <b>8</b>	2.77790 AU	morning rise	8280 Nov 04 04:38	2°M56'55	
	8270 Apr 13 13.11	0.0		morning risc	8280 Dec 15 11:01	2 11 <b>0</b> 3033	
conjunction	8276 Apr 21 18:07	4° <b>8</b> 43'04	-0°59'01		8280 Dec 13 11:01 8281 Feb 01 11:24	0°る	
minimum elong	8276 Apr 21 10:07 8276 Apr 21 20:08	4° <b>8</b> 46'54			8281 Mar 24 21:10	0°≈	
	8276 May 24 11:17	0°Ⅱ	00	desc. node	8281 Apr 19 11:26	13° <b>≈</b> 38'14	
morning rise	8276 Jun 26 18:50	26° <b>Ⅱ</b> 11'48			8281 May 25 07:40	0° <b>∀</b>	
<i>5</i>	8276 Jul 01 14:33	0°9		retrograde	8281 Jul 12 08:56	10° <b>)</b> 51'43	
asc. node	8276 Aug 01 08:42	24°9511'10		opposition	8281 Aug 18 10:36	2° <b>)</b> (48'21	-4°07'52
	8276 Aug 08 19:34	0°N		greatest brilliancy	8281 Aug 19 10:24	2° <b>H</b> 26'07	
	8276 Sep 16 23:27	0° m/y		2	8281 Aug 25 23:10	30° <b>R</b> ≈	
	8276 Oct 28 00:06	0∘ <u>v</u>		min. Earth dist.	8281 Aug 25 12:39		0.57511 AU
	8276 Dec 10 23:41	0°M₊		direct	8281 Sep 27 19:10	23° <b>≈</b> 10′19	
	8277 Jan 29 04:20	0° <b>∡</b> ¹			8281 Nov 01 04:24	0° <b>)</b> €	
	8277 Apr 11 02:49	ರ°0			8281 Dec 28 15:43	$0^{\circ}$ Y	

	8282 Feb 10 06:41	0° <b>႘</b>		behind sun end	8287 Jan 09 06:16	21° <b>る</b> 24'36	
	8282 Mar 22 04:19	0°II		oomina san ona	8287 Jan 22 14:33	0°≈	
asc. node	8282 Mar 24 07:36	1° <b>Ⅱ</b> 38'39		morning rise	8287 Feb 22 00:45	19° <b>≈</b> 50'31	
	8282 Apr 29 21:46	0°©		Č	8287 Mar 09 08:58	0° <b>)</b> €	
	8282 Jun 07 21:24	$0^{\circ}\Omega$			8287 Apr 22 16:47	$0^{\circ}$ Y	
	8282 Jul 18 02:07	0° <b>m</b> )			8287 Jun 04 14:04	0°8	
	8282 Aug 29 01:58	0∘ <b>亚</b>			8287 Jul 16 05:40	$\Pi^{\circ}0$	
evening set	8282 Sep 05 22:49	5° <b>≏</b> 28'02			8287 Aug 26 04:36	$0$ $\circ$	
	8282 Oct 12 01:25	0°M₊			8287 Oct 06 16:47	$0^{\circ}\Omega$	
				asc. node	8287 Nov 14 07:30	25° <b>Ω</b> 51'45	
conjunction	8282 Oct 28 02:18	10°MJ38'01	0°57'41		8287 Nov 21 02:28	0° <b>™</b>	
minimum elong	8282 Oct 28 03:30	10°M39'59	0°57'47	retrograde	8288 Jan 28 03:55	24° <b>m</b> 51'17	
max. Earth dist.	8282 Nov 14 22:21	22°M18'03	2.63004 AU	min. Earth dist.	8288 Feb 25 07:09	19° <b>Tp</b> 20'53	0.47329 AU
	8282 Nov 26 19:54	0° <b>∡</b>		greatest brilliancy	8288 Mar 03 04:03	16° Mp 54'26	-2.3m
morning rise	8282 Dec 14 12:02	11° <b>₹</b> 19'53		opposition	8288 Mar 04 18:09	16° Mp 20'17	5°16'29
	8283 Jan 12 23:57	0°る 0°≈		direct	8288 Apr 07 01:05	9° <b>™</b> 24'52 0° <b>₽</b>	
desc. node	8283 Mar 02 07:23 8283 Mar 07 07:56	0 ≈ 3°≈04'37			8288 Jun 13 20:49 8288 Aug 08 20:14	0°M	
desc. node	8283 Apr 21 02:47	3 ≈0437 0° <b>∺</b>			8288 Sep 28 23:58	0° <b>⊼</b> 1	
	8283 Apr 21 02.47 8283 Jun 13 15:12	0°Υ		desc. node	8288 Oct 27 03:05	17° <b>∡</b> 102'24	
retrograde	8283 Sep 06 17:28	28° <b>Y</b> 44'56		dese. Hode	8288 Nov 17 03:26	0°る	
opposition	8283 Oct 09 12:16	22° <b>Υ</b> 34'33	-5°52'48	evening set	8288 Dec 30 13:07	27° <b>る</b> 27'30	
greatest brilliancy	8283 Oct 11 07:51	21° <b>Υ</b> 59'29	-2.4m		8289 Jan 03 11:32	0° <b>≈</b>	
min. Earth dist.	8283 Oct 17 22:54	19° <b>Ƴ</b> 53'02	0.44156 AU	max. Earth dist.	8289 Jan 22 07:33	12° <b>≈</b> 17'41	2.60848 AU
direct	8283 Nov 14 01:27	15° <b>Y</b> 05'58					
	8284 Jan 03 13:48	$8^{\circ}$ 0		conjunction	8289 Feb 14 06:47	27° <b>≈</b> 36'15	-0°52'04
asc. node	8284 Feb 09 07:37	21° <b>8</b> 57'15		minimum elong	8289 Feb 14 05:34	27° <b>≈</b> 34'13	0°51'57
	8284 Feb 21 06:20	$\Pi^{\circ}0$			8289 Feb 17 19:53	0° <b>∀</b>	
	8284 Apr 03 09:52	$0$ $\circ$ $\odot$		morning rise	8289 Apr 02 23:14	0° <b>Ƴ</b> 35'44	
	8284 May 14 14:28	$0^{\circ}\Omega$			8289 Apr 02 03:05	$0$ ° $\Upsilon$	
	8284 Jun 25 13:32	0° <b>m</b> ∕			8289 May 13 13:23	0°8	
	8284 Aug 08 00:30	0∘ <b>⊽</b>			8289 Jun 22 12:01	0°Щ	
	8284 Sep 22 02:53	0°M			8289 Jul 31 13:13	0°©	
evening set	8284 Oct 19 04:31	17°M34'22		1	8289 Sep 08 13:18	0° <b>Ω</b>	
	8284 Nov 07 13:04	0° <b>∡</b> 7		asc. node	8289 Oct 01 03:48	17° <b>Ω</b> 04'33 0° <b>m</b>	
conjunction	8284 Dec 04 15:28	17° <b>⊀</b> 16'27	0°24'53		8289 Oct 18 16:23 8289 Nov 30 21:50	0∘ <b>ʊ</b> 0 ılıı	
minimum elong	8284 Dec 04 16:13	17 × 1027	0°25'02		8290 Jan 22 12:30	0° <b>™</b>	
max. Earth dist.	8284 Dec 07 15:50		2.67771 AU	retrograde	8290 Mar 11 13:23	12°M39'34	
man zam usu	8284 Dec 24 16:28	0°る	2.07771110	min. Earth dist.	8290 Apr 14 16:37	4°M57'14	0.59959 AU
morning rise	8285 Jan 17 16:46	15° <b>る</b> 14'13		greatest brilliancy	8290 Apr 19 08:56	3°M06'25	-1.6m
desc. node	8285 Jan 22 05:08	18° <b>ප</b> 06'17		opposition	8290 Apr 20 05:13	2°M46'21	4°27'31
	8285 Feb 09 22:10	0° <b>≈</b>		11	8290 Apr 27 11:34	30° <b>₹</b> Ω	
	8285 Mar 28 20:31	0° <b>)</b> €		direct	8290 May 27 17:23	24° <b>≏</b> 08'23	
	8285 May 14 09:51	$0^{\circ}\mathbf{\Upsilon}$			8290 Jun 30 08:13	$0^{\circ}$ M	
	8285 Jun 29 21:19	$9^{\circ}$ 8			8290 Sep 05 07:22	0°⊀	
	8285 Aug 16 08:26	$\Pi^{\circ}0$		desc. node	8290 Sep 14 03:56	4° <b>∡</b> °46'39	
	8285 Oct 09 08:32	0ංම			8290 Oct 28 05:37	0°る	
retrograde	8285 Nov 25 02:41	12° <b>©</b> 19'40			8290 Dec 15 19:52	0° <b>≈</b>	
min. Earth dist.	8285 Dec 23 02:30	7°545'18	0.36753 AU		8291 Jan 30 07:57	0° <b>∀</b>	
opposition	8285 Dec 25 08:50	7°508'55		evening set	8291 Feb 08 07:48	6° <b>)</b> €09'14	2 40706 444
greatest brilliancy	8285 Dec 25 08:47	7°908'57	-3.1m	max. Earth dist.	8291 Feb 22 15:12	16°π05'56	2.49786 AU
asc. node direct	8285 Dec 27 08:00 8286 Jan 23 14:43	6° <b>©</b> 37'23 2° <b>©</b> 16'25			8291 Mar 14 04:40	0 1	
direct	8286 Apr 10 08:58	2 <b>3</b> 10 23		conjunction	8291 Mar 31 13:35	12° <b>Ƴ</b> 38'02	-1°06'39
	8286 May 30 01:45	0° <b>m</b> )		minimum elong	8291 Mar 31 13:59	12° <b>Y</b> 38'46	
	8286 Jul 16 13:31	0∘ <mark>ಹ</mark>		minimum ciong	8291 Apr 23 21:20	0°8	1 00 12
	8286 Sep 02 02:11	0° <b>M</b>		morning rise	8291 May 29 12:58	27° <b>8</b> 17'55	
	8286 Oct 19 22:03	0° <b>∡</b> 7		<i>5</i>	8291 Jun 02 00:26	0°П	
evening set	8286 Nov 25 12:03	22° <b>₹</b> 58'39			8291 Jul 10 07:37	0ಂತಾ	
	8286 Dec 06 15:01	ರ°0			8291 Aug 17 15:11	$0^{\circ}\Omega$	
desc. node	8286 Dec 10 03:30	2° <b>る</b> 13'38		asc. node	8291 Aug 19 01:49	1° <b>Ω</b> 07'13	
max. Earth dist.	8286 Dec 29 21:54	14° <b>る</b> 47'23	2.67015 AU		8291 Sep 25 21:08	0° <b>™</b>	
		_			8291 Nov 06 02:23	0∘ <b>ত</b>	
conjunction	8287 Jan 09 02:03	21° <b>る</b> 17'51			8291 Dec 20 18:57	0° <b>M</b>	
minimum elong	8287 Jan 09 01:36	21°る17'07	0°15'29	_	8292 Feb 11 02:47	0° <b>∡</b> 7	
behind sun begin	8287 Jan 08 20:55	21° <b>る</b> 09'37		retrograde	8292 Apr 15 03:49	19° <b>∡</b> '02'27	

min. Earth dist.	8292 May 23 21:48	9° <b>∡</b> 149'48	0.67029 AU	evening set	8297 Aug 15 21:29	15° <b>m</b> 25'31	
opposition	8292 May 25 15:51	9° <b>∡</b> 07'49	2°14'57	Č	8297 Sep 05 08:59	0∘ <u>⊽</u>	
greatest brilliancy	8292 May 25 12:50	9° <b>∡</b> 10'50	-1.3m		•		
	8292 Jun 26 15:33	30°RM		conjunction	8297 Oct 10 20:48	24° <b>≏</b> 28'28	1°04'58
direct	8292 Jul 04 21:14	29°M34'25		minimum elong	8297 Oct 10 21:33	24° <b>≏</b> 29'45	1°05'02
	8292 Jul 13 10:41	0° <b>∡</b>			8297 Oct 19 01:38	$0^{\circ}$ M	
desc. node	8292 Aug 01 04:32	3° <b>х</b> 29′45		max. Earth dist.	8297 Nov 04 15:42	11°ML02'36	2.59662 AU
	8292 Oct 03 04:45	5°0		morning rise	8297 Nov 29 18:28	$27^{\circ}$ M $27'20$	
	8292 Nov 24 13:48	0° <b>≈</b>			8297 Dec 03 17:03	0° <b>∡</b> ¹	
	8293 Jan 10 02:59	0° <b>)</b> €			8298 Jan 20 01:38	0°ප	
	8293 Feb 22 01:33	$0^{\circ}$ Y			8298 Mar 10 04:27	0° <b>≈</b>	
evening set	8293 Mar 30 07:37	26° <b>Y</b> 51'39		desc. node	8298 Mar 23 23:07	8° <b>≈</b> 09'56	
	8293 Apr 03 10:49	$0^{\circ}S$			8298 May 01 07:52	0° <b>∀</b>	
max. Earth dist.	8293 May 09 06:03		2.37070 AU		8298 Jul 03 22:18	0° <b>Υ</b>	
	8293 May 12 04:15	$\Pi$ °0		retrograde	8298 Aug 12 23:57	8° <b>Y</b> ′02'46	
		🗨		opposition	8298 Sep 16 16:43	1° <b>Y</b> ′00'49	
conjunction	8293 Jun 02 16:53	16° <b>Ⅱ</b> 58'56		greatest brilliancy	8298 Sep 18 08:38	0° <b>Y</b> 25'53	-2.1m
minimum elong	8293 Jun 02 19:13	17° <b>Ⅱ</b> 03'33	0°23'44		8298 Sep 19 14:08	30° <b>Ŗ</b> ₩	
_	8293 Jun 19 03:23	0°®		min. Earth dist.	8298 Sep 25 05:56	28° <b>)</b> €02'31	0.49666 AU
asc. node	8293 Jul 06 00:39	13° <b>©</b> 20'51		direct	8298 Oct 24 17:07	22° <b>)</b> 22'58	
	8293 Jul 27 05:57	0° <b>Ω</b>			8298 Nov 29 00:11	0° <b>Υ</b>	
morning rise	8293 Aug 14 19:23	14° <b>Ω</b> 22'21		1	8299 Jan 22 09:30	0°8	
	8293 Sep 04 08:32	0° <b>m</b>		asc. node	8299 Feb 26 00:29	24° <b>8</b> 11'31	
	8293 Oct 15 05:49	0∘ <b>ѿ</b>			8299 Mar 05 22:55	0° <b>Ⅱ</b>	
	8293 Nov 27 15:34	0°M 0°. <b>7</b>			8299 Apr 15 00:22	0° <b>⊙</b>	
	8294 Jan 13 14:04	0°⋜			8299 May 24 23:08	0° <b>N</b>	
ratra ara da	8294 Mar 08 08:28	0°る 21°る53'20			8299 Jul 04 23:57	0ം <b>⊽</b> 0ംൂൂ	
retrograde desc. node	8294 May 19 09:23 8294 Jun 19 03:31	21 <b>3</b> 33 20			8299 Aug 16 17:18 8299 Sep 30 06:38	0°M	
opposition	8294 Jun 28 09:49	13 <b>3</b> 3922 12° <b>る</b> 27'45	0°10'15	evening set	8299 Oct 04 05:19	2°M36'12	
greatest brilliancy	8294 Jun 28 10:18	12 <b>3</b> 2743		evening set	8299 Nov 15 08:48	2 11630 12 0° 🗷	
min. Earth dist.	8294 Jun 30 10:49		0.67577 AU		6299 NOV 13 08.48	0 🗡	
direct	8294 Aug 08 21:49	2°る27'16	0.07377 AO	conjunction	8299 Nov 21 07:38	3° <b>∡</b> ′49'07	0°39'12
uncet	8294 Oct 30 13:22	2°≈		minimum elong	8299 Nov 21 08:43	3° <b>х</b> ⁴20′51	0°39'21
	8294 Dec 19 22:19	0° <b>∀</b>		max. Earth dist.	8299 Nov 29 18:43	9°×713'58	2.66571 AU
	8295 Feb 01 21:13	0°Υ		max. Earth dist.	8300 Jan 01 10:40	0°る	2.003 / 1 110
	8295 Mar 14 10:59	0°8		morning rise	8300 Jan 05 05:49	2° <b>る</b> 24'17	
	8295 Apr 22 03:16	0°П		desc. node	8300 Feb 08 20:01	24° <b>る</b> 14'39	
asc. node	8295 May 23 23:04	25° <b>Ⅱ</b> 09'50			8300 Feb 17 23:19	0° <b>≈</b>	
	8295 May 30 01:37	0°©			8300 Apr 06 16:52	0° <b>∀</b>	
evening set	8295 Jun 09 03:07	7° <b>9</b> 57'12			8300 May 24 21:50	$0^{\circ}$ $\Upsilon$	
•	8295 Jul 07 06:12	$0^{\circ}\Omega$			8300 Jul 13 19:47	0°8	
	8295 Aug 15 13:35	0° <b>m</b>			8300 Sep 09 21:40	$\Pi^{\circ}0$	
				retrograde	8300 Oct 24 08:08	10° <b>Ⅲ</b> 33′08	
conjunction	8295 Aug 17 04:29	1° Mp 12'42	0°52'12	opposition	8300 Nov 23 08:56	5° <b>Ⅱ</b> 34'14	-3°43'38
minimum elong	8295 Aug 17 01:39	1°Mp07'24	0°52'05	greatest brilliancy	8300 Nov 24 01:05	5° <b>Ⅲ</b> 23′13	-3.0m
	8295 Sep 25 15:36	0∘ <b>⊽</b>		min. Earth dist.	8300 Nov 26 22:52	4° <b>Ⅱ</b> 35'53	0.37511 AU
max. Earth dist.	8295 Oct 02 15:22	4° <b>£</b> 57'15	2.47662 AU	direct	8300 Dec 24 03:29	0° <b>Ⅱ</b> 13'09	
morning rise	8295 Oct 17 08:44	15° <b>≙</b> 15′01		asc. node	8301 Jan 14 00:09	3° <b>Ⅱ</b> 06'45	
	8295 Nov 07 22:37	$0^{\circ}$ M			8301 Mar 11 16:53	$0$ $\circ$	
	8295 Dec 23 16:39	0° <b>∡</b>			8301 Apr 27 09:30	$0$ $\circ$ $\Omega$	
	8296 Feb 10 10:05	0°る			8301 Jun 11 05:24	0° <b>™</b>	
	8296 Apr 04 12:49	0° <b>≈</b>			8301 Jul 26 12:05	0∘ <b>⊽</b>	
desc. node	8296 May 06 01:23	14° <b>≈</b> 26′50			8301 Sep 10 19:20	0° <b>™</b>	
retrograde	8296 Jun 25 06:14	26°≈08'51		_	8301 Oct 27 22:47	0° <b>∡</b>	
opposition	8296 Aug 02 11:27	17°≈35'40		evening set	8301 Nov 12 09:34	9° <b>∡</b> 746′21	
greatest brilliancy	8296 Aug 03 01:25	17°≈22'18		70 d 17 d	8301 Dec 14 08:44	0°る	2 (5000 111
min. Earth dist.	8296 Aug 08 05:31	15°≈23'39	0.61574 AU	max. Earth dist.	8301 Dec 22 04:36	4° <b>る</b> 58'00	2.67980 AU
direct	8296 Sep 12 14:34	7°≈40'04			9201 D 27 00 10	00=14127	0000112
	8296 Nov 20 20:00	0° <b>Υ</b> 0° <b>Υ</b>		conjunction	8301 Dec 27 08:18	8°る14'27	0°00'13
	8297 Jan 08 16:11			minimum elong	8301 Dec 27 08:17	8°る14'26 7°る45'23	0°00'23
	8297 Feb 19 16:17 8297 Mar 30 22:37	0°B		behind sun begin behind sun end	8301 Dec 26 13:59 8301 Dec 28 02:34	8° <b>石</b> 43'29	
asc. node	8297 Apr 09 22:49	0°П 7°П48'32		desc. node	8301 Dec 28 02:34 8301 Dec 27 17:34	8° <b>ろ</b> 29'09	
asc. Hour	8297 Apr 09 22:49 8297 May 08 06:28	/°Щ48′32 0°95		acse. Hour	8301 Dec 27 17:34 8302 Jan 30 09:13	8° <b>6</b> 2909	
	8297 Jun 15 21:31	0°Ω		morning rise	8302 Feb 08 22:40	0 ≈ 6°≈09'53	
	8297 Juli 13 21:31 8297 Jul 25 17:36	0°Mp		morning 1150	8302 Mar 17 12:09	0° <b>∺</b>	
	527, 501 25 17.50	עייי			5502 mai 1 / 12.07	ν <i>Λ</i> (	

	9202 May 01 12:10	$0^{\circ}\mathbf{\Upsilon}$		dimont	9207 Jun 22 10:22	16°M34'13	
	8302 May 01 12:10			direct	8307 Jun 22 10:23		
	8302 Jun 14 08:51	8°0		1 1	8307 Aug 16 00:58	0° <b>⊼</b> ¹	
	8302 Jul 27 07:38	0° <b>Ⅱ</b>		desc. node	8307 Aug 19 17:42	1° <b>₹</b> 33'40	
	8302 Sep 08 02:03	0°©			8307 Oct 15 01:24	% ප	
_	8302 Oct 23 01:37	$0^{\circ}\Omega$			8307 Dec 04 10:37	0° <b>≈</b>	
asc. node	8302 Dec 01 23:39	21° <b>Ω</b> 35'45			8308 Jan 19 10:53	0° <b>∀</b>	
	8303 Jan 01 20:24	0° <b>m</b>			8308 Mar 02 07:37	0° <b>Υ</b>	
retrograde	8303 Jan 07 15:51	0° <b>т</b> р 14'44		evening set	8308 Mar 09 10:57	5° <b>Y</b> 10′53	
	8303 Jan 13 10:49	$30^{\circ}$ R $\Omega$		max. Earth dist.	8308 Mar 26 04:27		2.41547 AU
min. Earth dist.	8303 Feb 02 22:31		0.41977 AU		8308 Apr 11 18:57	$9^{\circ}$ 8	
greatest brilliancy	8303 Feb 09 16:05	23° <b>Ω</b> 24'29	-2.6m				
opposition	8303 Feb 11 00:12	22° <b>Ω</b> 58′25	4°20'41	conjunction	8308 May 06 19:01	19° <b>8</b> 12'06	-0°49'36
direct	8303 Mar 14 04:44	16° <b>Ω</b> 59'35		minimum elong	8308 May 06 21:48	19° <b>8</b> 17'30	0°49'42
	8303 May 03 13:18	O° Mp			8308 May 20 15:26	$\Pi$ $^{\circ}0$	
	8303 Jun 30 05:03	0∘ <b>ত</b>			8308 Jun 27 16:58	$0$ $\circ$ $\odot$	
	8303 Aug 20 05:11	$0^{\circ}$ M.		morning rise	8308 Jul 15 12:35	14° <b>©</b> 03'42	
	8303 Oct 08 16:05	0° <b>∡</b> 7		asc. node	8308 Jul 23 16:45	20° <b>©</b> 29'15	
desc. node	8303 Nov 14 16:33	22° <b>∡</b> 751'35			8308 Aug 04 20:31	$\mathfrak{O}^{\circ}\mathfrak{O}$	
	8303 Nov 26 02:45	0°ರ			8308 Sep 12 23:08	0° <b>m</b> ∕	
evening set	8303 Dec 18 09:04	14° <b>පි</b> 02'56			8308 Oct 23 21:10	0∘ <b>ত</b>	
	8304 Jan 12 06:04	0° <b>≈</b>			8308 Dec 06 13:04	0°M	
max. Earth dist.	8304 Jan 14 11:57	1°≈27'17	2.63913 AU		8309 Jan 23 14:14	0° <b>∡</b> ¹	
					8309 Mar 24 15:08	8°0	
conjunction	8304 Feb 01 06:10	13° <b>≈</b> 03'18	-0°39'17	retrograde	8309 May 06 22:26	9° <b>ප්</b> 23'27	
minimum elong	8304 Feb 01 05:07	13° <b>≈</b> 01'33			8309 Jun 15 14:29	30°R. <b>✓</b>	
	8304 Feb 26 17:14	0° <b>)</b> €		opposition	8309 Jun 16 06:43	29° <b>х</b> 43′54	0°42'03
morning rise	8304 Mar 17 20:38	13° <b>)</b> (41'21		greatest brilliancy	8309 Jun 16 07:17	29° <b>х</b> 43'20	-1.3m
morning rise	8304 Apr 10 08:43	0°Υ		min. Earth dist.	8309 Jun 16 19:55	29°×730'48	0.68143 AU
	8304 May 22 06:24	0° <b>8</b>		desc. node	8309 Jul 06 17:48	22° <b>x</b> 30'40'	0.00143710
	8304 Jul 01 17:37	0°II		direct	8309 Jul 27 10:45	19° <b>x</b> 51'03	
	8304 Aug 10 07:16	0ංම ග		uncer	8309 Sep 11 12:24	0° <b>る</b>	
	8304 Sep 18 20:43	0°Ω			8309 Nov 11 00:10	0°≈	
asc. node	8304 Scp 18 20:43 8304 Oct 18 22:49	22° <b>Ω</b> 11'47			8309 Dec 29 06:46	0° <b>∺</b>	
asc. Houe	8304 Oct 18 22:49 8304 Oct 29 21:16	0°m)				0°Υ	
		0∘ <b>ʊ</b>			8310 Feb 10 16:46	0° <b>8</b>	
	8304 Dec 14 15:38				8310 Mar 23 03:20	0°U	
retrograde	8305 Feb 25 02:46	26° <b>£</b> 16'36	0.55510.411	. ,	8310 Apr 30 19:10		
min. Earth dist.	8305 Mar 29 00:23	19° <b>£</b> 20'59	0.55519 AU	evening set	8310 May 11 09:47	8° <b>Ⅱ</b> 22'15	
opposition	8305 Apr 04 22:29	16° <b>£</b> 40'31	5°04'40		8310 Jun 07 16:54	0°95	
greatest brilliancy	8305 Apr 03 17:19	17° <b>Ω</b> 08'46	-1.8m	asc. node	8310 Jun 10 16:06	2° <b>©</b> 21'05	
direct	8305 May 10 23:06	8° <b>£</b> 35'25			8310 Jul 15 19:34	$0$ $\circ$ $\Omega$	
	8305 Jul 21 06:20	0° <b>M</b>				_	
	8305 Sep 15 22:30	0° <b>∡</b>		conjunction	8310 Jul 21 05:40	4°Ω12'49	0°28'10
desc. node	8305 Oct 01 16:53	9° <b>∡</b> 03'09		minimum elong	8310 Jul 21 02:56	4° <b>Ω</b> 07'32	0°27'59
	8305 Nov 05 21:54	0°₹			8310 Aug 23 23:51	0° <b>m</b>	
	8305 Dec 23 21:18	0° <b>≈</b>		max. Earth dist.	8310 Sep 12 01:55		2.42079 AU
evening set	8306 Jan 24 01:26	20° <b>≈</b> 25'29		morning rise	8310 Sep 26 16:35	24° Mp 47'59	
	8306 Feb 07 06:37	0° <b>∀</b>			8310 Oct 03 22:32	0∘ <b>⊽</b>	
max. Earth dist.	8306 Feb 10 00:02	1° <b>₩</b> 51'17	2.54626 AU		8310 Nov 16 04:17	0°M₊	
					8311 Jan 01 04:23	0° <b>∡</b> ¹	
conjunction	8306 Mar 13 09:55	23° <b>)</b> (41′11	-1°05'26		8311 Feb 20 01:26	0°る	
minimum elong	8306 Mar 13 09:14	23° <b>ℋ</b> 39'59	1°05'25		8311 Apr 20 15:24	0° <b>≈</b>	
	8306 Mar 22 06:40	$0$ ° $\Upsilon$		desc. node	8311 May 24 16:31	10° <b>≈</b> 42'48	
	8306 May 02 05:21	$9^{\circ}$ 8		retrograde	8311 Jun 11 17:50	12° <b>≈</b> 31′27	
morning rise	8306 May 05 15:44	2° <b>8</b> 34'25		opposition	8311 Jul 20 20:02	3° <b>≈</b> 34'26	-1°59'35
	8306 Jun 10 15:09	$\Pi^{\circ}0$		greatest brilliancy	8311 Jul 21 02:36	3° <b>≈</b> 28′04	-1.4m
	8306 Jul 19 04:11	$0$ $\circ$ $\odot$		min. Earth dist.	8311 Jul 25 03:39	1° <b>≈</b> 53'49	0.64687 AU
	8306 Aug 26 16:18	$0^{\circ}\Omega$			8311 Jul 30 04:03	30°Ŗる	
asc. node	8306 Sep 05 19:52	7° <b>Ω</b> 49'11		direct	8311 Aug 31 07:53	23° <b>る</b> 31'53	
	8306 Oct 05 02:59	0° <b>m</b>			8311 Oct 05 01:04	0° <b>≈</b>	
	8306 Nov 15 17:57	0∘ <u>⊽</u>			8311 Dec 05 03:09	0° <b>∀</b>	
	8306 Dec 31 18:41	0° <b>M</b>			8312 Jan 20 01:55	0° <b>Υ</b>	
	8307 Mar 02 18:22	0° <b>∡</b> 7			8312 Mar 01 06:48	0°8	
retrograde	8307 Apr 03 18:08	5° <b>х</b> 48'44			8312 Apr 09 05:12	0°II	
<u> </u>	8307 May 03 08:52	30°RM₁		asc. node	8312 Apr 27 15:25	14° <b>∏</b> 29'06	
min. Earth dist.	8307 May 10 20:21	27°ML07'37	0.64999 AU		8312 May 17 07:44	0.82 0.82	
opposition	8307 May 14 02:23	25°M49'43	3°10'12		8312 Jun 24 17:07	$0 {\circ} \Omega$	
greatest brilliancy	8307 May 14 02:23	25°M58'03		evening set	8312 Jul 23 14:27	22° <b>Ω</b> 01'22	
gy	120, 12 10.02	10000		- · - · · · · · · · · · · · · · · · · ·		000122	

	8312 Aug 03 06:42 8312 Sep 13 15:14	0° <b>™</b>		retrograde	8317 Dec 02 06:51 8317 Dec 12 17:31	0°Ω 0°Ω45'58	
				asc. node	8317 Dec 18 17:39	0° <b>£</b> 30'39	
conjunction	8312 Sep 22 12:41	6° <b>£</b> 15'45	1°06'45		8317 Dec 23 05:04	30° <b>₹</b> 5	
minimum elong	8312 Sep 22 12:22	6° <b>£</b> 15'12	1°06'47	min. Earth dist.	8318 Jan 08 05:26	26°525'06	0.37871 AU
max. Earth dist.	8312 Oct 25 08:26	28° <b>≏</b> 49'28	2.55498 AU	opposition	8318 Jan 13 07:25	24° <b>©</b> 58'13	1°53'40
	8312 Oct 27 02:17	0°M₊		greatest brilliancy	8318 Jan 12 21:00	25° <b>©</b> 05'39	-3.0m
morning rise	8312 Nov 14 21:08	12°M31'48		direct	8318 Feb 11 21:59	19° <b>9</b> 51'28	
	8312 Dec 11 16:22	0°⊀			8318 Mar 26 11:14	$0^{\circ}\Omega$	
	8313 Jan 28 09:00	0°₹			8318 May 22 17:44	0° <b>т</b> р	
	8313 Mar 19 17:15	0° <b>≈</b>			8318 Jul 11 06:35	0° <b>™</b>	
desc. node	8313 Apr 10 13:53	12°≈15'22			8318 Aug 28 17:24	0° <b>M</b>	
	8313 May 15 03:53	0° <b>∀</b>		1 1	8318 Oct 16 00:38	0° ⊀ <b>7</b>	
retrograde opposition	8313 Jul 24 00:08 8313 Aug 29 07:23	20°\( <b>22</b> '50\) 12°\( <b>38</b> '50\)	4°42'21	desc. node	8318 Dec 01 05:28 8318 Dec 02 23:11	28°♂54'15 0°る	
greatest brilliancy	8313 Aug 30 13:20	12 X 38 30 12° <del>X</del> 11'20	-4 42 21 -1.8m	evening set	8318 Dec 02 23:11 8318 Dec 04 11:25	0°る57'09	
min. Earth dist.	8313 Sep 06 00:50	9° <b>H</b> 48'59	0.54890 AU	max. Earth dist.	8319 Jan 05 03:30		2.66142 AU
direct	8313 Oct 07 23:46	3° <b>)</b> 16'40	0.54070710	max. Lartii dist.	03173411 03 03.30	21 003 00	2.00142710
ancet	8313 Dec 21 06:21	0°Υ		conjunction	8319 Jan 18 00:49	29° <b>る</b> 22'43	-0°24'42
	8314 Feb 04 17:58	0°8		minimum elong	8319 Jan 18 00:07	29° <b>る</b> 21'34	
asc. node	8314 Mar 15 15:29	28° <b>8</b> 45'13			8319 Jan 18 23:54	0° <b>≈</b>	
	8314 Mar 17 06:52	$\Pi^{\circ}$		morning rise	8319 Mar 03 09:08	28° <b>≈</b> 28'54	
	8314 Apr 25 08:33	0°ಅ		C	8319 Mar 05 15:42	0° <b>)</b>	
	8314 Jun 03 14:13	$0^{\circ}\Omega$			8319 Apr 18 17:26	$0^{\circ}\mathbf{\Upsilon}$	
	8314 Jul 14 00:24	0° <b>m</b>			8319 May 31 05:24	$9^{\circ}$ 8	
	8314 Aug 25 05:04	0∘ <b>亚</b>			8319 Jul 11 09:20	$\Pi^{\circ}0$	
evening set	8314 Sep 17 18:28	16° <b>≙</b> 10′24			8319 Aug 20 17:30	$0$ $\circ$ $\odot$	
	8314 Oct 08 08:15	0° <b>M</b> ₊			8319 Sep 30 06:40	$0^{\circ}\Omega$	
				asc. node	8319 Nov 05 15:14	25° <b>Ω</b> 36′07	
conjunction	8314 Nov 07 05:07	19°M39'23	0°51'41		8319 Nov 12 05:58	0° <b>m</b>	
minimum elong	8314 Nov 07 06:22	19°M41'25	0°51'47		8320 Jan 05 17:38	0° <b>™</b>	
max. Earth dist.	8314 Nov 21 11:17		2.64517 AU	retrograde	8320 Feb 08 22:39	7° <b>£</b> 25'37	0.50272.411
morning rise	8314 Nov 23 04:24 8314 Dec 23 13:02	0° <b>₰</b> 19° <b>₰</b> 24'45		min. Earth dist.	8320 Mar 09 10:31 8320 Mar 13 05:16	1° <b>≏</b> 23'14 30°R <b>m</b> )	0.50372 AU
morning rise	8314 Dec 23 13.02 8315 Jan 09 06:41	19 <b>メ</b> ・2443		greatest brilliancy	8320 Mar 15 03:16 8320 Mar 15 23:15	28° Mp 58'26	-2.1m
desc. node	8315 Feb 26 10:40	0°≈07'39		opposition	8320 Mar 17 11:38	28° m/24'33	
dese. Hode	8315 Feb 26 05:44	0°≈		direct	8320 Apr 20 19:18	21° mp 01'19	3 22 20
	8315 Apr 16 03:12	0° <b>)</b> €		4.1.001	8320 Jun 01 11:22	0∘ <b>ರ</b>	
	8315 Jun 06 01:52	$0^{\circ}\Upsilon$			8320 Aug 02 22:39	0°M	
	8315 Aug 03 19:03	0°8			8320 Sep 24 13:04	0°⊀	
retrograde	8315 Sep 23 16:38	12° <b>8</b> 38'40		desc. node	8320 Oct 18 05:52	14° <b>₰</b> 08'09	
opposition	8315 Oct 25 05:44	6° <b>8</b> 58'24	-5°36'10		8320 Nov 13 06:01	8°0	
greatest brilliancy	8315 Oct 26 21:06	6° <b>8</b> 28'38	-2.6m		8320 Dec 30 19:17	0° <b>≈</b>	
min. Earth dist.	8315 Nov 01 19:08		0.41322 AU	evening set	8321 Jan 08 21:03	5° <b>≈</b> 53'04	
direct	8315 Nov 28 04:03	0° <b>8</b> 16'29		max. Earth dist.	8321 Jan 29 11:35	19° <b>≈</b> 27′20	2.58847 AU
asc. node	8316 Jan 31 17:25	23° <b>8</b> 02'42			8321 Feb 14 04:17	0° <b>∀</b>	
	8316 Feb 12 04:53	0° <b>I</b> I			0221 F. L. 24, 00, 01	(0)/ 55100	0050113
	8316 Mar 27 20:39	0.ಲ		conjunction	8321 Feb 24 08:01	6° <b>¥</b> 55'08	
	8316 May 09 04:19 8316 Jun 20 20:11	0° <b>Ω</b>		minimum elong	8321 Feb 24 06:52 8321 Mar 29 09:26	6° <b>米</b> 53'11 0° <b>Υ</b>	0 360/
	8316 Aug 03 18:51	0 <b>்⊽</b> 0° மி		morning rise	8321 Mar 29 09:26 8321 Apr 14 14:23	11° <b>Υ</b> 37'46	
	8316 Sep 18 05:25	0°M		morning risc	8321 May 09 15:47	0° <b>8</b>	
evening set	8316 Oct 28 20:41	26°M10'21			8321 Jun 18 09:44	0°II	
e venning see	8316 Nov 03 20:34	0°×7			8321 Jul 27 06:07	0°©	
		• •			8321 Sep 04 00:37	$0^{\circ}\Omega$	
conjunction	8316 Dec 13 15:13	25° <b>∡</b> 16'47	0°15'57	asc. node	8321 Sep 22 13:05	14° <b>Ω</b> 07'08	
minimum elong	8316 Dec 13 15:42	25° <b>х</b> 17′33	0°16'07		8321 Oct 13 19:22	0° <b>т</b> р	
max. Earth dist.	8316 Dec 13 17:00	25° <b>х</b> 19′36	2.68090 AU		8321 Nov 25 04:43	0∘ <b>ত</b>	
	8316 Dec 21 01:46	0°ಕ			8322 Jan 13 01:27	0° <b>M</b>	
desc. node	8317 Jan 13 07:29	14°₹45'42		retrograde	8322 Mar 20 20:37	21°M44'30	
morning rise	8317 Jan 26 09:13	23° <b>る</b> 05'18		min. Earth dist.	8322 Apr 25 02:33	13°M39'38	0.62017 AU
	8317 Feb 06 05:01	0° <b>≈</b>		opposition	8322 Apr 29 20:14	11°M46'44	4°01'13
	8317 Mar 24 19:28	0° <b>∀</b>		greatest brilliancy	8322 Apr 29 04:37	12°M02'15	-1.5m
	8317 May 09 17:20	0°Υ		direct	8322 Jun 07 01:28	2°M53'47	
	8317 Jun 24 00:57	0°H 8°0		daga rada	8322 Aug 29 23:57	0°⊀ <sup>7</sup> 2°√712'15	
	8317 Aug 08 06:39 8317 Sep 24 08:55	0ಂខ 0.π		desc. node	8322 Sep 05 07:08 8322 Oct 23 17:51	3° <b>メ</b> 12'15 0° <b>る</b>	
	0317 DCP 24 00.33	v -3			0322 001 23 17.31	υ <b>Ο</b>	

