superior conj	8601 Jul 27 03:19	10° Ω 46'15	-0°10'29		8603 Dec 10 03:24	30°R. ✓	
minimum elong	8601 Jul 27 05:50	10° Ω 54'03	0°10'32	evening set	8603 Dec 11 01:45	29° ∡ ¹27'46	
behind sun begin	8601 Jul 26 11:17	9° Ω 56′23		inferior conj	8603 Dec 15 09:16	26° ₰ ⁴49'15	
behind sun end	8601 Jul 28 00:23	11° Ω 51'43		minimum elong	8603 Dec 15 19:08	26° ≯ 33'48	
max. Earth dist.	8601 Jul 30 04:49	14° Ω 34'35	1.72381 AU	min. Earth dist.	8603 Dec 16 04:10	26° ≯ 19'38	0.28624 AU
asc. node	8601 Jul 31 11:03	16° Ω 08'32		morning rise	8603 Dec 20 12:05	23° ∡ 41'35	
	8601 Aug 11 15:06	0°m		direct	8604 Jan 05 18:27	18° ∡ ³34'32	
evening rise	8601 Sep 03 00:49	27° m/42'44		asc. node	8604 Jan 16 07:54	20° 🖈 37'37	4.0
	8601 Sep 04 21:18	0∘ 亚		greatest brilliancy	8604 Jan 16 21:39	20° ₹ 50'43	-4.8m
	8601 Sep 29 06:32 8601 Oct 23 19:55	0° M 0° ∡ 7		mamina may al	8604 Feb 01 14:00 8604 Feb 24 17:46	0°궁 20°중34'12	16929126
	8601 Nov 17 14:56	0°중		morning max el	8604 Mar 04 21:46	20 3 34 12 0° ≈	40 28 20
desc. node	8601 Nov 20 04:57	3° ප 06'25			8604 Mar 31 21:57	0° ∺	
dese. Hode	8601 Dec 12 17:05	0°≈			8604 Apr 26 08:38	0° Υ	
	8602 Jan 07 04:52	0°) €		desc. node	8604 May 07 01:55	12° Υ 55'42	
	8602 Feb 02 09:53	$0^{\circ}\Upsilon$			8604 May 21 02:27	0°8	
evening max el	8602 Mar 02 05:45	29° Ƴ 46'18	46°50'01		8604 Jun 14 12:13	0°II	
-	8602 Mar 02 11:13	0° ႘			8604 Jul 08 18:54	0ංම	
asc. node	8602 Mar 13 04:43	10° 8 17'44			8604 Aug 02 01:21	$0^{\circ}\Omega$	
	8602 Apr 10 02:34	$\Pi^{\circ}0$			8604 Aug 26 08:30	0° ™	
greatest brilliancy	8602 Apr 11 19:30	0° Ⅱ 39′00	-4.9m	asc. node	8604 Aug 27 23:15	1° m 59'37	
retrograde	8602 Apr 21 14:52	2° Ⅱ 27'47		morning set	8604 Aug 28 15:04	2°M/48'23	
	8602 May 02 14:50	30° ₹ 8			8604 Sep 19 16:05	0∘ ত	
evening set	8602 May 09 19:04	26° 8 09'17					
inferior conj	8602 May 12 06:24	24° 8 38'19	9°08'34	superior conj	8604 Oct 04 21:37	18° ≏ 47'18	1°15'20
minimum elong	8602 May 12 09:10	24° 8 34'03	9°08'18	minimum elong	8604 Oct 04 13:35	18° ≏ 22'31	1°15'11
min. Earth dist.	8602 May 12 05:21	24° 8 39'57	0.27140 AU	max. Earth dist.	8604 Oct 05 09:15	19° ≙ 23'10	1.73252 AU
morning rise	8602 May 14 23:21	22° 8 59'05			8604 Oct 13 23:52	0°M	
direct	8602 Jun 01 22:45	16° 8 51'06	4.0		8604 Nov 07 08:11	0° ∡ 7	
greatest brilliancy	8602 Jun 11 11:57	18° 8 34'31	-4.9m	evening rise	8604 Nov 10 07:50	3° х 40′27	
desc. node	8602 Jun 30 21:11 8602 Jul 02 23:51	0°Ⅲ 1°Ⅲ40'17		daga mada	8604 Dec 01 17:48	0°る 19°る34'07	