	8322 Dec 11 21:36	0° <b>≈</b>		morning rise	8327 Oct 29 08:58	26° <b>≏</b> 05'34	
	8323 Jan 26 13:59	0° <b>)</b> €			8327 Nov 04 03:25	0° <b>M</b> .	
evening set	8323 Feb 19 07:34	16° <b>)</b> 23′01			8327 Dec 19 18:30	0° <b>∡</b> ¹	
max. Earth dist.	8323 Mar 05 05:24	26° <b>)</b> 14′21	2.46892 AU		8328 Feb 05 23:54	<sub>0°</sub> ප	
	8323 Mar 10 11:11	$_{0}$ $^{\circ}$ $\Upsilon$			8328 Mar 29 06:37	0° <b>≈</b>	
	0525 1141 10 11111	• •		desc. node	8328 Apr 27 04:17	14°≈40'05	
. ,.	0222 4 12 16 25	2500010122	100212.5	desc. node			
conjunction	8323 Apr 13 16:35	25° <b>Y</b> 10′32			8328 Jun 05 04:01	0° <b>∀</b>	
minimum elong	8323 Apr 13 17:52	25° <b>Y</b> 12′58	1°03'40	retrograde	8328 Jul 05 18:15	4° <b>∺</b> 51'14	
	8323 Apr 20 02:21	$9^{\circ}$ 8			8328 Aug 02 18:21	30°R <b>≈</b>	
	8323 May 29 03:25	$\Pi$ $^{\circ}0$		opposition	8328 Aug 12 09:00	26° <b>≈</b> 33'33	-3°41'12
morning rise	8323 Jun 15 11:58	13° <b>Ⅱ</b> 34'59		greatest brilliancy	8328 Aug 13 04:14	26°≈15'20	-1.6m
C	8323 Jul 06 08:41	0° <b>©</b>		min. Earth dist.	8328 Aug 18 20:36	24° <b>≈</b> 06'27	0.59452 AU
asc. node	8323 Aug 10 10:43	27° <b>©</b> 32'36		direct	8328 Sep 22 02:39	16°≈46'10	0.07.02110
asc. node	•			direct	=		
	8323 Aug 13 14:23	0° <b>N</b>			8328 Nov 11 10:14	0° <b>∀</b>	
	8323 Sep 21 18:10	0°Щ			8329 Jan 03 00:25	$0^{\circ}$ Y	
	8323 Nov 01 18:58	0∘ <b>⊽</b>			8329 Feb 14 21:19	$9^{\circ}$ 8	
	8323 Dec 15 22:19	0° <b>M</b>			8329 Mar 26 12:01	$\Pi$ $^{\circ}0$	
	8324 Feb 03 23:58	0° <b>∡</b> ¹		asc. node	8329 Apr 01 09:03	4° <b>Ⅱ</b> 33'00	
retrograde	8324 Apr 23 17:17	26° <b>х</b> 50'41			8329 May 04 00:47	0ංම	
min. Earth dist.	8324 Jun 02 06:23		0.67702 AU		8329 Jun 11 19:33	$0^{\circ}\Omega$	
opposition	8324 Jun 03 05:07	17° <b>∡</b> 700′17	1°41'21		8329 Jul 21 19:01	0° <b>m</b> )	
greatest brilliancy	8324 Jun 03 04:05	17° <b>₹</b> 01'19	-1.3m	evening set	8329 Aug 29 04:12	27° <b>m</b> 36'58	
direct	8324 Jul 13 20:04	7° <b>∡</b> 18'54			8329 Sep 01 13:36	0∘ <b>ত</b>	
desc. node	8324 Jul 23 07:28	7° <b>√</b> 49'59			8329 Oct 15 08:30	0° <b>M</b> ₊	
	8324 Sep 26 15:43	0°రె					
	8324 Nov 20 00:28	0° <b>≈</b>		conjunction	8329 Oct 21 21:37	4°M22'20	1°01'15
		0° <b>∺</b>		·			
	8325 Jan 06 02:33			minimum elong	8329 Oct 21 22:42	4°M24'08	1°01'21
	8325 Feb 18 05:09	0° <b>Υ</b>		max. Earth dist.	8329 Nov 11 18:28	18°ML08'46	2.61608 AU
	8325 Mar 30 14:56	$9^{\circ}$ 8			8329 Nov 30 00:25	0° <b>∡</b>	
evening set	8325 Apr 14 04:41	11° <b>8</b> 10'50		morning rise	8329 Dec 09 07:33	5° <b>⊀</b> ¹58'52	
	8325 May 08 07:44	$\Pi^{\circ}0$			8330 Jan 16 05:22	0°ರ	
	8325 Jun 15 06:12	0ಂಣ			8330 Mar 05 19:40	0° <b>≈</b>	
	0020 0011 10 00112	<b>~ ~</b>		desc. node	8330 Mar 15 00:56	5°≈34'40	
. ,.	0225 1 20 10 26	40622150	0004145	desc. Hode			
conjunction	8325 Jun 20 19:26	4°923'50			8330 Apr 25 10:58	0° <b>∀</b>	
minimum elong	8325 Jun 20 19:59	4° <b>©</b> 24'56	0°04'55		8330 Jun 20 18:52	$0^{\circ}\mathbf{\Upsilon}$	
behind sun begin	8325 Jun 19 14:40	3° <b>©</b> 26'55		retrograde	8330 Aug 27 08:48	19° <b>Ƴ</b> 45'50	
behind sun end	8325 Jun 22 01:18	5° <b>©</b> 22'57		opposition	8330 Sep 30 01:42	13° <b>Ƴ</b> 11'25	-5°49'19
asc. node	8325 Jun 27 07:39	9° <b>©</b> 32'50		greatest brilliancy	8330 Oct 01 21:04	12° <b>Y</b> 35'05	-2.3m
	8325 Jul 23 08:19	$0^{\circ}\Omega$		min. Earth dist.	8330 Oct 08 18:30	10° <b>℃</b> 17'52	0.46608 AU
max. Earth dist.	8325 Jul 27 01:00		2.37143 AU	direct	8330 Nov 05 20:15	5° <b>Υ</b> 08'53	0.40000710
max. Earm dist.			2.3/143 AU	direct			
	8325 Aug 31 10:48	0° <b>m</b>			8331 Jan 13 12:09	0° <b>8</b>	
morning rise	8325 Sep 01 03:29	0° Mp 31′23		asc. node	8331 Feb 17 09:15	22° <b>8</b> 48'00	
	8325 Oct 11 07:35	0。 <b>ত</b>			8331 Feb 27 14:24	$\Pi$ $^{\circ}0$	
	8325 Nov 23 14:06	0°M			8331 Apr 09 15:19	0°©	
	8326 Jan 09 01:07	0° <b>∡</b> ¹			8331 May 20 04:09	$0^{\circ}\Omega$	
	8326 Mar 01 20:24	0°ප			8331 Jun 30 15:11	0° <b>m</b> )	
. 1						-	
retrograde	8326 May 28 07:10	29° <b>る</b> 35'27			8331 Aug 12 16:36	0° <b>™</b>	
desc. node	8326 Jun 10 06:23	28° <b>පි</b> 31'27			8331 Sep 26 11:39	0°M	
opposition	8326 Jul 07 01:00	20° <b>る</b> 18'55		evening set	8331 Oct 14 11:29	11°M46'04	
greatest brilliancy	8326 Jul 07 02:53	20° <b>る</b> 17'04	-1.4m		8331 Nov 11 17:14	0° <b>∡</b> ¹	
min. Earth dist.	8326 Jul 09 21:08	19° <b>ප</b> 12'01	0.66840 AU				
direct	8326 Aug 17 14:45	10° <b>ප</b> 16'13		conjunction	8331 Nov 30 14:11	12° <b>₹</b> 03'55	0°30'59
4.1.001	8326 Oct 23 10:38	0° <b>≈</b>		minimum elong	8331 Nov 30 15:05	12° <b>х</b> 05′22	0°31'08
				_			
	8326 Dec 15 02:29	0° <b>∀</b>		max. Earth dist.	8331 Dec 06 00:14		2.67336 AU
	8327 Jan 28 15:34	$0$ ° $\mathbf{\gamma}$			8331 Dec 28 19:23	0°₹	
	8327 Mar 10 10:04	$9^{\circ}$ 8		morning rise	8332 Jan 13 23:09	10°る14'26	
	8327 Apr 18 04:05	$\Pi^{\circ}0$		desc. node	8332 Jan 30 21:35	20°る57'56	
asc. node	8327 May 15 07:55	21° <b>Ⅱ</b> 26′54			8332 Feb 14 03:45	0° <b>≈</b>	
	8327 May 26 03:19	0°95			8332 Apr 01 10:06	0° <b>₩</b>	
avaning set					-	0° <b>Υ</b>	
evening set	8327 Jun 26 20:55	24°957'05			8332 May 18 15:09		
	8327 Jul 03 08:39	$0^{\circ}\Omega$			8332 Jul 05 08:01	0°8	
	8327 Aug 11 17:06	0° <b>m</b>			8332 Aug 24 14:56	$\Pi$ $^{\circ}0$	
				retrograde	8332 Nov 11 23:54	28° <b>Ⅱ</b> 33'22	
conjunction	8327 Sep 01 08:33	15° <b>m</b> 14'30	1°00'33	opposition	8332 Dec 11 18:43	23° <b>Ⅲ</b> 37'18	-1°49'14
minimum elong	8327 Sep 01 06:36	-	1°00'29	greatest brilliancy	8332 Dec 11 21:59	23° <b>II</b> 35'08	
minimum clong	•		1 00 2)				
10 d 11 d	8327 Sep 21 20:19	0° <b>⊽</b>	2.50(21.433	min. Earth dist.	8332 Dec 12 04:52		0.36637 AU
max. Earth dist.	8327 Oct 13 00:44	14° <b>44</b> 52'29	2.50631 AU	asc. node	8333 Jan 04 09:22	18° <b>Ⅱ</b> 55'32	

direct	8333 Jan 10 07:29	18° <b>Ⅱ</b> 41'23			8338 Mar 17 14:24	$0^{\circ}$	
	8333 Feb 23 13:53	0°©					
	8333 Apr 18 11:23	0° <b>N</b>		conjunction	8338 Mar 23 22:31	4° <b>Υ</b> 33'47	
	8333 Jun 04 10:36	0° <b>m</b>		minimum elong	8338 Mar 23 22:22	4° <b>Υ</b> 33'31	1°07'05
	8333 Jul 20 18:50	0° <b>™</b>			8338 Apr 27 10:36	0°8	
	8333 Sep 05 16:28	0°M		morning rise	8338 May 19 03:24	16° <b>8</b> 27'38	
	8333 Oct 23 04:11	0° <b>∡</b> 7			8338 Jun 05 17:04	0° <b>Ⅱ</b>	
evening set	8333 Nov 20 12:05	17° <b>₹</b> 50'44			8338 Jul 14 02:52	0°©	
	8333 Dec 09 17:53	0°궁 5°궁07'23		1	8338 Aug 21 11:51	0° <b>Ω</b>	
desc. node	8333 Dec 17 19:53		2 (754( AII	asc. node	8338 Aug 27 03:35	4° <b>Ω</b> 22'54	
max. Earth dist.	8333 Dec 27 06:06	11 00049	2.67546 AU		8338 Sep 29 18:32 8338 Nov 10 01:49	0 <b>்⊽</b> 0°™	
conjunction	8334 Jan 04 04:46	16° <b>ට</b> 10'34	000000		8338 Nov 10 01:49 8338 Dec 25 02:52	0° <b>™</b>	
minimum elong	8334 Jan 04 04:40	16°る10'07			8339 Feb 17 13:20	0°×7	
behind sun begin	8334 Jan 03 12:59	16 <b>3</b> 1007	0 08 38	retrograde	8339 Apr 11 11:16	13° <b>∡</b> 757'50	
behind sun end	8334 Jan 04 19:59	16° <b>ප</b> 34'51		min. Earth dist.	8339 May 19 11:54	4° <b>×</b> <sup>7</sup> 58'57	0.66253 AU
bennia sun ena	8334 Jan 25 18:00	0°≈		opposition	8339 May 21 22:28	4° <b>×</b> <sup>7</sup> 00'29	2°38'23
morning rise	8334 Feb 16 22:07	14°≈22'40		greatest brilliancy	8339 May 21 17:22	4°×705'35	-1.4m
morning rise	8334 Mar 12 16:39	0° <b>)</b> €		greatest offinancy	8339 Jun 01 10:48	30°RM	1.4111
	8334 Apr 26 07:57	0° <b>Υ</b>		direct	8339 Jun 30 19:07	24°M34'40	
	8334 Jun 08 15:31	0°8			8339 Aug 02 08:56	0° <b>∡</b> 7	
	8334 Jul 20 19:55	0°II		desc. node	8339 Aug 09 21:00	2° <b>×</b> <sup>7</sup> 26'02	
	8334 Aug 31 10:56	0°ಅ			8339 Oct 08 16:35	0°る	
	8334 Oct 13 00:42	$0^{\circ}\Omega$			8339 Nov 29 05:08	0°≈	
asc. node	8334 Nov 22 09:20	25° <b>Ω</b> 26′24			8340 Jan 14 14:11	0° <b>₩</b>	
	8334 Nov 30 19:58	0° <b>m</b> p			8340 Feb 26 13:27	$_{0}$ ° $\gamma$	
retrograde	8335 Jan 20 07:00	15° <b>m</b> 08'19		evening set	8340 Mar 21 09:04	17° <b>Ƴ</b> 28'14	
min. Earth dist.	8335 Feb 16 10:27	10°m 02'02	0.44870 AU	Č	8340 Apr 07 00:44	0°B	
greatest brilliancy	8335 Feb 23 09:02	7° m 39'46	-2.4m	max. Earth dist.	8340 Apr 13 11:56		2.38826 AU
opposition	8335 Feb 24 22:18	7° m 07'36	5°01'48		8340 May 15 20:05	$\Pi^{\circ}0$	
direct	8335 Mar 29 07:27	0° m/36'44			·		
	8335 Jun 21 18:57	0∘ <b>⊽</b>		conjunction	8340 May 22 00:02	4° <b>Ⅱ</b> 50′25	-0°36'16
	8335 Aug 14 04:12	0° <b>M</b> .		minimum elong	8340 May 22 02:59	4° <b>Ⅱ</b> 56'12	0°36'23
	8335 Oct 03 12:33	0° <b>∡</b> ¹			8340 Jun 22 20:24	0ංම	
desc. node	8335 Nov 04 19:29	19° <b>₰</b> ⁴44'06		asc. node	8340 Jul 14 02:20	16°ණ47'00	
	8335 Nov 21 08:43	0°ರ			8340 Jul 30 22:51	$0^{\circ}\Omega$	
evening set	8335 Dec 26 10:01	22° <b>る</b> 08'21		morning rise	8340 Aug 02 07:54	1° <b>Ω</b> 51'14	
	8336 Jan 07 15:16	0° <b>≈</b>			8340 Sep 08 00:15	O° <b>m</b> y	
max. Earth dist.	8336 Jan 20 01:49	8° <b>≈</b> 05'13	2.62314 AU		8340 Oct 18 20:15	0∘ <b>ত</b>	
					8340 Dec 01 06:09	0° <b>M</b> .	
conjunction	8336 Feb 09 17:02	21° <b>≈</b> 42′28	-0°47'01		8341 Jan 17 11:50	0° <b>∡</b> ¹	
minimum elong	8336 Feb 09 15:52	21° <b>≈</b> 40'31	0°46'54		8341 Mar 13 23:08	0°₹	
	8336 Feb 22 01:46	0° <b>∀</b>		retrograde	8341 May 14 14:39	17° <b>る</b> 02'58	
morning rise	8336 Mar 27 08:30	23° <b>)</b> 32′15		opposition	8341 Jun 23 18:53	7° <b>云</b> 30'32	
	8336 Apr 05 13:29	0° <b>Υ</b>		greatest brilliancy	8341 Jun 23 19:07	7° <b>る</b> 30'18	-1.3m
	8336 May 17 05:28	0° <b>8</b>		min. Earth dist.	8341 Jun 25 03:23	6° <b>る</b> 58'22	0.67964 AU
	8336 Jun 26 09:55	0° <b>Ⅱ</b>		desc. node	8341 Jun 26 20:23	6°る17'56	
	8336 Aug 04 16:33	0°9			8341 Jul 15 13:57	30°R. <b>✓</b>	
	8336 Sep 12 21:28	0°N		direct	8341 Aug 04 03:55	27° <b>∡</b> ³33′00	
asc. node	8336 Oct 09 05:58	19° <b>Ω</b> 44'46			8341 Aug 25 06:08	5°0	
	8336 Oct 23 07:13	0° <b>m</b>			8341 Nov 04 09:18	0° <b>≈</b>	
	8336 Dec 06 06:04	0∘ <b>™</b>			8341 Dec 23 20:44	0° <b>ℋ</b> 0° <b>Ƴ</b>	
	8337 Feb 01 20:05	0°M			8342 Feb 05 15:24	0° <b>8</b>	
retrograde	8337 Mar 06 01:31	6°M18'50			8342 Mar 18 04:51	0°U	
min Earth diat	8337 Apr 05 11:03	30°R <b>Ω</b>	0.50070 ATT	avanina aat	8342 Apr 25 21:27		
min. Earth dist. greatest brilliancy	8337 Apr 08 05:37 8337 Apr 13 09:34	28° <b>♀</b> 56'40 26° <b>♀</b> 55'17	0.58078 AU -1.7m	evening set asc. node	8342 May 27 22:37 8342 Jun 01 00:45	25°П20'45 28°П35'08	
opposition	8337 Apr 14 09:49	26° <b>£</b> 331′29	4°45'10	asc. nouc	8342 Jun 02 19:36	28 <b>п</b> 3308	
direct	8337 May 21 06:36	26 <b>≗</b> 31 29 18° <b>£</b> 07'26	-T -TJ 1U		8342 Jul 10 22:49	0° <b>U</b>	
ance	8337 Jul 10 10:12	0°M			5572 Jul 10 22.49	· 06	
	8337 Sep 09 16:49	0° <b>⊼</b> 1		conjunction	8342 Aug 06 09:42	20° <b>Ω</b> 21'56	0°43'18
desc. node	8337 Sep 03 10:43 8337 Sep 21 20:17	6° <b>₹</b> 44'59		minimum elong	8342 Aug 06 06:30	20° <b>Ω</b> 15'52	
acse. Houe	8337 Oct 31 18:10	0°중		ciong	8342 Aug 19 03:45	0°m)	J 15 07
	8337 Dec 19 02:50	0° <b>≈</b>		max. Earth dist.	8342 Sep 25 13:06		2.45177 AU
evening set	8338 Feb 02 02:56	29°≈39'33		Lai iii dibt.	8342 Sep 29 02:57	೨७° <b>೮</b>	2
	8338 Feb 02 14:59	0° <b>∀</b>		morning rise	8342 Oct 09 08:44	o <b>—</b> 7° <b>⊆</b> 15'54	
max. Earth dist.	8338 Feb 17 11:56		2.52023 AU		8342 Nov 11 07:35	0° <b>M</b> ₊	
		. , , , , , ,	,				

		_					
	8342 Dec 27 02:11	0° <b>∡</b>			8348 May 02 04:30	$0 {\circ} \Omega$	
	8343 Feb 14 03:44	0°ප			8348 Jun 14 20:34	0° <b>m</b>	
	8343 Apr 10 21:02	0°≈			8348 Jul 29 10:30	0∘ <b>亚</b>	
desc. node	8343 May 14 18:19	13°≈57'11			8348 Sep 13 06:49	0° <b>M</b> 0° <b>₹</b>	
retrograde opposition	8343 Jun 20 10:15 8343 Jul 29 01:26	20°≈41'41 11°≈57'03	2027/05		8348 Oct 30 03:57	0° <b>҂</b> 4° <b>҂</b> 29'13	
greatest brilliancy	8343 Jul 29 11:50	11 ≈3703 11°≈47'00	-2 37 03 -1.5m	evening set	8348 Nov 06 05:30 8348 Dec 16 11:27	4 x·2913	
min. Earth dist.	8343 Aug 03 03:43	9°≈59'08	0.63097 AU	max. Earth dist.	8348 Dec 18 17:19		2.68136 AU
direct	8343 Sep 08 09:14	9 ≈5908 1°≈57'17	0.03097 AU	max. Earm dist.	6346 Dec 16 17.19	1 02323	2.08130 AU
direct	8343 Nov 27 17:39	0° <b>∺</b>		conjunction	8348 Dec 21 11:40	3° <b>⋜</b> 10′39	0°06'48
	8344 Jan 14 04:58	0° <b>Υ</b>		minimum elong	8348 Dec 21 11:52	3° <b>ප</b> 10'59	
	8344 Feb 24 21:08	0°8		behind sun begin	8348 Dec 20 19:01	2° <b>♂</b> 44'15	
	8344 Apr 04 00:06	0°II		behind sun end	8348 Dec 22 04:43	3° <b>る</b> 37'42	
asc. node	8344 Apr 18 00:18	10° <b>Ⅱ</b> 57'58		desc. node	8349 Jan 03 09:40	11° <b>る</b> 23'09	
	8344 May 12 05:21	0°9			8349 Feb 01 13:14	0° <b>≈</b>	
	8344 Jun 19 17:06	$0^{\circ}\Omega$		morning rise	8349 Feb 03 02:14	0°≈59'21	
	8344 Jul 29 09:01	0° <b>m</b>		_	8349 Mar 19 21:33	0° <b>ℋ</b>	
evening set	8344 Aug 06 18:03	6° Mp 10′37			8349 May 04 06:57	$0^{\circ}\mathbf{\Upsilon}$	
	8344 Sep 08 20:03	0∘ <b>⊽</b>			8349 Jun 17 17:56	$9^{\circ}$ 8	
					8349 Jul 31 13:02	$\Pi^{\circ}0$	
conjunction	8344 Oct 03 19:14	17° <b>≏</b> 23'02	1°06'31		8349 Sep 13 16:14	0ංම	
minimum elong	8344 Oct 03 19:37	17° <b>≏</b> 23'41	1°06'34		8349 Nov 01 04:38	$0 {\circ} \Omega$	
	8344 Oct 22 08:41	0° <b>M</b> ₊		asc. node	8349 Dec 09 01:02	15° <b>Ω</b> 54'01	
max. Earth dist.	8344 Nov 01 03:08	6°M32'31	2.57895 AU	retrograde	8349 Dec 27 23:34	18° <b>Ω</b> 23'33	
morning rise	8344 Nov 24 02:31	21°M41'16		min. Earth dist.	8350 Jan 22 22:32	13° <b>Ω</b> 58'31	0.39891 AU
	8344 Dec 06 22:10	0° <b>∡</b>		greatest brilliancy	8350 Jan 29 02:06	12° <b>Ω</b> 06'02	-2.8m
	8345 Jan 23 08:40	0°ප		opposition	8350 Jan 30 02:19	11° <b>Ω</b> 47'29	3°30'30
	8345 Mar 13 21:32	0° <b>≈</b>		direct	8350 Mar 01 10:08	6° <b>Ω</b> 14'12	
desc. node	8345 Mar 31 16:02	10°≈19'36			8350 May 12 10:10	0° <b>m</b>	
	8345 May 06 10:30	0° <b>ℋ</b> 0° <b>Ƴ</b>			8350 Jul 04 10:39	0° <b>™</b>	
ratra ara da	8345 Jul 25 13:41	0° <b>Υ</b> 34'36			8350 Aug 23 04:03	0° <b>M</b> 0° <b>⊀</b>	
retrograde	8345 Aug 04 10:59 8345 Aug 14 00:12	0° <b>1</b> 34 36 30°R <b>)</b> €		desc. node	8350 Oct 11 01:51 8350 Nov 21 08:43	0° <b>×</b> ° 25° <b>×</b> <sup>7</sup> 39'07	
opposition	8345 Sep 08 22:19	23°¥12'28	5°13'00	desc. Hode	8350 Nov 28 07:07	23 <b>メ</b> 3907	
greatest brilliancy	8345 Sep 10 10:09	23 X 12 28 22° <del>X</del> 40'20		evening set	8350 Nov 28 07:07 8350 Dec 12 09:50	8° <b>る</b> 54'02	
min. Earth dist.	8345 Sep 17 04:51	20° <b>H</b> 15'27	0.52082 AU	max. Earth dist.	8351 Jan 10 11:00	27° <b>る</b> 27'04	2.65017 AU
direct	8345 Oct 17 18:53	14° <b>)</b> 12'04	0.52002710	max. Dartii dist.	8351 Jan 14 09:44	0°≈	2.03017710
	8345 Dec 10 11:22	0°Υ			0351 0411 11 03.11		
	8346 Jan 28 12:51	0°8		conjunction	8351 Jan 26 01:53	7° <b>≈</b> 34'43	-0°33'23
asc. node	8346 Mar 06 01:54	26° <b>8</b> 17'03		minimum elong	8351 Jan 26 00:58	7° <b>≈</b> 33'12	
	8346 Mar 11 01:22	$\Pi^{\circ}0$		-	8351 Feb 28 23:49	0° <b>)</b> €	
	8346 Apr 19 14:40	0ಂತಾ		morning rise	8351 Mar 12 00:30	7° <b>)</b> €25'57	
	8346 May 29 04:19	$0^{\circ}\Omega$			8351 Apr 13 20:34	$0^{\circ}\mathbf{\Upsilon}$	
	8346 Jul 08 20:49	0° <b>m</b>			8351 May 26 01:14	$9^{\circ}$ 8	
	8346 Aug 20 06:57	0∘ <b>ত</b>			8351 Jul 05 19:52	$\Pi^{\circ}0$	
evening set	8346 Sep 27 21:38	26° <b>£</b> 12'42			8351 Aug 14 17:07	0ංම	
	8346 Oct 03 14:15	0°M₊			8351 Sep 23 14:52	$0^{\circ}\Omega$	
	004637 45 00 50	2007 2011	004440	asc. node	8351 Oct 27 00:31	24° <b>Ω</b> 16'19	
conjunction	8346 Nov 15 22:50	28°M20'14	0°44'40		8351 Nov 04 05:25	0° <b>т</b> )	
minimum elong	8346 Nov 16 00:02	28°M22'10	0°44'49	. 1	8351 Dec 22 00:35	0° <b>亞</b>	
may Forth dist	8346 Nov 18 12:46	0°⊀ <sup>7</sup> 5°.₹22112	2.65755 AU	retrograde min. Earth dist.	8352 Feb 18 23:04	18° <b>♀</b> 57'55 12° <b>♀</b> 25'23	0.53285 AU
max. Earth dist. morning rise	8346 Nov 26 21:17 8346 Dec 31 10:21	27° <b>₹</b> 22'19	2.03/33 AU	greatest brilliancy	8352 Mar 20 19:32 8352 Mar 26 22:04	12 <b>≗</b> 23 23 10° <b>£</b> 06'05	-2.0m
morning risc	8347 Jan 04 14:02	27 × 22 19 0°る		opposition	8352 Mar 28 06:58	9° <b>£</b> 34'40	5°15'50
desc. node	8347 Feb 16 12:48	0 3 27° <b>る</b> 01'53		direct	8352 May 02 13:23	1° <b>⊆</b> 47'15	3 13 30
desc. node	8347 Feb 21 06:31	27 <b>⊙</b> 01 33		direct	8352 Jul 26 04:35	0°M	
	8347 Apr 10 10:56	0° <b>)</b> €			8352 Sep 18 20:57	0° <b>∡</b> 7	
	8347 May 29 15:42	0° <b>Υ</b>		desc. node	8352 Oct 08 09:06	11° <b>×</b> <sup>7</sup> 24'03	
	8347 Jul 21 02:49	0°8			8352 Nov 08 07:00	0°る	
retrograde	8347 Oct 11 01:12	28° <b>8</b> 12'22			8352 Dec 26 02:46	0°≈	
opposition	8347 Nov 10 14:48	22° <b>8</b> 58'36	-4°46'59	evening set	8353 Jan 17 09:59	14° <b>≈</b> 31′50	
greatest brilliancy	8347 Nov 11 18:50	22° <b>8</b> 38'38	-2.8m	max. Earth dist.	8353 Feb 04 23:09	26°≈54'04	2.56606 AU
min. Earth dist.	8347 Nov 16 07:20	21° <b>8</b> 21'47	0.38929 AU		8353 Feb 09 13:09	0° <b>∀</b>	
direct	8347 Dec 12 18:04	17° <b>8</b> 04'19					
asc. node	8348 Jan 22 01:58	27° <b>8</b> 06'06		conjunction	8353 Mar 05 19:31	16° <b>)</b> 41′09	
	8348 Jan 28 06:50	$\Pi^{\circ}0$		minimum elong	8353 Mar 05 18:35	16° <b>¥</b> 39'32	1°02'57
	8348 Mar 18 23:15	0ං <b>ව</b>			8353 Mar 24 16:30	$\mathbf{\gamma}_{0}$	

morning rise	8353 Apr 26 01:57	23° <b>Y</b> 31'13			8358 Apr 27 20:31	0° <b>≈</b>	
morning rise	8353 May 04 19:35	0° <b>8</b>		desc. node	8358 May 31 09:07	7°≈17'09	
	8353 Jun 13 09:30	0°II		retrograde	8358 Jun 05 11:15	7°≈26'23	
	8353 Jul 22 01:55	0°9		ronogrado	8358 Jul 10 13:09	30°Rる	
	8353 Aug 29 16:24	0°N		opposition	8358 Jul 14 20:43	28° <b>る</b> 20'05	-1°32'55
asc. node	8353 Sep 12 22:03	10° <b>£</b> 56′00		greatest brilliancy	8358 Jul 15 00:55	28° <b>る</b> 15'59	
	8353 Oct 08 05:03	0° <b>m</b> y		min. Earth dist.	8358 Jul 18 12:07	26° <b>る</b> 54'45	0.65770 AU
	8353 Nov 19 00:50	0° <del>م</del>		direct	8358 Aug 25 09:58	18° <b>る</b> 16'54	
	8354 Jan 04 20:12	0° <b>M</b> .			8358 Oct 13 05:37	0°≈	
	8354 Mar 21 00:32	0° <b>∡</b> ¹			8358 Dec 08 19:46	0° <b>)</b> €	
retrograde	8354 Mar 28 21:11	0° <b>∡</b> 124'15			8359 Jan 23 04:21	$0^{\circ}$ Y	
	8354 Apr 05 12:44	30°RM₊			8359 Mar 05 05:47	$0^{\circ}$ 8	
min. Earth dist.	8354 May 04 04:09	21°M59'01	0.63781 AU		8359 Apr 13 02:45	$\Pi$ °0	
opposition	8354 May 08 02:41	20°M24'50	3°32'16	asc. node	8359 May 05 17:08	17° <b>Ⅱ</b> 47'56	
greatest brilliancy	8354 May 07 15:19	20°M36'09	-1.5m		8359 May 21 03:47	0	
direct	8354 Jun 15 23:44	11°M18'56			8359 Jun 28 10:51	$0$ $^{\circ}$ $\Omega$	
	8354 Aug 21 13:16	0°⊀		evening set	8359 Jul 12 20:40	11° <b>Ω</b> 05'48	
desc. node	8354 Aug 26 09:35	2° <b>҂</b> 14'53			8359 Aug 06 20:59	0° <b>™</b>	
	8354 Oct 18 00:25	0°₹					
	8354 Dec 06 21:41	0° <b>≈</b>		conjunction	8359 Sep 14 06:47	28° Mp 00'58	
	8355 Jan 21 20:03	0° <b>∀</b>		minimum elong	8359 Sep 14 05:49	27° <b>m</b> 59'14	1°05'14
evening set	8355 Mar 01 20:37	27° <b>)</b> 11'49			8359 Sep 17 01:43	0∘ <b>⊽</b>	
	8355 Mar 05 18:14	0° <b>Υ</b>		max. Earth dist.	8359 Oct 21 01:30		2.53398 AU
max. Earth dist.	8355 Mar 16 10:57	7° <b>Y</b> 45'34	2.43930 AU		8359 Oct 30 09:26	0°M	
	8355 Apr 15 08:20	$9^{\circ}$ 8		morning rise	8359 Nov 08 13:20	6°M09'23	
	0255 4 26 10 10	00 4 40150	0057106		8359 Dec 14 22:18	0° <b>⊼</b>	
conjunction	8355 Apr 26 19:10	8° <b>8</b> 42'59			8360 Jan 31 18:22	0° <del>3</del>	
minimum elong	8355 Apr 26 21:23	8° <b>႘</b> 47'14 0° <b>Ⅱ</b>	0°5/12	JJ.	8360 Mar 22 18:03	0°≈ 12°≈ ≈50!22	
	8355 May 24 07:20	0°9		desc. node	8360 Apr 17 06:39	13°≈50'23 0° <b>)</b> €	
morning rise	8355 Jul 01 10:36 8355 Jul 02 14:59	0°955'59		ratragrada	8360 May 21 03:26 8360 Jul 15 19:56	13° <b>¥</b> 58'49	
asc. node	8355 Jul 31 18:26	23° <b>©</b> 52'14		retrograde opposition	8360 Aug 21 18:14	5° <b>H</b> 58'39	4°17'01
asc. node	8355 Aug 08 14:45	23 <b>3</b> 32 14 0° <b>Ω</b>		greatest brilliancy	8360 Aug 22 19:20	5° <b>X</b> 35'14	
	8355 Sep 16 16:47	0° <b>m</b> )		min. Earth dist.	8360 Aug 28 23:06		0.57029 AU
	8355 Oct 27 14:20	0∘ <b>ʊ</b> ೧ װ⁄		mm. Lartii dist.	8360 Sep 07 18:39	30°R≈	0.57027 AC
	8355 Dec 10 08:18	o° <b>m</b> .		direct	8360 Sep 30 23:17	26°≈23'21	
	8356 Jan 27 23:07	0° <b>⊼</b> ¹		uncet	8360 Oct 25 08:43	0° <b>∀</b>	
	8356 Apr 02 09:43	0°ਰ			8360 Dec 26 11:57	0° <b>Υ</b>	
retrograde	8356 May 01 06:53	4° <b>ට</b> 33'42			8361 Feb 08 16:30	0°8	
	8356 May 27 20:43	30°R <b>✓</b>			8361 Mar 20 18:55	0°II	
opposition	8356 Jun 10 17:17	24° <b>₹</b> 48'46	1°06'50	asc. node	8361 Mar 22 16:49	1° <b>Ⅱ</b> 28′03	
greatest brilliancy	8356 Jun 10 17:27	24° <b>∡</b> ¹48'37	-1.3m		8361 Apr 28 14:09	0ంతె	
min. Earth dist.	8356 Jun 10 13:59	24° <b>₹</b> 52'04	0.68070 AU		8361 Jun 06 14:04	$0^{\circ}\Omega$	
desc. node	8356 Jul 13 09:50	15° <b>∡</b> ¹26′22			8361 Jul 16 18:09	0° <b>™</b>	
direct	8356 Jul 21 16:19	15° <b>∡</b> 100'46			8361 Aug 27 16:56	0∘ <b>ত</b>	
	8356 Sep 17 15:58	0°ರ		evening set	8361 Sep 09 14:09	8° <b>ჲ</b> 56'23	
	8356 Nov 14 03:43	0° <b>≈</b>			8361 Oct 10 15:05	$0^{\circ}$ M	
	8356 Dec 31 23:24	0° <b>∀</b>					
	8357 Feb 13 07:39	0° <b>Υ</b>		conjunction	8361 Oct 31 08:48	13°M44'25	0°56'06
	8357 Mar 25 19:07	0° <b>8</b>		minimum elong	8361 Oct 31 10:02	13°M46'27	0°56'13
evening set	8357 Apr 29 01:44	26° <b>8</b> 31'30		max. Earth dist.	8361 Nov 17 11:09	24°M54'10	2.63325 AU
	8357 May 03 11:53	0° <b>I</b> I			8361 Nov 25 08:14	0° <b>∡</b>	
	8357 Jun 10 09:54	0°©		morning rise	8361 Dec 17 12:45	14° <b>∡</b> °13'36	
asc. node	8357 Jun 17 17:12	5° <b>©</b> 47'07			8362 Jan 11 10:40	್ತ	
	0257 1.1 00 00 41	21054000	0014122	4 1	8362 Feb 28 15:19	0°≈ 2°≈ •4€!05	
conjunction	8357 Jul 08 00:41	21°548'38	0°14'32	desc. node	8362 Mar 05 03:22	2°≈46'05	
minimum elong	8357 Jul 07 23:06	21°545'33	0°14'21		8362 Apr 19 04:16	0° <b>∀</b> 0° <b>Υ</b>	
behind sun begin behind sun end	8357 Jul 07 09:06 8357 Jul 08 13:07	21°5518'04 22°5513'02			8362 Jun 10 21:00	0°Y	
ocimia sun ena	8357 Jul 08 13:07 8357 Jul 18 11:48	0°Ω		retrograde	8362 Aug 20 19:21 8362 Sep 11 03:17	2° <b>8</b> 35'01	
	8357 Aug 26 14:07	0°my		renograde	8362 Sep 11 03:17 8362 Oct 01 12:59	2° <b>⊘</b> 35'01 30° <b>R</b> Υ	
max. Earth dist.	8357 Aug 28 23:16		2.39647 AU	opposition	8362 Oct 01 12:39 8362 Oct 13 15:30	30° <b>γ</b> 1 26° <b>Υ</b> 30'24	-5°50'21
morning rise	8357 Sep 16 01:41	15° Mp 13'52	2.370T/ AU	greatest brilliancy	8362 Oct 15 10:58	26 γ 30 24 25° <b>γ</b> 55'52	
morning 115¢	8357 Oct 06 10:28	0° <b>⊽</b>		min. Earth dist.	8362 Oct 13 10:38 8362 Oct 22 00:15	23° <b>Y</b> 51'55	0.43595 AU
	8357 Oct 00 10:28 8357 Nov 18 14:42	0°M		direct	8362 Nov 17 23:20	19° <b>Υ</b> 09'56	35575 110
	8358 Jan 03 16:54	0° <b>⊼</b> ¹			8362 Dec 30 00:39	0°8	
	8358 Feb 23 03:41	°ਤ		asc. node	8363 Feb 07 18:28	22° <b>8</b> 33'09	
		. —				0.55 07	

	8363 Feb 19 01:17	$\Pi^{\circ}0$		morning rise	8368 Apr 06 09:46	3° <b>Y</b> 57'48	
	8363 Apr 02 16:08	0°ಅ			8368 May 12 07:18	0°B	
	8363 May 14 00:46	$\Omega^{\circ}\Omega$			8368 Jun 21 06:20	$\Pi^{\circ}0$	
	8363 Jun 25 01:13	0° m)			8368 Jul 30 07:05	0.ee	
	8363 Aug 07 12:28	0∘ <b>⊽</b>			8368 Sep 07 05:25	$0^{\circ}\Omega$	
	8363 Sep 21 14:44	$0^{\circ}$ M		asc. node	8368 Sep 29 14:50	16° <b>Ω</b> 58'29	
evening set	8363 Oct 23 09:25	20° <b>™</b> 36′34			8368 Oct 17 04:33	0° <b>m</b> y	
	8363 Nov 07 00:48	0° <b>∡</b> 7			8368 Nov 29 00:34	0∘ <b>ত</b>	
					8369 Jan 18 22:55	0°M₊	
conjunction	8363 Dec 08 16:19	20° <b>∡</b> 109'49	0°22'18	retrograde	8369 Mar 14 15:04	15° <b>M</b> 46'58	
minimum elong	8363 Dec 08 17:00	20° <b>√</b> 10'53	0°22'28	min. Earth dist.	8369 Apr 17 23:26	8°M00'43	0.60369 AU
•					•		
max. Earth dist.	8363 Dec 11 02:36		2.67868 AU	opposition	8369 Apr 23 09:18	5°M52'25	4°21'05
	8363 Dec 24 04:08	0°る		greatest brilliancy	8369 Apr 22 13:56	6° <b>™</b> 11'33	-1.6m
morning rise	8364 Jan 21 15:15	18° <b>る</b> 03'58			8369 May 10 08:22	30°Ŗ <b>Ω</b>	
desc. node	8364 Jan 21 00:03	17° <b>る</b> 39'49		direct	8369 May 31 01:05	27° <b>₽</b> 11'37	
	8364 Feb 09 09:34	0° <b>≈</b>			8369 Jun 22 14:03	0° <b>M</b> ₊	
	8364 Mar 27 06:50	0° <b>∀</b>			8369 Sep 02 21:39	0° <b>∡</b> ¹	
	8364 May 12 17:26	0°Υ		desc. node	8369 Sep 11 23:21	4° <b>∡</b> °48'51	
	•			desc. Hode	8369 Oct 26 10:01	0°る	
	8364 Jun 27 22:59	0°8					
	8364 Aug 13 20:06	$\Pi$ °0			8369 Dec 14 06:22	0° <b>≈</b>	
	8364 Oct 04 08:51	0			8370 Jan 28 22:17	0° <b>∀</b>	
retrograde	8364 Nov 29 18:47	17° <b>©</b> 10'21		evening set	8370 Feb 11 16:37	9° <b>∺</b> 25'19	
asc. node	8364 Dec 25 19:19	13°906'41		max. Earth dist.	8370 Feb 26 00:57	19° <b>)</b> 25'44	2.49245 AU
min. Earth dist.	8364 Dec 27 11:49	12° <b>©</b> 39'33	0.36879 AU		8370 Mar 12 21:40	$0^{\circ}\mathbf{Y}$	
opposition	8364 Dec 30 07:06	11°953'52	0°20'50		05/01/141 12 21:10	• •	
					0270 4 04 07 25	1.0001.0142	1007112
greatest brilliancy	8364 Dec 30 05:54	11° <b>©</b> 54'41	-3.1m	conjunction	8370 Apr 04 07:25	16° <b>Y</b> 18'43	
direct	8365 Jan 28 15:02	6°\$59'50		minimum elong	8370 Apr 04 08:02	16° <b>Y</b> 19'49	1°06'16
	8365 Apr 07 00:01	$0 {\circ} \Omega$			8370 Apr 22 16:10	$9^{\circ}$ 8	
	8365 May 27 21:52	0° <b>m</b> ∕			8370 May 31 20:17	$\Pi^{\circ}0$	
	8365 Jul 14 18:03	0∘ <b>⊽</b>		morning rise	8370 Jun 02 23:29	1° <b>Ⅱ</b> 39'34	
	8365 Aug 31 10:08	0°M		3	8370 Jul 09 03:40	0ಂತಾ	
	8365 Oct 18 07:55	0° <b>⊼</b>			8370 Aug 16 10:28	$0 {\circ} {\mathfrak O}$	
					•		
evening set	8365 Nov 28 12:29	25° <b>∡</b> ′50′58		asc. node	8370 Aug 17 12:53	0° <b>Ω</b> 51'22	
	8365 Dec 05 02:24	0°₹			8370 Sep 24 14:26	O°Mp	
desc. node	8365 Dec 07 21:55	1° <b>る</b> 46'38			8370 Nov 04 15:57	0∘ <b>⊽</b>	
max. Earth dist.	8366 Jan 01 09:14	17° <b>る</b> 19'17	2.66879 AU		8370 Dec 19 00:47	$0^{\circ}$ M	
					8371 Feb 08 07:20	0° <b>∡</b> 7	
conjunction	8366 Jan 12 01:53	24° <b>る</b> 10'04	-0°18'19	retrograde	8371 Apr 19 01:43	21° <b>₹</b> '52'53	
•		24° <b>る</b> 09'12		min. Earth dist.	8371 May 27 22:53		0.67175 AU
minimum elong	8366 Jan 12 01:20		0 1009		•		
	8366 Jan 21 03:18	0° <b>≈</b>		opposition	8371 May 29 14:10	11° <b>∡</b> 58'47	
morning rise	8366 Feb 25 01:35	22° <b>≈</b> 47'22		greatest brilliancy	8371 May 29 11:36	12° <b>∡</b> '01'20	-1.3m
	8366 Mar 07 22:46	0° <b>∀</b>		direct	8371 Jul 08 22:05	2° <b>х</b> 24′00	
	8366 Apr 21 06:58	$0^{\circ}\Upsilon$		desc. node	8371 Jul 30 23:54	5° <b>∡</b> ¹02'29	
	8366 Jun 03 03:50	0°8			8371 Oct 01 17:17	0°ප	
	8366 Jul 14 18:03	0°Щ			8371 Nov 23 19:40	0° <b>≈</b>	
	8366 Aug 24 14:06	0°©			8372 Jan 09 15:44	0° <b>∀</b>	
	Č						
	8366 Oct 04 19:30	$0$ ° $\Omega$			8372 Feb 21 18:07	0°Υ	
asc. node	8366 Nov 12 17:18	26° <b>Ω</b> 29'10			8372 Apr 02 05:38	0°8	
	8366 Nov 18 07:34	0° <b>m</b>		evening set	8372 Apr 03 09:24	0° <b>8</b> 52'46	
retrograde	8367 Jan 31 18:49	28° Mp 41'35			8372 May 11 00:09	$\Pi^{\circ}0$	
min. Earth dist.	8367 Mar 01 05:04	23° mg 04'05	0.47920 AU	max. Earth dist.	8372 May 20 05:02	7° <b>Ⅱ</b> 14'32	2.36781 AU
greatest brilliancy	8367 Mar 07 23:30	20° mp 38'17	-2.3m		Ž		
opposition	8367 Mar 09 13:31	20° mp 03'50		conjunction	8372 Jun 07 11:27	21° <b>∏</b> 40′52	0°10'12
		-	3 20 21	·			
direct	8367 Apr 12 00:36	13° <b>m</b> 02'41		minimum elong	8372 Jun 07 13:26	21° <b>Ⅱ</b> 44'47	0°19'23
	8367 Jun 11 07:27	0∘ <b>⊽</b>			8372 Jun 17 23:27	0	
	8367 Aug 07 16:31	$0^{\circ}$ M		asc. node	8372 Jul 04 09:28	12° <b>©</b> 59'02	
	8367 Sep 28 05:04	0° <b>∡</b> ¹			8372 Jul 26 01:22	$0^{\circ}\Omega$	
desc. node	8367 Oct 25 22:08	16° <b>∡</b> ¹43'00		morning rise	8372 Aug 19 13:42	18° <b>Ω</b> 57'40	
	8367 Nov 16 12:50	0°る		<i>3</i>	8372 Sep 03 02:29	0° m)	
		0°≈			•	0∘ <del>ত</del> المار	
	8368 Jan 02 23:56				8372 Oct 13 21:26		
evening set	8368 Jan 03 14:31	0° <b>≈</b> 23'32			8372 Nov 26 03:28	0°M	
max. Earth dist.	8368 Jan 25 23:39		2.60504 AU		8373 Jan 11 19:02	0° <b>∡</b>	
	8368 Feb 17 10:43	0° <b>∀</b>			8373 Mar 05 15:58	0°ප	
				retrograde	8373 May 22 08:50	24° <b>る</b> 41'19	
conjunction	8368 Feb 18 11:00	0° <b>)</b> (41′02	-0°53'55	desc. node	8373 Jun 16 23:16	20° <b>ප</b> 31'44	
minimum elong	8368 Feb 18 09:48	0° <b>¥</b> 39'01		opposition	8373 Jul 01 07:54	15° <b>ට</b> 17'06	-0°29'49
minimum ciong		0 <b>γ</b> (3901	0 00 00			15° <b>る</b> 16'22	
	8368 Mar 31 19:47	UI		greatest brilliancy	8373 Jul 01 08:39	15 010/22	-1.5111