morning max el	8602 Jul 02 23:31 8602 Jul 22 00:39	1 Д 4017 18° Д 59'01	46°32'23	desc. node	8604 Dec 17 16:44 8604 Dec 26 05:05	19 3 3407	
morning max er	8602 Aug 01 19:46	0°9	40 32 23		8605 Jan 19 17:54	0 ≈ 0° H	
	8602 Aug 29 05:31	0°Ω			8605 Feb 13 08:40	0° Υ	
	8602 Sep 24 07:23	0° m)			8605 Mar 10 04:09	0°8	
	8602 Oct 19 17:27	0∘ ಹ			8605 Apr 04 12:02	0°II	
asc. node	8602 Oct 23 22:01	5° ≏ 00'04		asc. node	8605 Apr 09 15:52	5° Ⅱ 58'24	
	8602 Nov 13 16:45	0° M .			8605 May 01 02:47	0ංම	
	8602 Dec 08 07:54	0°⊀		evening max el	8605 May 13 20:57	13°520'15	46°52'35
	8603 Jan 01 17:11	0°ರ			8605 May 31 18:57	$0^{\circ}\Omega$	
morning set	8603 Jan 16 22:14	18° る 49'20		greatest brilliancy	8605 Jun 22 16:27	13° Ω 58′02	-4.9m
	8603 Jan 25 22:25	0° ≈		retrograde	8605 Jul 03 07:00	16° Ω 04'48	
desc. node	8603 Feb 12 14:56	22°≈00'42		evening set	8605 Jul 18 07:34	11° Ω 39'14	
	8603 Feb 19 00:37	0°) €		inferior conj	8605 Jul 24 08:33	8° Ω 03'44	1°32'11
max. Earth dist.	8603 Feb 21 18:23	3° ∺ 25'16	1.71834 AU	minimum elong	8605 Jul 24 12:02	7° Ω 58′21	1°30'55
·	9602 E 1 25 00 26	701/20150	092012.5	min. Earth dist.	8605 Jul 24 01:06	8° Ω 15'14	0.27651 AU
superior conj	8603 Feb 25 00:26	7° ∺ 28'59		desc. node	8605 Jul 30 11:22	4° Ω 26'18	
minimum elong	8603 Feb 24 17:25 8603 Mar 15 00:18	7° ℋ 07'02 0° Ƴ	0 29 09	morning rise direct	8605 Jul 30 16:56 8605 Aug 14 06:39	4° Ω 18'48 0° Ω 09'53	
evening rise	8603 Apr 05 23:47	0 γ 27° Υ 34'05		greatest brilliancy	8605 Aug 24 03:15	1° Ω 55'59	4 8m
evening rise	8603 Apr 07 22:17	0° 8		greatest oriniancy	8605 Oct 01 22:55	0° m	-4.0111
	8603 May 01 20:14	0°II		morning max el	8605 Oct 01 22:33	0° m)15'49	45°49'36
	8603 May 25 20:36	0°©		morning max cr	8605 Oct 30 23:47	0° ʊ	43 47 30
asc. node	8603 Jun 05 13:02	13°9516'06		asc. node	8605 Nov 20 10:16	22° ≏ 53'24	
•	8603 Jun 19 02:08	0°N		-	8605 Nov 26 14:40	0° M	
	8603 Jul 13 15:57	0° mp			8605 Dec 22 02:34	0° ∡ ¹	
	8603 Aug 07 18:56	0∘ ⊽			8606 Jan 15 22:52	8°0	
	8603 Sep 02 21:16	0° M			8606 Feb 09 09:38	0° ≈	
desc. node	8603 Sep 25 08:06	24°M11'00			8606 Mar 05 14:15	0° ∀	
	8603 Oct 01 02:07	0° ∡ ¹		desc. node	8606 Mar 12 03:08	8°) €08'58	
evening max el	8603 Oct 06 08:00	5° ∡ 07'38	45°41'59		8606 Mar 29 14:35	0° Y	
	8603 Nov 06 23:55	0°ಕ		morning set	8606 Mar 31 17:54	2° Y 40'47	
greatest brilliancy	8603 Nov 14 11:48	3°る16'38	-4.7m		8606 Apr 22 12:07	0° 8	
retrograde	8603 Nov 24 00:49	4° る 55'51					

superior conj	8606 May 11 12:11	23° 8 53'45	-1°27'14	morning rise	8608 Oct 07 04:17	14° ≏ 45'38	
minimum elong	8606 May 11 14:47	24° 8 01'56		direct	8608 Oct 24 17:11	8° ≏ 59'21	
max. Earth dist.	8606 May 12 10:12	25° 8 02'58	1.71263 AU	greatest brilliancy	8608 Nov 03 14:53	10° ⊆ 46'24	-4.7m
	8606 May 16 08:42	0°II		8	8608 Dec 02 18:24	0°M	,
	8606 Jun 09 06:25	0°9		morning max el	8608 Dec 12 15:06	9°M08'16	45°46'37
evening rise	8606 Jun 20 22:43	14°936'22		asc. node	8608 Dec 17 22:15	14°M21'34	
asc. node	8606 Jul 03 00:58	29°5641'02			8609 Jan 01 21:33	0° ∡ 7	
	8606 Jul 03 07:04	$0^{\circ}\Omega$			8609 Jan 28 13:22	0° ろ	
	8606 Jul 27 11:55	0° m)			8609 Feb 22 21:30	0° ≈	
	8606 Aug 20 22:18	0∘ ⊽			8609 Mar 19 13:40	0°) €	
	8606 Sep 14 16:32	0° M .		desc. node	8609 Apr 08 15:36	24°) 46′18	
	8606 Oct 09 22:44	0° ∡ ¹			8609 Apr 12 20:45	$0^{\circ}\mathbf{\Upsilon}$	
desc. node	8606 Oct 22 19:21	14° ₹ 57'02			8609 May 06 22:34	0° ႘	
	8606 Nov 05 00:03	6°0			8609 May 30 21:58	$\Pi^{\circ}0$	
	8606 Dec 02 12:24	0°≈		morning set	8609 Jun 15 14:43	19° Ⅲ 39′02	
evening max el	8606 Dec 17 01:29	14°≈40′03	46°04'22	•	8609 Jun 23 21:22	0°©	
	8607 Jan 03 04:45	0° ℋ			8609 Jul 17 22:29	$0^{\circ}\Omega$	
greatest brilliancy	8607 Jan 25 14:07	13°) 39′39	-4.8m				
retrograde	8607 Feb 04 10:00	15° ∺ 26'59		superior conj	8609 Jul 24 17:28	8° Ω 26'55	-0°14'05
asc. node	8607 Feb 12 19:21	14°) €01'10		minimum elong	8609 Jul 24 20:49	8° Ω 37'20	0°14'05
evening set	8607 Feb 18 21:58	11°) 18'17		behind sun begin	8609 Jul 24 08:55	8° Ω 00′21	
inferior conj	8607 Feb 25 03:37	7°) 38′29	3°06'34	behind sun end	8609 Jul 25 08:43	9° Ω 14'19	
minimum elong	8607 Feb 24 20:46	7°) 49′00	3°04'34	max. Earth dist.	8609 Jul 27 22:13	12° Ω 25′28	1.72336 AU
min. Earth dist.	8607 Feb 25 06:39	7°) 33'49	0.27212 AU	asc. node	8609 Jul 30 12:57	15° Ω 40′20	
morning rise	8607 Mar 02 19:15	4°) 17'11			8609 Aug 11 02:03	0° m	
	8607 Mar 14 10:33	30° R ≈		evening rise	8609 Aug 31 17:20	25° Mp 31'43	
direct	8607 Mar 17 23:23	29° ≈ 44'35			8609 Sep 04 08:17	0° ت	
	8607 Mar 21 13:32	0° ℋ			8609 Sep 28 17:38	o° m ₊	
greatest brilliancy	8607 Mar 28 06:19	1°) 44′53	-4.9m		8609 Oct 23 07:16	0° ∡ ¹	
	8607 May 04 19:58	$0^{\circ}\mathbf{\Upsilon}$			8609 Nov 17 02:44	0°ರ	
morning max el	8607 May 07 13:00	2° Y 42'14	46°59'17	desc. node	8609 Nov 19 07:03	2° る 37'07	
	8607 Jun 01 22:51	8° 0			8609 Dec 12 05:42	0° ≈	
desc. node	8607 Jun 04 14:09	2° 8 58'33			8610 Jan 06 18:52	0°) €	
	8607 Jun 27 22:29	$\Pi^{\circ}0$			8610 Feb 02 02:32	$0^{\circ}\mathbf{\Upsilon}$	
	8607 Jul 23 03:16	0ಂಣ		evening max el	8610 Feb 27 18:36	27° Y 20'13	46°48'41