min. Earth dist. direct	8373 Jul 03 11:39 8373 Aug 11 20:30 8373 Oct 28 01:09	14°පි26'06 5°පි16'16 0°≈	0.67475 AU	conjunction minimum elong max. Earth dist.	8378 Nov 24 09:55 8378 Nov 24 10:58 8378 Dec 02 04:54	6° ₹ 46'10 6° ₹ 47'51 11° ₹ 45'03	0°36'52 0°37'02 2.66731 AU
	8373 Dec 18 06:02 8374 Jan 31 12:09 8374 Mar 13 05:25	0 <b>°R</b> 0 <b>°A</b> 0 <b>°H</b>		morning rise desc. node	8378 Dec 30 21:44 8379 Jan 08 05:08 8379 Feb 06 14:04	0°ප 5°ප15'42 23°ප49'06	
asc. node	8374 Apr 20 23:14 8374 May 22 09:09	0°Ⅱ 24°Ⅱ49'50		desc. node	8379 Feb 16 09:18 8379 Apr 05 00:28	0° <b>€</b>	
evening set	8374 May 28 21:45 8374 Jun 13 21:10 8374 Jul 06 01:31	0°© 12°©37′21 0°Ω			8379 May 22 23:49 8379 Jul 11 07:19 8379 Sep 04 13:02	0°¥ 0°¥ 0°Y	
	8374 Aug 14 07:21	0° <b>m</b> )		retrograde opposition	8379 Oct 29 08:53 8379 Nov 28 06:43	15° <b>Ⅱ</b> 12'44 10° <b>Ⅱ</b> 16'03	-3°19'33
conjunction	8374 Aug 21 13:17	5° Mp 24'36		greatest brilliancy min. Earth dist.	8379 Nov 28 19:47 8379 Dec 01 07:41	10° <b>Ⅱ</b> 07'17 9° <b>Ⅱ</b> 27'09	-3.0m 0.37260 AU
minimum elong	8374 Aug 21 10:36 8374 Sep 24 07:21	5° <b>m</b> 19'36 0° <b>≏</b>	0°54'33	direct	8379 Dec 01 07.41 8379 Dec 28 16:39	5° <b>П</b> 01'28	0.37200 AU
max. Earth dist.	8374 Oct 06 06:50	8° <b>≏</b> 28'57	2.48258 AU	asc. node	8380 Jan 12 10:40	6° <b>Ⅱ</b> 28'48	
morning rise	8374 Oct 21 01:58 8374 Nov 06 11:53	18° <b>♀</b> 47'23 0° <b>ጤ</b>			8380 Mar 07 10:36	$0 {\circ} {\mathfrak C}$	
	8374 Dec 22 02:35	0°11L 0° <b>∡</b> 7			8380 Apr 24 06:07 8380 Jun 08 10:23	0° <b>m</b> p	
	8375 Feb 08 13:53	0°ප			8380 Jul 23 20:26	0∘ <b>ಹ</b>	
	8375 Apr 02 22:34	0° <b>≈</b>			8380 Sep 08 05:11	0° <b>M</b>	
desc. node retrograde	8375 May 04 21:16 8375 Jun 29 12:23	15°≈11'35 29°≈07'34		evening set	8380 Oct 25 09:29 8380 Nov 14 10:43	0° <b>҂</b> 12° <b>҂</b> 40'30	
opposition	8375 Aug 06 14:55	29 ≈0734 20°≈36'55	-3°14'16	evening set	8380 Dec 11 20:08	12 x 40 30	
greatest brilliancy	8375 Aug 07 05:59	20° <b>≈</b> 22'32	-1.6m	max. Earth dist.	8380 Dec 23 18:26	7° <b>る</b> 34'02	2.67913 AU
min. Earth dist.	8375 Aug 12 11:36	18°≈22'38	0.61211 AU	desc. node	8380 Dec 24 11:58	8° <b>පි</b> 01'51	
direct	8375 Sep 16 15:58 8375 Nov 18 23:20	10° <b>≈</b> 42'52 0° <b>米</b>		conjunction	8380 Dec 29 08:11	11° <b>る</b> 06'34	-0°02'35
	8376 Jan 07 22:35	0° <b>Υ</b>		minimum elong	8380 Dec 29 08:05	11°る06'24	
	8376 Feb 19 06:47	0°8		behind sun begin	8380 Dec 28 13:50	10° <b>ප</b> 37'24	
,	8376 Mar 29 16:27	0°Ⅱ 7°Ⅲ25154		behind sun end	8380 Dec 30 02:20	11° <b>る</b> 35'25	
asc. node	8376 Apr 08 10:38 8376 May 07 01:24	7° <b>Ⅱ</b> 35'54 0° <b>©</b>		morning rise	8381 Jan 27 21:14 8381 Feb 10 22:51	0° <b>≈</b> 9° <b>≈</b> 04'32	
	8376 Jun 14 16:08	$0 {\circ} \Omega$		morning rise	8381 Mar 15 00:27	0° <b>∺</b>	
	8376 Jul 24 10:55	0° <b>m</b> )			8381 Apr 29 00:02	$0^{\circ}$ $\Upsilon$	
evening set	8376 Aug 19 20:02	19° <b>m</b> 12'17			8381 Jun 11 19:20	0° <b>B</b>	
	8376 Sep 04 00:29	0∘ <b>⊽</b>			8381 Jul 24 15:11 8381 Sep 05 03:17	0° <b>©</b> 0°I	
conjunction	8376 Oct 14 08:28	27° <b>≏</b> 47'34	1°04'06		8381 Oct 19 08:35	0°N	
minimum elong	8376 Oct 14 09:20	27° <b>≏</b> 49'01	1°04'10	asc. node	8381 Nov 29 10:57	23° <b>Ω</b> 24′02	
Faith diat	8376 Oct 17 15:08	0°ጤ 13°ጤ55'00	2 (0045 ATT		8381 Dec 15 21:24	0° Mp 4° Mp 30′23	
max. Earth dist. morning rise	8376 Nov 07 12:55 8376 Dec 02 22:27	0° <b>₹</b> 28'52	2.60045 AU	retrograde	8382 Jan 10 16:36 8382 Feb 05 06:51	4°11(/30°23 30°RΩ	
	8376 Dec 02 04:34	0° <b>⊼</b> ¹		min. Earth dist.	8382 Feb 06 00:49	29° <b>Ω</b> 45'56	0.42499 AU
	8377 Jan 18 10:41	ა∘ნ		greatest brilliancy	8382 Feb 12 19:54	27° <b>Ω</b> 33'12	-2.6m
desc. node	8377 Mar 08 08:57 8377 Mar 21 17:54	0° <b>≈</b> 7° <b>≈</b> 58'42		opposition direct	8382 Feb 14 05:33 8382 Mar 17 16:44	27° <b>Ω</b> 05'31 21° <b>Ω</b> 00'33	4°34'00
desc. node	8377 Apr 29 00:11	0° <b>∺</b>		direct	8382 Apr 27 08:35	0° <b>m</b>	
	8377 Jun 28 16:32	0° <b>Y</b>			8382 Jun 26 19:32	0∘ <del>⊽</del>	
retrograde	8377 Aug 16 21:25	11° <b>Y</b> ′32'37			8382 Aug 17 08:01	0° <b>M</b>	
opposition greatest brilliancy	8377 Sep 20 10:46 8377 Sep 22 03:40	4° <b>Υ</b> 35'44 4° <b>Υ</b> 00'16		desc. node	8382 Oct 05 23:50 8382 Nov 11 11:38	0° <b>∡¹</b> 22° <b>∡¹</b> 28'21	
min. Earth dist.	8377 Sep 22 03:40 8377 Sep 29 02:38	1° <b>Υ</b> 36'54	0.49087 AU	desc. node	8382 Nov 23 13:24	22 x 2621	
	8377 Oct 04 04:00	30° <b>₹</b>		evening set	8382 Dec 20 09:24	16° <b>පි</b> 55'30	
direct	8377 Oct 28 06:26	26° <b>)</b> €04'19			8383 Jan 09 18:52	0° <b>≈</b>	
	8377 Nov 21 22:45 8378 Jan 20 02:30	0∘ <b>႘</b> 0∘ <b>Ƴ</b>		max. Earth dist.	8383 Jan 15 21:43	3°≈57'51	2.63615 AU
asc. node	8378 Feb 24 10:54	24° <b>8</b> 19'59		conjunction	8383 Feb 03 08:15	16° <b>≈</b> 01'47	-0°41'35
	8378 Mar 04 06:18	0°Щ		minimum elong	8383 Feb 03 07:09	15° <b>≈</b> 59'59	
	8378 Apr 13 12:39	0ංම			8383 Feb 24 07:41	0° <b>∺</b>	
	8378 May 23 13:12 8378 Jul 03 14:13	0° <b>Ω</b> 0° <b>m</b>		morning rise	8383 Mar 21 03:01 8383 Apr 09 00:14	16° <b>¥</b> 52'40 0° <b>Ƴ</b>	
	8378 Aug 15 06:59	0∘ <b>ত</b> میاآث			8383 May 20 22:24	0° <b>8</b>	
	8378 Sep 28 19:23	0°M₊			8383 Jun 30 09:32	0°II	
evening set	8378 Oct 07 12:25	5°M44'34			8383 Aug 08 22:18	0ංම	
	8378 Nov 13 20:40	0° <b>∡</b> ¹			8383 Sep 17 09:28	$0$ ° $\Omega$	

aga mada	8383 Oct 17 08:15	22° <b>Ω</b> 12'24			9299 Dag 26 16,54	0° <b>)</b> {	
asc. node					8388 Dec 26 16:54	0° <b>Υ</b>	
	8383 Oct 28 04:18	0° <b>m</b> )			8389 Feb 08 08:28		
	8383 Dec 12 04:38	0° <b>⊽</b>			8389 Mar 20 22:06	8°0	
retrograde	8384 Feb 28 07:14	29° <b>£</b> 34'40		_	8389 Apr 28 15:28	0°II	
min. Earth dist.	8384 Mar 31 11:18	22° <b>£</b> 34'09		evening set	8389 May 14 23:32	12° <b>∏</b> 53'36	
greatest brilliancy	8384 Apr 06 02:17	20° <b>≏</b> 23'26	-1.8m		8389 Jun 05 13:34	0ಂತಾ	
opposition	8384 Apr 07 06:33	19° <b>≏</b> 56'01	5°00'39	asc. node	8389 Jun 08 02:15	2° <b>©</b> 00'14	
direct	8384 May 13 10:54	11° <b>≏</b> 47'25			8389 Jul 13 15:39	$0$ $^{\circ}$ $\Omega$	
	8384 Jul 17 00:24	0° <b>M</b>					
	8384 Sep 12 21:28	0° <b>∡</b> ¹		conjunction	8389 Jul 24 21:13	8° <b>Ω</b> 43'15	0°32'06
desc. node	8384 Sep 28 12:19	8° <b>∡</b> ¹53'14		minimum elong	8389 Jul 24 18:16	8° <b>Ω</b> 37'33	0°31'55
	8384 Nov 03 05:21	ರ∘ರ			8389 Aug 21 18:29	O° Mp	
	8384 Dec 21 09:22	0° <b>≈</b>		max. Earth dist.	8389 Sep 15 14:50	18° <b>m</b> 25'35	2.42654 AU
evening set	8385 Jan 26 04:50	23° <b>≈</b> 27'31		morning rise	8389 Sep 29 16:34	28° Mp 36'58	
	8385 Feb 04 21:56	0° <b>∀</b>		-	8389 Oct 01 14:53	0∘ <b>⊽</b>	
max. Earth dist.	8385 Feb 11 21:39	4° <b>)</b> 45′20	2.54153 AU		8389 Nov 13 17:33	0°M	
					8389 Dec 29 13:01	0° <b>√</b>	
conjunction	8385 Mar 15 19:39	27° <b>)</b> €00'41	-1°06'07		8390 Feb 17 00:33	<b>万</b> °0	
minimum elong	8385 Mar 15 19:06	26° <b>)</b> 59'43			8390 Apr 15 22:00	0° <b>≈</b>	
minimum viong	8385 Mar 20 00:15	0°Υ	1 0007	desc. node	8390 May 21 11:01	12° <b>≈</b> 27'55	
	8385 Apr 30 00:19	0°8		retrograde	8390 Jun 13 20:47	15°≈25'32	
morning rise	8385 May 08 14:44	6° <b>8</b> 27'27		opposition	8390 Jul 22 21:00	6°≈30'31	2010/12
morning risc	8385 Jun 08 10:37	0°II			8390 Jul 22 21:00 8390 Jul 23 04:22	6°≈23'22	
		0°e		greatest brilliancy min. Earth dist.			0.64422 AU
	8385 Jul 16 23:17			min. Earth dist.	8390 Jul 27 07:25		0.04422 AU
	8385 Aug 24 10:06	0° <b>Ω</b>		11	8390 Aug 10 00:53	30°Rる	
asc. node	8385 Sep 03 05:13	7° <b>Ω</b> 33'53		direct	8390 Sep 02 08:26	26° <b>る</b> 28'29	
	8385 Oct 02 18:14	0° <b>m</b> )			8390 Sep 27 07:54	0° <b>≈</b>	
	8385 Nov 13 04:19	0∘ <b>⊽</b>			8390 Dec 02 00:12	0° <b>)</b> €	
	8385 Dec 28 17:17	0°M₊			8391 Jan 17 12:49	0° <b>Υ</b>	
	8386 Feb 24 13:14	0° <b>∡</b> ¹			8391 Feb 27 23:05	0°8	
retrograde	8386 Apr 05 16:54	8° <b>∡</b> ¹44'45			8391 Apr 07 23:49	$\Pi^{\circ}0$	
min. Earth dist.	8386 May 12 23:45	0° <b>≯</b> 00'34	0.65281 AU	asc. node	8391 Apr 26 01:43	14° <b>Ⅱ</b> 11'48	
	8386 May 13 00:18	30°RM			8391 May 16 02:58	0	
opposition	8386 May 16 02:47	28°M45'43	3°01'21		8391 Jun 23 11:52	$0$ $^{\circ}$ $\Omega$	
greatest brilliancy	8386 May 15 19:11	28°M53'18	-1.4m	evening set	8391 Jul 27 21:41	26° <b>Ω</b> 11'33	
direct	8386 Jun 24 14:11	19°M28'15			8391 Aug 02 00:10	O° Mp	
	8386 Aug 10 22:20	0° <b>∡</b> ¹			8391 Sep 12 06:57	0∘ <b>⊽</b>	
desc. node	8386 Aug 16 12:51	2° <b>҂</b> 13'17					
	8386 Oct 11 22:58	0°₹		conjunction	8391 Sep 26 06:13	9° <b>≙</b> 49'29	1°06'55
	8386 Dec 01 19:09	0° <b>≈</b>		minimum elong	8391 Sep 26 06:08	9° <b>≙</b> 49'19	1°06'56
	8387 Jan 17 00:57	0° <b>∀</b>			8391 Oct 25 15:58	0° <b>M</b> ₊	
	8387 Mar 01 01:10	$0$ $^{\circ}$ $\mathbf{\Upsilon}$		max. Earth dist.	8391 Oct 28 06:53	1°M46'00	2.55977 AU
evening set	8387 Mar 13 02:12	8° <b>Ƴ</b> 44'40		morning rise	8391 Nov 18 04:22	15°M40'51	
max. Earth dist.	8387 Mar 30 09:01	21° <b>Y</b> 32'14	2.41029 AU	, and the second	8391 Dec 10 03:35	0° <b>∡</b> ¹	
	8387 Apr 10 14:46	0°8			8392 Jan 26 16:33	6°5	
	эт э	• •			8392 Mar 16 17:07	0° <b>≈</b>	
conjunction	8387 May 11 00:51	23° <b>8</b> 22'52	-0°46'47	desc. node	8392 Apr 07 08:30	12°≈16'56	
minimum elong	8387 May 11 03:45	23° <b>8</b> 28'31		acov. nouv	8392 May 11 01:08	0° <b>∀</b>	
minimum crong	8387 May 19 12:26	0°II	0 1033	retrograde	8392 Jul 26 14:00	23° <b>)</b> 38'36	
	8387 Jun 26 14:04	0°©		opposition	8392 Aug 31 18:30	15° <b>)</b> 58'12	4°50'10
morning rise	8387 Jul 20 10:22	18°949'06		greatest brilliancy	8392 Sep 02 01:40	15° <b>X</b> 29'42	
asc. node	8387 Jul 20 10:22 8387 Jul 22 03:45	20°910'28		min. Earth dist.	8392 Sep 02 01:40 8392 Sep 08 15:06	13° <b>X</b> 2942	0.54394 AU
asc. Houe		20 <b>3</b> 1028			8392 Oct 10 07:50	6° <b>∺</b> 39'52	0.34394 AU
	8387 Aug 03 16:42			direct		0 π3932 0°Υ	
	8387 Sep 11 17:21	0° Mp			8392 Dec 17 14:10		
	8387 Oct 22 12:14	0∘ <b>亚</b>			8393 Feb 02 00:30	0° <b>8</b>	
	8387 Dec 04 23:07	0° <b>M</b> ○○ <b>7</b>		asc. node	8393 Mar 13 02:57	28° <b>8</b> 41'48	
	8388 Jan 21 13:44	0° <b>∡</b>			8393 Mar 14 20:18	0°∏	
_	8388 Mar 19 11:16	0°る			8393 Apr 23 00:28	0°©	
retrograde	8388 May 08 21:19	12° <b>ろ</b> 13'08			8393 Jun 01 06:33	$0^{\circ}\Omega$	
opposition	8388 Jun 18 05:07	2° <b>云</b> 34'34			8393 Jul 11 16:03	0° <b>т</b> р	
greatest brilliancy	8388 Jun 18 05:38	2° <b>る</b> 34'03			8393 Aug 22 19:27	0∘ <b>ত</b>	
min. Earth dist.	8388 Jun 18 21:12		0.68146 AU	evening set	8393 Sep 20 05:45	19° <b>≏</b> 29'43	
	8388 Jun 24 19:04	30°₽ <b>⋌</b>			8393 Oct 05 21:19	$0^{\circ}$ M	
desc. node	8388 Jul 03 12:41	26° <b>₹</b> 55'15					
direct	8388 Jul 29 10:52	22° <b>∡</b> ¹40'54		conjunction	8393 Nov 09 09:40	22°M42'01	0°49'46
	8388 Sep 05 16:56	0°₹		minimum elong	8393 Nov 09 10:55	22°M44'02	0°49'54
	8388 Nov 07 22:03	0° <b>≈</b>			8393 Nov 20 16:15	0° <b>∡</b> ″	

max. Earth dist.	8393 Nov 23 00:07		2.64773 AU		8398 Dec 30 14:01	0° <b>⊽</b>	
morning rise	8393 Dec 25 13:25	22° <b>∡</b> 18'16		retrograde	8399 Feb 11 09:21	11° <b>Ω</b> 05'45	0.50004.444
	8394 Jan 06 17:15	0°る		min. Earth dist.	8399 Mar 13 04:16	4° <b>£</b> 57'27	0.50934 AU
desc. node	8394 Feb 23 05:24	29° <b>る</b> 46'28		greatest brilliancy	8399 Mar 19 15:08	2° <b>£</b> 33'14	-2.1m
	8394 Feb 23 14:07	0° <b>≈</b>		opposition	8399 Mar 21 03:10	1° <b>£</b> 59'31	5°22'31
	8394 Apr 13 06:41	0° <b>ℋ</b> 0° <b>Ƴ</b>		J: 4	8399 Mar 26 15:04	30°RMp 24°m-21/25	
	8394 Jun 02 16:46	0.8 0.4		direct	8399 Apr 24 14:19	24° <b>™</b> 31'35 0° <b>≏</b>	
	8394 Jul 29 03:23				8399 May 26 05:36		
retrograde	8394 Sep 27 10:22	16° <b>8</b> 53'43	592(147		8399 Jul 31 12:10 8399 Sep 22 16:05	0° <b>M</b> 0° <b>⊀</b>	
opposition	8394 Oct 28 18:40 8394 Oct 30 07:59	11° <b>8</b> 18'41 10° <b>8</b> 50'41		4 4-	8399 Sep 22 16:05 8399 Oct 16 01:28	0° <b>×</b> ° 13° <b>×</b> <sup>7</sup> 52'17	
greatest brilliancy min. Earth dist.	8394 Nov 04 23:45	9° <b>8</b> 09'36		desc. node	8399 Nov 11 14:45	13 x・3217 0°る	
direct	8394 Nov 04 23:43 8394 Dec 01 09:21	4° <b>8</b> 45'45	0.40823 AU		8399 Nov 11 14.43 8399 Dec 29 07:36	0°≈	
asc. node	8394 Dec 01 09:21 8395 Jan 29 03:30	24° <b>8</b> 13'03		evening set	8400 Jan 11 22:54	0 ≈ 8°≈50'33	
asc. Houe	8395 Feb 08 02:51	0°II		max. Earth dist.	8400 Feb 01 03:28	8 ≈30 33 22°≈10'09	2.58452 AU
	8395 Mar 25 19:50	0ಂ <b>ತಾ</b>		max. Earth dist.	8400 Feb 12 19:12	0° <b>H</b>	2.36432 AU
	8395 May 07 11:29	0° <b>U</b>			0400 FC0 12 19.12	0 /	
	8395 Jun 19 06:30	0° <b>m</b> )		conjunction	8400 Feb 27 13:32	10° <b>₩</b> 03'50	0°50'41
	8395 Aug 02 06:12	0∘ <b>⊽</b>		minimum elong	8400 Feb 27 13:32 8400 Feb 27 12:26	10 <b>X</b> 03 30	
	8395 Sep 16 16:55	0° <b>M</b> ₊		minimum eiong	8400 Feb 27 12.26 8400 Mar 27 02:19	10 <b>χ</b> 0137	0 3937
evening set	8395 Oct 31 22:48	29°MJ06'59		morning rise	8400 Mai 27 02:19 8400 Apr 17 04:19	15° <b>Υ</b> 08'40	
evening set	8395 Nov 02 08:03	29 11 <b>c</b> 00 39 0° <b>√</b> 1		morning risc	8400 May 07 10:00	0° <b>8</b>	
	8393 INOV 02 08.03	0 <b>X</b>			8400 Jun 16 04:37	0°II	
conjunction	8395 Dec 16 14:22	28° <b>₹</b> 07'23	0013118		8400 Jul 25 00:50	0°©	
minimum elong	8395 Dec 16 14:22 8395 Dec 16 14:47	28° × 07 23 28° × 08'02	0°13'29		8400 Sep 01 18:06	0° <b>U</b>	
behind sun begin	8395 Dec 16 14:47 8395 Dec 16 04:46	27° 🖈 52'10	0 13 29	asc. node	8400 Sep 20 00:11	13° <b>Ω</b> 57'14	
behind sun end	8395 Dec 17 00:47	28° × 23'53		asc. Houc	8400 Oct 11 09:45	0°m	
max. Earth dist.	8395 Dec 17 00:47 8395 Dec 16 04:06		2.68123 AU		8400 Nov 22 12:01	0∘ <b>⊽</b>	
max. Earm dist.	8395 Dec 10 04:00 8395 Dec 19 13:22	27×3100 0°る	2.08123 AU		8401 Jan 09 10:15	0° <b>™</b>	
desc. node	8396 Jan 11 02:11	14° <b>ਠ</b> 18'41		retrograde	8401 Mar 22 20:32	24°M46'38	
morning rise	8396 Jan 29 07:16	25°る54'55		min. Earth dist.	8401 Apr 27 07:35	16°M38'27	0.62368 AU
morning risc	8396 Feb 04 16:45	23 <b>⊙</b> 3433		opposition	8401 May 01 22:30	14°M48'20	3°53'39
	8396 Mar 22 06:44	0° <b>∺</b>		greatest brilliancy	8401 May 01 07:48	15°M02'56	-1.5m
	8396 May 07 02:51	0° <b>Υ</b>		direct	8401 Jun 09 07:50	5°M52'57	-1.5111
	8396 Jun 21 06:31	0°8		uncet	8401 Aug 26 05:48	0° <b>x</b> <sup>7</sup>	
	8396 Aug 05 03:56	0°II		desc. node	8401 Sep 02 01:51	3° <b>∡</b> 123′29	
	8396 Sep 20 08:25	0°©		desc. Hode	8401 Oct 20 20:29	0° <b>る</b>	
	8396 Nov 16 19:57	0°Ω			8401 Dec 09 07:57	0°≈	
retrograde	8396 Dec 16 07:06	5° <b>Ω</b> 38'44			8402 Jan 24 04:48	0° <b>∺</b>	
asc. node	8396 Dec 16 07:06 8396 Dec 16 02:36	5° <b>Ω</b> 38'43		evening set	8402 Feb 21 17:45	19° <b>∺</b> 42'33	
min. Earth dist.	8397 Jan 11 13:20	1° <b>Ω</b> 19'30	0.38195 AU	max. Earth dist.	8402 Mar 07 17:09		2.46334 AU
mm. Lattii dist.	8397 Jan 16 03:44	30°RS	0.30173 AC	max. Lartii dist.	8402 Mar 08 04:54	29 <b>γ</b> (363 <b>4</b>	2.40334 AC
opposition	8397 Jan 17 04:17	29°542'16	2°20'17		0402 Wai 00 04.34	0 1	
greatest brilliancy	8397 Jan 17 04:17	29°952'11	-2.9m	conjunction	8402 Apr 16 13:25	28° <b>Y</b> 58'53	-1°02'22
direct	8397 Feb 15 19:33	24°931'18	-2.7111	minimum elong	8402 Apr 16 14:55	29° <b>Υ</b> 01'44	
direct	8397 Mar 18 04:30	0°Ω		minimum clong	8402 Apr 17 21:50	0°8	1 02 20
	8397 May 19 01:41	0° <b>m</b> )			8402 May 26 23:44	0°II	
	8397 Jul 08 06:57	0∘ <b>ত</b> رااا		morning rise	8402 Jun 19 03:37	18° <b>Ⅱ</b> 08'34	
	8397 Aug 25 23:41	0° <b>™</b>			8402 Jul 04 04:59	0°9	
	8397 Oct 13 09:49	0° <b>∡</b> 7		asc. node	8402 Aug 07 20:32	27° <b>©</b> 13'37	
desc. node	8397 Nov 28 01:09	28° <b>∡</b> ³30′04			8402 Aug 11 09:50	0°Ω	
desc. node	8397 Nov 30 10:18	0°ਰ			8402 Sep 19 11:46	0° <b>m</b> )	
evening set	8397 Dec 06 10:52	3°₹47'52			8402 Oct 30 09:19	0∘ <b>ಹ</b>	
max. Earth dist.	8398 Jan 06 13:54		2.65959 AU		8402 Dec 13 06:30	0° <b>M</b>	
max. Darur dist.	8398 Jan 16 12:40	0°≈	2.03737110		8403 Jan 31 15:13	0° <b>∡</b> 7	
	10 12.10	÷ : • :		retrograde	8403 Apr 26 15:11	29° <b>х</b> 40'30	
conjunction	8398 Jan 20 00:12	2°≈14'57	-0°27'15	min. Earth dist.	8403 Jun 05 07:49	20°×10'34	0.67793 AU
minimum elong	8398 Jan 19 23:25	2°≈13'41		opposition	8403 Jun 06 03:32	19° <b>х</b> 10 54	1°31'20
	8398 Mar 03 05:50	0° <b>∺</b>	3 = . 00	greatest brilliancy	8403 Jun 06 02:47	19° 🖈 50'36	-1.3m
morning rise	8398 Mar 05 10:34	1° <b>¥</b> 28'06		direct	8403 Jul 16 21:05	10° <b>₹</b> 08'30	
	8398 Apr 16 08:29	0° <b>Υ</b>		desc. node	8403 Jul 21 02:14	10° × 14'47	
	8398 May 28 20:42	0.8 0.1		acce. node	8403 Sep 23 17:43	0°ਤ	
	8398 Jul 09 00:01	0°II			8403 Nov 18 04:05	0°≈	
	8398 Aug 18 06:14	0ංම 1			8404 Jan 04 14:48	0° <b>∺</b>	
	8398 Sep 27 14:48	0° <b>U</b>			8404 Feb 16 22:06	0° <b>Υ</b>	
asc. node	8398 Nov 03 02:15	25° <b>Ω</b> 57'18			8404 Mar 28 10:38	0°8	
200. 11000	8398 Nov 09 01:44	0° <b>m</b> )		evening set	8404 Apr 17 09:00	15° <b>8</b> 18'14	
	3370 1101 07 01.74	עויי		overning sec	515171pt 17 07.00	1.5 0 10 14	

	8404 May 06 04:48 8404 Jun 13 03:26	0°© ∏°0		morning rise	8408 Nov 27 12:38 8408 Dec 11 08:47	0°⋪ 8°⋪54'08	
					8409 Jan 13 15:37	0°ರ	
conjunction	8404 Jun 24 12:55	9° <b>©</b> 01'36			8409 Mar 03 02:27	0°≈	
minimum elong behind sun begin	8404 Jun 24 12:57 8404 Jun 23 06:35	9° <b>©</b> 01'39 8° <b>©</b> 01'37	0~00.23	desc. node	8409 Mar 11 20:05	5°≈18'35 0° <b>)</b> €	
behind sun begin	8404 Jun 25 19:18	10°901'40			8409 Apr 22 09:28 8409 Jun 16 11:24	0° <b>Υ</b>	
asc. node	8404 Jun 24 18:43	9°9513'01		retrograde	8409 Aug 30 13:23	23° <b>Υ</b> 24'56	
use. Houe	8404 Jul 21 04:43	0°N		opposition	8409 Oct 03 00:04	16° <b>Υ</b> 56'13	-5°50'29
max. Earth dist.	8404 Aug 06 16:38		2.37513 AU	greatest brilliancy	8409 Oct 04 20:06	16° <b>Ƴ</b> 19'42	
	8404 Aug 29 05:30	0° <b>m</b>		min. Earth dist.	8409 Oct 11 17:12	14° <b>Y</b> 03'53	0.46021 AU
morning rise	8404 Sep 04 13:55	4°№46'16		direct	8409 Nov 08 13:42	9° <b>Y</b> ′00'52	
	8404 Oct 08 23:49	0∘ <b>⊽</b>			8410 Jan 09 10:34	$0^{\circ}$ 8	
	8404 Nov 21 02:52	$0^{\circ}$ M		asc. node	8410 Feb 14 19:30	23° <b>8</b> 08'50	
	8405 Jan 06 08:02	0° <b>∡</b>			8410 Feb 24 15:53	0° <b>Π</b>	
	8405 Feb 26 12:17	0° <b>る</b>			8410 Apr 07 00:16	0° <b>©</b>	
	8405 May 09 08:16	0°≈ 2°2 • 25!5 (			8410 May 17 15:46	0° <b>N</b>	
retrograde desc. node	8405 May 30 08:13 8405 Jun 07 02:04	2°≈25'56 2°≈03'14			8410 Jun 28 03:34 8410 Aug 10 04:52	0 <b>்⊽</b> 0° <b>மி</b>	
desc. node	8405 Jun 18 20:58	2 2 2 3 14 30°Rる			8410 Sep 23 23:31	0°M	
opposition	8405 Jul 09 00:29	23°る11'04	-1°06'33	evening set	8410 Oct 16 17:20	14°M51'32	
greatest brilliancy	8405 Jul 09 02:50	23° <b>る</b> 08'45		<i>3</i>	8410 Nov 09 04:44	0° <b>∡</b> 7	
min. Earth dist.	8405 Jul 11 23:41	22° <b>පි</b> 01'15	0.66659 AU				
direct	8405 Aug 19 14:30	13° <b>る</b> 08'26		conjunction	8410 Dec 02 15:20	14° <b>₹</b> 58'48	0°28'30
	8405 Oct 19 08:09	0° <b>≈</b>		minimum elong	8410 Dec 02 16:11	15° <b>₹</b> 00'09	0°28'41
	8405 Dec 12 06:37	0° <b>∀</b>		max. Earth dist.	8410 Dec 07 08:31	17° <b>∡</b> 58'59	2.67474 AU
	8406 Jan 26 04:46	0° <b>Υ</b>			8410 Dec 26 06:36	0° <b>ろ</b>	
	8406 Mar 08 03:36	8°0		morning rise	8411 Jan 15 21:39	13°る04'38	
1	8406 Apr 15 23:49	0° <b>П</b>		desc. node	8411 Jan 27 16:42	20° <b>る</b> 33'01	
asc. node	8406 May 12 18:52 8406 May 23 23:47	21° <b>Ⅱ</b> 08'13 0° <b>©</b>			8411 Feb 11 14:22 8411 Mar 30 19:06	0° <b>€</b>	
evening set	8406 Jun 30 10:43	0 <del>3</del> 29° <b>9</b> 24'59			8411 May 16 20:25	0°Υ	
evening sec	8406 Jul 01 04:44	0° <b>Ω</b>			8411 Jul 03 04:50	0°8	
	8406 Aug 09 11:55	0° m)			8411 Aug 21 11:49	0°П	
	C	•			8411 Oct 24 12:44	0∘ <b>©</b>	
conjunction	8406 Sep 04 09:11	19° <b>m</b> 05'19	1°02'01	retrograde	8411 Nov 16 21:45	3°522'50	
minimum elong	8406 Sep 04 07:27	19°Mp02'10	1°01'58		8411 Dec 10 14:56	30°RⅡ	
	8406 Sep 19 13:09	0∘ <b>ত</b>		opposition	8411 Dec 16 18:07	28° <b>∏</b> 24'32	
max. Earth dist.	8406 Oct 15 04:04		2.51164 AU	greatest brilliancy	8411 Dec 16 19:52	28° <b>Ⅲ</b> 23'23	
morning rise	8406 Oct 31 20:18	29° <b>Ω</b> 23'35		min. Earth dist.	8411 Dec 16 14:36		0.36594 AU
	8406 Nov 01 17:49 8406 Dec 17 05:47	0° <b>M</b> 0° <i>≯</i>		asc. node direct	8412 Jan 02 20:44 8412 Jan 15 06:01	24° <b>П</b> 30'18 23° <b>П</b> 30'26	
	8407 Feb 03 06:11	°ਨ ਨ		uncet	8412 Feb 16 18:55	0°95	
	8407 Mar 27 00:21	0° <b>≈</b>			8412 Apr 14 19:49	$0^{\circ}\Omega$	
desc. node	8407 Apr 24 23:37	15° <b>≈</b> 02'56			8412 Jun 01 10:56	0° m/y	
	8407 May 30 01:11	0° <b>)</b> €			8412 Jul 18 00:44	0∘ <b>⊽</b>	
retrograde	8407 Jul 09 02:29	7° <b>¥</b> 53'53			8412 Sep 03 00:47	$0^{\circ}$ M	
	8407 Aug 14 16:20	30°R <b>≈</b>			8412 Oct 20 13:53	0° <b>∡</b>	
opposition	8407 Aug 15 14:30	29° <b>≈</b> 39'09		evening set	8412 Nov 22 12:59	20° <b>∡</b> ¹44'46	
greatest brilliancy	8407 Aug 16 10:58		-1.7m	1 1	8412 Dec 07 04:50	0°る	
min. Earth dist.	8407 Aug 22 05:39	27°≈09'17	0.59005 AU	desc. node max. Earth dist.	8412 Dec 14 14:13	4° <b>る</b> 40'45	2.67452 AU
direct	8407 Sep 25 06:05 8407 Nov 07 07:44	19° <b>≈</b> 54'02 0° <b>米</b>		max. Earm dist.	8412 Dec 28 19:47	13 043 00	2.07432 AU
	8408 Jan 01 01:23	0° <b>Υ</b>		conjunction	8413 Jan 06 04:30	19° <b>පි</b> 03'07	-0°11'51
	8408 Feb 13 08:53	0°8		minimum elong	8413 Jan 06 04:08	19° <b>る</b> 02'33	
	8408 Mar 24 03:42	0°Щ		behind sun begin	8413 Jan 05 15:19	18° <b>る</b> 42'05	
asc. node	8408 Mar 29 18:26	4° <b>Ⅱ</b> 20′08		behind sun end	8413 Jan 06 16:57	19° <b>පි</b> 23'01	
	8408 May 01 18:01	$0$ $\circ$ $\odot$			8413 Jan 23 06:06	0° <b>≈</b>	
	8408 Jun 09 12:56	$0^{\circ}\Omega$		morning rise	8413 Feb 18 22:27	17° <b>≈</b> 18'35	
	8408 Jul 19 11:43	0° mp			8413 Mar 10 05:31	0° <b>)</b> €	
	8408 Aug 30 05:01	0∘ <b>⊽</b>			8413 Apr 23 20:54	0° <b>Υ</b>	
evening set	8408 Aug 31 22:14	1° <b>Ω</b> 12'17			8413 Jun 06 03:37	0° <b>Η</b>	
	8408 Oct 12 22:23	0° <b>M</b> .			8413 Jul 18 06:04	0°€ 0°∏	
conjunction	8408 Oct 24 05:25	7° <b>M</b> 32'15	0°59'58		8413 Aug 28 17:02 8413 Oct 09 21:03	0°Ω 0 €3	
minimum elong	8408 Oct 24 06:33	7°M34'09	1°00'04	asc. node	8413 Nov 19 19:24	26° <b>Ω</b> 27'05	
max. Earth dist.	8408 Nov 13 10:47		2.61959 AU		8413 Nov 26 00:38	0° my	