	8607 Aug 17 00:17	$0^{\circ}\Omega$			8610 Mar 02 10:59	8°	
	8607 Sep 10 17:29	O° m		asc. node	8610 Mar 12 06:38	9° 8 15'15	
asc. node	8607 Sep 25 11:37	17° ™ 58'56		greatest brilliancy	8610 Apr 09 09:13	28° 8 13'11	-4.9m
	8607 Oct 05 07:44	0∘ ⊽			8610 Apr 18 06:05	$\Pi^{\circ}0$	
	8607 Oct 29 19:00	0°M₊		retrograde	8610 Apr 19 03:12	0° Ⅱ 00'56	
morning set	8607 Nov 06 11:49	9°M28'08			8610 Apr 20 00:14	30° ₹ 8	
	8607 Nov 23 03:41	0°⊀		evening set	8610 May 07 08:25	23° 8 42'14	
max. Earth dist.	8607 Dec 11 16:04	22° ∡ 751'46	1.73008 AU	inferior conj	8610 May 09 19:15	22° 8 12'00	9°11'04
				minimum elong	8610 May 09 21:03	22° 8 09'14	9°10'51
superior conj	8607 Dec 13 02:38	24° ∡ ³38'32	1°09'01	min. Earth dist.	8610 May 09 18:09	22° 8 13'42	0.27131 AU
minimum elong	8607 Dec 13 11:57	25° ∡ 07'19	1°08'56	morning rise	8610 May 12 09:43	20° 8 36'21	
	8607 Dec 17 10:38	0° ට		direct	8610 May 30 11:04	14° 8 24'50	
	8608 Jan 10 16:26	0° ≈		greatest brilliancy	8610 Jun 09 00:55	16° 8 08'25	-4.9m
desc. node	8608 Jan 15 04:47	5° ≈ 35'36			8610 Jul 01 10:52	Π $^{\circ}0$	
evening rise	8608 Jan 20 02:58	11° ≈ 41'52		desc. node	8610 Jul 02 01:50	0° Ⅲ 30′50	
	8608 Feb 03 21:06	0° ∀		morning max el	8610 Jul 19 12:43	16° Ⅲ 32′22	46°33'57
	8608 Feb 28 00:38	$0^{\circ}\mathbf{\Upsilon}$			8610 Aug 01 15:13	0 \circ \odot	
	8608 Mar 23 03:56	9° 8			8610 Aug 28 20:38	$0^{\circ}\Omega$	
	8608 Apr 16 09:33	Π $^{\circ}0$			8610 Sep 23 20:35	O° Mp	
asc. node	8608 May 07 03:22	25° Ⅱ 25'18			8610 Oct 19 05:36	0∘ ত	
	8608 May 10 21:49	0ංම		asc. node	8610 Oct 22 24:00	4° £ 30′05	
	8608 Jun 04 23:34	$0^{\circ}\Omega$			8610 Nov 13 04:16	0° M,	
	8608 Jul 01 04:04	0° m			8610 Dec 07 19:04	0° ∡ ¹	
evening max el	8608 Jul 24 04:35	24° Mp 15'46	46°10'14		8611 Jan 01 04:09	8°0	
	8608 Jul 30 03:28	0∘ ত		morning set	8611 Jan 14 13:40	16° පි 34'31	
desc. node	8608 Aug 26 22:51	21° ≏ 10′02			8611 Jan 25 09:19	0° ≈	
greatest brilliancy	8608 Aug 31 17:29	23° ≏ 18′06	-4.8m	desc. node	8611 Feb 11 16:49	21° ≈ 32′28	
retrograde	8608 Sep 11 17:34	25° ≏ 29'50			8611 Feb 18 11:34	0° ∀	
evening set	8608 Sep 28 13:04	20° ≏ 04'25		max. Earth dist.	8611 Feb 19 07:24	1° ₩ 01'53	1.71881 AU
min. Earth dist.	8608 Oct 02 15:33	17° ≏ 33'29	0.28970 AU				
inferior conj	8608 Oct 03 05:20	17° ≏ 11'52	-7°28'15	superior conj	8611 Feb 22 13:18	5°) €05'04	-0°26'01
minimum elong	8608 Oct 02 20:32	17° ≏ 25'40	7°26'53	minimum elong	8611 Feb 22 07:04	4°) 45′36	0°25'37

	8611 Mar 14 11:20	$0^{\circ}\mathbf{\Upsilon}$		greatest brilliancy	8613 Aug 21 17:10	29° © 37'56	-4.8m
evening rise	8611 Apr 03 11:19	25° Y ′04'49		,	8613 Aug 22 17:42	$0^{\circ}\Omega$	
C	8611 Apr 07 09:25	0°8		morning max el	8613 Sep 29 21:03	28° Ω 03'04	45°50'36
	8611 May 01 07:29	$\Pi^{\circ}0$		•	8613 Oct 01 21:30	o° mp	
	8611 May 25 08:01	0°€			8613 Oct 30 15:29	0∘ ত	
asc. node	8611 Jun 04 15:03	12° 5 46'39		asc. node	8613 Nov 19 12:20	22° ჲ 20'09	
	8611 Jun 18 13:51	$0^{\circ}\Omega$			8613 Nov 26 03:55	0°M	
	8611 Jul 13 04:12	0° m			8613 Dec 21 14:40	0°⊀	
	8611 Aug 07 08:10	0∘ ত			8614 Jan 15 10:22	o°ප	
	8611 Sep 02 12:33	0° M			8614 Feb 08 20:49	0° ≈	
desc. node	8611 Sep 24 10:03	23°M26'59			8614 Mar 05 01:14	0° ℋ	
	8611 Sep 30 23:06	0°⊀		desc. node	8614 Mar 11 05:09	7°) 41′05	
evening max el	8611 Oct 03 21:52	2° ≯ 51'42	45°42'11	morning set	8614 Mar 29 05:00	0° Υ 11'08	
	8611 Nov 09 06:20	0°ಕ			8614 Mar 29 01:27	$0^{\circ}\Upsilon$	
greatest brilliancy	8611 Nov 12 02:23	1° る 03'56	-4.7m		8614 Apr 21 22:55	9° 8	
retrograde	8611 Nov 21 16:06	2°る44'02					
	8611 Dec 03 11:27	30°R. ✓		superior conj	8614 May 08 23:34	21° 8 24'42	
evening set	8611 Dec 08 20:01	27° ∡ 11′01		minimum elong	8614 May 09 01:06	21° 8 29'29	
inferior conj	8611 Dec 13 00:54	24° 🖈 36'33		max. Earth dist.	8614 May 09 20:01		1.71252 AU
minimum elong	8611 Dec 13 10:34	24° 🖈 21'24			8614 May 15 19:29	0° Ⅱ	
min. Earth dist.	8611 Dec 13 19:30		0.28674 AU		8614 Jun 08 17:14	0°95	
morning rise	8611 Dec 18 00:42	21° 🗷 33'20		evening rise	8614 Jun 18 10:55	12°5010'50	
direct	8612 Jan 03 09:59	16° ₹ 21'07 18° ₹ 37'51	4.0	asc. node	8614 Jul 02 02:51	29°©13'05	
greatest brilliancy asc. node	8612 Jan 14 13:55 8612 Jan 15 09:45	18° × '37'31	-4.8m		8614 Jul 02 17:56 8614 Jul 26 22:54	0° Ω 0° m	
asc. node		18°×'3/'43				0∘ ರ್	
marning may al	8612 Feb 02 03:55 8612 Feb 22 08:56	0°る 18° る 17'30	16026157		8614 Aug 20 09:33	0° M	
morning max el	8612 Mar 04 16:38	0°≈	40 20 37		8614 Sep 14 04:16 8614 Oct 09 11:24	0°11℃ 0° √ 7	
	8612 Mar 31 12:49	0 ≈ 0° ∺		desc. node	8614 Oct 21 21:28	14° ∡ ¹24'38	
	8612 Apr 25 21:51	0°Υ		desc. Hode	8614 Nov 04 14:33	0°る	
desc. node	8612 May 06 04:01	12° Υ 23'19			8614 Dec 02 07:10	0°≈	
dese. Hode	8612 May 20 14:48	0° 8		evening max el	8614 Dec 14 16:38	0 ~ 12° ≈ 25'09	46°02'53
	8612 Jun 14 00:00	0°II		evening max er	8615 Jan 03 17:33	0° ∀	10 02 33
	8612 Jul 08 06:19	0°ಅ		greatest brilliancy	8615 Jan 23 03:29	11°) 18'13	-4.8m
	8612 Aug 01 12:29	$0^{\circ}\Omega$		retrograde	8615 Feb 01 23:23	13° ¥ 04'53	1.0111
	8612 Aug 25 19:24	0° mp		asc. node	8615 Feb 11 21:20	11°) (05'48	