11-	9424 Mar. 29, 10-20	1000 011150			9420 E-L 02 12.50	1.00 000121	2040117
desc. node	8424 Mar 28 10:29	10°≈11'52		opposition	8429 Feb 02 13:50	16° <b>Ω</b> 09'31	3°49'16
	8424 May 02 21:35	0° <b>)</b> €		direct	8429 Mar 05 03:22	10° <b>Ω</b> 30'38	
. 1	8424 Jul 11 02:56	0° <b>Υ</b>			8429 May 07 20:41	0° <b>Т</b> р	
retrograde	8424 Aug 07 04:45	3° <b>Y</b> 57'01			8429 Jul 01 05:44	0∘ <b>⊽</b>	
*.*	8424 Sep 01 12:23	30° <b>₹</b> ₩	5010115		8429 Aug 20 07:57	0°M	
opposition	8424 Sep 11 13:13	26° <b>)</b> ₹39'31			8429 Oct 08 09:39	0° <b>₹</b>	
greatest brilliancy	8424 Sep 13 02:19	26° <b>₩</b> 06'30		desc. node	8429 Nov 18 04:01	25° <b>х</b> 16′14	
min. Earth dist.	8424 Sep 19 23:00	23° <b>)</b> € 41'00	0.51525 AU		8429 Nov 25 17:22	0°る	
direct	8424 Oct 20 06:11	17° <b>)</b> 44′18		evening set	8429 Dec 14 09:50	11° <b>る</b> 46'40	
	8424 Dec 05 13:30	0° <b>Υ</b>			8430 Jan 11 21:54	0° <b>≈</b>	
_	8425 Jan 25 13:02	0°8		max. Earth dist.	8430 Jan 11 21:30	29° <b>ර</b> 59'22	2.64758 AU
asc. node	8425 Mar 03 12:12	26° <b>8</b> 18'21					
	8425 Mar 08 11:44	0°Щ		conjunction	8430 Jan 28 02:59	10° <b>≈</b> 31'41	
	8425 Apr 17 04:47	0ංම		minimum elong	8430 Jan 28 02:00	10° <b>≈</b> 30'04	0°35'39
	8425 May 26 19:37	$0^{\circ}\Omega$			8430 Feb 26 13:27	0° <b>∀</b>	
	8425 Jul 06 11:57	0° <b>m</b> ∕		morning rise	8430 Mar 14 05:11	10° <b>)</b> 33'41	
	8425 Aug 17 21:12	0∘ <b>⊽</b>			8430 Apr 11 11:07	$0^{\circ}\mathbf{\Upsilon}$	
evening set	8425 Sep 30 06:49	29° <b>≏</b> 25'54			8430 May 23 16:08	$9^{\circ}$ 8	
	8425 Oct 01 03:20	0° <b>M</b>			8430 Jul 03 10:32	$\Pi$ $^{\circ}0$	
	8425 Nov 16 00:45	0° <b>∡</b> 7			8430 Aug 12 06:43	0	
					8430 Sep 21 01:38	$0 {\circ} \Omega$	
conjunction	8425 Nov 18 02:24	1° <b>∡</b> 19'57	0°42'29	asc. node	8430 Oct 24 10:38	24° <b>Ω</b> 24'33	
minimum elong	8425 Nov 18 03:33	1° <b>∡</b> "21'49	0°42'38		8430 Nov 01 08:51	0° <b>m</b>	
max. Earth dist.	8425 Nov 28 09:52	7° <b>҂</b> 757′20	2.65958 AU		8430 Dec 18 00:39	0∘ <b>ত</b>	
morning rise	8426 Jan 02 10:29	0° <b>る</b> 14'59		retrograde	8431 Feb 21 05:04	22° <b>ჲ</b> 23'23	
	8426 Jan 02 01:01	ರ∘ರ		min. Earth dist.	8431 Mar 24 08:10	15° <b>≏</b> 45'56	0.53824 AU
desc. node	8426 Feb 13 06:33	26° <b>る</b> 36'50		greatest brilliancy	8431 Mar 30 09:12	13° <b>≏</b> 27'35	-1.9m
	8426 Feb 18 16:02	0° <b>≈</b>		opposition	8431 Mar 31 17:18	12° <b>£</b> 56'53	5°13'20
	8426 Apr 07 17:16	0° <b>∀</b>		direct	8431 May 06 04:11	5° <b>ഫ</b> 05'29	
	8426 May 26 14:22	$0^{\circ}$ $\Upsilon$			8431 Jul 23 08:47	0°M	
	8426 Jul 17 02:29	0°B			8431 Sep 16 21:31	0° <b>∡</b> ¹	
	8426 Sep 23 18:17	$\Pi$ $^{\circ}0$		desc. node	8431 Oct 06 04:26	11° <b>∡</b> 11'30	
retrograde	8426 Oct 14 21:50	2° <b>Ⅲ</b> 39'44			8431 Nov 06 14:41	0°ප	
	8426 Nov 04 22:37	30° <b>₹</b> 8			8431 Dec 24 14:35	0° <b>≈</b>	
opposition	8426 Nov 14 08:30	27° <b>8</b> 30'24	-4°29'33	evening set	8432 Jan 20 12:18	17° <b>≈</b> 31'33	
greatest brilliancy	8426 Nov 15 09:29	27° <b>8</b> 12'51	-2.9m	max. Earth dist.	8432 Feb 07 15:45	29° <b>≈</b> 39'23	2.56162 AU
min. Earth dist.	8426 Nov 19 14:51	26° <b>8</b> 02'10	0.38535 AU		8432 Feb 08 03:58	0° <b>∀</b>	
direct	8426 Dec 16 01:47	21° <b>8</b> 44'55					
asc. node	8427 Jan 19 11:51	29° <b>8</b> 13'25		conjunction	8432 Mar 08 03:08	19° <b>)</b> 55'49	-1°04'04
	8427 Jan 21 09:39	0°II		minimum elong	8432 Mar 08 02:17	19° <b>)</b> 54'19	1°04'01
	8427 Mar 16 10:15	0° <b>©</b>			8432 Mar 22 09:26	0° <b>Υ</b>	
	8427 Apr 30 06:16	$0^{\circ}\Omega$		morning rise	8432 Apr 28 21:04	27° <b>Υ</b> 15'10	
	8427 Jun 13 03:47	0° m/		3 2	8432 May 02 13:48	0°8	
	8427 Jul 27 19:57	0∘ <u>v</u>			8432 Jun 11 04:09	0°II	
	8427 Sep 11 17:08	0° <b>M</b>			8432 Jul 19 20:12	0ಂತಾ	
	8427 Oct 28 14:43	0° <b>∡</b> ¹			8432 Aug 27 09:21	$0^{\circ}\Omega$	
evening set	8427 Nov 09 07:31	7° <b>∡</b> ¹25'34		asc. node	8432 Sep 10 06:58	10° <b>Ω</b> 42'06	
S	8427 Dec 14 22:35	0°ರ			8432 Oct 05 19:18	O° mp	
max. Earth dist.	8427 Dec 21 05:52		2.68112 AU		8432 Nov 16 09:36	0∘ <u>⊽</u>	
					8433 Jan 01 14:22	0°M	
conjunction	8427 Dec 24 11:32	6° <b>る</b> 03'07	0°04'05		8433 Mar 07 03:56	0° <b>∡</b> 7	
minimum elong	8427 Dec 24 11:39	6° <b>පි</b> 03'18	0°04'17	retrograde	8433 Mar 30 19:59	3° <b>≯</b> 22'36	
behind sun begin	8427 Dec 23 17:43	5° <b>る</b> 34'51		22.2.8.2.2.2	8433 Apr 22 02:18	30°RM	
behind sun end	8427 Dec 25 05:35	6° <b>る</b> 31'46		min. Earth dist.	8433 May 06 08:19	24°M54'02	0.64110 AU
desc. node	8428 Jan 01 04:23	10°る56'49		opposition	8433 May 10 03:42	23°M23'08	3°23'51
dese. Hode	8428 Jan 31 00:42	0° <b>≈</b>		greatest brilliancy	8433 May 09 17:14	23°M33'32	-1.5m
morning rise	8428 Feb 06 01:47	3°≈52'51		direct	8433 Jun 18 04:46	14° <b>M</b> .14'51	1.5111
	8428 Mar 17 08:59	0° <b>∺</b>			8433 Aug 17 04:07	0°×7	
	8428 May 01 17:33	0° <b>Υ</b>		desc. node	8433 Aug 23 05:06	0 <b>x</b> ⁴ 2° <b>x</b> ⁴41'20	
	8428 Jun 15 02:25	0°8		acce. node	8433 Oct 15 00:07	2 x 41 20 0°る	
	8428 Jul 28 17:10	0°I			8433 Dec 04 06:50	0°≈	
		0°©				0 <b>≈</b> 0° <b>∀</b>	
	8428 Sep 10 10:25 8428 Oct 27 10:59	0° <b>U</b>			8434 Jan 19 10:16 8434 Mar 03 11:48	0° <b>π</b> 0° <b>Υ</b>	
asc. node		0° <b>δι</b> 18° <b>Ω</b> 46'44		avaning set		0° <b>Υ</b> 37'55	
retrograde	8428 Dec 06 12:32 8428 Dec 31 06:02	22°Ω54'34		evening set max. Earth dist.	8434 Mar 04 08:55 8434 Mar 19 02:47	11° <b>Υ</b> 20'34	2.43390 AU
min. Earth dist.	8428 Dec 31 06:02 8429 Jan 26 03:37	$18^{\circ}\Omega 26'54$	0.40339 AU	max. Earth tist.		0° <b>8</b>	4.43370 AU
greatest brilliancy	8429 Jan 26 03:37 8429 Feb 01 11:06	18° <b>31</b> 26'54 16° <b>Ω</b> 30'16			8434 Apr 13 04:01	υ <b>Ο</b>	
greatest oriniancy	072/100 U1 11.00	10 0630 10	-2.0III				

conjunction	8434 Apr 29 20:14	12° <b>8</b> 42'17	-0°55'01	desc. node	8439 Apr 15 01:13	13° <b>≈</b> 58'25	
minimum elong	8434 Apr 29 22:39	12° <b>8</b> 46'55		desc. node	8439 May 17 10:52	0° <b>∺</b>	
minimum ciong	8434 May 22 04:05	0°Ⅱ	0 33 00	retrograde	8439 Jul 19 06:08	17° <b>₩</b> 07'15	
	8434 Jun 29 07:22	0.© ○ H		opposition	8439 Aug 25 02:23	9° <b>H</b> 10'22	-4°25'44
morning rise	8434 Jul 06 10:54	5° <b>©</b> 38'34		greatest brilliancy	8439 Aug 26 04:47	8° <b>)</b> 45'51	
asc. node	8434 Jul 29 05:26	23°534'28		min. Earth dist.	8439 Sep 01 10:57	6°¥26'59	
use. Houe	8434 Aug 06 10:30	0°Ω		mm. Darm dist.	8439 Sep 26 21:01	30°R≈	0.50507 110
	8434 Sep 14 10:31	0° mp		direct	8439 Oct 04 05:38	29° <b>≈</b> 38'01	
	8434 Oct 25 04:51	0∘ <b>⊽</b>			8439 Oct 11 17:43	0° <b>∀</b>	
	8434 Dec 07 17:22	0°M			8439 Dec 24 06:01	0° <b>Υ</b>	
	8435 Jan 24 19:47	0° <b>⊼</b>			8440 Feb 07 02:32	0°8	
	8435 Mar 27 12:49	ි ව°0			8440 Mar 18 10:21	0°II	
retrograde	8435 May 04 04:43	7° <b>る</b> 23'26		asc. node	8440 Mar 20 04:10	1° <b>Ⅱ</b> 19'55	
	8435 Jun 07 16:42	30°R <b>✓</b>			8440 Apr 26 07:31	0°©	
opposition	8435 Jun 13 15:46	27° <b>₹</b> 39'27	0°56'29		8440 Jun 04 07:36	0°N	
greatest brilliancy	8435 Jun 13 16:02	27° <b>×</b> <sup>7</sup> 39'11	-1.3m		8440 Jul 14 10:49	0° m)	
min. Earth dist.	8435 Jun 13 15:40	27° <b>∡</b> ³39'33	0.68123 AU		8440 Aug 25 08:14	0∘ <del>⊽</del>	
desc. node	8435 Jul 11 05:21	18° <b>₹</b> '58'57	***************************************	evening set	8440 Sep 12 03:58	12° <b>≏</b> 21'09	
direct	8435 Jul 24 17:25	17° <b>∡</b> 750′20		evening see	8440 Oct 08 04:54	0°M	
	8435 Sep 13 22:30	0°る			0.10 000 00 01.01	· 110	
	8435 Nov 12 04:14	0° <b>≈</b>		conjunction	8440 Nov 02 14:34	16° <b>M</b> 49'17	0°54'26
	8435 Dec 30 10:24	0° <b>∀</b>		minimum elong	8440 Nov 02 15:49	16°M51'20	0°54'33
	8436 Feb 11 23:47	0°Υ		max. Earth dist.	8440 Nov 19 03:28	27°M35'46	2.63618 AU
	8436 Mar 23 14:11	0°8		man. Darin digi.	8440 Nov 22 20:39	0° <b>₹</b>	2.03010110
	8436 May 01 08:30	0°II		morning rise	8440 Dec 19 13:37	17° <b>×</b> 707'26	
evening set	8436 May 02 10:59	0° <b>П</b> 52'01		morning 113¢	8441 Jan 08 21:28	0°ਰ	
e venning see	8436 Jun 08 06:59	0.2 25201			8441 Feb 25 23:23	0° <b>≈</b>	
asc. node	8436 Jun 15 04:06	5° <b>5</b> 27'04		desc. node	8441 Mar 01 22:11	2° <b>≈</b> 26'14	
					8441 Apr 16 06:12	0° <b>∀</b>	
conjunction	8436 Jul 11 17:57	26°524'14	0°18'54		8441 Jun 07 05:28	0° <b>Υ</b>	
minimum elong	8436 Jul 11 15:57	26°\$20'19	0°18'41		8441 Aug 10 09:30	0°8	
8	8436 Jul 16 08:17	$0^{\circ}\Omega$		retrograde	8441 Sep 14 16:32	6° <b>8</b> 34'14	
	8436 Aug 24 09:07	0° mp		opposition	8441 Oct 16 22:25	0° <b>8</b> 35'16	-5°46'16
max. Earth dist.	8436 Sep 02 09:20	6° Mp 45'35	2.40179 AU	·FF	8441 Oct 18 19:08	30°RƳ	
morning rise	8436 Sep 19 05:49	19° <b>m</b> 12'50	201,9110	greatest brilliancy	8441 Oct 18 17:01	0° <b>8</b> 01'40	-2.5m
	8436 Oct 04 03:07	0∘ <b>⊽</b>		min. Earth dist.	8441 Oct 25 01:57	28° <b>Y</b> ′02'01	0.43045 AU
	8436 Nov 16 04:02	0°M		direct	8441 Nov 20 23:11	23° <b>Y</b> °23'15	
	8437 Jan 01 01:10	0° <b>⊼</b>			8441 Dec 22 23:13	0°8	
	8437 Feb 20 00:47	ි ව°0		asc. node	8442 Feb 05 05:05	23° <b>8</b> 16'17	
	8437 Apr 22 01:53	0° <b>≈</b>			8442 Feb 15 15:59	0°II	
desc. node	8437 May 28 04:05	9° <b>≈</b> 40'22			8442 Mar 30 21:17	0° <b>©</b>	
retrograde	8437 Jun 07 12:02	10° <b>≈</b> 17'43			8442 May 11 11:06	0°N	
opposition	8437 Jul 16 20:34	1°≈13'07	-1°43'35		8442 Jun 22 13:25	0° m)	
greatest brilliancy	8437 Jul 17 01:26	1°≈08'23			8442 Aug 05 01:02	0∘ <mark>ರ</mark>	
8	8437 Jul 19 23:33	30°Rる			8442 Sep 19 03:01	0°M₊	
min. Earth dist.	8437 Jul 20 15:16	29° <b>る</b> 44'45	0.65555 AU	evening set	8442 Oct 25 12:22	23°M34'45	
direct	8437 Aug 27 10:40	21° <b>る</b> 10'05		<b>3</b>	8442 Nov 04 12:49	0° <b>⊼</b> ¹	
	8437 Oct 07 22:30	0° <b>≈</b>					
	8437 Dec 05 20:50	0° <b>)</b> €		conjunction	8442 Dec 10 15:49	23° <b>∡</b> ′00′38	0°19'43
	8438 Jan 20 16:46	0° <b>Υ</b>		minimum elong	8442 Dec 10 16:24	23° <b>х</b> <sup>7</sup> 01'34	0°19'54
	8438 Mar 02 22:59	0°8		max. Earth dist.	8442 Dec 12 11:14	24° <b>₹</b> 09'33	2.67938 AU
	8438 Apr 10 22:04	0°II			8442 Dec 21 16:03	0°ප	-
asc. node	8438 May 03 03:18	17° <b>Ⅱ</b> 28'54		desc. node	8443 Jan 17 18:57	17° <b>る</b> 12'54	
	8438 May 18 23:43	0°€		morning rise	8443 Jan 23 13:24	20° <b>ප්</b> 52'51	
	8438 Jun 26 06:19	$0^{\circ}\Omega$		<b>U</b>	8443 Feb 06 21:17	0° <b>≈</b>	
evening set	8438 Jul 16 07:32	15° <b>Ω</b> 25'09			8443 Mar 25 17:36	0° <b>∀</b>	
<i>3</i> - 1 - 1	8438 Aug 04 15:15	0° m/			8443 May 11 01:35	0° <b>Υ</b>	
	8438 Sep 14 18:17	0∘ <b>⊽</b>			8443 Jun 26 01:31	0°8	
	·r				8443 Aug 11 09:58	0°II	
conjunction	8438 Sep 17 03:47	1° <b>≏</b> 42'10	1°05'56		8443 Sep 30 02:32	0°99	
minimum elong	8438 Sep 17 03:03	1° <b>Ω</b> 40'51	1°05'56	retrograde	8443 Dec 04 12:58	22° <b>©</b> 09'11	
max. Earth dist.	8438 Oct 22 22:53	26° <b>£</b> 34'43	2.53910 AU	asc. node	8443 Dec 24 04:17	19°5641'31	
	8438 Oct 27 23:51	0°M		min. Earth dist.	8443 Dec 31 20:45	17°543'12	0.37055 AU
morning rise	8438 Nov 10 22:41	9°M22'08		opposition	8444 Jan 04 07:53	16°5946'09	0°51'18
	8438 Dec 12 10:02	0° <b>√</b>		greatest brilliancy	8444 Jan 04 04:21	16°9548'35	-3.0m
	8439 Jan 29 01:54	%ਰ		direct	8444 Feb 02 15:19	11°950'06	J.V.11
	8439 Mar 20 16:18	0°≈		311001	8444 Apr 02 01:13	0°Ω	
	5.55 Mai 20 10.10	Ų . <b>Ų</b> .			5pr 02 01.15	~ UC	

	044434 24 14 45	00 <b>m</b> .			0440 M 20 15 40	οοπ	
	8444 May 24 14:45	0° <b>m</b> )			8449 May 29 15:48	0° <b>П</b>	
	8444 Jul 11 21:31	0∘ <b>亚</b>		morning rise	8449 Jun 06 10:27	6° <b>Ⅱ</b> 03'17	
	8444 Aug 28 17:48	0° <b>M</b> 0°. <b>₹</b>		1	8449 Jul 06 23:15	0°©	
	8444 Oct 15 17:42	0° <b>∡</b> 7		asc. node	8449 Aug 14 22:24	0° <b>Ω</b> 33'23	
evening set	8444 Nov 30 12:03	28° <b>₹</b> 41'44			8449 Aug 14 05:15	0°N	
	8444 Dec 02 13:43	0°る		greatest brilliancy	8449 Aug 27 21:03	10° <b>Ω</b> 35'41	1.2m
desc. node	8444 Dec 04 17:21	1°る21'26	0.66806.444		8449 Sep 22 07:20	0° <b>т</b> )	
max. Earth dist.	8445 Jan 02 22:18	19° <b>6</b> 53'59	2.66736 AU		8449 Nov 02 05:22	0∘ <b>亚</b>	
					8449 Dec 16 07:06	0°M	
conjunction	8445 Jan 14 00:54	27° <b>る</b> 01'09		_	8450 Feb 04 15:49	0° <b>∡</b>	
minimum elong	8445 Jan 14 00:18	27° <b>る</b> 00'11	0°20'45	retrograde	8450 Apr 20 23:26	24° <b>₹</b> 44'54	
	8445 Jan 18 16:00	0° <b>≈</b>		min. Earth dist.	8450 May 30 01:13	15° <b>₹</b> 27'14	
morning rise	8445 Feb 27 02:15	25° <b>≈</b> 44'07		opposition	8450 May 31 12:58		1°55'30
	8445 Mar 05 12:38	0° <b>∀</b>		greatest brilliancy	8450 May 31 10:53	14° <b>≯</b> 53'43	-1.3m
	8445 Apr 18 21:27	$0^{\circ}$ Y		direct	8450 Jul 10 23:53	5° <b>≯</b> 15'21	
	8445 May 31 18:11	0°B		desc. node	8450 Jul 27 18:11	6° <b>∡</b> °49'51	
	8445 Jul 12 07:15	$\Pi^{\circ}0$			8450 Sep 28 01:28	0°ಕ	
	8445 Aug 22 00:34	$0$ $\circ$ $\odot$			8450 Nov 21 00:04	0° <b>≈</b>	
	8445 Oct 01 23:40	$0^{\circ}\Omega$			8451 Jan 07 03:54	0° <b>ℋ</b>	
asc. node	8445 Nov 10 03:59	27° <b>Ω</b> 03'52			8451 Feb 19 10:41	$0^{\circ}\Upsilon$	
	8445 Nov 14 17:16	0° mp			8451 Apr 01 00:50	0°8	
	8446 Jan 15 04:52	0∘ <b>ত</b>		evening set	8451 Apr 07 10:18	4° <b>8</b> 51'59	
retrograde	8446 Feb 03 08:21	2° <b>≏</b> 32'54			8451 May 09 20:39	$\Pi$ $^{\circ}0$	
	8446 Feb 21 22:48	30°R, M⊅		max. Earth dist.	8451 Jun 06 03:55	21° <b>∏</b> 32′24	2.36603 AU
min. Earth dist.	8446 Mar 04 01:42	26° Mp49′33	0.48495 AU				
greatest brilliancy	8446 Mar 10 18:47	24° <b>m</b> 23'33	-2.2m	conjunction	8451 Jun 12 03:58	26° <b>Ⅱ</b> 17'45	-0°14'52
opposition	8446 Mar 12 08:59	23° Mp 48'44	5°23'23	minimum elong	8451 Jun 12 05:33	26° <b>Ⅱ</b> 20'54	0°15'02
direct	8446 Apr 14 23:51	16° Mp 42'25		behind sun begin	8451 Jun 11 18:17	25° <b>Ⅱ</b> 58'35	
	8446 Jun 06 04:57	0∘ <b>ऌ</b>		behind sun end	8451 Jun 12 16:49	26° <b>Ⅱ</b> 43'12	
	8446 Aug 04 10:17	0° <b>M</b> ₊			8451 Jun 16 20:09	0°€	
	8446 Sep 25 09:12	0° <b>∡</b> ¹		asc. node	8451 Jul 02 19:56	12° <b>©</b> 39'17	
desc. node	8446 Oct 22 17:28	16° <b>∡</b> ¹25'05			8451 Jul 24 21:17	$0^{\circ}\Omega$	
	8446 Nov 13 21:46	6°0		morning rise	8451 Aug 24 05:43	23° <b>Ω</b> 27'15	
	8446 Dec 31 11:58	0° <b>≈</b>			8451 Sep 01 20:43	0° <b>m</b>	
evening set	8447 Jan 05 16:00	3° <b>≈</b> 20'09			8451 Oct 12 13:08	0∘ <b>⊽</b>	
max. Earth dist.	8447 Jan 27 12:14	17° <b>≈</b> 37'22	2.60139 AU		8451 Nov 24 15:26	0°M	
	8447 Feb 15 01:08	0° <b>∀</b>			8452 Jan 10 00:20	0° <b>∡</b> ¹	
					8452 Mar 02 02:20	8°0	
conjunction	8447 Feb 20 15:02	3° <b>)</b> 46′23	-0°55'40	retrograde	8452 May 24 08:34	27°る32'00	
minimum elong	8447 Feb 20 13:51	3° <b>)</b> 44'24	0°55'34	desc. node	8452 Jun 13 18:21	24° <b>る</b> 52'37	
Č	8447 Mar 30 12:00	$_0$ ° $\boldsymbol{\gamma}$		opposition	8452 Jul 03 07:04	18° <b>る</b> 09'22	-0°40'37
morning rise	8447 Apr 09 20:34	7° <b>Y</b> 21′35		greatest brilliancy	8452 Jul 03 08:08	18° <b>る</b> 08'20	-1.3m
	8447 May 11 00:47	0°8		min. Earth dist.	8452 Jul 05 14:21	17° <b>る</b> 15'02	
	8447 Jun 20 00:26	0°II		direct	8452 Aug 13 20:58	8° <b>පි</b> 08'18	
	8447 Jul 29 00:58	0ංම			8452 Oct 24 07:24	0° <b>≈</b>	
	8447 Sep 05 21:52	$0^{\circ}\Omega$			8452 Dec 15 11:37	0° <b>)</b> €	
asc. node	8447 Sep 28 02:11	16° <b>£</b> 52′02			8453 Jan 29 01:49	$0^{\circ}\Upsilon$	
	8447 Oct 15 17:25	0°m			8453 Mar 10 23:12	0° <b>႘</b>	
	8447 Nov 27 04:49	0∘ <u>⊽</u>			8453 Apr 18 19:06	0°Щ	
	8448 Jan 15 18:31	0° <b>M</b>		asc. node	8453 May 19 20:06	24° <b>Ⅱ</b> 30'54	
retrograde	8448 Mar 16 16:29	18°M.54'36			8453 May 26 18:18	0°ಅ	
min. Earth dist.	8448 Apr 20 06:23	11°ML04'43	0.60762 AU	evening set	8453 Jun 17 13:20	17° <b>©</b> 12'22	
opposition	8448 Apr 25 13:28	8°M59'15		greatest brilliancy	8453 Jun 20 05:42	19°9518'52	1.2m
greatest brilliancy	8448 Apr 24 19:08	9°ML17'21	-1.6m	8	8453 Jul 03 21:36	$0^{\circ}\Omega$	
direct	8448 Jun 02 09:49	0°ML15'37	1.0111		8453 Aug 12 02:02	0° <b>m</b> )	
	8448 Aug 30 08:33	0° <b>∡</b> 7			0.001148 12 02.02	v .y	
desc. node	8448 Sep 08 17:52	4° <b>х</b> 53′23		conjunction	8453 Aug 24 18:13	9° <b>m</b> 27′00	0°56'48
dese. Hode	8448 Oct 23 13:15	0°る		minimum elong	8453 Aug 24 15:43	9° m/22'23	0°56'42
	8448 Dec 11 16:22	0°≈		manniam ciong	8453 Sep 21 23:57	0° <b>∵</b>	J JJ 72
	8449 Jan 26 12:24	0° <b>∺</b>		max. Earth dist.	8453 Oct 08 12:51	0 <b>=</b> 11° <b>£</b> 42'21	2.48813 AU
evening set	8449 Feb 14 00:58	12° <b>∺</b> 40'58		morning rise	8453 Oct 08 12:31 8453 Oct 23 16:13	22° <b>£</b> 12'55	2.10013 AU
max. Earth dist.	8449 Feb 28 05:36	12 <b>★</b> 40 38 22° <b>★</b> 37'05	2.48703 AU	morning 1130	8453 Nov 04 01:53	0°M	
max. Darui Uist.	8449 Mar 10 14:32	22 <b>π</b> 3703	2.70/03 AU		8453 Dec 19 13:14	0°11℃ 0° <b>√</b> 7	
	0777 IVIGI 10 14.32	V I			8454 Feb 05 18:45	್ತು 0°ವ	
conjunction	8449 Apr 07 00:48	19° <b>Ƴ</b> 59'18	-1°05'25		8454 Mar 30 11:34	0°≈	
minimum elong	8449 Apr 07 01:37	19 <b>γ</b> 39 18 20° <b>γ</b> 00'49		desc. node	8454 May 01 16:15	0 ≈ 15°≈48'34	
mmmum eiong	8449 Apr 07 01:37 8449 Apr 20 10:48	20° <b>∀</b> 0049	1 00 37	uese. Houe	8454 Jun 12 03:21	0° <b>\</b>	
	0449 Apr 20 10.48	v O			0454 Juli 12 US.21	υ <b>/</b> (	

retrograde	8454 Jul 01 18:49	2° <b>升</b> 07'54			8459 Sep 06 14:42	0° <b>M</b>	
C	8454 Jul 20 04:33	30° <b>R</b> ≈			8459 Oct 23 20:01	0° <b>∡</b> ¹	
opposition	8454 Aug 08 19:25	23°≈40'03	-3°24'20	evening set	8459 Nov 17 12:22	15° <b>∡</b> ³35'17	
greatest brilliancy	8454 Aug 09 11:39	23° <b>≈</b> 24'35	-1.6m		8459 Dec 10 07:35	0°ರ	
min. Earth dist.	8454 Aug 14 20:09	21° <b>≈</b> 22'28	0.60797 AU	desc. node	8459 Dec 22 06:46	7° <b>る</b> 35'03	
direct	8454 Sep 18 19:36	13° <b>≈</b> 47'45		max. Earth dist.	8459 Dec 26 06:59	10° <b>ට</b> 07'47	2.67862 AU
	8454 Nov 14 18:55	0° <b>)</b> €					
	8455 Jan 05 02:39	$0$ ° $\mathbf{\gamma}$		conjunction	8460 Jan 01 07:46	13° <b>ප</b> 58'01	-0°05'19
	8455 Feb 16 19:36	$9^{\circ}$ 8		minimum elong	8460 Jan 01 07:35	13° <b>る</b> 57'44	0°05'07
	8455 Mar 28 08:53	$\Pi^{\circ}0$		behind sun begin	8459 Dec 31 13:58	13° <b>る</b> 29'42	
asc. node	8455 Apr 06 19:43	7° <b>Ⅱ</b> 20'34		behind sun end	8460 Jan 02 01:13	14° <b>පි</b> 25'46	
	8455 May 05 19:16	0ංම			8460 Jan 26 09:33	0° <b>≈</b>	
	8455 Jun 13 10:08	$0^{\circ}\Omega$		morning rise	8460 Feb 13 22:26	11° <b>≈</b> 57'50	
	8455 Jul 23 04:10	0° <b>m</b> ∕			8460 Mar 12 13:13	0° <b>ℋ</b>	
evening set	8455 Aug 23 17:27	22° <b>m</b> 55'58			8460 Apr 26 12:27	$0$ ° $\mathbf{\Upsilon}$	
	8455 Sep 02 16:25	0∘ <b>ত</b>			8460 Jun 09 06:26	$9^{\circ}$ 8	
	8455 Oct 16 05:24	0°M			8460 Jul 21 23:28	$\Pi$ $^{\circ}0$	
					8460 Sep 02 05:48	0°€	
conjunction	8455 Oct 17 18:27	1°ML02'19	1°03'07		8460 Oct 15 19:42	$0$ $\circ$ $\Omega$	
minimum elong	8455 Oct 17 19:25	1°ML03'58	1°03'12	asc. node	8460 Nov 26 21:33	24° <b>Ω</b> 59'13	
max. Earth dist.	8455 Nov 10 05:43	16°MJ38'45	2.60435 AU		8460 Dec 07 15:45	0° <b>m</b>	
	8455 Nov 30 16:59	0° <b>∡</b> ¹		retrograde	8461 Jan 13 14:45	8° <b>m</b> 45'54	
morning rise	8455 Dec 06 01:01	3° <b>∡</b> ¹26'38		min. Earth dist.	8461 Feb 09 04:50	3° <b>m</b> 55′27	0.43042 AU
	8456 Jan 16 20:45	0°ප		greatest brilliancy	8461 Feb 15 23:23	1° <b>m</b> 41'09	-2.6m
	8456 Mar 05 14:52	0° <b>≈</b>		opposition	8461 Feb 17 10:28	1° Mp 11'50	4°45'55
desc. node	8456 Mar 18 12:26	7° <b>≈</b> 44'28			8461 Feb 21 02:12	$30^\circ$ R $\Omega$	
	8456 Apr 25 19:26	0° <b>ℋ</b>		direct	8461 Mar 21 02:51	25° <b>Ω</b> 00'34	
	8456 Jun 23 08:53	$0$ ° $\mathbf{\gamma}$			8461 Apr 19 10:10	O° <b>m</b> y	
retrograde	8456 Aug 19 21:14	15° <b>Y</b> 02'30			8461 Jun 23 06:36	0∘ <b>⊽</b>	
opposition	8456 Sep 23 05:17	8° <b>Ƴ</b> 10′56			8461 Aug 14 09:27	0°M₊	
greatest brilliancy	8456 Sep 24 23:22	7° <b>Ƴ</b> 34'47			8461 Oct 03 06:42	0° <b>∡</b>	
min. Earth dist.	8456 Oct 01 22:46		0.48496 AU	desc. node	8461 Nov 08 06:08	22° <b>∡</b> 05'26	
	8456 Oct 24 23:45	30° <b>₹</b>			8461 Nov 20 23:22	0° <b>ろ</b>	
direct	8456 Oct 30 21:00	29° <b>)</b> (45'26		evening set	8461 Dec 22 10:05	19° <b>る</b> 49'15	
	8456 Nov 05 19:03	0° <b>Υ</b>			8462 Jan 07 07:17	0° <b>≈</b>	
	8457 Jan 16 16:06	0° <b>8</b>		max. Earth dist.	8462 Jan 17 09:50	6°≈32'42	2.63341 AU
asc. node	8457 Feb 21 20:16	24° <b>8</b> 29'03			0460 5 1 05 10 00	100 00101	00.42140
	8457 Mar 01 12:21	0° <b>Ⅱ</b>		conjunction	8462 Feb 05 10:03	19°≈00'21	
	8457 Apr 10 23:58	0°©		minimum elong	8462 Feb 05 08:56	18°≈58'30	0°43'41
	8457 May 21 02:23	0° <b>N</b>			8462 Feb 21 22:08	0° <b>)</b> 20° <b>)</b> € 02105	
	8457 Jul 01 03:46	0° <b>™</b>		morning rise	8462 Mar 23 08:54	20° <b>米</b> 03'05 0° <b>Ƴ</b>	
	8457 Aug 12 20:12	0∘ <b>亚</b>			8462 Apr 06 16:08		
avanina aat	8457 Sep 26 08:03 8457 Oct 09 20:06	0° <b>ጤ</b> 8° <b>ጤ</b> 53'28			8462 May 18 15:07 8462 Jun 28 02:17	0°B 0°B	
evening set	8457 Nov 11 08:50	0° <b>√</b>			8462 Aug 06 14:10	0°©	
	643 / NOV 11 U6.30	0 <b>x</b> .			•	0° <b>U</b>	
conjunction	8457 Nov 26 12:06	9° <b>⊀</b> 42'23	0°34'31	asc. node	8462 Sep 14 23:00 8462 Oct 14 18:38	22° <b>Ω</b> 13'10	
minimum elong	8457 Nov 26 12:06 8457 Nov 26 13:06	9° <b>х</b> 42 23	0°34'40	asc. nouc	8462 Oct 25 12:19	0° m	
max. Earth dist.	8457 Dec 03 14:42	9 <b>x</b> 43 38 14° <b>x</b> 14'48	2.66910 AU		8462 Dec 08 20:43	0° <b>ت</b> رازا	
Larui dist.	8457 Dec 28 09:23	0°중	2.00/10/10		8463 Feb 09 12:19	0° <b>m</b> .	
morning rise	8458 Jan 10 04:13	8° <b>ರ</b> 05'51		retrograde	8463 Mar 02 11:56	2°M53'27	
desc. node	8458 Feb 03 09:12	23° <b>る</b> 24'05		retrograde	8463 Mar 22 14:18	30° <b>R≏</b>	
	8458 Feb 13 20:01	0° <b>≈</b>		min. Earth dist.	8463 Apr 03 21:59	25° <b>≏</b> 48'28	0.56526 AU
	8458 Apr 02 09:01	0° <b>)</b> €		greatest brilliancy	8463 Apr 09 11:29	23° <b>₽</b> 39'02	-1.8m
	8458 May 20 03:19	0° <b>Υ</b>		opposition	8463 Apr 10 14:45	23° <b>⊆</b> 12'35	4°56'11
	8458 Jul 07 22:27	0°8		direct	8463 May 17 00:19	15° <b>⊆</b> 00'14	
	8458 Aug 30 04:01	0°II			8463 Jul 13 09:17	0°M	
retrograde	8458 Nov 02 10:45	19° <b>Ⅱ</b> 53'17			8463 Sep 10 18:09	0° <b>∡</b> 7	
opposition	8458 Dec 02 04:43	14° <b>I</b> 58′04	-2°54'04	desc. node	8463 Sep 26 07:05	8° <b>∡</b> ¹45'14	
greatest brilliancy	8458 Dec 02 15:03	14° <b>Ⅲ</b> 51'11			8463 Nov 01 11:22	0° <b>ප</b>	
min. Earth dist.	8458 Dec 04 17:40		0.37043 AU		8463 Dec 19 20:13	0° <b>≈</b>	
direct	8459 Jan 01 09:35	9° <b>Ⅱ</b> 48'57		evening set	8464 Jan 29 10:13	26° <b>≈</b> 34'39	
asc. node	8459 Jan 09 21:55	10° <b>Ⅱ</b> 18'11		-	8464 Feb 03 12:10	0° <b>)</b> €	
	8459 Mar 03 18:45	0ಂಣ		max. Earth dist.	8464 Feb 14 19:33	7° <b>)</b> 41′45	2.53685 AU
	8459 Apr 22 00:38	$0^{\circ}\Omega$			8464 Mar 17 17:01	$0^{\circ}$ $\Upsilon$	
	8459 Jun 06 14:31	0° <b>m</b>					
	8459 Jul 22 04:18	0∘ <b>ত</b>		conjunction	8464 Mar 18 07:05	0° <b>Y</b> 25′06	-1°06'40

minimum elong	8464 Mar 18 06:40 8464 Apr 27 18:54	0° <b>Y</b> 24'20 0° <b>엉</b>	1°06'40	desc. node retrograde	8469 May 18 06:50 8469 Jun 15 22:46	13°≈59'15 18°≈18'37	
morning rise	8464 May 11 14:58	10° <b>8</b> 24'05		opposition	8469 Jul 24 21:46	9° <b>≈</b> 25'40	
	8464 Jun 06 06:10	0°Щ		greatest brilliancy	8469 Jul 25 05:59		-1.4m
	8464 Jul 14 18:55	0° <b>©</b>		min. Earth dist.	8469 Jul 29 12:06	7°≈39'00	0.64154 AU
aga mada	8464 Aug 22 04:46	0° <b>Ω</b> 7° <b>Ω</b> 20'11		direct	8469 Aug 25 18:47	30°Rる 29°る24'14	
asc. node	8464 Aug 31 16:19 8464 Sep 30 10:31	0° Mp		direct	8469 Sep 04 09:31 8469 Sep 14 07:23	29° <b>6</b> 24°14 0° <b>≈</b>	
	8464 Nov 10 15:54	0° <del>م</del>			8469 Nov 28 19:06	0° <b>∺</b>	
	8464 Dec 25 18:06	0°M			8470 Jan 14 23:17	0°Υ	
	8465 Feb 19 07:10	0° <b>∡</b> 7			8470 Feb 25 15:27	0°8	
retrograde	8465 Apr 07 15:11	11° <b>∡</b> ³39'48			8470 Apr 05 18:43	$\Pi$ $^{\circ}0$	
min. Earth dist.	8465 May 15 03:09	2° <b>≯</b> 52′21	0.65526 AU	asc. node	8470 Apr 23 12:55	13° <b>∏</b> 55'38	
opposition	8465 May 18 02:41	1° <b>₰</b> 741'07	2°52'20		8470 May 13 22:33	0	
greatest brilliancy	8465 May 17 19:52	1° <b>₹</b> 47'54	-1.4m		8470 Jun 21 06:56	$0$ ° $\Omega$	
	8465 May 22 09:22	30°RM			8470 Jul 30 17:51	0° <b>m</b>	
direct	8465 Jun 26 17:41	22°M21'28		evening set	8470 Jul 31 04:46	0° m/20'18	
desc. node	8465 Aug 05 02:27 8465 Aug 13 08:06	0°⋪ 3°⋪00'16			8470 Sep 09 22:46	0∘ <b>⊽</b>	
desc. node	8465 Oct 08 18:24	0°중		conjunction	8470 Sep 29 00:12	13° <b>≏</b> 23'28	1°06'54
	8465 Nov 29 02:31	0° <b>≈</b>		minimum elong	8470 Sep 29 00:12	13° <b>⊆</b> 23'37	
	8466 Jan 14 13:57	0° <b>)</b> €		8	8470 Oct 23 05:42	0°M	
	8466 Feb 26 17:35	$0^{\circ}\mathbf{\Upsilon}$		max. Earth dist.	8470 Oct 30 03:39	4°M39'36	2.56452 AU
evening set	8466 Mar 15 21:03	12° <b>Y</b> 27'32		morning rise	8470 Nov 20 12:08	18° <b>M</b> 50'29	
max. Earth dist.	8466 Apr 03 01:26		2.40474 AU		8470 Dec 07 14:59	0° <b>∡</b> ¹	
	8466 Apr 08 09:21	$9^{\circ}$ 8			8471 Jan 24 00:42	0°ප	
					8471 Mar 14 18:33	0° <b>≈</b>	
conjunction	8466 May 14 11:02	27° <b>8</b> 44'57		desc. node	8471 Apr 05 03:23	12°≈15'29	
minimum elong	8466 May 14 13:58 8466 May 17 08:11	27° <b>8</b> 50'42 0° <b>Ⅱ</b>	0°43′47	ratra ara da	8471 May 08 04:34 8471 Jul 30 04:05	0° <b>¥</b> 26° <b>¥</b> 53'49	
	8466 Jun 24 10:09	0°©		retrograde opposition	8471 Sep 04 06:00	20 <b>X</b> 33 49 19° <b>X</b> 17'38	-4°57'45
asc. node	8466 Jul 19 13:22	19° <b>9</b> 50'21		greatest brilliancy	8471 Sep 04 00:00 8471 Sep 05 14:36	18° <b>)</b> (48'01	-1.9m
morning rise	8466 Jul 24 09:14	23° <b>©</b> 38'03		min. Earth dist.	8471 Sep 12 06:16	16° <b>)</b> €23'41	0.53870 AU
-	8466 Aug 01 12:16	$0^{\circ}\Omega$		direct	8471 Oct 13 16:48	10° <b>)</b> €03'18	
	8466 Sep 09 11:27	0° <b>m</b>			8471 Dec 14 16:04	$0^{\circ}$ Y	
	8466 Oct 20 03:44	0∘ <b>⊽</b>			8472 Jan 31 05:33	$0^{\circ}$ 8	
	8466 Dec 02 10:09	0°M		asc. node	8472 Mar 10 13:48	28° <b>8</b> 38'32	
	8467 Jan 18 15:21	0° <b>∡</b> ¹			8472 Mar 12 09:06	0°∏	
ratragrada	8467 Mar 15 20:58	0°궁 15°중00'55			8472 Apr 20 16:09	0° <b>⊙</b>	
retrograde opposition	8467 May 11 18:42 8467 Jun 21 02:58	13 <b>3</b> 00 33	0°21'04		8472 May 29 22:59 8472 Jul 09 08:01	0° <b>N</b> 0° <b>N</b>	
greatest brilliancy	8467 Jun 21 03:23	5° <b>පි</b> 23'10	-1.3m		8472 Aug 20 10:14	0∘ <b>ত</b>	
min. Earth dist.	8467 Jun 21 22:40	5° <b>る</b> 04'06	0.68129 AU	evening set	8472 Sep 22 16:57	22° <b>Ω</b> 47'53	
desc. node	8467 Jul 01 08:13	1° <b>る</b> 28'16		Č	8472 Oct 03 10:42	$0^{\circ}$ M	
	8467 Jul 05 14:55	30°₹⊀					
direct	8467 Aug 01 10:57	25° <b>х</b> 29′01		conjunction	8472 Nov 11 14:05	25°M43'57	
	8467 Aug 30 16:57	0° <b>ට</b>		minimum elong	8472 Nov 11 15:20	25°M45'58	0°47'55
	8467 Nov 05 18:23	0° <b>≈</b>		may Earth dist	8472 Nov 18 04:20	0°×7 4°×711106	2 65012 ATT
	8467 Dec 25 02:34 8468 Feb 06 23:53	0° <b>ℋ</b> 0° <b>Ƴ</b>		max. Earth dist. morning rise	8472 Nov 24 16:10 8472 Dec 27 13:45	4° <b>水</b> 11′06 25° <b>水</b> 11′24	2.65013 AU
	8468 Mar 18 16:32	0°8		morning 1150	8472 Dec 27 13:43 8473 Jan 04 04:05	23 <b>x</b> ·1124 0°る	
	8468 Apr 26 11:16	0°II		desc. node	8473 Feb 19 23:26	29° <b>ට</b> 23'07	
evening set	8468 May 18 16:07	17° <b>Ⅲ</b> 31'48			8473 Feb 20 23:06	0° <b>≈</b>	
	8468 Jun 03 09:34	$0$ $\circ$ $\odot$			8473 Apr 10 11:37	0° <b>)</b> €	
asc. node	8468 Jun 05 11:35	1° <b>5</b> 39'09			8473 May 30 11:17	$0^{\circ}$ Y	
	8468 Jul 11 10:58	$0$ ° $\Omega$		_	8473 Jul 24 05:54	0°8	
	0460 1 1 20 1127	120 0 1011	0025150	retrograde	8473 Oct 01 01:55	21° <b>8</b> 06'28	5015152
conjunction	8468 Jul 28 14:37	13° <b>Ω</b> 18'17		opposition	8473 Nov 01 07:04	15° <b>8</b> 36'50	
minimum elong	8468 Jul 28 11:29 8468 Aug 19 12:22	13° <b>Ω</b> 12'15 0° <b>m</b>	0 334/	greatest brilliancy min. Earth dist.	8473 Nov 02 18:06 8473 Nov 08 04:40	15° <b>8</b> 10'51	-2./m 0.40332 AU
max. Earth dist.	8468 Sep 19 02:12		2.43276 AU	direct	8473 Dec 04 11:35	9° <b>8</b> 13'24	0.70332 AU
Law dist.	8468 Sep 29 06:45	0° <b>ರ</b>		asc. node	8474 Jan 26 13:30	25° <b>8</b> 32'14	
morning rise	8468 Oct 02 16:56	2° <b>₽</b> 27'07			8474 Feb 03 16:35	0°Щ	
	8468 Nov 11 06:43	$0^{\circ}$ M.			8474 Mar 22 16:47	0ಂತಾ	
	8468 Dec 26 22:08	0° <b>∡</b>			8474 May 04 17:25	$0^{\circ}\Omega$	
	8469 Feb 14 01:21	0°ප			8474 Jun 16 16:01	0° <b>m</b> )	
	8469 Apr 11 14:20	0° <b>≈</b>			8474 Jul 30 17:04	0∘ <b>⊽</b>	

	0474 0 14 04-12	0° <b>M</b> .			8479 Mar 25 19:07	0° <b>Υ</b>	
	8474 Sep 14 04:12 8474 Oct 30 19:27	0° <b>⊼</b> 1				0 γ 18° <b>Υ</b> 43'47	
ovening set	8474 Nov 03 01:28	0 <b>x</b> ⁴ 2° <b>x</b> ⁴04'17		morning rise	8479 Apr 20 20:03 8479 May 06 03:54	0° <b>8</b>	
evening set	8474 Dec 17 00:54	2 x・0417 0°る			8479 Jun 14 22:55	0°II	
	64/4 Dec 1/ 00.54	0.0			8479 Jul 23 18:46	0°©	
conjunction	8474 Dec 18 14:22	0° <b>る</b> 59'26	0°10'37		8479 Aug 31 10:43	0°Ω 0 €3	
	8474 Dec 18 14:41	0 33926 0° <b>る</b> 59'57	0°10'37 0°10'48	aga mada		0 <b>δ</b> ε 13° <b>Ω</b> 44'05	
minimum elong	8474 Dec 18 14.41 8474 Dec 18 00:51	0 33937 0° <b>る</b> 38'00	0 1048	asc. node	8479 Sep 18 08:49 8479 Oct 09 23:33	0° M)	
behind sun begin		0 33800 1° <b>る</b> 21'54				0∘ <b>⊽</b> ० ार्ष	
behind sun end	8474 Dec 19 04:32		2 (0120 411		8479 Nov 20 19:34		
max. Earth dist.	8474 Dec 17 13:45	0°る20'24	2.68139 AU		8480 Jan 06 22:57	0°M	
desc. node	8475 Jan 07 21:00	13°る51'58		retrograde	8480 Mar 24 20:52	27°M47'31	0.60727.444
morning rise	8475 Jan 31 06:33	28° <b>ප්</b> 46'46		min. Earth dist.	8480 Apr 29 13:22	19°M35'32	0.62737 AU
	8475 Feb 02 04:23	0° <b>≈</b>		greatest brilliancy	8480 May 03 11:08	18°M02'34	-1.5m
	8475 Mar 20 18:01	0° <b>)</b> €		opposition	8480 May 04 00:47	17°M49'02	3°45'47
	8475 May 05 12:48	0° <b>Υ</b>		direct	8480 Jun 11 14:07	8°M50'57	
	8475 Jun 19 13:24	0° <b>B</b>			8480 Aug 22 07:37	0° <b>∡</b> 7	
	8475 Aug 03 04:20	0° <b>II</b>		desc. node	8480 Aug 29 21:09	3° <b>∡</b> ³38'49	
	8475 Sep 17 16:11	0ಂ <b>ತಾ</b>			8480 Oct 17 22:09	0°ಕ	
	8475 Nov 09 17:11	$0$ $^{\circ}\Omega$			8480 Dec 06 17:43	0° <b>≈</b>	
asc. node	8475 Dec 14 14:07	10° <b>Ω</b> 03'52			8481 Jan 21 19:12	0° <b>∀</b>	
retrograde	8475 Dec 20 19:32	10° <b>Ω</b> 20'07		evening set	8481 Feb 24 03:41	23° <b>)</b> €02'14	
min. Earth dist.	8476 Jan 15 19:29	6° <b>Ω</b> 01'07			8481 Mar 05 22:25	$0$ ° $\mathbf{\Upsilon}$	
opposition	8476 Jan 21 20:57			max. Earth dist.	8481 Mar 09 23:36		2.45791 AU
greatest brilliancy	8476 Jan 21 04:09	4° <b>Ω</b> 27'43	-2.9m		8481 Apr 15 17:22	$8^{\circ 0}$	
	8476 Feb 08 09:37	30° <b>₹</b> 5					
direct	8476 Feb 20 15:43	29° <b>©</b> 00'07		conjunction	8481 Apr 19 10:41	2° <b>8</b> 48'30	-1°00'56
	8476 Mar 04 03:26	$0$ $^{\circ}\Omega$		minimum elong	8481 Apr 19 12:25	2° <b>8</b> 51'47	1°01'02
	8476 May 15 06:25	0° <b>m</b>			8481 May 24 20:13	$\Pi$ $^{\circ}0$	
	8476 Jul 05 06:30	0∘ <b>ত</b>		morning rise	8481 Jun 22 20:39	22° <b>∏</b> 44'58	
	8476 Aug 23 05:35	0°M			8481 Jul 02 01:25	$0$ $\circ$ $\odot$	
	8476 Oct 10 18:44	0° <b>∡</b> 7		asc. node	8481 Aug 05 06:46	26° <b>©</b> 55'26	
desc. node	8476 Nov 24 20:09	28° <b>₹</b> 05'13			8481 Aug 09 05:14	$0^{\circ}\Omega$	
	8476 Nov 27 21:13	0°ರ			8481 Sep 17 05:09	O° Mp	
evening set	8476 Dec 08 11:04	6° <b>ප</b> 39'51			8481 Oct 27 23:20	0∘ <b>ত</b>	
max. Earth dist.	8477 Jan 08 03:18	26° <b>ප</b> 11'42	2.65740 AU		8481 Dec 10 14:33	$0^{\circ}$ M.	
	8477 Jan 14 01:14	0° <b>≈</b>			8482 Jan 28 08:13	0° <b>∡</b> ¹	
					8482 Apr 07 16:10	8°0	
conjunction	8477 Jan 22 00:58	5° <b>≈</b> 09'54	-0°29'47	retrograde	8482 Apr 28 12:57	2° <b>ප</b> 31'00	
minimum elong	8477 Jan 22 00:07	5° <b>≈</b> 08'33	0°29'37		8482 May 18 03:54	30°₽ <b>⋌</b> 7	
	8477 Feb 28 19:37	0° <b>)</b> €		min. Earth dist.	8482 Jun 07 10:20	22° <b>∡</b> 758'14	0.67897 AU
morning rise	8477 Mar 07 14:17	4° <b>)</b> €32'00		opposition	8482 Jun 08 02:12	22° <b>∡</b> ¹42'29	1°21'08
	8477 Apr 13 23:00	$0^{\circ}\mathbf{\Upsilon}$		greatest brilliancy	8482 Jun 08 01:45	22° <b>∡</b> ¹42'56	-1.3m
	8477 May 26 11:22	$B_{\circ 0}$		desc. node	8482 Jul 17 21:33	12° <b>∡</b> 58'55	
	8477 Jul 06 14:14	$\Pi^{\circ}0$		direct	8482 Jul 18 22:20	12° <b>∡</b> 58'32	
	8477 Aug 15 19:01	0°ಅ			8482 Sep 19 13:50	8°0	
	8477 Sep 25 00:01	$0^{\circ}\Omega$			8482 Nov 15 06:19	0° <b>≈</b>	
asc. node	8477 Oct 31 12:59	26° <b>Ω</b> 13'28			8483 Jan 02 02:11	0° <b>∀</b>	
	8477 Nov 06 01:02	0° <b>m</b>			8483 Feb 14 14:14	$0^{\circ}\mathbf{\Upsilon}$	
	8477 Dec 25 12:37	0° <del>ح</del>			8483 Mar 27 05:37	0°8	
retrograde	8478 Feb 13 17:50	14° <b>≏</b> 38'12		evening set	8483 Apr 21 14:37	19° <b>8</b> 29'46	
min. Earth dist.	8478 Mar 15 19:05	8° <b>£</b> 24'57	0.51489 AU		8483 May 05 01:20	$\Pi^{\circ}0$	
greatest brilliancy	8478 Mar 22 04:50	6° <b>ഫ</b> 01'12	-2.1m		8483 Jun 12 00:24	0°ಲ	
opposition	8478 Mar 23 16:20	5° <b>£</b> 27'53		asc. node	8483 Jun 23 05:39	8°\$53'22	
11	8478 Apr 09 19:02	30°R, Mp					
direct	8478 Apr 27 08:26	27° m 55'32		conjunction	8483 Jun 29 07:25	13° <b>©</b> 41'29	0°04'26
	8478 May 16 03:22	0∘ <del>⊽</del>		minimum elong	8483 Jun 29 06:54	13°9540'28	0°04'14
	8478 Jul 28 00:09	0° <b>M</b>		behind sun begin	8483 Jun 28 01:03	12° <b>©</b> 41'32	
	8478 Sep 19 18:55	0° <b>⊼</b> ¹		behind sun end	8483 Jun 30 12:45	14°539'23	
desc. node	8478 Oct 12 20:18	13° <b>×</b> <sup>7</sup> 35'36			8483 Jul 20 01:05	0°Ω	
	8478 Nov 08 23:28	0°る		max. Earth dist.	8483 Aug 14 06:20		2.37948 AU
	8478 Dec 26 19:55	0° <b>≈</b>		200 01 0100	8483 Aug 28 00:18	0° m	
evening set	8479 Jan 14 00:50	0 <b>~</b> 11° <b>≈</b> 48'05		morning rise	8483 Sep 08 23:37	8° Mp 59'14	
max. Earth dist.	8479 Feb 02 16:43	24°≈48'33	2.58025 AU		8483 Oct 07 16:05	0° <b>ʊ</b>	
Zurur uist.	8479 Feb 10 10:09	0° <b>\</b>	2.00020710		8483 Nov 19 15:33	0° <b>m</b> .	
	5.7,7100 10 10.07	~ /\			8484 Jan 04 14:58	0° <b>⊼</b>	
conjunction	8479 Mar 01 19:37	13° <b>¥</b> 13'49	-1°01'05		8484 Feb 24 05:39	%ਰ	
minimum elong	8479 Mar 01 19:37	13° <b>X</b> 1349			8484 Apr 30 11:40	0°≈	
mmmum ciong	51/711u1 01 10.33	15 /(1202	1 01 00		515171pt 50 11.70	0 700	

	8484 Jun 01 07:58	5°≈17'05			8489 Jun 25 16:28	0° m/	
retrograde desc. node	8484 Jun 03 20:35	5°≈14'43			8489 Aug 07 17:38	0∘ <b>ত</b> رااا	
desc. node	8484 Jun 30 11:31	30°Rる			8489 Sep 21 11:46	0°M	
opposition	8484 Jul 10 23:55	30 KO 26° <b>る</b> 03'55	-1°17'10	evening set	8489 Oct 18 22:06	17° <b>M</b> 54'14	
greatest brilliancy	8484 Jul 11 02:49		-1.4m	evening set	8489 Nov 06 16:31	0° <b>⊼</b>	
min. Earth dist.	8484 Jul 14 03:03	24°る50'28	0.66486 AU		0407 1107 00 10.51	0 %	
direct	8484 Aug 21 15:23	16° <b>පි</b> 01'03	0.00400710	conjunction	8489 Dec 04 15:59	17° <b>∡</b> 52'24	0°25'59
uncer	8484 Oct 14 22:08	0°≈		minimum elong	8489 Dec 04 16:46	17° × 52'24	0°26'10
	8484 Dec 09 09:37	0° <b>∀</b>		max. Earth dist.	8489 Dec 08 18:15		2.67583 AU
	8485 Jan 23 17:29	0° <b>Υ</b>			8489 Dec 23 18:05	0°る	
	8485 Mar 05 20:40	0°8		morning rise	8490 Jan 17 20:28	15° <b>る</b> 54'56	
	8485 Apr 13 18:54	0°II		desc. node	8490 Jan 24 11:29	20° <b>る</b> 06'58	
asc. node	8485 May 10 04:34	20° <b>Ⅱ</b> 48'37			8490 Feb 09 01:21	0° <b>≈</b>	
	8485 May 21 19:26	0∘ <b>©</b>			8490 Mar 28 04:36	0° <b>)</b> €	
	8485 Jun 28 23:56	$0^{\circ}\Omega$			8490 May 14 02:18	$0^{\circ}\Upsilon$	
evening set	8485 Jul 04 01:20	3° <b>Ω</b> 55'32			8490 Jun 30 02:46	0° <b>႘</b>	
	8485 Aug 07 05:53	0° <b>m</b>			8490 Aug 17 13:07	$\Pi^{\circ}0$	
	•				8490 Oct 13 23:39	0°ಲಾ	
conjunction	8485 Sep 07 10:02	22° <b>m</b> 57'19	1°03'19	retrograde	8490 Nov 20 20:00	8°\$22'46	
minimum elong	8485 Sep 07 08:33	22° <b>m</b> 54'39	1°03'16	opposition	8490 Dec 20 21:11	3° <b>5</b> 21'10	-0°48'27
	8485 Sep 17 05:17	0∘ <b>ত</b>		min. Earth dist.	8490 Dec 20 00:47	3° <b>5</b> 34'47	0.36594 AU
max. Earth dist.	8485 Oct 17 01:37	20° <b>£</b> 56'25	2.51706 AU	greatest brilliancy	8490 Dec 20 21:44	3° <b>5</b> 20'48	-3.1m
	8485 Oct 30 07:38	0° <b>M</b> ,		asc. node	8490 Dec 31 05:55	0°\$345'01	
morning rise	8485 Nov 03 07:58	2°M42'58			8491 Jan 03 21:24	30°R <b>Ⅱ</b>	
	8485 Dec 14 16:35	0° <b>∡</b> ¹		direct	8491 Jan 19 07:42	28° <b>Ⅱ</b> 28'12	
	8486 Jan 31 12:10	ರ∘ರ			8491 Feb 03 12:06	$0$ $\circ$	
	8486 Mar 23 18:54	0° <b>≈</b>			8491 Apr 11 21:44	$0^{\circ}\Omega$	
desc. node	8486 Apr 21 17:39	15° <b>≈</b> 21'06			8491 May 30 09:36	O° My	
	8486 May 24 02:52	0° <b>∀</b>			8491 Jul 16 06:29	0 <b>∘</b> ⊽	
retrograde	8486 Jul 11 10:32	10° <b>¥</b> 59'11			8491 Sep 01 09:30	$0^{\circ}$ M	
opposition	8486 Aug 17 20:57	2° <b>)</b> 47′34	-4°00'13		8491 Oct 19 00:08	0° <b>∡</b> 7	
greatest brilliancy	8486 Aug 18 18:46	2° <b>∺</b> 27'04	-1.7m	evening set	8491 Nov 25 12:56	23° <b>х</b> 36′13	
min. Earth dist.	8486 Aug 24 16:18	0° <b>ℋ</b> 14'28	0.58575 AU		8491 Dec 05 16:16	0°ප	
	8486 Aug 25 08:02	30° <b>R</b> ≈		desc. node	8491 Dec 12 09:35	4° <b>ප</b> 15'01	
direct	8486 Sep 27 11:34	23° <b>≈</b> 04'36		max. Earth dist.	8491 Dec 31 08:40	16° <b>る</b> 17'19	2.67349 AU
	8486 Nov 01 07:15	0° <b>ℋ</b>					
	8486 Dec 29 00:35	$0$ ° $\mathbf{\Upsilon}$		conjunction	8492 Jan 09 03:08	21° <b>る</b> 53'12	-0°14'30
	8487 Feb 10 20:15	$9^{\circ}$ 8		minimum elong	8492 Jan 09 02:42	21° <b>る</b> 52'31	0°14'19
	8487 Mar 22 19:33	$\Pi^{\circ}0$		behind sun begin	8492 Jan 08 18:24	21° <b>る</b> 39'14	
asc. node	8487 Mar 28 05:01	4° <b>Ⅱ</b> 09'17		behind sun end	8492 Jan 09 11:00	22° <b>る</b> 05'47	
				ocimia sun cha	04)2 Jan 0) 11.00	22 000 17	
	8487 Apr 30 11:24	0		bennia sun ena	8492 Jan 21 18:41	0°≈	
	8487 Apr 30 11:24 8487 Jun 08 06:16	$0 _{\circ}$ ೮		morning rise		0° <b>≈</b> 20° <b>≈</b> 12'48	
		0° <b>Ω</b> 0° <b>m</b>			8492 Jan 21 18:41	0°≈ 20°≈12'48 0°¥	
	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58	0° <b>亞</b> 0°₩ 0°Ω			8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44	0°≈ 20°≈12'48 0°ℋ 0°℉	
evening set	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28	0° <b>ብ</b> 0° <b>ጥ</b> 0° <b>亞</b> 4° <b>亞</b> 46'28			8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52	0°≈ 20°≈12'48 0°¥ 0°Y 0°Y	
evening set	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58	0° <b>亞</b> 0°₩ 0°Ω			8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34	0°≈ 20°≈12'48 0°ℋ 0°Ƴ 0°℧	
· ·	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45	0° <b>ብ</b> 0° <b>ሙ</b> 0° <b>亞</b> 4° <b>亞</b> 46′28 0° <b>ጤ</b>			8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42	0°≈ 20°≈12'48 0°ℋ 0°Ƴ 0°℧ 0°Ⅱ	
conjunction	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45 8487 Oct 27 13:20	0° ብ 0° ሙ 0° ጭ 4° <del>•</del> 46′28 0° ጤ	0°58'32	morning rise	8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47	0°≈ 20°≈12'48 0° ℋ 0° Ƴ 0° ℧ 0° ℿ 0° ℑ	
conjunction minimum elong	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45 8487 Oct 27 13:20 8487 Oct 27 14:32	0° ብ 0° ነው 0°	0°58'40		8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47 8492 Nov 17 05:36	0°≈ 20°≈12'48 0°¥ 0°Y 0°B 0°B 0°B 27°\$21'17	
conjunction	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45 8487 Oct 27 13:20 8487 Oct 27 14:32 8487 Nov 16 03:36	0° ብ 0° ነው 0°		morning rise asc. node	8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47 8492 Nov 17 05:36 8492 Nov 21 16:01	0°≈ 20°≈12'48 0° ℋ 0° ♈ 0° ℧ 0° ℿ 0°⑤ 27° Ω21'17	
conjunction minimum elong max. Earth dist.	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45 8487 Oct 27 13:20 8487 Oct 27 14:32 8487 Nov 16 03:36 8487 Nov 26 00:24	0° \$\mathcal{O}\$ 0° \$\mathcal{m}\$ 0° \$\mathcal{\O}\$ 4° \$\mathcal{\O}\$46'28 0° \$\mathcal{m}\$ 10° \$\mathcal{m}\$43'02 10° \$\mathcal{m}\$45'01 23° \$\mathcal{m}\$35'24 0° \$\nalpha\$	0°58'40	morning rise  asc. node retrograde	8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47 8492 Nov 17 05:36 8492 Nov 21 16:01 8493 Jan 25 18:19	0°≈ 20°≈12'48 0° ℋ 0°Υ 0°႘ 0°Ⅱ 0°ಽ 0°Ω 27°Ω21'17 0° m 23° m 15'05	
conjunction minimum elong	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45 8487 Oct 27 13:20 8487 Oct 27 14:32 8487 Nov 16 03:36 8487 Nov 26 00:24 8487 Dec 14 10:52	0° \$\mathcal{O}\$ 0° \$\mathcal{m}\$ 0° \$\mathcal{\O}\$ 4° \$\mathcal{\O}\$46'28 0° \$\mathcal{m}\$ 10° \$\mathcal{m}\$43'02 10° \$\mathcal{m}\$45'01 23° \$\mathcal{m}\$35'24 0° \$\mathcal{\Z}\$ 11° \$\mathcal{\Z}\$51'31	0°58'40	asc. node retrograde min. Earth dist.	8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47 8492 Nov 17 05:36 8492 Nov 21 16:01 8493 Jan 25 18:19 8493 Feb 22 11:20	0°≈ 20°≈12'48 0° ℋ 0° ℋ 0° ℧ 0° ℿ 0°ℱ 0° Ω 27° Ω21'17 0° 协 23° № 15'05 17° № 56'29	0.46027 AU
conjunction minimum elong max. Earth dist.	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45 8487 Oct 27 13:20 8487 Oct 27 14:32 8487 Nov 16 03:36 8487 Nov 26 00:24 8487 Dec 14 10:52 8488 Jan 12 01:28	0°ম 0°ম 0°এ 4°এ46'28 0°M 10°M43'02 10°M45'01 23°M35'24 0°× 11°×751'31 0°ব	0°58'40	asc. node retrograde min. Earth dist. greatest brilliancy	8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47 8492 Nov 17 05:36 8492 Nov 21 16:01 8493 Jan 25 18:19 8493 Feb 22 11:20 8493 Mar 01 07:43	0°≈ 20°≈12'48 0° ℋ 0° ℋ 0° ℋ 0° ℧ 0° Ո 0° ℱ 27° № 21'17 0° № 23° № 15'05 17° № 56'29 15° № 32'34	-2.4m
conjunction minimum elong max. Earth dist. morning rise	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45 8487 Oct 27 13:20 8487 Oct 27 14:32 8487 Nov 16 03:36 8487 Nov 26 00:24 8487 Dec 14 10:52 8488 Jan 12 01:28 8488 Feb 29 08:57	0° N 0° M 0° <u>a</u> 4° <u>a</u> 46′28 0° M 10° M 43′02 10° M 45′01 23° M 35′24 0° ⊀ 11° ⊀ 751′31 0° చ	0°58'40	asc. node retrograde min. Earth dist. greatest brilliancy opposition	8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47 8492 Nov 17 05:36 8492 Nov 21 16:01 8493 Jan 25 18:19 8493 Feb 22 11:20 8493 Mar 01 07:43 8493 Mar 02 22:24	0°≈ 20°≈12'48 0° ℋ 0° ℋ 0° ℋ 0° ℧ 0° ℿ 0°ℱ 0° Ω 27° Ω21'17 0° ℔ 23° ℔ 15'05 17° ℔ 56'29 15° ℔ 32'34 14° ℔ 58'28	
conjunction minimum elong max. Earth dist.	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45 8487 Oct 27 13:20 8487 Oct 27 14:32 8487 Nov 16 03:36 8487 Nov 26 00:24 8487 Dec 14 10:52 8488 Jan 12 01:28 8488 Feb 29 08:57 8488 Mar 08 14:30	0° \$\mathref{O}\$ 0° \$\mathref{D}\$ 0° \$\mathref{D}\$ 4° \$\mathref{D}\$46'28 0° \$\mathref{M}\$ 10° \$\mathref{M}\$43'02 10° \$\mathref{M}\$45'01 23° \$\mathref{M}\$35'24 0° \$\mathref{Z}\$ 11° \$\mathref{Z}\$51'31 0° \$\mathref{G}\$ 0° \$\approx\$ 5° \$\approx\$01'33	0°58'40	asc. node retrograde min. Earth dist. greatest brilliancy	8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47 8492 Nov 17 05:36 8492 Nov 21 16:01 8493 Jan 25 18:19 8493 Feb 22 11:20 8493 Mar 01 07:43 8493 Mar 02 22:24 8493 Apr 04 15:59	0°≈ 20°≈12'48 0° ℋ 0° ℋ 0° ℋ 0° ℧ 0° ℿ 0°ℱ 0° Ω 27° Ω21'17 0° ℔ 23° ℔ 15'05 17° ℔ 56'29 15° ℔ 32'34 14° ℔ 58'28 8° ℔ 15'48	-2.4m
conjunction minimum elong max. Earth dist. morning rise	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45 8487 Oct 27 13:20 8487 Oct 27 14:32 8487 Nov 16 03:36 8487 Nov 26 00:24 8487 Dec 14 10:52 8488 Jan 12 01:28 8488 Feb 29 08:57 8488 Mar 08 14:30 8488 Apr 19 08:13	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 4° \$\mathcal{D}\$46'28 0° \$\mathcal{M}\$ 10° \$\mathcal{M}\$43'02 10° \$\mathcal{M}\$45'01 23° \$\mathcal{M}\$35'24 0° \$\mathcal{D}\$ 11° \$\mathcal{D}\$51'31 0° \$\mathcal{D}\$ 0° \$\approx\$ 5° \$\approx\$01'33 0° \$\mathcal{H}\$	0°58'40	asc. node retrograde min. Earth dist. greatest brilliancy opposition	8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47 8492 Nov 17 05:36 8492 Nov 21 16:01 8493 Jan 25 18:19 8493 Feb 22 11:20 8493 Mar 01 07:43 8493 Mar 02 22:24 8493 Apr 04 15:59 8493 Jun 13 15:09	0°≈ 20°≈12'48 0° H 0° Y 0° B 0° II 0° 0 0° Ω 27° Ω21'17 0° 10 23° 10 15'05 17° 10 56'29 15° 10 32'34 14° 10 58'28 8° 10 15'48 0° Ω	-2.4m
conjunction minimum elong max. Earth dist. morning rise  desc. node	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45 8487 Oct 27 13:20 8487 Oct 27 14:32 8487 Nov 16 03:36 8487 Nov 26 00:24 8487 Dec 14 10:52 8488 Jan 12 01:28 8488 Feb 29 08:57 8488 Mar 08 14:30 8488 Apr 19 08:13 8488 Jun 12 08:34	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 4° \$\mathcal{D}\$46'28 0° \$\mathcal{M}\$ 10° \$\mathcal{M}\$43'02 10° \$\mathcal{M}\$45'01 23° \$\mathcal{M}\$35'24 0° \$\mathcal{Z}\$ 11° \$\mathcal{Z}\$51'31 0° \$\mathcal{Z}\$	0°58'40	asc. node retrograde min. Earth dist. greatest brilliancy opposition	8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47 8492 Nov 17 05:36 8492 Nov 21 16:01 8493 Jan 25 18:19 8493 Feb 22 11:20 8493 Mar 01 07:43 8493 Mar 02 22:24 8493 Apr 04 15:59 8493 Jun 13 15:09 8493 Aug 08 00:33	0°≈ 20°≈12'48 0° ¥ 0° Y 0° 8 0° II 0° 00 0° 00 27° 00 21'17 0° 10 23° 10 15'05 17° 10 56'29 15° 10 32'34 14° 10 58'28 8° 10 15'48 0° 10 0° 11.	-2.4m
conjunction minimum elong max. Earth dist. morning rise  desc. node	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45 8487 Oct 27 13:20 8487 Oct 27 14:32 8487 Nov 16 03:36 8487 Nov 26 00:24 8487 Dec 14 10:52 8488 Jan 12 01:28 8488 Feb 29 08:57 8488 Mar 08 14:30 8488 Apr 19 08:13 8488 Jun 12 08:34 8488 Sep 02 21:08	0° ብ 0° ሙ 0° ው 4° ው 46'28 0° ™ 10° ™ 43'02 10° ™ 45'01 23° ™ 35'24 0° \$\frac{1}{2}\$ 0° \$\frac{1}{2}\$ 0° \$\frac{1}{2}\$ 0° \$\frac{1}{2}\$ 0° \$\frac{1}{2}\$ 0° \$\frac{1}{2}\$ 0° \$\frac{1}{2}\$ 0° \$\frac{1}{2}\$	0°58'40 2.62301 AU	asc. node retrograde min. Earth dist. greatest brilliancy opposition direct	8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47 8492 Nov 17 05:36 8492 Nov 21 16:01 8493 Jan 25 18:19 8493 Feb 22 11:20 8493 Mar 01 07:43 8493 Mar 02 22:24 8493 Apr 04 15:59 8493 Jun 13 15:09 8493 Aug 08 00:33 8493 Sep 27 23:54	0°≈ 20°≈12'48 0° ¥ 0° Y 0° 8 0° II 0° © 0° Ω 27° Ω 21'17 0° m 23° m 15'05 17° m 56'29 15° m 32'34 14° m 58'28 8° m 15'48 0° Ω 0° II 0° №	-2.4m
conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45 8487 Oct 27 13:20 8487 Oct 27 14:32 8487 Nov 16 03:36 8487 Nov 26 00:24 8487 Dec 14 10:52 8488 Jan 12 01:28 8488 Feb 29 08:57 8488 Mar 08 14:30 8488 Apr 19 08:13 8488 Jun 12 08:34 8488 Sep 02 21:08 8488 Oct 06 01:36	0° ብ 0° ሙ 0° <u>\$\Pi\$</u> 4° <u>\$\Pi\$</u> 46'28 0° \text{\$\mathbb{m}\$} 10° \text{\$\mathbb{m}\$}43'02 10° \text{\$\mathbb{m}\$}45'01 23° \text{\$\mathbb{m}\$}35'24 0° \$\text{\$\mathbb{m}\$} 11° \$\text{\$\mathbb{m}\$}5'131 0° \$\text{\$\mathbb{m}\$} 0° \$\text{\$\mathbb{m}\$} 5° \$\pi\$ 01'33 0° \$\text{\$\mathbb{m}\$} 0° \$\text{\$\mathbb{m}\$} 27° \$\text{\$\mathbb{m}\$}12'26 20° \$\text{\$\mathbb{m}\$}49'10	0°58'40 2.62301 AU -5°50'24	asc. node retrograde min. Earth dist. greatest brilliancy opposition	8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47 8492 Nov 17 05:36 8492 Nov 21 16:01 8493 Jan 25 18:19 8493 Feb 22 11:20 8493 Mar 01 07:43 8493 Mar 02 22:24 8493 Apr 04 15:59 8493 Jun 13 15:09 8493 Aug 08 00:33 8493 Sep 27 23:54 8493 Oct 29 09:20	0°≈ 20°≈12'48 0° ¥ 0° Y 0° 8 0° II 0° © 0° Ω 27° Ω 21'17 0° M 23° M 15'05 17° M 56'29 15° M 32'34 14° M 58'28 8° M 15'48 0° Ω 0° II	-2.4m
conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45 8487 Oct 27 13:20 8487 Oct 27 14:32 8487 Nov 16 03:36 8487 Nov 26 00:24 8487 Dec 14 10:52 8488 Jan 12 01:28 8488 Feb 29 08:57 8488 Mar 08 14:30 8488 Apr 19 08:13 8488 Jun 12 08:34 8488 Sep 02 21:08 8488 Oct 06 01:36 8488 Oct 07 21:43	0° ብ 0° ሙ 0° ው 4° ው 4° ው 10° M 43'02 10° M 45'01 23° M 35'24 0° ጄ 11° ጃ 51'31 0° ጄ 5° ≈ 01'33 0° ዧ 27° ♈ 12'26 20° ♈ 49'10 20° ♈ 12'50	0°58'40 2.62301 AU -5°50'24 -2.4m	asc. node retrograde min. Earth dist. greatest brilliancy opposition direct  desc. node	8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47 8492 Nov 17 05:36 8492 Nov 21 16:01 8493 Jan 25 18:19 8493 Feb 22 11:20 8493 Mar 01 07:43 8493 Mar 02 22:24 8493 Apr 04 15:59 8493 Jun 13 15:09 8493 Aug 08 00:33 8493 Sep 27 23:54 8493 Oct 29 09:20 8493 Nov 16 03:49	0°≈ 20°≈12'48 0° ¥ 0° Y 0° 8 0° II 0° © 0° A 27° A 21'17 0° M 23° M 15'05 17° M 56'29 15° M 32'34 14° M 58'28 8° M 15'48 0° Ω 0° II 0° ✓ 19° ✓ 12'44 0° ♂	-2.4m
conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist.	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45 8487 Oct 27 13:20 8487 Oct 27 14:32 8487 Nov 16 03:36 8487 Nov 26 00:24 8487 Dec 14 10:52 8488 Jan 12 01:28 8488 Feb 29 08:57 8488 Mar 08 14:30 8488 Apr 19 08:13 8488 Jun 12 08:34 8488 Oct 06 01:36 8488 Oct 07 21:43 8488 Oct 14 16:05	0° ብ 0° ሙ 0° ው 4° ው 46′28 0° ሙ 10° ™ 43′02 10° ™ 45′01 23° ™ 35′24 0° ズ 11° ズ 51′31 0° 云 0° ≈ 5° ≈ 01′33 0° ዢ 0° ϒ 27° ϒ 12′26 20° ϒ 49′10 20° ϒ 12′50 18° ϒ 00′01	0°58'40 2.62301 AU -5°50'24	asc. node retrograde min. Earth dist. greatest brilliancy opposition direct	8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47 8492 Nov 17 05:36 8492 Nov 21 16:01 8493 Jan 25 18:19 8493 Feb 22 11:20 8493 Mar 01 07:43 8493 Mar 02 22:24 8493 Apr 04 15:59 8493 Jun 13 15:09 8493 Aug 08 00:33 8493 Sep 27 23:54 8493 Oct 29 09:20 8493 Nov 16 03:49 8493 Dec 30 12:00	0°≈ 20°≈12'48 0° H 0°Y 0°8 0° II 0°9 0° Q 27° Q21'17 0° M 23° M 15'05 17° M 56'29 15° M 32'34 14° M 58'28 8° M 15'48 0° L 0° I 0° I 23° M 2'44 0° I 27° I 558'02	-2.4m
conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45  8487 Oct 27 13:20 8487 Oct 27 14:32 8487 Nov 16 03:36 8487 Nov 26 00:24 8487 Dec 14 10:52 8488 Jan 12 01:28 8488 Feb 29 08:57 8488 Mar 08 14:30 8488 Apr 19 08:13 8488 Apr 19 08:13 8488 Jun 12 08:34 8488 Oct 06 01:36 8488 Oct 07 21:43 8488 Oct 14 16:05 8488 Nov 11 09:20	0° ብ 0° ጥ 0° Ω 4° Ω 46′28 0° ጤ 10° ጤ 43′02 10° ጤ 45′01 23° ጤ 35′24 0° ♂ 11° ♂ 51′31 0° ♂ 0° ≈ 5° ≈ 01′33 0° ጕ 20° ♈ 12′50 18° ♈ 00′01 13° ♈ 01′06	0°58'40 2.62301 AU -5°50'24 -2.4m	asc. node retrograde min. Earth dist. greatest brilliancy opposition direct  desc. node evening set	8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47 8492 Nov 17 05:36 8492 Nov 21 16:01 8493 Jan 25 18:19 8493 Feb 22 11:20 8493 Mar 01 07:43 8493 Mar 02 22:24 8493 Apr 04 15:59 8493 Jun 13 15:09 8493 Aug 08 00:33 8493 Sep 27 23:54 8493 Oct 29 09:20 8493 Nov 16 03:49 8493 Dec 30 12:00 8494 Jan 02 15:54	0°≈ 20°≈12'48 0° H 0°Y 0°8 0°I 0°9 0°Ω 27°Ω21'17 0°m 23°m15'05 17°m56'29 15°m32'34 14°m58'28 8°m15'48 0°Ω 0°√ 19°√02'44 0°♂ 27°♂558'02 0°≈	-2.4m 5°15'44
conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45  8487 Oct 27 13:20 8487 Oct 27 14:32 8487 Nov 16 03:36 8487 Nov 26 00:24 8487 Dec 14 10:52 8488 Jan 12 01:28 8488 Feb 29 08:57 8488 Mar 08 14:30 8488 Apr 19 08:13 8488 Jun 12 08:34 8488 Sep 02 21:08 8488 Oct 06 01:36 8488 Oct 07 21:43 8488 Oct 14 16:05 8488 Nov 11 09:20 8489 Jan 04 21:34	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 4° \$\mathcal{D}\$46'28 0° \$\mathcal{M}\$. 10° \$\mathcal{M}\$43'02 10° \$\mathcal{M}\$45'01 23° \$\mathcal{M}\$35'24 0° \$\mathcal{Z}\$ 11° \$\mathcal{Z}\$51'31 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 20° \$\mathcal{D}\$1'33 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 20° \$\mathcal{D}\$12'26 20° \$\mathcal{D}\$49'10 20° \$\mathcal{D}\$12'50 18° \$\mathcal{D}\$00'01 13° \$\mathcal{D}\$01'06 0° \$\mathcal{D}\$	0°58'40 2.62301 AU -5°50'24 -2.4m	asc. node retrograde min. Earth dist. greatest brilliancy opposition direct  desc. node	8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47 8492 Nov 17 05:36 8492 Nov 21 16:01 8493 Jan 25 18:19 8493 Feb 22 11:20 8493 Mar 01 07:43 8493 Mar 02 22:24 8493 Apr 04 15:59 8493 Jun 13 15:09 8493 Aug 08 00:33 8493 Sep 27 23:54 8493 Oct 29 09:20 8493 Nov 16 03:49 8493 Dec 30 12:00	0°≈ 20°≈12'48 0° H 0°Y 0°8 0°I 0°9 0°Ω 27°Ω21'17 0°m 23°m15'05 17°m56'29 15°m32'34 14°m58'28 8°m15'48 0°Ω 0°√ 19°√02'44 0°♂ 27°♂558'02 0°≈	-2.4m
conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist.	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45  8487 Oct 27 13:20 8487 Oct 27 14:32 8487 Nov 16 03:36 8487 Nov 26 00:24 8487 Dec 14 10:52 8488 Jan 12 01:28 8488 Feb 29 08:57 8488 Mar 08 14:30 8488 Apr 19 08:13 8488 Jun 12 08:34 8488 Oct 06 01:36 8488 Oct 07 21:43 8488 Oct 14 16:05 8488 Nov 11 09:20 8489 Jan 04 21:34 8489 Feb 12 06:19	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 4° \$\mathcal{D}\$46'28 0° \$\mathcal{M}\$. 10° \$\mathcal{M}\$43'02 10° \$\mathcal{M}\$45'01 23° \$\mathcal{M}\$35'24 0° \$\mathcal{A}\$ 0° \$\mathcal{D}\$ 0° \$\simes\$ 5° \$\simes 01'33 0° \$\mathcal{H}\$ 0° \$\mathcal{D}\$ 27° \$\mathcal{D}\$12'50 18° \$\mathcal{D}\$00'01 13° \$\mathcal{D}\$01'06 0° \$\mathcal{D}\$ 23° \$\mathcal{D}\$35'17	0°58'40 2.62301 AU -5°50'24 -2.4m	asc. node retrograde min. Earth dist. greatest brilliancy opposition direct  desc. node evening set max. Earth dist.	8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47 8492 Nov 17 05:36 8492 Nov 21 16:01 8493 Jan 25 18:19 8493 Feb 22 11:20 8493 Mar 01 07:43 8493 Mar 02 22:24 8493 Apr 04 15:59 8493 Jun 13 15:09 8493 Aug 08 00:33 8493 Sep 27 23:54 8493 Oct 29 09:20 8493 Nov 16 03:49 8493 Dec 30 12:00 8494 Jan 02 15:54 8494 Jan 23 02:27	0°≈ 20°≈12'48 0° H 0° Y 0° B 0° II 0° © 0° Ω 27° Ω21'17 0° II 23° II 15'05 17° II 56'29 15° II 32'34 14° II 58'28 8° II 15'48 0° Ω 0° II 19° II 15'58'02 0° II 19° II 15'53	-2.4m 5°15'44 2.61676 AU
conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45  8487 Oct 27 13:20 8487 Oct 27 14:32 8487 Nov 16 03:36 8487 Nov 26 00:24 8487 Dec 14 10:52 8488 Jan 12 01:28 8488 Feb 29 08:57 8488 Mar 08 14:30 8488 Apr 19 08:13 8488 Apr 19 08:13 8488 Jun 12 08:34 8488 Oct 06 01:36 8488 Oct 07 21:43 8488 Oct 14 16:05 8488 Nov 11 09:20 8489 Jan 04 21:34 8489 Feb 12 06:19 8489 Feb 21 15:03	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 4° \$\mathcal{D}\$46'28 0° \$\mathcal{M}\$. 10° \$\mathcal{M}\$43'02 10° \$\mathcal{M}\$45'01 23° \$\mathcal{M}\$35'24 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 27° \$\mathcal{D}\$12'26 20° \$\mathcal{D}\$49'10 20° \$\mathcal{D}\$12'50 18° \$\mathcal{D}\$00'01 13° \$\mathcal{D}\$01'06 0° \$\mathcal{D}\$ 23° \$\mathcal{D}\$35'17 0° \$\mathcal{D}\$	0°58'40 2.62301 AU -5°50'24 -2.4m	asc. node retrograde min. Earth dist. greatest brilliancy opposition direct  desc. node evening set max. Earth dist. conjunction	8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47 8492 Nov 17 05:36 8492 Nov 21 16:01 8493 Jan 25 18:19 8493 Feb 22 11:20 8493 Mar 01 07:43 8493 Mar 02 22:24 8493 Apr 04 15:59 8493 Jun 13 15:09 8493 Aug 08 00:33 8493 Sep 27 23:54 8493 Oct 29 09:20 8493 Nov 16 03:49 8493 Dec 30 12:00 8494 Jan 02 15:54 8494 Feb 13 22:39	0°≈ 20°≈12'48 0° H 0° Y 0° B 0° II 0° © 0° Ω 27° Ω21'17 0° II 23° II 15'05 17° II 56'29 15° II 32'34 14° II 58'28 8° II 15'48 0° Ω 0° II 0° II 0° II 23° II 15'48 0° Ω 15° II 15'48 0° II 15'48	-2.4m 5°15'44 2.61676 AU -0°51'03
conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct	8487 Jun 08 06:16 8487 Jul 18 04:06 8487 Aug 28 19:58 8487 Sep 04 15:28 8487 Oct 11 11:45  8487 Oct 27 13:20 8487 Oct 27 14:32 8487 Nov 16 03:36 8487 Nov 26 00:24 8487 Dec 14 10:52 8488 Jan 12 01:28 8488 Feb 29 08:57 8488 Mar 08 14:30 8488 Apr 19 08:13 8488 Jun 12 08:34 8488 Oct 06 01:36 8488 Oct 07 21:43 8488 Oct 14 16:05 8488 Nov 11 09:20 8489 Jan 04 21:34 8489 Feb 12 06:19	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 4° \$\mathcal{D}\$46'28 0° \$\mathcal{M}\$. 10° \$\mathcal{M}\$43'02 10° \$\mathcal{M}\$45'01 23° \$\mathcal{M}\$35'24 0° \$\mathcal{A}\$ 0° \$\mathcal{D}\$ 0° \$\simes\$ 5° \$\simes 01'33 0° \$\mathcal{H}\$ 0° \$\mathcal{D}\$ 27° \$\mathcal{D}\$12'50 18° \$\mathcal{D}\$00'01 13° \$\mathcal{D}\$01'06 0° \$\mathcal{D}\$ 23° \$\mathcal{D}\$35'17	0°58'40 2.62301 AU -5°50'24 -2.4m	asc. node retrograde min. Earth dist. greatest brilliancy opposition direct  desc. node evening set max. Earth dist.	8492 Jan 21 18:41 8492 Feb 21 22:10 8492 Mar 07 19:01 8492 Apr 21 10:44 8492 Jun 03 16:52 8492 Jul 15 17:34 8492 Aug 26 00:42 8492 Oct 06 19:47 8492 Nov 17 05:36 8492 Nov 21 16:01 8493 Jan 25 18:19 8493 Feb 22 11:20 8493 Mar 01 07:43 8493 Mar 02 22:24 8493 Apr 04 15:59 8493 Jun 13 15:09 8493 Aug 08 00:33 8493 Sep 27 23:54 8493 Oct 29 09:20 8493 Nov 16 03:49 8493 Dec 30 12:00 8494 Jan 02 15:54 8494 Jan 23 02:27	0°≈ 20°≈12'48 0° H 0° Y 0° B 0° II 0° © 0° Ω 27° Ω21'17 0° II 23° II 15'05 17° II 56'29 15° II 32'34 14° II 58'28 8° II 15'48 0° Ω 0° II 19° II 15'58'02 0° II 19° II 15'53	-2.4m 5°15'44 2.61676 AU -0°51'03

	9404 Amr 01 21:55	0°Υ		greatest brilliancy	8499 Jun 28 15:58	13° <b>る</b> 09'53	1.2
	8494 Apr 01 21:55						
morning rise	8494 Apr 02 00:40	0° <b>Υ</b> 04'50		min. Earth dist.	8499 Jun 30 07:13	12° <b>る</b> 31'14	0.67821 AU
	8494 May 13 16:04	8°0		direct	8499 Aug 09 04:00	3° <b>ට</b> 11'29	
	8494 Jun 22 21:20	0°Щ			8499 Oct 29 15:23	0° <b>≈</b>	
	8494 Aug 01 02:57	0°€			8499 Dec 19 13:18	0° <b>∀</b>	
	8494 Sep 09 04:09	$0$ $^{\circ}\Omega$			8500 Feb 01 21:36	0° <b>Υ</b>	
asc. node	8494 Oct 05 04:03	19° <b>Ω</b> 37'56			8500 Mar 14 18:02	$9^{\circ}$ 8	
	8494 Oct 19 05:08	O°Mp			8500 Apr 22 14:01	$\Pi$ °0	
	8494 Dec 01 05:16	0∘ <b>⊽</b>		asc. node	8500 May 27 21:33	27° <b>Ⅱ</b> 54'28	
	8495 Jan 22 11:18	0°M₊			8500 May 30 12:55	$0$ $\circ$ $\infty$	
retrograde	8495 Mar 11 07:58	12°M43'55		evening set	8500 Jun 05 09:20	4° <b>©</b> 38'06	
min. Earth dist.	8495 Apr 13 23:14	5° <b>™</b> 13'29	0.58973 AU		8500 Jul 07 14:45	$0^{\circ}\Omega$	
opposition	8495 Apr 19 21:57	2°M53'36	4°33'29				
greatest brilliancy	8495 Apr 18 23:47	3°M15'21	-1.7m	conjunction	8500 Aug 14 08:17	28° <b>Ω</b> 58'53	0°49'20
c ,	8495 Apr 27 13:37	30° <b>₽</b> Ω		minimum elong	8500 Aug 14 05:12	28° <b>Ω</b> 53'04	0°49'12
direct	8495 May 27 03:58	24° <b>Ω</b> 22'55		Č	8500 Aug 15 16:44	O° Mp	
	8495 Jun 28 21:07	0°M			8500 Sep 25 11:45	$0 \circ \overline{\mathbf{v}}$	
	8495 Sep 04 02:29	0° <b>⊼</b> 7		max. Earth dist.	8500 Oct 01 22:01		2.46363 AU
desc. node	8495 Sep 16 09:49	6° <b>х</b> 39′23		morning rise	8500 Oct 15 22:57	14° <b>£</b> 29'37	2.40303710
desc. flode	•	0×3923		morning risc		0°M	
	8495 Oct 27 04:17	0°≈			8500 Nov 07 11:04		
	8495 Dec 15 00:21				8500 Dec 22 22:21	0° <b>⊼</b>	
	8496 Jan 29 19:50	0° <b>∀</b>			8501 Feb 09 10:09	0°ರ	
evening set	8496 Feb 07 16:35	6° <b>∺</b> 01'07			8501 Apr 04 07:17	0° <b>≈</b>	
max. Earth dist.	8496 Feb 22 13:58	16° <b>∺</b> 17'22	2.51000 AU	desc. node	8501 May 09 09:08	15° <b>≈</b> 57'00	
	8496 Mar 13 00:29	$0$ ° $\Upsilon$		retrograde	8501 Jun 25 18:46	26° <b>≈</b> 34'27	
				opposition	8501 Aug 03 06:38	17° <b>≈</b> 54'46	-2°57'41
conjunction	8496 Mar 29 03:12	11° <b>Y</b> 37'23	-1°07'04	greatest brilliancy	8501 Aug 03 19:06	17° <b>≈</b> 42'48	-1.5m
minimum elong	8496 Mar 29 03:25	11° <b>Y</b> 37'46	1°07'05	min. Earth dist.	8501 Aug 08 16:36	15° <b>≈</b> 50'17	0.62413 AU
	8496 Apr 23 00:13	0°8		direct	8501 Sep 13 13:35	7° <b>≈</b> 57'19	
morning rise	8496 May 25 14:34	24° <b>8</b> 47'06			8501 Nov 21 14:09	0° <b>∀</b>	
C	8496 Jun 01 08:38	0° <b>Ⅱ</b>			8502 Jan 09 20:27	$_{0}^{\circ}\Upsilon$	
	8496 Jul 09 18:42	0°ಲಾ			8502 Feb 21 02:48	0°8	
	8496 Aug 17 02:00	$0^{\circ}\Omega$			8502 Apr 01 11:56	0°II	
asc. node	8496 Aug 22 00:21	3° <b>Ω</b> 49'59		asc. node	8502 Apr 14 21:14	10° <b>Ⅲ</b> 26'32	
asc. node	8496 Sep 25 04:38	0°Mp		asc. node	8502 May 09 19:22	0°95	
	8496 Nov 05 03:56	0∘ <del>ত</del> بانا			8502 Jun 17 06:41	0°Ω	
		0° <b>m</b>				0°Mp	
	8496 Dec 19 11:48			. ,	8502 Jul 26 20:26	•	
	8497 Feb 09 05:50	0° <b>√</b>		evening set	8502 Aug 14 21:41	14° Mp 00'36	
retrograde	8497 Apr 15 07:21	19° <b>∡</b> 42'46			8502 Sep 06 04:06	0∘ <b>⊽</b>	
min. Earth dist.	8497 May 23 17:14	10° <b>₹</b> 37'58	0.66637 AU			<b>.</b>	
opposition	8497 May 25 20:49	9° <b>∡</b> ¹46'38	2°19'27	conjunction	8502 Oct 10 22:15		1°05'25
greatest brilliancy	8497 May 25 16:58	9° <b>₹</b> 50'29	-1.4m	minimum elong	8502 Oct 10 22:55	24° <b>£</b> 10′36	1°05'30
direct	8497 Jul 04 23:37	0° <b>√</b> 17'09			8502 Oct 19 12:50	0°M₊	
desc. node	8497 Aug 03 10:30	4° <b>∡</b> °48'58		max. Earth dist.	8502 Nov 06 16:09	12°M08'35	2.58748 AU
	8497 Oct 01 23:14	0°ප		morning rise	8502 Nov 30 12:16	27° <b>M</b> 47'25	
	8497 Nov 23 18:17	0° <b>≈</b>			8502 Dec 03 22:03	0° <b>∡</b> ¹	
	8498 Jan 09 16:25	0° <b>)</b> €			8503 Jan 20 02:57	o°ප	
	8498 Feb 21 23:19	$0^{\circ}\mathbf{\Upsilon}$			8503 Mar 10 05:09	0° <b>≈</b>	
evening set	8498 Mar 28 04:27	25° <b>Y</b> 08'15		desc. node	8503 Mar 27 05:17	10°≈02'26	
•	8498 Apr 03 15:11	0°8			8503 May 01 11:55	0° <b>∀</b>	
max. Earth dist.	8498 Apr 26 10:09		2.37895 AU		8503 Jul 04 22:58	$_{0}^{\circ}\Upsilon$	
	8498 May 12 12:54	0°Щ		retrograde	8503 Aug 12 00:32	7° <b>Ƴ</b> 19'08	
	01901114, 12 12.01	· <b>-</b>		opposition	8503 Sep 16 03:57	0° <b>Υ</b> 06'33	-5°24'58
conjunction	8498 May 30 04:11	13° <b>Ⅱ</b> 52'10	0028132	оррозиюн	8503 Sep 16 03:37	30° <b>₹</b>	3 24 30
·	•	13° <b>I</b> I57'19		arrantant brillianas	-	29° <b>₩</b> 32'29	-2.0m
minimum elong	8498 May 30 06:47		0 2840	greatest brilliancy	8503 Sep 17 18:30		
,	8498 Jun 19 13:37	0°95		min. Earth dist.	8503 Sep 24 16:14	27° <b>)</b> (16'47	0.50947 AU
asc. node	8498 Jul 09 21:38	16° <b>©</b> 04'51		direct	8503 Oct 24 17:43	21° <b>)</b> 16'06	
	8498 Jul 27 14:43	$0$ $\circ$ $\Omega$			8503 Dec 01 21:10	0°Υ	
morning rise	8498 Aug 11 01:35	11° <b>Ω</b> 15'05			8504 Jan 24 10:39	0° <b>8</b>	
	8498 Sep 04 13:04	0° <b>m</b>		asc. node	8504 Mar 01 21:32	26° <b>8</b> 20'40	
	8498 Oct 15 04:04	0∘ <b>⊽</b>			8504 Mar 06 20:37	$\Pi$ $^{\circ}0$	
	8498 Nov 27 05:57	$0^{\circ}$ M			8504 Apr 15 17:36	$0$ $\circ$ $\odot$	
	8499 Jan 12 20:03	0° <b>∡</b>			8504 May 25 09:42	$0^{\circ}\Omega$	
	8499 Mar 07 02:41	ರ°0			8504 Jul 05 02:04	0° <b>m</b>	
retrograde	8499 May 19 11:45	22° <b>る</b> 39'45			8504 Aug 16 10:43	0∘ <b>⊽</b>	
desc. node	8499 Jun 21 10:47	15° <b>る</b> 57'19			8504 Sep 29 16:02	0°M	
opposition	8499 Jun 28 15:41	13° <b>る</b> 10'11	-0°14'56	evening set	8504 Oct 03 15:52	2°M39'03	
11		*		<i>5</i>			

	8504 Nov 14 12:39	0° <b>₹</b>			8509 Aug 10 21:16	0°©	
					8509 Sep 19 13:23	$0^{\circ}\Omega$	
conjunction	8504 Nov 21 04:58	4° <b>≯</b> 18′06	0°40'16	asc. node	8509 Oct 22 20:37	24° <b>Ω</b> 30′23	
minimum elong	8504 Nov 21 06:05	4° <b>∡</b> 19'55	0°40'26		8509 Oct 30 13:47	0° <b>™</b>	
max. Earth dist.	8504 Nov 30 22:49	10° <b>х</b> 33′04	2.66172 AU		8509 Dec 15 06:43	0∘ <b>ত</b>	
	8504 Dec 31 12:05	0°ಕ		retrograde	8510 Feb 24 12:07	25° <b>≏</b> 48'32	
morning rise	8505 Jan 05 09:24	3° <b>る</b> 05'41		min. Earth dist.	8510 Mar 27 20:57	19° <b>Ω</b> 06'12	0.54359 AU
desc. node	8505 Feb 11 02:04	26° <b>ප</b> 14'08		greatest brilliancy	8510 Apr 02 20:40	16° <b>Ω</b> 48'53	-1.9m
	8505 Feb 17 01:47	0° <b>≈</b>		opposition	8510 Apr 04 03:47	16° <b>Ω</b> 19'04	5°10'15
	8505 Apr 06 00:11	0° <b>∀</b> 0° <b>Υ</b>		direct	8510 May 09 20:13 8510 Jul 20 07:54	8° <b>£</b> 23'20 0° <b>M</b>	
	8505 May 24 14:34 8505 Jul 14 07:48	0°8			8510 Sep 14 20:46	0 IIC 0° <b>√</b> 7	
	8505 Sep 13 21:18	0°II		desc. node	8510 Oct 03 22:49	10° <b>√</b> 59'08	
retrograde	8505 Oct 19 21:06	7° <b>I</b> I07'39		desc. flode	8510 Nov 04 21:39	0°る	
opposition	8505 Nov 19 02:20	2° <b>I</b> 02'19	-4°10'20		8510 Dec 23 01:49	0° <b>≈</b>	
greatest brilliancy	8505 Nov 20 00:28	1° <b>I</b> I47'00		evening set	8511 Jan 23 16:34	20° <b>≈</b> 35'18	
min. Earth dist.	8505 Nov 23 23:24		0.38175 AU	<b>3</b>	8511 Feb 06 18:18	0° <b>)</b> €	
	8505 Nov 26 13:48	30° <b>₹</b> 8		max. Earth dist.	8511 Feb 10 09:20	2° <b>)</b> €27'07	2.55718 AU
direct	8505 Dec 20 11:10	26° <b>8</b> 24'56					
	8506 Jan 12 19:26	$\Pi^{\circ}0$		conjunction	8511 Mar 12 12:06	23° <b>)</b> 13′40	-1°05'00
asc. node	8506 Jan 17 23:22	1° <b>Ⅱ</b> 39′24		minimum elong	8511 Mar 12 11:22	23° <b>¥</b> 12′22	1°04'58
	8506 Mar 13 17:07	$0$ $\circ$ $\odot$			8511 Mar 22 02:11	$0^{\circ}$ Y	
	8506 Apr 28 06:33	$0^{\circ}\Omega$			8511 May 02 08:12	$9^{\circ}$ 8	
	8506 Jun 11 10:04	0° <b>m</b>		morning rise	8511 May 03 16:47	1° <b>8</b> 00'37	
	8506 Jul 26 04:40	0∘ <b>ত</b>			8511 Jun 10 23:28	$\Pi$ °0	
	8506 Sep 10 02:54	0°M			8511 Jul 19 15:33	0°50	
	8506 Oct 27 01:09	0° <b>₹</b>			8511 Aug 27 03:38	0°N	
evening set	8506 Nov 12 09:40	10° <b>₹</b> 22'12		asc. node	8511 Sep 09 17:53	10° <b>Ω</b> 29'18	
E d F d	8506 Dec 13 09:42	0°る	2 (0100 ATT		8511 Oct 05 11:04	0° <b>m</b>	
max. Earth dist.	8506 Dec 23 15:00	6° <b>そ</b> 28'53	2.68100 AU		8511 Nov 15 20:10 8511 Dec 31 11:49	0° <b>Մ</b>	
conjunction	8506 Dec 27 11:08	8° <b>ろ</b> 55'09	0°01'21		8511 Dec 31 11:49 8512 Feb 29 11:35	0 IIC 0° <b>√</b> 7	
minimum elong	8506 Dec 27 11:10	8° <b>ろ</b> 55'12	0°01'32	retrograde	8512 Apr 02 19:54	6° <b>∡</b> <sup>7</sup> 20'08	
behind sun begin	8506 Dec 26 16:51	8° <b>පි</b> 26'08	0 0132	retrograde	8512 May 03 20:40	30°RM	
behind sun end	8506 Dec 28 05:29	9° <b>ප</b> 24'16		min. Earth dist.	8512 May 09 13:31	27°M47'38	0.64400 AU
desc. node	8506 Dec 29 23:30	10° <b>る</b> 31'01		opposition	8512 May 13 04:49	26°M20'49	3°15'15
	8507 Jan 29 12:24	0°≈		greatest brilliancy	8512 May 12 19:17	26°M30'18	-1.4m
morning rise	8507 Feb 09 00:57	6° <b>≈</b> 45'30		direct	8512 Jun 21 09:04	17°M10'02	
	8507 Mar 16 20:48	0° <b>∀</b>			8512 Aug 13 10:13	0° <b>∡</b> 7	
	8507 May 01 04:38	$0^{\circ}\Upsilon$		desc. node	8512 Aug 21 00:19	3° <b>҂</b> 12'42	
	8507 Jun 14 11:32	$9^{\circ}$ 8			8512 Oct 12 22:18	0°ප	
	8507 Jul 27 22:22	$\Pi^{\circ}0$			8512 Dec 02 15:05	0° <b>≈</b>	
	8507 Sep 09 07:00	0°95			8513 Jan 17 23:38	0° <b>)</b> €	
,	8507 Oct 25 04:05	0°N			8513 Mar 02 04:27	0°Υ 4° <b>Ω</b> (12100	
asc. node	8507 Dec 05 23:33	21°Ω16'35		evening set	8513 Mar 08 00:40	4°Υ12'09	2 42010 411
retrograde min. Earth dist.	8508 Jan 05 08:48 8508 Jan 31 09:24	27° <b>Ω</b> 22'09 22° <b>Ω</b> 50'06	0.40815 AU	max. Earth dist.	8513 Mar 23 00:49 8513 Apr 11 22:48	15° <b>Y</b> 09'09 0° <b>呂</b>	2.42818 AU
opposition	8508 Feb 07 23:28	22 <b>δι</b> 30 06 20° <b>Ω</b> 27'27			8313 Apr 11 22.48	0.0	
greatest brilliancy	8508 Feb 06 18:29	20°Ω50'23		conjunction	8513 May 04 01:48	16° <b>8</b> 52'20	-0°52'35
direct	8508 Mar 09 18:55	14° <b>Ω</b> 42'25	2.7	minimum elong	8513 May 04 04:23	16° <b>8</b> 57'19	
	8508 May 03 20:04	0° m/			8513 May 21 00:06	0°П	
	8508 Jun 28 22:57	0∘ <del>⊽</del>			8513 Jun 28 03:48	0ಂತಾ	
	8508 Aug 18 11:09	0°M		morning rise	8513 Jul 11 09:07	10° <b>©</b> 26'22	
	8508 Oct 06 17:04	0° <b>∡</b> ¹		asc. node	8513 Jul 27 15:16	23° <b>5</b> 514'19	
desc. node	8508 Nov 15 22:07	24° <b>₹</b> 51'53			8513 Aug 05 06:26	$0$ ° $\Omega$	
	8508 Nov 24 03:28	0°ಕ			8513 Sep 13 04:58	0° <b>™</b>	
evening set	8508 Dec 17 10:24	14° <b>る</b> 40'05			8513 Oct 23 20:34	0∘ <b>⊽</b>	
	8509 Jan 10 10:11	0° <b>≈</b>			8513 Dec 06 04:12	0° <b>™</b>	
max. Earth dist.	8509 Jan 14 11:46	2° <b>≈</b> 37'25	2.64520 AU		8514 Jan 22 19:35	0° <b>⊼</b>	
aanius -ti	9500 I 21 04 10	12020122	0020112	notno ar J-	8514 May 07 02:00	0°る 10° <b>ろ</b> 10'46	
conjunction	8509 Jan 31 04:10 8509 Jan 31 03:09	13°≈28'33		retrograde opposition	8514 May 07 02:09 8514 Jun 16 13:37	10°る10'46 0°る28'06	0046107
minimum elong	8509 Jan 31 03:09 8509 Feb 25 03:32	13°≈26'52 0° <b>米</b>	0 30 02	greatest brilliancy	8514 Jun 16 13:58		-1.3m
morning rise	8509 Feb 25 03:32 8509 Mar 17 09:44	13° <b>¥</b> 40'30		min. Earth dist.	8514 Jun 16 17:46	0° <b>る</b> 2743 0° <b>る</b> 23'59	-1.3m 0.68150 AU
	8509 Apr 10 02:27	0° <b>Υ</b>		Durin dist.	8514 Jun 17 17:59	0 ℃23 39 30°R <i>X</i>	3.00130 AU
	8509 May 22 08:02	0°8		desc. node	8514 Jul 09 00:32	22° <b>₹</b> '49'49	
	8509 Jul 02 02:14	0°II		direct	8514 Jul 27 17:10	20° <b>√</b> 37'40	

	8514 Sep 09 17:33	ರ°0		minimum elong	8519 Nov 06 22:11	19° <b>M</b> .57'52	0°52'46
	8514 Nov 10 03:44	0° <b>≈</b>		mmmum vong	8519 Nov 22 08:30	0°×7	0.02.0
	8514 Dec 28 21:06	0° <b>)</b> €		max. Earth dist.	8519 Nov 22 20:34	0° <b>х</b> 19′32	2.63905 AU
	8515 Feb 10 15:42	$_{0}^{\circ}\Upsilon$		morning rise	8519 Dec 23 14:59	20° <b>х</b> 03′03	
	8515 Mar 23 08:53	0°8		Č	8520 Jan 08 07:49	0°₹	
	8515 May 01 04:33	$\Pi^{\circ}0$			8520 Feb 25 07:22	0° <b>≈</b>	
evening set	8515 May 08 01:11	5° <b>Ⅱ</b> 23'40		desc. node	8520 Feb 28 16:00	2°≈04'45	
	8515 Jun 08 03:18	$0$ $\circ$ $\odot$			8520 Apr 14 08:58	0° <b>)</b> €	
asc. node	8515 Jun 14 12:54	5° <b>©</b> 04'22			8520 Jun 04 17:39	$0$ ° $\Upsilon$	
	8515 Jul 16 04:00	$0^{\circ}\Omega$			8520 Aug 04 02:58	0°8	
				retrograde	8520 Sep 19 03:20	10° <b>8</b> 34'31	
conjunction	8515 Jul 17 15:19	1° <b>\O</b> 09'01	0°23'20	opposition	8520 Oct 21 05:29	4° <b>8</b> 41'07	-5°40'52
minimum elong	8515 Jul 17 12:56	1° <b>Ω</b> 04'21	0°23'08	greatest brilliancy	8520 Oct 22 22:50	4° <b>8</b> 08'49	-2.6m
	8515 Aug 24 03:29	0° <b>m</b> ∕		min. Earth dist.	8520 Oct 29 04:23	2° <b>8</b> 13'13	0.42493 AU
max. Earth dist.	8515 Sep 09 00:16	11° <b>m</b> 52'42	2.40782 AU		8520 Nov 06 07:30	30° <b>₹</b> Υ	
morning rise	8515 Sep 24 11:10	23° Mp 14'16		direct	8520 Nov 24 21:02	27° <b>Ƴ</b> 38'11	
	8515 Oct 03 19:29	0∘ <b>⊽</b>			8520 Dec 13 11:15	0° <b>8</b>	
	8515 Nov 15 17:31	0°M		asc. node	8521 Feb 03 14:59	24° <b>8</b> 05'59	
	8515 Dec 31 10:10	0° <b>∡</b> 7			8521 Feb 13 01:36	0°II	
	8516 Feb 18 23:54	0°ප			8521 Mar 28 23:54	0°©	
	8516 Apr 18 01:07	0° <b>≈</b>			8521 May 09 19:33	0° <b>N</b>	
desc. node	8516 May 25 23:14	11°≈45'45			8521 Jun 21 00:07	0° Mp	
retrograde	8516 Jun 10 12:46	13°≈08'27	1054100		8521 Aug 03 12:26	0∘ <b>亚</b>	
opposition	8516 Jul 19 20:34	4°≈05'55			8521 Sep 17 14:24	0°M	
greatest brilliancy	8516 Jul 20 02:09	4°≈00'29		evening set	8521 Oct 28 16:33	26°M35'55	
min. Earth dist.	8516 Jul 23 19:35	2°≈33'37 30°Rる	0.65330 AU		8521 Nov 03 00:01	0° <b>∡</b> 7	
diract	8516 Jul 30 15:30	30 <sup>-</sup> KO 24° <b>ろ</b> 02'58		agniumation	9521 Dag 12 16:42	25° <b>₹</b> 54'59	0°17'03
direct	8516 Aug 30 11:20 8516 Oct 02 17:11	24 <b>3</b> 02 38 0° <b>≈</b>		conjunction minimum elong	8521 Dec 13 16:43 8521 Dec 13 17:15	25° <b>x</b> '55'48	0°17'15
	8516 Dec 03 20:16	0 <b>∞</b> 0° <b>∀</b>		max. Earth dist.	8521 Dec 14 21:13	25 × 33 48 26° × 40'11	2.67995 AU
	8517 Jan 19 04:49	0°Υ		max. Earth dist.	8521 Dec 14 21:13 8521 Dec 20 03:09	20 x 40 11 0°る	2.07993 AU
	8517 Jan 19 04.49 8517 Mar 01 16:09	0°8		desc. node	8522 Jan 15 13:16	16° <b>පි</b> 46'23	
	8517 Apr 09 17:27	0°II		morning rise	8522 Jan 26 12:59	23° <b>ප්</b> 45'30	
asc. node	8517 May 01 13:41	17° <b>I</b> I10'12		morning rise	8522 Feb 05 08:11	0°≈	
use. Houe	8517 May 17 19:38	0°95			8522 Mar 24 03:47	0° <b>)</b> €	
	8517 Jun 25 01:35	$0^{\circ}\Omega$			8522 May 09 09:43	$0^{\circ}\Upsilon$	
evening set	8517 Jul 20 19:26	19° <b>Ω</b> 46'19			8522 Jun 24 05:10	0°8	
C	8517 Aug 03 09:05	0° m			8522 Aug 09 03:34	$\Pi^{\circ}0$	
	8517 Sep 13 10:13	0∘ <b>⊽</b>			8522 Sep 26 12:06	0°ಲ	
	•			retrograde	8522 Dec 09 06:57	27° <b>©</b> 00'37	
conjunction	8517 Sep 21 01:27	5° <b>≏</b> 25'14	1°06'27	asc. node	8522 Dec 22 15:27	25°549'00	
minimum elong	8517 Sep 21 00:57	5° <b>£</b> 24'22	1°06'27	min. Earth dist.	8523 Jan 05 04:16	22° <b>©</b> 38'23	0.37249 AU
max. Earth dist.	8517 Oct 25 19:44	29° <b>ഫ</b> 29'39	2.54427 AU	opposition	8523 Jan 09 05:35	21° <b>©</b> 31'17	1°20'19
	8517 Oct 26 13:37	$0^{\circ}$ M.		greatest brilliancy	8523 Jan 08 23:25	21° <b>©</b> 35'33	-3.0m
morning rise	8517 Nov 14 08:33	12°M36'38		direct	8523 Feb 07 12:04	16° <b>©</b> 33'03	
	8517 Dec 10 21:19	0°⊀			8523 Mar 29 10:32	$0 {\circ} \Omega$	
	8518 Jan 27 09:28	0°₹			8523 May 23 04:41	O° My	
	8518 Mar 18 15:43	0° <b>≈</b>			8523 Jul 10 23:24	0∘ <b>ত</b>	
desc. node	8518 Apr 12 20:04	14° <b>≈</b> 03'42			8523 Aug 28 00:16	0°M₊	
_	8518 May 14 02:53	0° <b>)</b> (			8523 Oct 15 02:30	0° <b>∡</b> 7	
retrograde	8518 Jul 22 18:13	20° <b>)</b> 17′25			8523 Dec 02 00:08	0° <b>ろ</b>	
opposition	8518 Aug 28 11:47	12° <b>)</b> € 24′26		desc. node	8523 Dec 03 12:10	0° <b>る</b> 56'45	
greatest brilliancy	8518 Aug 29 15:40	11° <b>)</b> 58'41	-1.8m	evening set	8523 Dec 04 12:34	1°る35'12	2 ((5(1) 1))
min. Earth dist.	8518 Sep 05 00:22	9° <b>)</b> (38'08	0.56077 AU	max. Earth dist.	8524 Jan 06 12:29	22° <b>6</b> 31'52	2.66561 AU
direct	8518 Oct 07 13:15	2° <b>¥</b> 55'07 0° <b>Υ</b>		:	0524 I 10 01.10	200=255150	0022122
	8518 Dec 21 19:42			conjunction	8524 Jan 18 01:10	29°る55'50	
	8519 Feb 05 10:50 8519 Mar 18 00:45	0°¤ 8°0		minimum elong	8524 Jan 18 00:29 8524 Jan 18 03:46	29°る54'44 0°≈	0 23 23
asc. node	8519 Mar 18 00:45 8519 Mar 19 14:57	0°П 1°П12'44		morning rise	8524 Mar 02 04:42	0°≈ 28°≈45'48	
asc. nouc	8519 Mar 19 14.37 8519 Apr 26 00:13	л <b>п</b> л244		morning rise	8524 Mar 04 01:26	28 <b>≈</b> 43 48 0° <b>H</b>	
	8519 Apri 20 00:13 8519 Jun 04 00:40	0°Ω 0 €3			8524 Apr 17 10:47	0° <b>Υ</b>	
	8519 Jul 14 03:08	0° mp			8524 May 30 07:31	0°8	
	8519 Aug 24 23:11	0∘ <b>ʊ</b> 0 ıı⁄ı			8524 Jul 10 19:51	0°II	
evening set	8519 Sep 16 18:13	0 <b>—</b> 15° <b>Ω</b> 46'50			8524 Aug 20 11:13	0°e 0 π	
	8519 Oct 07 18:15	0°M			8524 Sep 30 05:25	$0^{\circ}\Omega$	
				asc. node	8524 Nov 08 15:00	27° <b>Ω</b> 32'49	
conjunction	8519 Nov 06 20:55	19° <b>M</b> 55'48	0°52'37		8524 Nov 12 08:25	0° mp	
•						7	

•			`	,,		, ,	
	8525 Jan 06 20:23	0∘ <b>⊽</b>		evening set	8530 Apr 11 11:12	8° <b>8</b> 51'08	
retrograde	8525 Feb 06 20:16	6° <b>£</b> 16'41			8530 May 08 17:34	$\Pi^{\circ}0$	
min. Earth dist.	8525 Mar 07 19:21	0° <b>ჲ</b> 28'33	0.49063 AU		8530 Jun 15 17:26	$0$ $\circ$ $\odot$	
	8525 Mar 09 03:15	30°R Mp					
greatest brilliancy	8525 Mar 14 12:07	28° Mp 02'06		conjunction	8530 Jun 16 20:10	0° <b>©</b> 52'57	
opposition	8525 Mar 16 02:07	27° <b>m</b> 27'19	5°25'13	minimum elong	8530 Jun 16 21:19	0° <b>©</b> 55'15	0°10'39
direct	8525 Apr 18 22:00	20° m/16'06		behind sun begin	8530 Jun 15 22:10	0°509'23	
	8525 Jun 01 11:30	0∘ <b>亚</b>		behind sun end	8530 Jun 17 20:29	1°541'06	2 26562 444
	8525 Aug 02 02:33	0°M		max. Earth dist.	8530 Jun 26 15:57		2.36569 AU
desc. node	8525 Sep 23 12:46 8525 Oct 20 12:04	0° <b>₰</b> 16° <b>₰</b> 06'51		asc. node	8530 Jul 01 07:24 8530 Jul 23 17:53	12° <b>©</b> 20'12 0° <b>Ω</b>	
desc. node	8525 Nov 12 06:22	0°중		morning rise	8530 Aug 28 20:02	27° <b>Ω</b> 51'46	
	8525 Nov 12 00:22 8525 Dec 29 23:50	0° <b>≈</b>		morning risc	8530 Aug 31 15:39	0° m	
evening set	8526 Jan 08 17:18	6°≈16'38			8530 Oct 11 05:31	0∘ <b>⊽</b>	
max. Earth dist.	8526 Jan 30 00:40		2.59743 AU		8530 Nov 23 04:03	0°M	
	8526 Feb 13 15:26	0° <b>)</b> €			8531 Jan 08 06:39	0° <b>∡</b> ¹	
					8531 Feb 28 16:08	8°0	
conjunction	8526 Feb 23 19:42	6° <b>)</b> 53′19	-0°57'19		8531 May 20 14:09	0° <b>≈</b>	
minimum elong	8526 Feb 23 18:33	6° <b>⊁</b> 51′21	0°57'14	retrograde	8531 May 28 07:42	0° <b>≈</b> 21′26	
	8526 Mar 29 04:00	$0$ ° $\mathbf{\Upsilon}$			8531 Jun 04 20:46	30°Rる	
morning rise	8526 Apr 13 09:22	10° <b>Ƴ</b> 49'58		desc. node	8531 Jun 12 13:12	28° <b>る</b> 53'17	
	8526 May 09 17:48	0°B		opposition	8531 Jul 07 06:12	21° <b>ろ</b> 00'29	
	8526 Jun 18 17:47	0° <b>Ⅱ</b>		greatest brilliancy	8531 Jul 07 07:39	20°る59'04	
	8526 Jul 27 18:00	0° <b>©</b>		min. Earth dist.	8531 Jul 09 17:50		0.67217 AU
1-	8526 Sep 04 13:35	0° <b>Ω</b> 16° <b>Ω</b> 41'17		direct	8531 Aug 17 21:20	10°る58'47 0°≈	
asc. node	8526 Sep 26 10:46 8526 Oct 14 06:01	0°M)			8531 Oct 22 10:10 8531 Dec 14 17:09	0° <b>∺</b>	
	8526 Nov 25 10:05	0° <del>ت</del>			8531 Dec 14 17:09 8532 Jan 28 15:43	0° <b>Υ</b>	
	8527 Jan 12 21:44	0° <b>™</b>			8532 Mar 09 17:06	0° <b>8</b>	
retrograde	8527 Mar 20 18:27	21°M59'04			8532 Apr 17 14:54	0°II	
min. Earth dist.	8527 Apr 24 13:43	14°ML04'40	0.61172 AU	asc. node	8532 May 18 06:10	24° <b>Ⅱ</b> 10′31	
opposition	8527 Apr 29 16:43	12°ML03'14	4°06'56		8532 May 25 14:41	0ಂತಾ	
greatest brilliancy	8527 Apr 28 23:33	12°M20'12	-1.6m	greatest brilliancy	8532 May 31 06:12	4°528'04	1.2m
direct	8527 Jun 06 16:47	3°M16'28		evening set	8532 Jun 22 05:24	21° <b>5</b> 47'03	
	8527 Aug 28 17:22	0° <b>∡</b> ¹			8532 Jul 02 17:34	$0^{\circ}\Omega$	
desc. node	8527 Sep 07 13:07	5° <b>∡</b> 00'34			8532 Aug 10 20:46	0° <b>т</b> р	
	8527 Oct 22 16:19	ව°0 0°			0522 4 20 22 50	1207 25151	0050145
	8527 Dec 11 02:33	0° <b>∺</b>		conjunction	8532 Aug 28 22:50 8532 Aug 28 20:33	13° Mp 27'54	
evening set	8528 Jan 26 02:53 8528 Feb 18 08:46	15° <b>X</b> 54'59		minimum elong	8532 Aug 28 20:33 8532 Sep 20 16:49	13°₩23'42 0°₽	0-3841
max. Earth dist.	8528 Mar 03 05:01		2.48168 AU	max. Earth dist.	8532 Oct 11 13:02		2.49373 AU
max. Darth dist.	8528 Mar 09 07:59	0°Υ	2.10100710	morning rise	8532 Oct 27 06:26	25° <b>£</b> 37'31	2.19373710
					8532 Nov 02 16:17	0°M	
conjunction	8528 Apr 10 18:34	23° <b>Y</b> 39'50	-1°04'47		8532 Dec 18 00:22	0°⊀	
minimum elong	8528 Apr 10 19:36	23° <b>Y</b> 41'45	1°04'50		8533 Feb 04 00:26	5°0	
	8528 Apr 19 06:08	$9^{\circ}$ 8			8533 Mar 28 03:15	0° <b>≈</b>	
	8528 May 28 11:59	$\Pi^{\circ}0$		desc. node	8533 Apr 29 10:26	16° <b>≈</b> 18'15	
morning rise	8528 Jun 10 23:09	10° <b>Ⅱ</b> 29'39			8533 Jun 03 13:35	0° <b>∀</b>	
	8528 Jul 05 19:20	0.20		retrograde	8533 Jul 05 00:31	5° <b>)</b> €07'32	
greatest brilliancy	8528 Aug 06 16:49	25°504'08	1.2m	•,•	8533 Aug 02 21:45	30°R≈	202404
asc. node	8528 Aug 13 08:11 8528 Aug 13 00:16	0° <b>Ω</b> 15'27 0° <b>Ω</b>		opposition greatest brilliancy	8533 Aug 11 23:35 8533 Aug 12 17:07	26°≈42'36 26°≈25'58	
	8528 Sep 21 00:15	0° <b>m</b>		min. Earth dist.	8533 Aug 12 17:07 8533 Aug 18 04:48		0.60416 AU
	8528 Oct 31 18:46	0° <del>ت</del>		direct	8533 Sep 21 23:15	16°≈51'35	0.00410 AC
	8528 Dec 14 13:53	0° <b>M</b>		direct	8533 Nov 11 06:43	0° <b>)</b> €	
	8529 Feb 02 03:55	0° <b>∡</b> 7			8534 Jan 03 06:34	0° <b>Υ</b>	
retrograde	8529 Apr 23 21:36	27° <b>∡</b> ³35'49			8534 Feb 15 09:07	0°8	
min. Earth dist.	8529 Jun 02 04:24	18° <b>∡</b> 14'44	0.67469 AU		8534 Mar 27 02:07	$\Pi^{\circ}0$	
opposition	8529 Jun 03 11:48	17° <b>∡</b> ⁴43'31	1°45'34	asc. node	8534 Apr 05 06:07	7° <b>Ⅱ</b> 06'22	
greatest brilliancy	8529 Jun 03 10:11	17° <b>∡</b> ¹45′08	-1.3m		8534 May 04 13:44	$0$ $\circ$ $\odot$	
direct	8529 Jul 14 00:52	8° <b>∡</b> 05'23			8534 Jun 12 04:28	$0^{\circ}\Omega$	
desc. node	8529 Jul 25 14:00	8° <b>∡</b> ′51'40			8534 Jul 21 21:29	0° <b>m</b> y	
	8529 Sep 25 06:48	5°0		evening set	8534 Aug 27 14:06	26° m 37'44	
	8529 Nov 19 04:19	0° <b>≈</b>			8534 Sep 01 08:16	0∘ <b>w</b>	
	8530 Jan 05 16:15	0° <b>ℋ</b> 0° <b>Ƴ</b>			8534 Oct 14 19:35	0° <b>M</b>	
	8530 Feb 18 03:27 8530 Mar 30 20:19	0 <sub>0</sub> .გ		conjunction	8534 Oct 21 04:31	4° <b>I</b> ቤ17'09	1°02'00
	0330 Mai 30 20:19	0.0		conjunction	0554 OCt 21 04:51	4 1161/09	1 02 00

minimum elong	8534 Oct 21 05:34	4°M18'54		retrograde	8540 Jan 18 11:53	13°Mp02'58	
max. Earth dist.	8534 Nov 12 20:17		2.60814 AU	min. Earth dist.	8540 Feb 14 07:33	8° Mp 07'40	0.43601 AU
	8534 Nov 29 05:22	0° <b>⊼</b>		greatest brilliancy	8540 Feb 21 02:52	5° Mp 50′48	-2.5m
morning rise	8534 Dec 09 04:09	6° <b>∡</b> ¹25'25		opposition	8540 Feb 22 15:32	5° Mp 19'48	4°56'40
	8535 Jan 15 06:50	0°₹			8540 Mar 13 15:17	$30^\circ$ R $\Omega$	
	8535 Mar 04 20:52	0° <b>≈</b>		direct	8540 Mar 25 11:25	29° <b>Ω</b> 02'28	
desc. node	8535 Mar 17 07:17	7° <b>≈</b> 30'17			8540 Apr 06 18:43	0° <b>m</b> ∤	
	8535 Apr 24 15:36	0° <b>∀</b>			8540 Jun 20 13:06	0∘ <b>ত</b>	
	8535 Jun 20 12:52	$0$ ° $\mathbf{\Upsilon}$			8540 Aug 12 09:32	0° <b>M</b>	
retrograde	8535 Aug 24 23:50	18° <b>Ƴ</b> 37'42			8540 Oct 01 13:02	0° <b>∡</b> ¹	
opposition	8535 Sep 28 01:42	11° <b>Y</b> 51'12	-5°43'47	desc. node	8540 Nov 06 01:14	21° <b>х</b> 44'00	
greatest brilliancy	8535 Sep 29 20:29	11° <b>Y</b> 14'38	-2.2m		8540 Nov 19 09:06	o°ප	
min. Earth dist.	8535 Oct 06 18:23	8° <b>Ƴ</b> 53'44	0.47933 AU	evening set	8540 Dec 25 10:19	22° <b>る</b> 42'27	
direct	8535 Nov 04 12:08	3° <b>Ƴ</b> 31'44		C	8541 Jan 05 19:30	0° <b>≈</b>	
	8536 Jan 15 00:56	0°8		max. Earth dist.	8541 Jan 19 23:48	9° <b>≈</b> 10'47	2.63054 AU
asc. node	8536 Feb 21 07:49	24° <b>8</b> 43'37					
ase. noue	8536 Feb 28 17:43	0°II		conjunction	8541 Feb 08 11:34	21° <b>≈</b> 58'55	-0°45'58
	8536 Apr 09 11:40	0°©		minimum elong	8541 Feb 08 10:25	21°≈57'00	
	8536 May 19 16:18	0° <b>Ω</b>		minimum ciong	8541 Feb 20 12:22	0° <b>∀</b>	0 43 30
	8536 Jun 29 18:01	0° <b>m</b> )		morning rise	8541 Mar 26 15:07	23° <b>)</b> 14'44	
		0∘ <b>⊽</b>		morning rise		23 χ 14 44 0° <b>Υ</b>	
	8536 Aug 11 09:54				8541 Apr 05 07:54		
. ,	8536 Sep 24 20:54	0°M			8541 May 17 07:51	0° <b>∀</b>	
evening set	8536 Oct 13 02:00	11°M58'51			8541 Jun 26 19:17	0°∏	
	8536 Nov 09 20:58	0° <b>∡</b> ¹			8541 Aug 05 06:33	0° <b>©</b>	
				_	8541 Sep 13 13:16	0° <b>Ω</b>	
conjunction	8536 Nov 29 13:11	12° <b>⋌</b> ³36'52		asc. node	8541 Oct 13 05:46	22° <b>Ω</b> 13'34	
minimum elong	8536 Nov 29 14:08	12° <b>∡</b> ³38′22			8541 Oct 23 21:25	0° <b>™</b>	
max. Earth dist.	8536 Dec 06 03:38		2.67055 AU		8541 Dec 06 15:46	0∘ <b>⊽</b>	
	8536 Dec 26 20:55	0°ಕ			8542 Feb 02 00:46	0° <b>M</b>	
morning rise	8537 Jan 13 02:56	10° <b>る</b> 55'44		retrograde	8542 Mar 05 17:48	6° <b>™</b> 11'55	
desc. node	8537 Feb 01 04:21	22°る59'09			8542 Apr 04 19:42	30° <b>Ŗ亞</b>	
	8537 Feb 12 06:41	0° <b>≈</b>		min. Earth dist.	8542 Apr 07 09:04	29° <b>₽</b> 02'08	0.57007 AU
	8537 Mar 31 17:34	0° <b>∀</b>		opposition	8542 Apr 13 22:40	26° <b>≏</b> 29'07	4°51'10
	8537 May 18 07:00	$0$ ° $\Upsilon$		greatest brilliancy	8542 Apr 12 20:34	26° <b>≏</b> 54'30	-1.8m
	8537 Jul 05 14:44	$_{0\circ}$ 8		direct	8542 May 20 12:59	18° <b>≙</b> 12'51	
	8537 Aug 26 06:22	$\Pi^{\circ}0$			8542 Jul 09 06:14	$0^{\circ}$ M	
retrograde	8537 Nov 07 11:48	24° <b>Ⅱ</b> 45'46			8542 Sep 08 13:02	0° <b>∡</b> ¹	
opposition	8537 Dec 07 06:49	19° <b>Ⅱ</b> 50'44	-2°26'03	desc. node	8542 Sep 24 01:50	8° <b>₹</b> ³39'08	
greatest brilliancy	8537 Dec 07 14:15	19° <b>Ⅱ</b> 45'46	-3.0m		8542 Oct 30 16:52	8°0	
min. Earth dist.	8537 Dec 09 03:49	19° <b>Ⅱ</b> 20'43			8542 Dec 18 06:54	0° <b>≈</b>	
direct	8538 Jan 06 08:21	14° <b>Ⅱ</b> 46′12		evening set	8543 Feb 01 15:23	29° <b>≈</b> 41'39	
asc. node	8538 Jan 08 07:50	14° <b>Ⅱ</b> 47'48		8	8543 Feb 02 02:16	0° <b>∀</b>	
ase. noue	8538 Feb 27 08:52	0ංම		max. Earth dist.	8543 Feb 17 13:53	10° <b>)</b> 32′24	2.53187 AU
	8538 Apr 19 15:32	0°N		man. Darun dige.	8543 Mar 17 09:32	0°Υ	2.03107110
	8538 Jun 04 17:36	0° <b>m</b> )			05 15 War 17 05.52	• •	
	8538 Jul 20 12:01	0∘ <mark>ಹ</mark>		conjunction	8543 Mar 22 18:27	3° <b>Y</b> 50'09	-1°07'03
	8538 Sep 05 00:21	0° <b>™</b>		minimum elong	8543 Mar 22 18:11	3° <b>Υ</b> 49'40	
	8538 Oct 22 06:40	0° <b>⊼</b> 7		minimum clong	8543 Apr 27 13:03	0° <b>8</b>	1 07 03
evening set	8538 Nov 20 12:30	18° <b>∡</b> ¹27'16		morning rise	8543 May 16 15:51	14° <b>8</b> 23'25	
evening set		18 <b>メ</b> ・27 10 0° <b>る</b>		morning rise	•		
1 1	8538 Dec 08 19:05				8543 Jun 06 01:14	0°∏	
desc. node	8538 Dec 20 01:57	7° <b>る</b> 08'49	2 (7704 ATT		8543 Jul 14 14:07	0° <b>©</b>	
max. Earth dist.	8538 Dec 28 16:36	12°036'49	2.67794 AU	,	8543 Aug 21 23:12	0° <b>Ω</b>	
				asc. node	8543 Aug 31 02:24	7° <b>Ω</b> 04'47	
conjunction	8539 Jan 04 06:14	16° <b>る</b> 47'39			8543 Sep 30 02:53	0° <b>m</b>	
minimum elong	8539 Jan 04 05:59	16° <b>る</b> 47'16	0°07'48		8543 Nov 10 04:02	0∘ <b>⊽</b>	
behind sun begin	8539 Jan 03 13:41	16° <b>る</b> 21'18			8543 Dec 24 20:28	0°M₊	
behind sun end	8539 Jan 04 22:18	17° <b>る</b> 13'13			8544 Feb 16 14:59	0° <b>∡</b> ¹	
	8539 Jan 24 21:54	0° <b>≈</b>		retrograde	8544 Apr 10 14:46	14° <b>≯</b> 35′02	
morning rise	8539 Feb 16 21:34	14° <b>≈</b> 50′30		min. Earth dist.	8544 May 18 07:27	5° <b>х</b> 43′52	0.65756 AU
	8539 Mar 12 02:09	0° <b>∀</b>		opposition	8544 May 21 02:41	4° <b>∡</b> ³36'57	2°43'04
	8539 Apr 26 01:16	$0^{\circ}$ Y		greatest brilliancy	8544 May 20 20:38	4° <b>∡</b> °42'58	-1.4m
	8539 Jun 08 18:05	$0^{\circ}$ 8			8544 Jun 02 09:45	30°RM	
	8539 Jul 21 08:27	$\Pi^{\circ}0$		direct	8544 Jun 29 19:41	25°M15'09	
	8539 Sep 01 09:21	0ංම			8544 Jul 30 00:41	0° <b>∡</b>	
	8539 Oct 14 09:46	$0^{\circ}\Omega$		desc. node	8544 Aug 11 02:51	3° <b>₹</b> '55'13	
asc. node	8539 Nov 26 07:03	26° <b>£</b> 23′30			8544 Oct 06 11:40	ರ°0	
	8539 Dec 03 07:48	0° <b>m</b> )			8544 Nov 27 09:17	0° <b>≈</b>	
		-					

	0545 I 12 02.50	001			0540 N 22 17-20	210 <b>M</b> 55100	
	8545 Jan 13 02:59	0° <b>)</b> €		morning rise	8549 Nov 23 17:39	21°M55'00	
	8545 Feb 25 10:21	0° <b>Υ</b>			8549 Dec 06 03:15	0° <b>∡</b>	
evening set	8545 Mar 19 14:39	16° <b>Y</b> ′07'46			8550 Jan 22 09:50	0°ಕ	
	8545 Apr 07 04:24	0°8			8550 Mar 12 21:35	0° <b>≈</b>	
max. Earth dist.	8545 Apr 08 04:36	_	2.39936 AU	desc. node	8550 Apr 02 22:00	12° <b>≈</b> 10′24	
	8545 May 16 04:21	$\Pi$ $^{\circ}0$			8550 May 05 12:50	0° <b>∀</b>	
					8550 Jul 28 13:45	$0$ ° $\mathbf{\gamma}$	
conjunction	8545 May 18 20:06	2° <b>Ⅱ</b> 04'38	-0°40'22	retrograde	8550 Aug 02 21:25	0° <b>Υ</b> 10′03	
minimum elong	8545 May 18 23:03	2° <b>Ⅱ</b> 10′25	0°40'31	C	8550 Aug 08 02:48	30°₽ <b>)</b>	
8	8545 Jun 23 06:26	0ಂಣ - —		opposition	8550 Sep 07 18:29	22° <b>)</b> 38′22	-5°04'56
asc. node	8545 Jul 17 23:12	19° <b>©</b> 30'35		* *	8550 Sep 09 04:37	22° <b>H</b> 07'31	
				greatest brilliancy	•		
morning rise	8545 Jul 29 07:14	28° <b>©</b> 24'54		min. Earth dist.	8550 Sep 15 21:37	19° <b>)</b> (42′30	0.53310 AU
	8545 Jul 31 07:49	$0$ $^{\circ}$ $\Omega$		direct	8550 Oct 17 02:17	13° <b>∺</b> 27'51	
	8545 Sep 08 05:25	0° <b>m</b> y			8550 Dec 11 09:56	$0$ ° $\mathbf{\Upsilon}$	
	8545 Oct 18 19:07	0∘ <b>⊽</b>			8551 Jan 29 08:28	$9^{\circ}$ 8	
	8545 Nov 30 21:20	$0^{\circ}$ M		asc. node	8551 Mar 09 22:37	28° <b>8</b> 34'16	
	8546 Jan 16 17:54	0° <b>∡</b> ¹			8551 Mar 11 20:26	$\Pi^{\circ}0$	
	8546 Mar 12 14:42	5°0			8551 Apr 20 06:33	0°9	
retrograde	8546 May 14 17:22	7° <b>る</b> 50'15			8551 May 29 14:22	$0^{\circ}\Omega$	
opposition	8546 Jun 24 01:29	8°る14'34	0910127		8551 Jul 08 23:14	0° <b>m</b>	
**						-	
greatest brilliancy	8546 Jun 24 01:46	8° <b>る</b> 14'17	-1.3m		8551 Aug 20 00:42	0∘ <b>ত</b>	
min. Earth dist.	8546 Jun 25 01:34	7° <b>る</b> 50'48	0.68094 AU	evening set	8551 Sep 27 04:18	26° <b>≙</b> 05'47	
desc. node	8546 Jun 29 02:55	6° <b>る</b> 15'23			8551 Oct 03 00:11	$0^{\circ}$ M	
	8546 Jul 19 02:33	30°Ŗ <b>⋌</b> ¹					
direct	8546 Aug 04 10:34	28° <b>∡</b> 19′00		conjunction	8551 Nov 15 18:00	28° <b>M</b> 44'21	0°45'42
	8546 Aug 21 16:31	8°0		minimum elong	8551 Nov 15 19:13	28°M46'20	0°45'52
	8546 Nov 03 11:42	0° <b>≈</b>			8551 Nov 17 16:47	0° <b>∡</b> 7	
	8546 Dec 23 11:04	0° <b>∀</b>		max. Earth dist.	8551 Nov 28 06:29		2.65269 AU
	8547 Feb 05 14:53	0°Υ			8551 Dec 31 13:18	28°×702'38	2.03207 AC
				morning rise			
	8547 Mar 18 11:08	0°8			8552 Jan 03 15:25	0°る	
	8547 Apr 26 07:42	0°Щ		desc. node	8552 Feb 18 18:28	29° <b>る</b> 00'14	
evening set	8547 May 24 07:16	22° <b>Ⅱ</b> 05'41			8552 Feb 20 08:45	0° <b>≈</b>	
	8547 Jun 03 06:30	0			8552 Apr 08 17:37	0° <b>ℋ</b>	
asc. node	8547 Jun 04 22:42	1° <b>©</b> 19'43			8552 May 28 08:11	$0$ $^{\circ}$ $\Upsilon$	
	8547 Jul 11 07:17	$0^{\circ}\Omega$			8552 Jul 20 19:31	$6^{\circ}B$	
				retrograde	8552 Oct 05 19:39	25° <b>8</b> 19'46	
conjunction	8547 Aug 03 04:34	17° <b>Ω</b> 44'11	0°39'32	opposition	8552 Nov 05 19:41	19° <b>8</b> 55'29	-5°03'18
	05 17 11 <b>45</b> 05 01.51		0 37 32	оррозион	05521101 05 17.11	17 03327	5 05 10
	9547 Aug 02 01:20	170 0 20100	0°20'21	grantagt brilliangy	9552 Nov. 07 04:25	100 🔀 21/20	2 0m
minimum elong	8547 Aug 03 01:20	17° <b>Ω</b> 38'00	0°39'21	greatest brilliancy	8552 Nov 07 04:35	19° <b>8</b> 31'30	
C	8547 Aug 19 07:10	0° m/		min. Earth dist.	8552 Nov 12 11:31	17° <b>8</b> 59'48	-2.8m 0.39864 AU
minimum elong max. Earth dist.	8547 Aug 19 07:10 8547 Sep 23 22:00	0° <b>т</b> р 26° <b>т</b> р 21'06	0°39'21 2.43852 AU	min. Earth dist. direct	8552 Nov 12 11:31 8552 Dec 08 15:02	17° <b>8</b> 59'48 13° <b>8</b> 41'20	
C	8547 Aug 19 07:10	0° m/		min. Earth dist.	8552 Nov 12 11:31	17° <b>8</b> 59'48 13° <b>8</b> 41'20 27° <b>8</b> 03'08	
C	8547 Aug 19 07:10 8547 Sep 23 22:00	0° <b>т</b> р 26° <b>т</b> р 21'06		min. Earth dist. direct	8552 Nov 12 11:31 8552 Dec 08 15:02	17° <b>8</b> 59'48 13° <b>8</b> 41'20	
max. Earth dist.	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19	0° Mp 26° Mp 21′06 0° <u>Ω</u>		min. Earth dist. direct	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31	17° <b>8</b> 59'48 13° <b>8</b> 41'20 27° <b>8</b> 03'08	
max. Earth dist.	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58	0° M 26° M 21'06 0° Ω 6° Ω 11'20		min. Earth dist. direct	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42	17° <b>8</b> 59'48 13° <b>8</b> 41'20 27° <b>8</b> 03'08 0° <b>I</b> I	
max. Earth dist.	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50	0° <b>™</b> 26° <b>™</b> 21'06 0° <b>Ω</b> 6° <b>Ω</b> 11'20 0° <b>™</b>		min. Earth dist. direct	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08	17°\859'48 13°\841'20 27°\803'08 0°\II 0°\\$ 0°\Ω	
max. Earth dist.	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16	0°順 26°順21'06 0°요 6°요11'20 0°肌 0°* 0°중		min. Earth dist. direct	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35	17°859'48 13°841'20 27°803'08 0°耳 0°の 0°の 0°の	
max. Earth dist.	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55	0° M 26° M 21'06 0° Ω 6° Ω 11'20 0° M 0° ズ 0° ℧ 0° ℧		min. Earth dist. direct	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10	17°と59'48 13°と41'20 27°と03'08 0°耳 0°野 0°の 0°か 0°क	
max. Earth dist. morning rise desc. node	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35	0° M 26° M 21'06 0° Ω 6° Ω 11'20 0° M 0° ズ 0° 줍 0° ≈ 15° ≈ 18'51		min. Earth dist. direct	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55	17° \S59'48 13° \S41'20 27° \S03'08 0° II 0° © 0° A 0° M 0° M 0° M	
max. Earth dist. morning rise  desc. node retrograde	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jun 19 01:49	0°順 26°順21'06 0°亞 6°亞11'20 0°째 0°중 0°중 0°≈ 15°≈18'51 21°≈13'45	2.43852 AU	min. Earth dist. direct asc. node	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35	17°\\$59'48 13°\\$41'20 27°\\$03'08 0°耳 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$	
max. Earth dist. morning rise  desc. node retrograde opposition	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jun 19 01:49 8548 Jul 27 23:46	0° My 26° My 21'06 0° Ω 6° Ω 11'20 0° ML 0° ౘ 0° ఆ 15° ≈ 18'51 21° ≈ 13'45 12° ≈ 23'23	2.43852 AU -2°31'08	min. Earth dist. direct	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Nov 06 04:57	17°\\$59'48 13°\\$41'20 27°\\$03'08 0°\\$\\$0°\\$\\$0°\\$\\$0°\\$\\$0°\\$\\$0°\\$\\$0°\\$\\$0°\\$\\$0°\\$\\$\\$0°\\$\\$\\$0°\\$\\$\\$0°\\$\\$\\$5°\\$\\$703'01	
max. Earth dist. morning rise  desc. node retrograde opposition greatest brilliancy	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jun 19 01:49 8548 Jul 27 23:46 8548 Jul 28 08:59	0° m 26° m 21'06 0° Ω 6° Ω 11'20 0° m 0° ¾ 0° ♂ 0° ≈ 15° ≈ 18'51 21° ≈ 13'45 12° ≈ 23'23 12° ≈ 14'30	2.43852 AU -2°31'08 -1.5m	min. Earth dist. direct asc. node	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Nov 06 04:57 8553 Dec 15 12:26	17°859'48 13°841'20 27°803'08 0°用 0°5 0°1 0°5 0°1 0°5 0°1 0°5 0°1 0°5 0°1 0°5	0.39864 AU
max. Earth dist. morning rise  desc. node retrograde opposition	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jun 19 01:49 8548 Jul 27 23:46	0° My 26° My 21'06 0° Ω 6° Ω 11'20 0° ML 0° ౘ 0° ఆ 15° ≈ 18'51 21° ≈ 13'45 12° ≈ 23'23	2.43852 AU -2°31'08	min. Earth dist. direct asc. node	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Nov 06 04:57	17°859'48 13°841'20 27°803'08 0°用 0°5 0°1 0°5 0°1 0°5 0°1 0°5 0°1 0°5 0°1 0°5	
max. Earth dist. morning rise  desc. node retrograde opposition greatest brilliancy	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jun 19 01:49 8548 Jul 27 23:46 8548 Jul 28 08:59	0° m 26° m 21'06 0° Ω 6° Ω 11'20 0° m 0° ¾ 0° ♂ 0° ≈ 15° ≈ 18'51 21° ≈ 13'45 12° ≈ 23'23 12° ≈ 14'30	2.43852 AU -2°31'08 -1.5m	min. Earth dist. direct asc. node	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Nov 06 04:57 8553 Dec 15 12:26	17°859'48 13°841'20 27°803'08 0°用 0°5 0°1 0°5 0°1 0°5 0°1 0°5 0°1 0°5 0°1 0°5	0.39864 AU
max. Earth dist. morning rise  desc. node retrograde opposition greatest brilliancy min. Earth dist.	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jun 19 01:49 8548 Jul 27 23:46 8548 Jul 28 08:59 8548 Aug 01 18:38	0° m 26° m 21'06 0° Ω 6° Ω 11'20 0° m 0° ズ 0° ጜ 15° ≈ 18'51 21° ≈ 13'45 12° ≈ 23'23 12° ≈ 14'30 10° ≈ 32'37	2.43852 AU -2°31'08 -1.5m	min. Earth dist. direct asc. node	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Nov 06 04:57 8553 Dec 15 12:26	17°859'48 13°841'20 27°803'08 0°用 0°5 0°1 0°5 0°1 0°5 0°1 0°5 0°1 0°5 0°1 0°5	0.39864 AU
max. Earth dist. morning rise  desc. node retrograde opposition greatest brilliancy min. Earth dist.	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jun 19 01:49 8548 Jul 27 23:46 8548 Jul 28 08:59 8548 Aug 01 18:38 8548 Sep 07 11:31 8548 Nov 26 09:57	0° m 26° m 21'06 0° <u>a</u> 6° <u>a</u> 11'20 0° m 0° ౘ 0° ౙ 15° ≈18'51 21° ≈13'45 12° ≈23'23 12° ≈14'30 10° ≈32'37 2° ≈22'26 0° ★	2.43852 AU -2°31'08 -1.5m	min. Earth dist. direct asc. node  evening set max. Earth dist. conjunction	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Dec 15 12:26 8553 Dec 19 22:06	17°859'48 13°841'20 27°803'08 0°耳 0°5 0°1 0°5 0°1 0°5 0°1 0°5 2°547'37	0.39864 AU 2.68166 AU
max. Earth dist. morning rise  desc. node retrograde opposition greatest brilliancy min. Earth dist.	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jun 19 01:49 8548 Jul 27 23:46 8548 Jul 28 08:59 8548 Aug 01 18:38 8548 Sep 07 11:31 8548 Nov 26 09:57 8549 Jan 13 07:53	0° m 26° m21'06 0° Ω 6° Ω11'20 0° m 0° ズ 0° で 0° ∞ 15° ≈18'51 21° ≈13'45 12° ≈23'23 12° ≈14'30 10° ≈32'37 2° ≈22'26 0° ℋ 0° Υ	2.43852 AU -2°31'08 -1.5m	min. Earth dist. direct asc. node  evening set max. Earth dist. conjunction minimum elong	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Dec 15 12:26 8553 Dec 19 22:06	17°859'48 13°841'20 27°803'08 0°耳 0°% 0°% 0°% 0°% 0°% 5°% 3'03'01 0°% 2°ጜ47'37	0.39864 AU 2.68166 AU 0°07'54
max. Earth dist. morning rise  desc. node retrograde opposition greatest brilliancy min. Earth dist.	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jun 19 01:49 8548 Jul 27 23:46 8548 Jul 28 08:59 8548 Aug 01 18:38 8548 Sep 07 11:31 8548 Nov 26 09:57 8549 Jan 13 07:53 8549 Feb 24 06:34	0° m 26° m21'06 0° <u>の</u> 6° <u>の</u> 11'20 0° m 0° ズ 0° で 0° ※ 15° ※18'51 21° ※13'45 12° ※23'23 12° ※14'30 10° ※32'37 2° ※22'26 0° 光 0° Y 0° ど	2.43852 AU -2°31'08 -1.5m	min. Earth dist. direct asc. node  evening set max. Earth dist. conjunction minimum elong behind sun begin	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Dec 19 22:06 8553 Dec 19 22:06	17°859'48 13°841'20 27°803'08 0°耳 0°% 0°% 0°% 0°% 0°% 5°% 3°03'01 0°♂ 2°♂47'37 3°♂52'02 3°♂52'25 3°♂26'47	0.39864 AU 2.68166 AU 0°07'54
max. Earth dist.  morning rise  desc. node retrograde opposition greatest brilliancy min. Earth dist. direct	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jun 19 01:49 8548 Jul 27 23:46 8548 Jul 28 08:59 8548 Aug 01 18:38 8548 Sep 07 11:31 8548 Nov 26 09:57 8549 Jan 13 07:53 8549 Feb 24 06:34 8549 Apr 04 12:49	0° m 26° m21'06 0° Ω 6° Ω11'20 0° m 0° ズ 0° 云 0° ∞ 15° ≈18'51 21° ≈13'45 12° ≈23'23 12° ≈14'30 10° ≈32'37 2° ≈22'26 0° 升 0° Υ 0° Υ 0° Β	2.43852 AU -2°31'08 -1.5m	min. Earth dist. direct asc. node  evening set max. Earth dist. conjunction minimum elong behind sun begin behind sun end	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Nov 06 04:57 8553 Dec 15 12:26 8553 Dec 19 22:06 8553 Dec 21 14:44 8553 Dec 21 14:59 8553 Dec 20 22:48 8553 Dec 22 07:09	17°859'48 13°841'20 27°803'08 0°耳 0°% 0°% 0°™ 0°% 5°% 0°™ 0°% 5°% 03'01 0°♂ 2°♂ 47'37 3°♂ 552'02 3°♂ 526'47 4°♂ 18'04	0.39864 AU 2.68166 AU 0°07'54
max. Earth dist. morning rise  desc. node retrograde opposition greatest brilliancy min. Earth dist.	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jun 19 01:49 8548 Jul 27 23:46 8548 Jul 28 08:59 8548 Aug 01 18:38 8548 Sep 07 11:31 8548 Nov 26 09:57 8549 Jan 13 07:53 8549 Feb 24 06:34 8549 Apr 04 12:49 8549 Apr 21 22:32	0°順 26°順21'06 0°亞 6°亞11'20 0°肌 0°水 0°云 0°云 0°云 15°≈18'51 21°≈13'45 12°≈23'23 12°≈14'30 10°≈32'37 2°≈22'26 0°米 0°Y 0°B 0°肌	2.43852 AU -2°31'08 -1.5m	min. Earth dist. direct asc. node  evening set max. Earth dist. conjunction minimum elong behind sun begin	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Nov 06 04:57 8553 Dec 15 12:26 8553 Dec 19 22:06 8553 Dec 21 14:44 8553 Dec 21 14:59 8553 Dec 20 22:48 8553 Dec 22 07:09 8554 Jan 05 15:45	17° 859'48 13° 841'20 27° 803'08 0° 用 0° 50 0° 10 0° 50 0° 10 0° 50 2° 547'37 3° 552'02 3° 552'25 3° 526'47 4° 518'04 13° 525'02	0.39864 AU 2.68166 AU 0°07'54
max. Earth dist.  morning rise  desc. node retrograde opposition greatest brilliancy min. Earth dist. direct	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jun 19 01:49 8548 Jul 27 23:46 8548 Jul 28 08:59 8548 Aug 01 18:38 8548 Sep 07 11:31 8548 Nov 26 09:57 8549 Jan 13 07:53 8549 Feb 24 06:34 8549 Apr 04 12:49 8549 May 12 17:48	0°m 26°m21'06 0°亞 6°亞11'20 0°m 0°ズ 0°否 0°会 15°≈18'51 21°≈13'45 12°≈23'23 12°≈14'30 10°≈32'37 2°≈22'26 0°米 0°Y 0°B 0°用 13°用37'33 0°©	2.43852 AU -2°31'08 -1.5m	min. Earth dist. direct asc. node  evening set  max. Earth dist.  conjunction  minimum elong  behind sun begin  behind sun end  desc. node	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Nov 06 04:57 8553 Dec 15 12:26 8553 Dec 19 22:06 8553 Dec 21 14:44 8553 Dec 21 14:59 8553 Dec 21 14:59 8553 Dec 22 07:09 8554 Jan 05 15:45 8554 Jan 31 16:12	17° 859'48 13° 841'20 27° 803'08 0° II 0° 95 0° 10 0° 10 0° 10 0° 10 0° 11 0° 12 0° 13 0° 13 0° 14 13° 852'02 3° 852'25 3° 852'25 3° 852'647 4° 818'04 13° 825'02 0° ※	0.39864 AU 2.68166 AU 0°07'54
max. Earth dist.  morning rise  desc. node retrograde opposition greatest brilliancy min. Earth dist. direct	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jul 27 23:46 8548 Jul 27 23:46 8548 Jul 28 08:59 8548 Aug 01 18:38 8548 Sep 07 11:31 8548 Nov 26 09:57 8549 Jan 13 07:53 8549 Apr 04 12:49 8549 Apr 04 12:49 8549 May 12 17:48 8549 Jun 20 02:08	0°m 26°m21'06 0°亞 6°亞11'20 0°M 0°ズ 0°否 0°会 15°≈18'51 21°≈13'45 12°≈23'23 12°≈14'30 10°≈32'37 2°≈22'26 0°状 0°Y 0°B 0°I 13°I37'33 0°© 0°A	2.43852 AU -2°31'08 -1.5m	min. Earth dist. direct asc. node  evening set max. Earth dist. conjunction minimum elong behind sun begin behind sun end	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Nov 06 04:57 8553 Dec 15 12:26 8553 Dec 19 22:06 8553 Dec 21 14:44 8553 Dec 21 14:59 8553 Dec 21 14:59 8553 Dec 22 07:09 8554 Jan 05 15:45 8554 Feb 03 05:47	17° 859'48 13° 841'20 27° 803'08 0° II 0° 95 0° 10 0° 10 0° 10 0° 10 0° 11 0° 12 0° 13 0° 14 0° 15 2° 847'37 3° 852'02 3° 852'25 3° 8526'47 4° 818'04 13° 825'02 0° 10 1° 18'04 13° 838'27	0.39864 AU 2.68166 AU 0°07'54
max. Earth dist.  morning rise  desc. node retrograde opposition greatest brilliancy min. Earth dist. direct	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jun 19 01:49 8548 Jul 27 23:46 8548 Jul 28 08:59 8548 Aug 01 18:38 8548 Sep 07 11:31 8548 Nov 26 09:57 8549 Jan 13 07:53 8549 Feb 24 06:34 8549 Apr 04 12:49 8549 May 12 17:48	0° m 26° m21'06 0° Ω 6° Ω11'20 0° m 0° ¾ 0° ♂ 0° ≈ 15° ≈18'51 21° ≈23'23 12° ≈14'30 10° ≈32'37 2° ≈22'26 0° ¥ 0° Y 0° Ø 0° Π 13° Π37'33 0° © 0° Ω 0° m	2.43852 AU -2°31'08 -1.5m	min. Earth dist. direct asc. node  evening set  max. Earth dist.  conjunction  minimum elong  behind sun begin  behind sun end  desc. node	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Nov 06 04:57 8553 Dec 15 12:26 8553 Dec 19 22:06 8553 Dec 21 14:44 8553 Dec 21 14:59 8553 Dec 21 14:59 8553 Dec 22 07:09 8554 Jan 05 15:45 8554 Jan 31 16:12	17° 859'48 13° 841'20 27° 803'08 0° II 0° 95 0° 10 0° 10 0° 10 0° 10 0° 11 0° 12 0° 13 0° 14 0° 15 2° 847'37 3° 852'02 3° 852'25 3° 8526'47 4° 818'04 13° 825'02 0° 10 10° 15 10	0.39864 AU 2.68166 AU 0°07'54
max. Earth dist.  morning rise  desc. node retrograde opposition greatest brilliancy min. Earth dist. direct	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jul 27 23:46 8548 Jul 27 23:46 8548 Jul 28 08:59 8548 Aug 01 18:38 8548 Sep 07 11:31 8548 Nov 26 09:57 8549 Jan 13 07:53 8549 Apr 04 12:49 8549 Apr 04 12:49 8549 May 12 17:48 8549 Jun 20 02:08	0°m 26°m21'06 0°亞 6°亞11'20 0°M 0°ズ 0°否 0°会 15°≈18'51 21°≈13'45 12°≈23'23 12°≈14'30 10°≈32'37 2°≈22'26 0°状 0°Y 0°B 0°I 13°I37'33 0°© 0°A	2.43852 AU -2°31'08 -1.5m	min. Earth dist. direct asc. node  evening set  max. Earth dist.  conjunction  minimum elong  behind sun begin  behind sun end  desc. node	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Nov 06 04:57 8553 Dec 15 12:26 8553 Dec 19 22:06 8553 Dec 21 14:44 8553 Dec 21 14:59 8553 Dec 21 14:59 8553 Dec 22 07:09 8554 Jan 05 15:45 8554 Feb 03 05:47	17° 859'48 13° 841'20 27° 803'08 0° II 0° 95 0° 10 0° 10 0° 10 0° 10 0° 11 0° 12 0° 13 0° 14 0° 15 2° 847'37 3° 852'02 3° 852'25 3° 8526'47 4° 818'04 13° 825'02 0° 10 1° 18'04 13° 838'27	0.39864 AU 2.68166 AU 0°07'54
max. Earth dist.  morning rise  desc. node retrograde opposition greatest brilliancy min. Earth dist. direct	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jun 19 01:49 8548 Jul 27 23:46 8548 Jul 28 08:59 8548 Aug 01 18:38 8548 Sep 07 11:31 8548 Nov 26 09:57 8549 Jan 13 07:53 8549 Apr 04 12:49 8549 Apr 21 22:32 8549 May 12 17:48 8549 Jun 20 02:08 8549 Jul 29 12:05	0° m 26° m21'06 0° Ω 6° Ω11'20 0° m 0° ¾ 0° ♂ 0° ≈ 15° ≈18'51 21° ≈23'23 12° ≈14'30 10° ≈32'37 2° ≈22'26 0° ¥ 0° Y 0° Ø 0° Π 13° Π37'33 0° © 0° Ω 0° m	2.43852 AU -2°31'08 -1.5m	min. Earth dist. direct asc. node  evening set  max. Earth dist.  conjunction  minimum elong  behind sun begin  behind sun end  desc. node	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Nov 06 04:57 8553 Dec 15 12:26 8553 Dec 19 22:06 8553 Dec 21 14:44 8553 Dec 21 14:59 8553 Dec 21 14:59 8553 Dec 22 07:09 8554 Jan 05 15:45 8554 Jan 31 16:12 8554 Feb 03 05:47 8554 Mar 19 05:33	17° 859'48 13° 841'20 27° 803'08 0° II 0° 95 0° 10 0° 10 0° 10 0° 10 0° 11 0° 12 0° 13 0° 14 0° 15 2° 847'37 3° 852'02 3° 852'25 3° 8526'47 4° 818'04 13° 825'02 0° 10 10° 15 10	0.39864 AU 2.68166 AU 0°07'54
max. Earth dist.  morning rise  desc. node retrograde opposition greatest brilliancy min. Earth dist. direct	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jul 27 23:46 8548 Jul 27 23:46 8548 Jul 28 08:59 8548 Aug 01 18:38 8548 Sep 07 11:31 8548 Nov 26 09:57 8549 Jan 13 07:53 8549 Feb 24 06:34 8549 Apr 04 12:49 8549 Apr 21 22:32 8549 May 12 17:48 8549 Jun 20 02:08 8549 Aug 04 09:32	0° m 26° m21'06 0° Ω 6° Ω11'20 0° M 0° ♂ 0° ♂ 0° ♂ 15° ≈18'51 21° ≈13'45 12° ≈23'23 12° ≈14'30 10° ≈32'37 2° ≈22'26 0° ℋ 0° ϒ 0° ϒ 0° ϒ 0° Ω 0° ጠ 13° Π37'33 0° © 0° Ω 0° m 4° m23'10	2.43852 AU -2°31'08 -1.5m	min. Earth dist. direct asc. node  evening set  max. Earth dist.  conjunction  minimum elong  behind sun begin  behind sun end  desc. node	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Nov 06 04:57 8553 Dec 15 12:26 8553 Dec 19 22:06 8553 Dec 21 14:44 8553 Dec 21 14:59 8553 Dec 21 14:59 8553 Dec 20 22:48 8553 Dec 20 22:48 8553 Dec 20 22:48 8553 Dec 20 05:47 8554 Jan 31 16:12 8554 Feb 03 05:47 8554 May 19 05:33 8554 May 03 23:02	17°859'48 13°841'20 27°803'08 0°用 0°9 0°1 0°9 0°1 0°4 5°47'37 3°852'02 3°852'25 3°8526'47 4°818'04 13°825'02 0°≈ 1°≈38'27 0°升 0°Υ	0.39864 AU 2.68166 AU 0°07'54
max. Earth dist. morning rise  desc. node retrograde opposition greatest brilliancy min. Earth dist. direct  asc. node	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jul 27 23:46 8548 Jul 28 08:59 8548 Aug 01 18:38 8548 Sep 07 11:31 8548 Nov 26 09:57 8549 Jun 13 07:53 8549 Feb 24 06:34 8549 Apr 04 12:49 8549 Apr 12 12:32 8549 May 12 17:48 8549 Jun 20 02:08 8549 Aug 04 09:32 8549 Sep 08 15:21	0° m 26° m21'06 0° Ω 6° Ω11'20 0° M 0° ♂ 0° ♂ 0° ♂ 15° ≈18'51 21° ≈13'45 12° ≈23'23 12° ≈14'30 10° ≈32'37 2° ≈22'26 0° ℋ 0° ϒ 0° ϒ 0° ϒ 0° Ω 0° ጠ 13° Π37'33 0° © 0° Ω 0° m 4° m23'10	2.43852 AU -2°31'08 -1.5m	min. Earth dist. direct asc. node  evening set  max. Earth dist.  conjunction  minimum elong  behind sun begin  behind sun end  desc. node	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Nov 06 04:57 8553 Dec 15 12:26 8553 Dec 19 22:06 8553 Dec 21 14:44 8553 Dec 21 14:59 8553 Dec 21 14:59 8553 Dec 22 07:09 8554 Jan 05 15:45 8554 Feb 03 05:47 8554 Mar 19 05:33 8554 Mug 01 05:53	17°859'48 13°841'20 27°803'08 0°用 0°9 0°0 0°1 0°9 0°1 0°3 5°3703'01 0°3 2°347'37 3°352'02 3°352'25 3°326'47 4°318'04 13°325'02 0°% 1°≈38'27 0°升 0°Y 0°8	0.39864 AU 2.68166 AU 0°07'54
max. Earth dist. morning rise  desc. node retrograde opposition greatest brilliancy min. Earth dist. direct  asc. node evening set conjunction	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jul 27 23:46 8548 Jul 27 23:46 8548 Jul 28 08:59 8548 Aug 01 18:38 8548 Sep 07 11:31 8548 Nov 26 09:57 8549 Jan 13 07:53 8549 Feb 24 06:34 8549 Apr 04 12:49 8549 Apr 21 22:32 8549 May 12 17:48 8549 Jul 29 12:05 8549 Aug 04 09:32 8549 Sep 08 15:21	0° m 26° m21'20 0° m 6° £11'20 0° m 0° ♂ 0° ♂ 0° ♂ 0° ≈ 15° ≈18'51 21° ≈13'45 12° ≈23'23 12° ≈14'30 10° ≈32'37 2° ≈22'26 0° 升 0° か 0° I 13° II 37'33 0° ⑤ 0° Ω 0° m 4° m23'10 0° £	2.43852 AU -2°31'08 -1.5m 0.63836 AU	min. Earth dist. direct asc. node  evening set  max. Earth dist.  conjunction  minimum elong  behind sun begin  behind sun end  desc. node	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Dec 19 22:06 8553 Dec 15 12:26 8553 Dec 19 22:06 8553 Dec 21 14:44 8553 Dec 21 14:59 8553 Dec 21 14:59 8553 Dec 22 07:09 8554 Jan 05 15:45 8554 Feb 03 05:47 8554 May 03 23:02 8554 Aug 01 05:53 8554 Sep 15 03:51	17° 859'48 13° 841'20 27° 803'08 0° II 0° 50 0° 10	0.39864 AU 2.68166 AU 0°07'54
max. Earth dist. morning rise  desc. node retrograde opposition greatest brilliancy min. Earth dist. direct  asc. node	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jun 19 01:49 8548 Jul 27 23:46 8548 Jul 28 08:59 8548 Aug 01 18:38 8548 Sep 07 11:31 8548 Nov 26 09:57 8549 Jan 13 07:53 8549 Feb 24 06:34 8549 Apr 04 12:49 8549 Apr 12 12:32 8549 May 12 17:48 8549 Jun 20 02:08 8549 Aug 04 09:32 8549 Sep 08 15:21	0° m 26° m21'20 0° m 6° £11'20 0° m 0° ₹ 0° ₹ 0° ₹ 0° ₹ 15° ≈18'51 21° ≈13'45 12° ≈23'23 12° ≈14'30 10° ≈32'37 2° ≈22'26 0° ¥ 0° ↑ 0° ₹ 0° ¶ 13° ∏37'33 0° € 0° Ω 0° m 4° m23'10 0° £ 16° £50'35 16° £51'04	2.43852 AU -2°31'08 -1.5m 0.63836 AU	min. Earth dist. direct asc. node  evening set  max. Earth dist.  conjunction  minimum elong  behind sun begin  behind sun end  desc. node  morning rise	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Nov 06 04:57 8553 Dec 15 12:26 8553 Dec 19 22:06 8553 Dec 21 14:44 8553 Dec 21 14:59 8553 Dec 21 14:59 8553 Dec 22 07:09 8554 Jan 05 15:45 8554 Jan 31 16:12 8554 Feb 03 05:47 8554 May 03 23:02 8554 Aug 01 05:53 8554 Sep 15 03:51 8554 Nov 04 11:10	17° 859'48 13° 841'20 27° 803'08 0° II 0° 50 0° 10	0.39864 AU 2.68166 AU 0°07'54
max. Earth dist. morning rise  desc. node retrograde opposition greatest brilliancy min. Earth dist. direct  asc. node evening set conjunction	8547 Aug 19 07:10 8547 Sep 23 22:00 8547 Sep 28 23:19 8547 Oct 07 14:58 8547 Nov 10 20:26 8547 Dec 26 07:50 8548 Feb 13 03:16 8548 Apr 08 12:55 8548 May 16 01:35 8548 Jul 27 23:46 8548 Jul 27 23:46 8548 Jul 28 08:59 8548 Aug 01 18:38 8548 Sep 07 11:31 8548 Nov 26 09:57 8549 Jan 13 07:53 8549 Feb 24 06:34 8549 Apr 04 12:49 8549 Apr 21 22:32 8549 May 12 17:48 8549 Jul 29 12:05 8549 Aug 04 09:32 8549 Sep 08 15:21	0° m 26° m21'06 0° Ω 6° Ω11'20 0° m 0° ¾ 0° ♂ 0° ∞ 15° ≈18'51 21° ≈13'45 12° ≈23'23 12° ≈14'30 10° ≈32'37 2° ≈22'26 0° ¥ 0° ♀ 0° ¥ 0° ♀ 0° ¶ 13° ¶37'33 0° ♀ 0° ⋒ 0° m 4° m23'10 0° Ω 16° Ω50'35 16° Ω51'04 0° m	2.43852 AU -2°31'08 -1.5m 0.63836 AU	min. Earth dist. direct asc. node  evening set  max. Earth dist.  conjunction  minimum elong  behind sun begin  behind sun end  desc. node	8552 Nov 12 11:31 8552 Dec 08 15:02 8553 Jan 25 00:31 8553 Jan 30 18:42 8553 Mar 20 11:21 8553 May 02 22:08 8553 Jun 15 00:35 8553 Jul 29 03:10 8553 Sep 12 14:55 8553 Oct 29 06:35 8553 Dec 19 22:06 8553 Dec 15 12:26 8553 Dec 19 22:06 8553 Dec 21 14:44 8553 Dec 21 14:59 8553 Dec 21 14:59 8553 Dec 22 07:09 8554 Jan 05 15:45 8554 Feb 03 05:47 8554 May 03 23:02 8554 Aug 01 05:53 8554 Sep 15 03:51	17° 859'48 13° 841'20 27° 803'08 0° II 0° 50 0° 10	0.39864 AU 2.68166 AU 0°07'54

min. Earth dist.	8555 Jan 20 03:38	10° <b>Ω</b> 38'57	0.38911 AU		8560 Apr 14 11:50	0° <b>႘</b>	
opposition	8555 Jan 26 12:27	8° <b>Ω</b> 46'14	3°07'28		•		
greatest brilliancy	8555 Jan 25 16:46	9° <b>Ω</b> 00'52	-2.9m	conjunction	8560 Apr 23 11:37	6° <b>8</b> 47'25	-0°59'14
direct	8555 Feb 25 12:43	3° <b>Ω</b> 25'41		minimum elong	8560 Apr 23 13:34	6° <b>8</b> 51'07	0°59'20
	8555 May 13 05:27	0° <b>m</b> )			8560 May 23 15:57	$\Pi^{\circ}0$	
	8555 Jul 04 04:18	0∘ <b>亚</b>		morning rise	8560 Jun 27 15:43	27° <b>Ⅱ</b> 26'37	
	8555 Aug 22 10:28	0° <b>M</b>			8560 Jun 30 21:30	$0$ $\circ$ $\odot$	
	8555 Oct 10 02:53	0°⊀		asc. node	8560 Aug 03 17:16	26° <b>©</b> 37'31	
desc. node	8555 Nov 23 14:02	27° <b>∡</b> ³39'37			8560 Aug 08 00:45	$0^{\circ}\Omega$	
	8555 Nov 27 07:34	0° <b>ප</b>			8560 Sep 15 23:02	O° Mp	
evening set	8555 Dec 12 11:39	9° <b>ට</b> 33'04			8560 Oct 26 14:11	0∘ <b>⊽</b>	
max. Earth dist.	8556 Jan 11 18:05	28° <b>る</b> 50'14	2.65543 AU		8560 Dec 08 23:54	0°M	
	8556 Jan 13 13:28	0° <b>≈</b>			8561 Jan 26 04:11	0° <b>∡</b> 7	
					8561 Mar 31 03:40	0°ප	
conjunction	8556 Jan 26 01:27	8° <b>≈</b> 04'55	-0°32'17	retrograde	8561 May 01 10:56	5° <b>る</b> 19'56	
minimum elong	8556 Jan 26 00:33	8° <b>≈</b> 03'28	0°32'06		8561 May 30 07:41	30°₽ <b>⋌</b> 7	
	8556 Feb 28 09:24	0° <b>∀</b>		opposition	8561 Jun 11 00:13	25° <b>≯</b> 32'38	1°10'55
morning rise	8556 Mar 10 17:18	7° <b>∺</b> 35'01		greatest brilliancy	8561 Jun 11 00:02	25° <b>∡</b> ³32'50	-1.3m
	8556 Apr 12 13:44	$0^{\circ}$ Y		min. Earth dist.	8561 Jun 10 12:55	25° <b>∡</b> ¹43'51	0.67968 AU
	8556 May 25 02:23	$0^{\circ}S$		desc. node	8561 Jul 15 17:00	16° <b>∡</b> *01′23	
	8556 Jul 05 04:46	$\Pi^{\circ}0$		direct	8561 Jul 21 21:41	15° <b>∡</b> ¹47'05	
	8556 Aug 14 08:01	0ං <b>ව</b>			8561 Sep 16 03:05	0°ප	
	8556 Sep 23 09:29	$0^{\circ}\Omega$			8561 Nov 13 07:27	0° <b>≈</b>	
asc. node	8556 Oct 29 22:32	26° <b>Ω</b> 26'26			8561 Dec 31 13:02	0° <b>∀</b>	
	8556 Nov 04 01:25	0° <b>m</b> )			8562 Feb 13 05:52	$0^{\circ}\mathbf{\Upsilon}$	
	8556 Dec 21 23:23	0∘ <b>⊽</b>			8562 Mar 25 23:54	0° <b>8</b>	
retrograde	8557 Feb 17 04:07	18° <b>≏</b> 12'20		evening set	8562 Apr 26 00:17	23° <b>8</b> 51'14	
min. Earth dist.	8557 Mar 19 10:43	11° <b>≏</b> 53'54	0.52057 AU		8562 May 03 20:57	$\Pi$ °0	
greatest brilliancy	8557 Mar 25 19:29	9° <b>≏</b> 30'41	-2.0m		8562 Jun 10 20:19	$0_{\circ}$ වෙ	
opposition	8557 Mar 27 06:07	8° <b>≏</b> 58'04	5°20'43	asc. node	8562 Jun 21 14:36	8° <b>5</b> 31'46	
direct	8557 May 01 04:00	1° <b>£</b> 20'52				_	
	8557 Jul 25 07:39	0° <b>M</b> ₊		conjunction	8562 Jul 04 05:18	18° <b>©</b> 29'52	0°09'08
	8557 Sep 17 19:46	0° <b>∡</b> ¹		minimum elong	8562 Jul 04 04:18	18° <b>©</b> 27'53	0°08'55
desc. node	8557 Oct 10 14:27	13° <b>∡</b> 20′31		behind sun begin	8562 Jul 03 02:23	17° <b>©</b> 36'47	
	8557 Nov 07 06:47	ರ್∘ರ		behind sun end	8562 Jul 05 06:13	19° <b>©</b> 18'58	
	8557 Dec 25 07:07	0° <b>≈</b>			8562 Jul 18 20:29	$0$ ° $\Omega$	
evening set	8558 Jan 17 03:58	14°≈49'09		max. Earth dist.	8562 Aug 21 20:30		2.38461 AU
max. Earth dist.	8558 Feb 05 08:43	27°≈32'58	2.57616 AU		8562 Aug 26 18:24	0° <b>m</b>	
	8558 Feb 09 00:17	0° <b>∀</b>		morning rise	8562 Sep 13 09:24	13° Mp 12'50	
	0550 34 05 02 20	1601/26124	1000101		8562 Oct 06 08:07	0∘ <b>亚</b>	
conjunction	8558 Mar 05 02:30	16° <b>¥</b> 26'34			8562 Nov 18 04:34	0°M	
minimum elong	8558 Mar 05 01:31	16° <b>¥</b> 24'52 0° <b>Ƴ</b>	1°02′18		8563 Jan 02 22:56	0°⊀ 0° <b>⋜</b>	
	8558 Mar 24 11:29	22° <b>Y</b> 19'56			8563 Feb 22 01:46	5°0	
morning rise	8558 Apr 24 11:51	0° <b>8</b>		desc. node	8563 Apr 25 21:49 8563 Jun 02 15:42	0° <b>≈</b> 8° <b>≈</b> 04'12	
	8558 May 04 21:49	0°II			8563 Jun 05 07:55	8°≈06'47	
	8558 Jun 13 17:36 8558 Jul 22 13:20	0ംഉ 0 п		retrograde	8563 Jul 12 04:55	る≈004/ 30°Ŗる	
	8558 Aug 30 04:07	0° <b>U</b>		opposition	8563 Jul 14 23:16	30 KO 28° <b>る</b> 55'36	1°27'56
asc. node	8558 Sep 16 19:31	13° <b>Ω</b> 33'18		greatest brilliancy	8563 Jul 15 02:45	28° <b>る</b> 52'12	
asc. node	8558 Oct 08 14:08	0° <b>m</b> )		min. Earth dist.	8563 Jul 18 06:51	27° <b>る</b> 37'56	0.66306 AU
	8558 Nov 19 04:08	0∘ <mark>ಹ</mark>		direct	8563 Aug 25 15:08	18° <b>る</b> 52'22	0.00300710
	8559 Jan 04 14:45	0° <b>™</b>		direct	8563 Oct 12 02:36	0°≈	
	8559 Mar 17 16:04	0° <b>∡</b> 7			8563 Dec 08 11:48	0° <b>ℋ</b>	
retrograde	8559 Mar 28 22:16	0° <b>∡</b> 749'01			8564 Jan 23 06:16	0° <b>Υ</b>	
retrograde	8559 Apr 08 19:58	30°RM			8564 Mar 04 14:03	0°8	
min. Earth dist.	8559 May 03 20:03	22°M32'26	0.63076 AU		8564 Apr 12 14:19	0°II	
opposition	8559 May 08 02:54	20°M50'22	3°37'38	asc. node	8564 May 08 14:43	20° <b>∏</b> 29'25	
greatest brilliancy	8559 May 07 14:18	21°ML02'53	-1.5m	350. 11500	8564 May 20 15:18	0°95	
direct	8559 Jun 15 18:52	11°ML49'30	1.0111		8564 Jun 27 19:08	0°Ω	
	8559 Aug 20 02:57	0° <b>⊼</b> ¹		evening set	8564 Jul 08 16:47	8° <b>Ω</b> 27'02	
desc. node	8559 Aug 28 16:18	3° <b>∡</b> 759'14		5. J	8564 Aug 05 23:40	0°m)	
	8559 Oct 16 21:46	0°ਰ 1			223.110	- 'x'	
	8559 Dec 06 02:04	0° <b>≈</b>		conjunction	8564 Sep 11 11:27	26° m 50'17	1°04'25
	8560 Jan 21 08:19	0° <b>∺</b>		minimum elong	8564 Sep 11 10:13	26° Mp 48'04	1°04'24
evening set	8560 Feb 28 16:35	26° <b>∺</b> 29'35		violig	8564 Sep 15 21:10	20 <b>ग्र</b> न्व ०न 0° <b>टा</b>	· - ·
	8560 Mar 04 14:43	0°Υ		max. Earth dist.	8564 Oct 20 01:43		2.52257 AU
max. Earth dist.	8560 Mar 13 12:11		2.45228 AU		8564 Oct 28 21:20	0°M	, 110
		25 .0					

morning rise	8564 Nov 06 20:03	6°ML03'02		greatest brilliancy	8569 Dec 25 21:39	8°910'35	3.1m
morning risc	8564 Dec 13 03:37	0° <b>₹</b>		asc. node	8569 Dec 29 16:54	7° <b>©</b> 10'23	-3.1111
	8565 Jan 29 19:01	°ੇਤ ਹ`ਤ		direct	8570 Jan 24 04:01	3°9518'29	
	8565 Mar 21 15:52	0° <b>≈</b>		uncet	8570 Apr 08 17:55	0°Ω	
desc. node	8565 Apr 19 12:57	15°≈35'28			8570 May 28 06:42	0° m/y	
dese. Hode	8565 May 19 23:38	0° <b>∀</b>			8570 Jul 14 11:27	0∘ <b>ರ</b> ೧.೫	
retrograde	8565 Jul 14 19:58	14° <b>)</b> (03'43			8570 Aug 30 17:46	0°M	
opposition	8565 Aug 21 03:36	5° <b>)</b> 55'39	-4°09'11		8570 Oct 17 10:06	0° <b>∡</b> 7	
greatest brilliancy	8565 Aug 22 02:51	5° <b>)</b> €33'54		evening set	8570 Nov 28 13:28	26° <b>₹</b> 128'44	
min. Earth dist.	8565 Aug 28 02:52	3° <b>)</b> 19′21	0.58134 AU	0.0000	8570 Dec 04 03:29	0°る	
	8565 Sep 06 20:47	30°R≈		desc. node	8570 Dec 10 04:17	3°₹48'42	
direct	8565 Sep 30 16:47	26° <b>≈</b> 14'42		max. Earth dist.	8571 Jan 02 19:54	18° <b>る</b> 49'20	2.67215 AU
	8565 Oct 25 15:00	0° <b>∀</b>					
	8565 Dec 26 21:44	$0^{\circ}\Upsilon$		conjunction	8571 Jan 12 02:59	24° <b>る</b> 45'44	-0°17'11
	8566 Feb 09 07:12	0°8		minimum elong	8571 Jan 12 02:29	24° <b>る</b> 44'55	0°16'59
	8566 Mar 21 11:31	0° <b>I</b> I		Č	8571 Jan 20 06:56	0° <b>≈</b>	
asc. node	8566 Mar 26 16:14	3° <b>Ⅱ</b> 59′23		morning rise	8571 Feb 24 23:34	23°≈10'44	
	8566 Apr 29 05:13	0ಂತಾ		Č	8571 Mar 07 08:01	0° <b>)</b> €	
	8566 Jun 07 00:14	$0^{\circ}\Omega$			8571 Apr 21 00:03	$0^{\circ}\Upsilon$	
	8566 Jul 16 21:09	0° m			8571 Jun 03 05:49	0°8	
	8566 Aug 27 11:29	$0$ $\circ$ $\overline{f v}$			8571 Jul 15 05:19	0° <b>I</b> I	
evening set	8566 Sep 08 08:45	8° <b>₽</b> 19'10			8571 Aug 25 09:37	0°€	
<i>8</i>	8566 Oct 10 01:35	0° <b>M</b>			8571 Oct 05 21:47	$0^{\circ}\Omega$	
				asc. node	8571 Nov 16 16:39	28° <b>Ω</b> 06'07	
conjunction	8566 Oct 30 21:32	13°M53'22	0°56'59		8571 Nov 19 18:26	0° m	
minimum elong	8566 Oct 30 22:47	13°M55'25	0°57'07	retrograde	8572 Jan 30 09:24	27° m 08'28	
max. Earth dist.	8566 Nov 18 18:18		2.62627 AU	min. Earth dist.	8572 Feb 27 07:10	21° m 45'28	0.46591 AU
	8566 Nov 24 12:34	0° <b>√</b>		greatest brilliancy	8572 Mar 05 04:11	19° <b>m</b> 20'07	-2.3m
morning rise	8566 Dec 17 13:01	14° <b>∡</b> 748'26		opposition	8572 Mar 06 19:13	18° <b>m</b> 45'31	5°20'44
S	8567 Jan 10 11:50	ರ°0		direct	8572 Apr 08 17:56	11° <b>m</b> ) 57'31	
	8567 Feb 27 16:26	0° <b>≈</b>			8572 Jun 10 04:02	0∘ <b>⊽</b>	
desc. node	8567 Mar 07 09:02	4°≈42'54			8572 Aug 05 21:14	0°M	
	8567 Apr 18 09:02	0° <b>∀</b>			8572 Sep 26 05:10	0° <b>∡</b> 7	
	8567 Jun 10 12:29	$0^{\circ}\Upsilon$		desc. node	8572 Oct 27 04:00	18° <b>х</b> 42′09	
	8567 Aug 26 04:05	0°8			8572 Nov 14 13:17	0°ರ	
retrograde	8567 Sep 08 03:39	0° <b>8</b> 59'43			8573 Jan 01 04:14	0° <b>≈</b>	
Ü	8567 Sep 20 15:41	30° <b>Ŗ</b> ♈		evening set	8573 Jan 02 12:57	0°≈52'35	
opposition	8567 Oct 11 03:22	24° <b>Υ</b> 41'50	-5°49'16	max. Earth dist.	8573 Jan 25 16:54	15° <b>≈</b> 56'04	2.61310 AU
greatest brilliancy	8567 Oct 12 23:08	24° <b>Y</b> 06'01			8573 Feb 15 21:15	0° <b>)</b> €	
min. Earth dist.	8567 Oct 19 15:24	21° <b>Y</b> 56'14					
direct	8567 Nov 16 02:37	17° <b>Ƴ</b> 01'47		conjunction	8573 Feb 17 02:22	0° <b>)</b> 48′55	-0°52'57
	8568 Jan 01 18:51	0°8		minimum elong	8573 Feb 17 01:11	0° <b>)</b> (46'55	
asc. node	8568 Feb 11 16:48	24° <b>8</b> 05'23		Z .	8573 Mar 31 13:51	$_{0}$ $^{\circ}$ $\Upsilon$	
	8568 Feb 20 11:45	0° <b>I</b> I		morning rise	8573 Apr 05 11:09	3° <b>Y</b> 26'32	
	8568 Apr 02 16:10	0ಂತ		Č	8573 May 12 08:48	0°8	
	8568 May 13 14:58	$0^{\circ}\Omega$			8573 Jun 21 14:19	0° <b>I</b> I	
	8568 Jun 24 05:11	0° <b>m</b> )			8573 Jul 30 19:30	0°ಅ	
	8568 Aug 06 06:26	0∘ <mark>ಹ</mark>			8573 Sep 07 19:14	$0^{\circ}\Omega$	
	8568 Sep 20 00:10	0° <b>M</b>		asc. node	8573 Oct 03 12:56	19° <b>Ω</b> 29'59	
evening set	8568 Oct 22 02:52	20°M56'27			8573 Oct 17 16:43	0° <b>m</b>	
Č	8568 Nov 05 04:25	0° <b>√</b>			8573 Nov 29 07:52	$0 \circ \overline{\mathbf{v}}$	
					8574 Jan 18 22:12	0°M₊	
conjunction	8568 Dec 07 16:56	20° <b>∡</b> ¹46'14	0°23'24	retrograde	8574 Mar 14 11:36	15°M51'57	
minimum elong	8568 Dec 07 17:38	20° <b>∡</b> 47'22	0°23'36	min. Earth dist.	8574 Apr 17 08:20	8°M16'16	0.59418 AU
max. Earth dist.	8568 Dec 11 07:04	23°×103'08	2.67676 AU	greatest brilliancy	8574 Apr 22 05:33	6°M21'13	-1.7m
	8568 Dec 22 05:38	0°₹		opposition	8574 Apr 23 02:29	6°M00'39	4°27'03
morning rise	8569 Jan 20 19:32	18° <b>る</b> 45'42		11	8574 May 10 17:00	30° <b>Ŗ</b> Ω	• •
desc. node	8569 Jan 22 05:52	19° <b>る</b> 40'09		direct	8574 May 30 11:56	27° <b>£</b> 26'34	
	8569 Feb 07 12:28	0° <b>≈</b>			8574 Jun 20 19:43	0°M	
	8569 Mar 26 14:33	0° <b>)</b> €			8574 Sep 01 16:48	0° <b>⊼</b> ¹	
	8569 May 12 09:24	0° <b>Υ</b>		desc. node	8574 Sep 14 05:10	6° <b>х</b> 39'47	
	8569 Jun 28 03:25	0°8		<del></del>	8574 Oct 25 08:49	0° <b>る</b>	
	8569 Aug 14 21:32	0°II			8574 Dec 13 11:01	0° <b>≈</b>	
	8569 Oct 07 19:50	0°©			8575 Jan 28 10:22	0° <b>ℋ</b>	
retrograde	8569 Nov 25 17:47	13°915'34		evening set	8575 Feb 10 22:31	9° <b>∺</b> 10'16	
min. Earth dist.	8569 Dec 24 08:33	8°935'20	0.36623 AU	max. Earth dist.	8575 Feb 25 09:58		2.50472 AU
opposition	8569 Dec 25 21:36	8°910'37		max. Darui dist.	8575 Mar 12 17:43	0° <b>Υ</b>	2.507/2 AU
2Phoning.	500, 500 25 21.50	S <del>- 103</del> 7	5 1, 10		50,0 12 17.73	V 1	

aaniumatian	9575 Amr 02 17:40	15° <b>Ƴ</b> 09'41	1906149	araataat brillianay	9590 Aug 05 22:14	20% 042!17	1.5
conjunction	8575 Apr 02 17:40			greatest brilliancy	8580 Aug 05 23:14	20°≈42'17	
minimum elong	8575 Apr 02 18:05	15° <b>Y</b> 10′26	1,06,21	min. Earth dist.	8580 Aug 10 24:00	18°≈46'51	0.62070 AU
	8575 Apr 22 19:08	0°8		direct	8580 Sep 15 15:56	10°≈58'31	
morning rise	8575 May 30 22:11	29° <b>8</b> 01'47			8580 Nov 17 16:57	0° <b>)</b> €	
	8575 Jun 01 04:18	0°П			8581 Jan 07 02:36	0° <b>Υ</b>	
	8575 Jul 09 14:13	0ංම			8581 Feb 18 16:55	0°B	
	8575 Aug 16 20:27	$0$ $^{\circ}\Omega$			8581 Mar 30 05:19	$\Pi$ °0	
asc. node	8575 Aug 21 09:49	3° <b>£</b> 32′54		asc. node	8581 Apr 12 07:09	10° <b>Ⅱ</b> 10'52	
	8575 Sep 24 21:00	0° <b>m</b> )			8581 May 07 13:49	0	
	8575 Nov 04 16:33	0∘ <b>亚</b>			8581 Jun 15 00:52	$0 {\circ} \Omega$	
	8575 Dec 18 16:56	0° <b>M</b>			8581 Jul 24 13:32	O°Mp	
	8576 Feb 07 10:36	0° <b>∡</b> ″		evening set	8581 Aug 17 22:03	17° <b>m</b> 52'58	
retrograde	8576 Apr 18 06:34	22° <b>₹</b> 35'23			8581 Sep 03 19:39	0∘ <b>ত</b>	
min. Earth dist.	8576 May 26 21:12	13° <b>∡</b> 26'49	0.66837 AU				
opposition	8576 May 28 20:11	12° <b>∡</b> ′40′02	2°09'43	conjunction	8581 Oct 13 10:43	27° <b>£</b> 31'03	1°04'39
greatest brilliancy	8576 May 28 16:56	12° <b>∡</b> ¹43'16	-1.3m	minimum elong	8581 Oct 13 11:32	27° <b>£</b> 32'26	1°04'45
direct	8576 Jul 08 00:33	3° <b>∡</b> ¹08'36			8581 Oct 17 02:34	0°M	
desc. node	8576 Aug 01 06:19	6° <b>∡</b> 18'07		max. Earth dist.	8581 Nov 08 06:10	14°M49'37	2.59164 AU
desc. node	8576 Sep 29 10:18	0°ਤ ਹ°ਰ		max. Earth dist.	8581 Dec 01 09:47	0°×7	2.57104710
	8576 Nov 21 23:31	0°≈		morning rise		0° <b>₹</b> 50'13	
				morning rise	8581 Dec 02 16:45	0°ろ	
	8577 Jan 08 04:52	0° <b>∀</b>			8582 Jan 17 12:02		
	8577 Feb 20 15:57	0° <b>Υ</b>			8582 Mar 07 09:22	0° <b>≈</b>	
evening set	8577 Apr 01 01:17	28° <b>Y</b> ′57′27		desc. node	8582 Mar 23 23:47	9° <b>≈</b> 52'18	
	8577 Apr 02 10:25	$0^{\circ}S$			8582 Apr 28 03:26	0° <b>∀</b>	
max. Earth dist.	8577 May 03 04:16	23° <b>8</b> 35'19	2.37499 AU		8582 Jun 28 11:13	$0$ ° $\Upsilon$	
	8577 May 11 09:32	$\Pi$ $^{\circ}0$		retrograde	8582 Aug 14 23:03	10° <b>Ƴ</b> 46'55	
				opposition	8582 Sep 18 20:56	3° <b>Ƴ</b> 38'56	-5°29'58
conjunction	8577 Jun 03 17:20	18° <b>Ⅲ</b> 21'16	-0°24'31	greatest brilliancy	8582 Sep 20 12:32	3° <b>Y</b> 04'05	-2.1m
minimum elong	8577 Jun 03 19:43	18° <b>Ⅱ</b> 25'58	0°24'41	min. Earth dist.	8582 Sep 27 09:23	0° <b>Ƴ</b> 39'37	0.50396 AU
	8577 Jun 18 10:32	0°©			8582 Sep 29 08:29	30°₽ <b>)</b>	
asc. node	8577 Jul 08 08:49	15° <b>©</b> 46'13		direct	8582 Oct 27 05:32	24° <b>)</b> 53′22	
	8577 Jul 26 10:51	0°N			8582 Nov 24 16:12	0°Υ	
morning rise	8577 Aug 15 20:39	15° <b>Ω</b> 52'34			8583 Jan 21 05:40	0°8	
morning rise	8577 Sep 03 07:29	0° m)		asc. node	8583 Feb 28 08:54	26° <b>8</b> 27'19	
	8577 Oct 13 19:48	0∘ <b>⊽</b> مال		asc. Houc	8583 Mar 05 05:17	0° <b>Ⅱ</b>	
						0°©	
	8577 Nov 25 17:41	0° <b>M</b> 0°. <b>₹</b>			8583 Apr 14 06:55		
	8578 Jan 11 00:39	0° <b>∡</b> ¹			8583 May 24 00:27	0° <b>N</b>	
_	8578 Mar 04 10:20	0° <b>る</b>			8583 Jul 03 16:46	0° <b>m</b>	
retrograde	8578 May 22 10:54	25° <b>る</b> 29'26			8583 Aug 15 00:35	0∘ <b>亚</b>	
desc. node	8578 Jun 19 05:30	20°る38'21			8583 Sep 28 04:51	0°M₊	
opposition	8578 Jul 01 14:28	16° <b>る</b> 01'36		evening set	8583 Oct 06 23:56	5°M49'57	
greatest brilliancy	8578 Jul 01 14:59	16° <b>る</b> 01'05	-1.3m		8583 Nov 13 00:33	0° <b>∡</b> ¹	
min. Earth dist.	8578 Jul 03 10:37	15° <b>る</b> 18'09	0.67741 AU				
direct	8578 Aug 12 03:29	6° <b>る</b> 01'58		conjunction	8583 Nov 24 07:29	7° <b>∡</b> 16′00	0°37'58
	8578 Oct 27 01:03	0° <b>≈</b>		minimum elong	8583 Nov 24 08:34	7° <b>∡</b> 17'44	0°38'08
	8578 Dec 17 19:46	0° <b>)</b> €		max. Earth dist.	8583 Dec 03 13:48	13° <b>∡</b> 12′00	2.66362 AU
	8579 Jan 31 11:33	$0^{\circ}$ $\Upsilon$			8583 Dec 29 23:11	o°ප	
	8579 Mar 13 11:45	$6^{\circ}B$		morning rise	8584 Jan 08 08:51	5°る57'20	
	8579 Apr 21 09:39	$\Pi$ $^{\circ}0$		desc. node	8584 Feb 08 20:37	25° <b>る</b> 49'43	
asc. node	8579 May 26 07:37	27° <b>Ⅲ</b> 34'18			8584 Feb 15 11:39	0° <b>≈</b>	
	8579 May 29 09:10	0°€			8584 Apr 03 07:16	0° <b>)</b> €	
evening set	8579 Jun 10 02:17	9°516'33			8584 May 21 15:13	0°Υ	
evening sec	8579 Jul 06 10:35	0° <b>Ω</b>			8584 Jul 10 15:35	0°8	
	8579 Aug 14 11:16	0° <b>m</b> y			8584 Sep 06 06:03	0°II	
	6379 Aug 14 11.10	V III		ratra ara da	-	0 <b>H</b> 11° <b>H</b> 47'44	
	9570 A 19 17 49	20 m. 10141	0052101	retrograde	8584 Oct 23 23:48		2040122
conjunction	8579 Aug 18 17:42	3° Mp 12'41		opposition	8584 Nov 23 00:45	6° <b>Ⅱ</b> 45'29	
minimum elong	8579 Aug 18 14:45	3° Mp 07'10	0°51'53	greatest brilliancy	8584 Nov 23 19:42	6° <b>Ⅲ</b> 32'30	
	8579 Sep 24 04:14	0∘ <b>⊽</b>		min. Earth dist.	8584 Nov 27 09:14	5° <b>Ⅱ</b> 33'56	0.37858 AU
max. Earth dist.	8579 Oct 05 04:32	7° <b>£</b> 51'54	2.46932 AU	direct	8584 Dec 24 04:30	1° <b>Ⅱ</b> 15′26	
morning rise	8579 Oct 19 16:39	18° <b>ഫ</b> 03'23		asc. node	8585 Jan 15 09:26	4° <b>∏</b> 32'01	
	8579 Nov 06 00:50	0°M₊			8585 Mar 09 16:54	$0$ $\circ$	
	8579 Dec 21 08:26	0° <b>∡</b> ¹			8585 Apr 25 05:13	$0$ ° $\Omega$	
	8580 Feb 07 13:54	0°ರ			8585 Jun 08 16:19	0° <b>™</b>	
	8580 Mar 31 17:11	0° <b>≈</b>			8585 Jul 23 13:58	0∘ <b>⊽</b>	
desc. node	8580 May 06 02:55	16° <b>≈</b> 43'50			8585 Sep 07 13:25	0°M	
retrograde	8580 Jun 27 23:22	29° <b>≈</b> 32'17			8585 Oct 24 12:16	0°⊀	
opposition	8580 Aug 05 09:34	20°≈55'21	-3°07'46	evening set	8585 Nov 14 10:54	13° <b>∡</b> 16'04	
11		2	-	<i>5</i>			

	8585 Dec 10 21:26	0°ಕ			8590 Aug 24 22:11	$0^{\circ}\Omega$	
max. Earth dist.	8585 Dec 24 23:31		2.68065 AU	asc. node	8590 Sep 07 04:31	10° <b>Ω</b> 15'10	
desc. node	8585 Dec 26 17:50	10°පි03'04	2.00003 AO	asc. node	8590 Oct 03 03:22	0° m)	
dese. Hode	0303 Dec 20 17.30	10 003 04			8590 Nov 13 07:38	0∘ <b>⊽</b>	
conjunction	8585 Dec 29 10:19	11° <b>云</b> 45′26	-0°01'26		8590 Dec 28 11:27	0° <b>M</b>	
minimum elong	8585 Dec 29 10:15	11° <b>る</b> 45'21	0°01'14		8591 Feb 23 11:27	0° <b>∡</b> ¹	
behind sun begin	8585 Dec 28 15:56	11° <b>る</b> 16'17		retrograde	8591 Apr 05 20:44	9° <b>∡</b> 17'31	
behind sun end	8585 Dec 30 04:34	12° <b>る</b> 14'25		min. Earth dist.	8591 May 12 18:41	0° <b>∡</b> ¹40'58	0.64675 AU
	8586 Jan 27 00:44	0°≈			8591 May 14 11:52	30°RML	
morning rise	8586 Feb 11 00:03	9° <b>≈</b> 37'13		opposition	8591 May 16 05:34	29°M18'27	3°06'20
	8586 Mar 14 09:21	0° <b>∀</b>		greatest brilliancy	8591 May 15 20:55	29°M27'04	-1.4m
	8586 Apr 28 16:35	0°Υ		direct	8591 Jun 24 11:32	20°ML05'21	
	8586 Jun 11 21:33	0°8			8591 Aug 09 03:21	0° <b>∡</b> ¹	
	8586 Jul 25 04:30	0°II		desc. node	8591 Aug 18 18:53	3° <b>∡</b> ¹49'49	
	8586 Sep 06 05:04	0° <b>©</b>			8591 Oct 10 18:52	0°る	
aga mada	8586 Oct 21 03:19 8586 Dec 03 08:20	0° <b>Ω</b> 23° <b>Ω</b> 29'28			8591 Nov 30 23:00 8592 Jan 16 13:12	0° <b>≈</b> 0° <b>∀</b>	
asc. node	8586 Dec 23 02:49	0°M)			8592 Feb 28 21:31	0°Υ	
retrograde	8587 Jan 08 10:56	עוי ט 1° 10 54'06		evening set	8592 Mar 10 15:23	7° <b>Υ</b> 44'08	
retrograde	8587 Jan 24 17:24	1 11√3∓00 30°RΩ		max. Earth dist.	8592 Mar 26 03:42	19° <b>Υ</b> 06'15	2.42249 AU
min. Earth dist.	8587 Feb 03 15:56	27° <b>Ω</b> 18'04	0.41327 AU		8592 Apr 09 18:00	0°8	
greatest brilliancy	8587 Feb 10 03:14	25° <b>Ω</b> 14'29	-2.7m		<b>r</b>	. •	
opposition	8587 Feb 11 10:42	24° <b>Ω</b> 49'14	4°22'26	conjunction	8592 May 07 06:40	21° <b>8</b> 00'58	-0°50'01
direct	8587 Mar 14 09:47	18° <b>Ω</b> 57'57		minimum elong	8592 May 07 09:23	21° <b>8</b> 06'12	0°50'08
	8587 Apr 28 23:27	0° <b>m</b>			8592 May 18 20:21	$\Pi^{\circ}0$	
	8587 Jun 26 13:32	0∘ <b>⊽</b>			8592 Jun 26 00:10	$0$ $\circ$	
	8587 Aug 16 13:54	0°M₊		morning rise	8592 Jul 15 06:56	15°913'40	
	8587 Oct 05 00:41	0° <b>∡</b>		asc. node	8592 Jul 25 00:59	22° <b>9</b> 54'21	
desc. node	8587 Nov 13 17:01	24° <b>₹</b> 28'24			8592 Aug 03 02:03	$0$ $^{\circ}\Omega$	
	8587 Nov 22 13:53	0°る			8592 Sep 10 22:58	0° <b>m</b>	
evening set	8587 Dec 20 10:17	17°る31'43 0°≈			8592 Oct 21 11:52	0° <b>៤</b>	
max. Earth dist.	8588 Jan 08 22:46 8588 Jan 17 02:52		2.64275 AU		8592 Dec 03 14:51 8593 Jan 19 20:07	0°แเ 0° <b>.⁄</b> ไ	
max. Earm dist.	0300 Jan 17 02.32	3 🗢 10 13	2.04273 AU		8593 Mar 17 23:19	0°る	
conjunction	8588 Feb 03 04:41	16° <b>≈</b> 23'52	-0°40'30	retrograde	8593 May 09 01:11	0 0 13° <b>る</b> 00'07	
minimum elong	8588 Feb 03 03:37	16°≈22'07		opposition	8593 Jun 18 12:01	3°る18'59	0°35'35
	8588 Feb 23 17:56	0° <b>)</b> €		greatest brilliancy	8593 Jun 18 12:25	3° <b>ප</b> 18'35	
morning rise	8588 Mar 19 13:58	16° <b>)</b> 46′31		min. Earth dist.	8593 Jun 18 20:33	3° <b>ප</b> 10'32	0.68162 AU
	8588 Apr 07 18:14	$0^{\circ}\Upsilon$			8593 Jun 27 01:07	30°R. <b>✓</b>	
	8588 May 20 00:34	$9^{\circ}$ 8		desc. node	8593 Jul 05 19:10	27° <b>х</b> ³03′01	
	8588 Jun 29 18:49	$\Pi^{\circ}0$		direct	8593 Jul 29 16:13	23° <b>∡</b> ¹27'21	
	8588 Aug 08 12:53	0ಂತಾ			8593 Sep 03 14:58	0°ಕ	
_	8588 Sep 17 02:17	$0^{\circ}\Omega$			8593 Nov 07 00:34	0° <b>≈</b>	
asc. node	8588 Oct 20 07:18	24° <b>Ω</b> 35'00			8593 Dec 26 06:43	0° <b>)</b> €	
	8588 Oct 27 20:15	0° <b>m</b>			8594 Feb 08 07:13	0ა <b>尺</b> 0ა <b>人</b>	
retrograde	8588 Dec 11 17:34 8589 Feb 26 21:06	0° <b>ჲ</b> 29° <b>ჲ</b> 14'35			8594 Mar 21 03:41 8594 Apr 29 01:01	0°U	
min. Earth dist.	8589 Mar 30 11:15	29° <b>£</b> 26'39	0.54887 AU	evening set	8594 May 11 12:56	9° <b>П</b> 49'53	
greatest brilliancy	8589 Apr 05 08:45	20° <b>£</b> 11'03	-1.9m	evening sec	8594 Jun 06 00:09	0°9	
opposition	8589 Apr 06 14:46	19° <b>£</b> 42'10	5°06'33	asc. node	8594 Jun 11 23:57	4°9645'02	
direct	8589 May 12 12:02	11° <b>≏</b> 41'58			8594 Jul 14 00:10	$0^{\circ}\Omega$	
	8589 Jul 16 00:10	0°M					
	8589 Sep 11 18:46	0° <b>∡</b> ¹		conjunction	8594 Jul 21 07:58	5° <b>Ω</b> 43'18	0°27'28
desc. node	8589 Sep 30 17:40	10° <b>∡</b> °48'40		minimum elong	8594 Jul 21 05:15	5° <b>Ω</b> 38′00	0°27'15
	8589 Nov 02 04:23	<b>℃</b> 0			8594 Aug 21 22:06	0° <b>m</b> )	
evening set	8589 Nov 02 04:23 8589 Dec 20 13:11	0° <b>≈</b>		max. Earth dist.	8594 Sep 12 17:38	16° Mp 18'38	2.41346 AU
	8589 Dec 20 13:11 8590 Jan 25 20:29	0° <b>≈</b> 23° <b>≈</b> 38'07		max. Earth dist. morning rise	8594 Sep 12 17:38 8594 Sep 27 13:37	16° Mp 18'38 27° Mp 09'43	2.41346 AU
	8589 Dec 20 13:11 8590 Jan 25 20:29 8590 Feb 04 08:48	0°≈ 23°≈38'07 0°¥	0.0004 13-		8594 Sep 12 17:38 8594 Sep 27 13:37 8594 Oct 01 11:51	16° M 18'38 27° M 09'43 0° <u>∩</u>	2.41346 AU
max. Earth dist.	8589 Dec 20 13:11 8590 Jan 25 20:29	0°≈ 23°≈38'07 0°¥	2.55254 AU		8594 Sep 12 17:38 8594 Sep 27 13:37 8594 Oct 01 11:51 8594 Nov 13 06:53	16° m 18'38 27° m 09'43 0° Ω 0° M	2.41346 AU
	8589 Dec 20 13:11 8590 Jan 25 20:29 8590 Feb 04 08:48 8590 Feb 12 02:37	0°≈ 23°≈38'07 0°¥ 5°¥14'04			8594 Sep 12 17:38 8594 Sep 27 13:37 8594 Oct 01 11:51 8594 Nov 13 06:53 8594 Dec 28 19:06	16° m 18'38 27° m 09'43 0° Ω 0° M 0° ⊀	2.41346 AU
conjunction	8589 Dec 20 13:11 8590 Jan 25 20:29 8590 Feb 04 08:48 8590 Feb 12 02:37 8590 Mar 14 21:04	0°≈ 23°≈38'07 0° <del>H</del> 5° <del>H</del> 14'04 26° <del>H</del> 31'36	-1°05'47		8594 Sep 12 17:38 8594 Sep 27 13:37 8594 Oct 01 11:51 8594 Nov 13 06:53 8594 Dec 28 19:06 8595 Feb 15 23:40	16° Mp 18'38 27° Mp 09'43 0° <u>മ</u> 0° ML 0° \$7	2.41346 AU
	8589 Dec 20 13:11 8590 Jan 25 20:29 8590 Feb 04 08:48 8590 Feb 12 02:37 8590 Mar 14 21:04 8590 Mar 14 20:25	0°≈ 23°≈38'07 0°₩ 5°₩14'04 26°₩31'36 26°₩30'28	-1°05'47	morning rise	8594 Sep 12 17:38 8594 Sep 27 13:37 8594 Oct 01 11:51 8594 Nov 13 06:53 8594 Dec 28 19:06 8595 Feb 15 23:40 8595 Apr 14 10:15	16° Mp 18'38 27° Mp 09'43 0° Ω 0° ML 0° ズ 0° ℧ 0° ℧	2.41346 AU
conjunction	8589 Dec 20 13:11 8590 Jan 25 20:29 8590 Feb 04 08:48 8590 Feb 12 02:37 8590 Mar 14 21:04 8590 Mar 14 20:25 8590 Mar 19 18:59	0°≈ 23°≈38'07 0°ℋ 5°ℋ14'04 26°ℋ30'28 0°℉	-1°05'47	morning rise  desc. node	8594 Sep 12 17:38 8594 Sep 27 13:37 8594 Oct 01 11:51 8594 Nov 13 06:53 8594 Dec 28 19:06 8595 Feb 15 23:40 8595 Apr 14 10:15 8595 May 23 18:02	16° m 18'38 27° m 09'43 0° Ω 0° M 0° ¾ 0° ♂ 0° ≈ 13°≈37'42	2.41346 AU
conjunction minimum elong	8589 Dec 20 13:11 8590 Jan 25 20:29 8590 Feb 04 08:48 8590 Feb 12 02:37 8590 Mar 14 21:04 8590 Mar 14 20:25 8590 Mar 19 18:59 8590 Apr 30 02:34	0°≈ 23°≈38'07 0° ₩ 5° ₩ 14'04 26° ₩ 30'28 0° ₩ 0° ₩ 0° ₩	-1°05'47	morning rise  desc. node retrograde	8594 Sep 12 17:38 8594 Sep 27 13:37 8594 Oct 01 11:51 8594 Nov 13 06:53 8594 Dec 28 19:06 8595 Feb 15 23:40 8595 Apr 14 10:15 8595 May 23 18:02 8595 Jun 13 15:22	16° m 18'38 27° m 09'43 0° Ω 0° M 0° ¾ 0° ♂ 0° ≈ 13°≈37'42 16°≈02'18	
conjunction	8589 Dec 20 13:11 8590 Jan 25 20:29 8590 Feb 04 08:48 8590 Feb 12 02:37 8590 Mar 14 21:04 8590 Mar 14 20:25 8590 Mar 19 18:59	0°≈ 23°≈38'07 0°ℋ 5°ℋ14'04 26°ℋ30'28 0°℉	-1°05'47	desc. node retrograde opposition	8594 Sep 12 17:38 8594 Sep 27 13:37 8594 Oct 01 11:51 8594 Nov 13 06:53 8594 Dec 28 19:06 8595 Feb 15 23:40 8595 Apr 14 10:15 8595 May 23 18:02	16° m 18'38 27° m 09'43 0° Ω 0° M 0° ¾ 0° ♂ 0° ≈ 13°≈37'42	-2°04'47
conjunction minimum elong	8589 Dec 20 13:11 8590 Jan 25 20:29 8590 Feb 04 08:48 8590 Feb 12 02:37 8590 Mar 14 21:04 8590 Mar 14 20:25 8590 Mar 19 18:59 8590 Apr 30 02:34 8590 May 06 13:07	0°≈ 23°≈38'07 0° ₩ 5° ₩ 14'04 26° ₩ 30'28 0° ₩ 0° ₩ 4° ₩ 47'52	-1°05'47	morning rise  desc. node retrograde	8594 Sep 12 17:38 8594 Sep 27 13:37 8594 Oct 01 11:51 8594 Nov 13 06:53 8594 Dec 28 19:06 8595 Feb 15 23:40 8595 Apr 14 10:15 8595 May 23 18:02 8595 Jun 13 15:22 8595 Jul 22 21:49	16° m 18'38 27° m 09'43 0° Ω 0° M 0° ¾ 0° ♂ 0° ≈ 13° ≈ 37'42 16° ≈ 02'18 7° ≈ 02'14	-2°04'47 -1.4m

	8595 Aug 11 21:07	30°R♂		minimum elong	8600 Dec 16 17:18	28° <b>₹</b> 48'25	0°14'36
direct	8595 Sep 02 12:09	26° <b>る</b> 59'24		behind sun begin	8600 Dec 16 09:48	28° ₹ 36'32	
	8595 Sep 25 11:05	0° <b>≈</b>		behind sun end	8600 Dec 17 00:48	29° 🗷 00'18	2 (0050 ATT
	8595 Dec 01 15:45	0° <b>Υ</b> 0° <b>Υ</b>		max. Earth dist.	8600 Dec 17 07:43	29° <b>∡</b> 11'17	2.68059 AU
	8596 Jan 17 14:39			44-	8600 Dec 18 14:26	0°る	
	8596 Feb 28 07:48	0°B 0°B		desc. node	8601 Jan 13 08:22	16°පි20'37 26°පි36'01	
aga mada	8596 Apr 07 11:55	16° <b>∏</b> 52'39		morning rise	8601 Jan 29 11:26 8601 Feb 03 19:28	26°₩	
asc. node	8596 Apr 29 00:02 8596 May 15 15:12	10 <b>п</b> 3239			8601 Mar 22 14:27	0 <b>≈</b> 0° <b>∀</b>	
	8596 Jun 22 20:59	0°Ω				0°Υ	
avaning sat	8596 Jul 24 03:42	23° <b>Ω</b> 59'20			8601 May 07 18:32 8601 Jun 22 09:56	0° <b>8</b>	
evening set	8596 Aug 01 03:21	0°m)			8601 Aug 06 23:38	0°U	
	8596 Sep 11 02:41	0∘ <del>ত</del> الله			8601 Sep 23 07:14	0°9	
	8390 Sep 11 02.41	0 ==			8601 Nov 27 10:33	0°Ω 0 €3	
conjunction	8596 Sep 23 19:21	9° <b>亞</b> 00'18	1°06'44	retrograde	8601 Dec 13 23:19	0 <b>δι</b> 1° <b>Ω</b> 49'41	
minimum elong	8596 Sep 23 19:04		1°06'46	asc. node	8601 Dec 21 02:49	1° <b>Ω</b> 28'12	
minimum clong	8596 Oct 24 03:54	0°M.	1 00 40	asc. node	8601 Dec 30 09:53	30°RS	
max. Earth dist.	8596 Oct 27 14:05		2.54906 AU	min. Earth dist.	8602 Jan 09 13:25	30 k≌ 27°9528'34	0.37493 AU
morning rise	8596 Nov 16 15:51	15°M46'02	2.34900 AU	opposition	8602 Jan 14 02:01		1°48'04
morning rise	8596 Dec 08 09:05	13 11 <b>€</b> 40 02		greatest brilliancy	8602 Jan 13 17:06	26°912'37	
	8597 Jan 24 17:40	0°중		greatest brilliancy	8002 Jan 13 17.00	20 201911	-3.0111
	8597 Mar 15 16:27	0°≈					
desc. node	8597 Apr 09 14:57	0 ≈ 14°≈05'55					
desc. node	8597 May 10 01:34	0° <b>)</b>					
retrograde	8597 Jul 25 08:23	23° <b>¥</b> 28'32					
opposition	8597 Aug 30 21:23	15° <b>)</b> 39'41	4042117				
greatest brilliancy	8597 Sep 01 02:49	15° <b>X</b> 12'36					
min. Earth dist.	8597 Sep 07 12:44		0.55550 AU				
direct	8597 Oct 09 19:42	6° <b>H</b> 13'17	0.55550 AO				
direct	8597 Oct 09 19:42 8597 Dec 18 04:06	0° <b>Υ</b>					
	8598 Feb 02 16:51	0°8					
	8598 Mar 15 13:24	0°U					
asc. node	8598 Mar 16 23:55	1° <b>П</b> 05'26					
asc. node	8598 Apr 23 15:28	0°95					
	8598 Jun 01 16:40	0°N					
	8598 Jul 11 18:50	0° <b>m</b> y					
	8598 Aug 22 13:58	0° <del>ت</del>					
evening set	8598 Sep 19 07:45	0 <b>—</b> 19° <b>Ω</b> 10'39					
evening set	8598 Oct 05 07:48	0°M					
	00,000000000000000000000000000000000000	~ no					
conjunction	8598 Nov 09 01:59	22°M59'27	0°50'46				
minimum elong	8598 Nov 09 03:16	23°M01'32					
	8598 Nov 19 20:45	0° <b>∡</b> 7					
max. Earth dist.	8598 Nov 24 08:28	2° <b>∡</b> ¹54'13	2.64193 AU				
morning rise	8598 Dec 25 14:46	22° <b>∡</b> ¹55'33					
-	8599 Jan 05 18:37	8°0					
	8599 Feb 22 15:59	0° <b>≈</b>					
desc. node	8599 Feb 25 11:20	1° <b>≈</b> 44'31					
	8599 Apr 12 12:53	0° <b>)</b> €					
	8599 Jun 02 09:04	$0^{\circ}\Upsilon$					
	8599 Jul 30 05:10	0°8					
retrograde	8599 Sep 23 14:39	14° <b>8</b> 34'43					
opposition	8599 Oct 25 12:30	8° <b>8</b> 47'01	-5°34'05				
greatest brilliancy	8599 Oct 27 04:37	8° <b>8</b> 16'06	-2.6m				
min. Earth dist.	8599 Nov 02 08:30	6° <b>8</b> 23'33	0.41954 AU				
direct	8599 Nov 28 18:50	1° <b>8</b> 53'19					
asc. node	8600 Feb 02 01:48	25° <b>8</b> 03'32					
	8600 Feb 10 06:19	$\Pi$ $^{\circ}0$					
	8600 Mar 27 00:53	$0$ $\circ$					
	8600 May 08 03:01	$0$ ° $\Omega$					
	8600 Jun 19 10:04	0° <b>m</b>					
	8600 Aug 01 23:15	0∘ <b>⊽</b>					
	8600 Sep 16 01:25	$0^{\circ}$ M					
evening set	8600 Oct 31 20:17	29°M36'14					
	8600 Nov 01 11:08	0°⊀					

conjunction

8600 Dec 16 16:51

28°**∡**147'43 0°14'24