morning set	8612 Aug 26 06:56	0°m/35'36		evening set	8615 Feb 16 10:32	8° ¥ 57'36	
asc. node	8612 Aug 27 01:10	1° mp 31'53		inferior conj	8615 Feb 22 16:59	5°) 16'15	2°44'03
	8612 Sep 19 02:51	0∘ <u>v</u>		minimum elong	8615 Feb 22 10:54	5° ¥ 25'37	2°42'17
	•			min. Earth dist.	8615 Feb 22 20:46	5° ℋ 10'25	0.27234 AU
superior conj	8612 Oct 02 14:54	16° ≏ 39'29	1°13'41	morning rise	8615 Feb 28 10:58	1° ∀ 51'31	
minimum elong	8612 Oct 02 06:29	16° ₽ 13'32	1°13'31		8615 Mar 04 03:52	30° R ≈	
max. Earth dist.	8612 Oct 03 03:57	17° ≙ 19'43	1.73242 AU	direct	8615 Mar 15 13:36	27° ≈ 22'06	
	8612 Oct 13 10:35	0°M₊		greatest brilliancy	8615 Mar 25 20:38	29° ≈ 22'30	-4.9m
	8612 Nov 06 18:59	0°⊀			8615 Mar 27 10:26	0° ∀	
evening rise	8612 Nov 08 01:02	1° х 32′26			8615 May 04 18:53	0 ° Υ	
	8612 Dec 01 04:47	0°ಕ		morning max el	8615 May 05 02:54	0° Y 20′11	46°59'10
desc. node	8612 Dec 16 18:44	19° る 06'08			8615 Jun 01 15:00	0°8	
	8612 Dec 25 16:21	0° ≈		desc. node	8615 Jun 03 16:09	2° 8 19'18	
	8613 Jan 19 05:34	0° ∀			8615 Jun 27 12:10	$\Pi^{\circ}0$	
	8613 Feb 12 20:53	0° Υ			8615 Jul 22 15:41	0°50	
	8613 Mar 09 17:18	0°B			8615 Aug 16 11:55	$0^{\circ}\Omega$	
	8613 Apr 04 02:54	Π °0			8615 Sep 10 04:37	0°Щ	
asc. node	8613 Apr 08 17:54	5° Ⅱ 20'09		asc. node	8615 Sep 24 13:38	17° m 31'44	
	8613 Apr 30 21:35	0°9			8615 Oct 04 18:32	0∘ 亚	
evening max el	8613 May 11 11:09	10°959'11	46°53'28		8615 Oct 29 05:36	0°M	
amonto-t le-ill'	8613 Jun 01 06:16	0° Ω	4.0m-	morning set	8615 Nov 04 05:06	7°M21'09	
greatest brilliancy	8613 Jun 20 07:28	11° Ω 38'38	-4.9m	may Forth 1:-4	8615 Nov 22 14:13	0°×7 20°×744123	1 72022 411
retrograde	8613 Jun 30 22:05 8613 Jul 15 23:29	13° Ω 45'30 9° Ω 17'37		max. Earth dist.	8615 Dec 09 09:21	20° ≯ 44′23	1.73033 AU
evening set inferior conj	8613 Jul 15 23:29 8613 Jul 21 22:42	9° 8ℓ 1/3/ 5° Ω 44'47	1°54'34	superior conj	8615 Dec 10 19:13	22° ∡ '28'59	1°10'58
minimum elong	8613 Jul 21 22:42 8613 Jul 22 03:00	5° Ω 38'08	1°53'03	minimum elong	8615 Dec 10 19:13 8615 Dec 11 04:15	22° x '28'39	1°10'58 1°10'55
min. Earth dist.	8613 Jul 21 15:51	5° Ω 55'20	0.27618 AU	mmmum ciong	8615 Dec 16 21:11	22 x・3633	1 10 33
morning rise	8613 Jul 28 07:01	2° Ω 00'27	0.27010 AU		8616 Jan 10 03:05	0°≈	
desc. node	8613 Jul 29 13:18	1° Ω 21'06		desc. node	8616 Jan 14 06:37	5°≈08'12	
	8613 Aug 01 12:18	30°Rூ		evening rise	8616 Jan 17 17:40	9°≈25'27	
direct	8613 Aug 11 20:33	27°951'16			8616 Feb 03 07:56	0° ∺	
		51.10					

		••				_	
	8616 Feb 27 11:41	0 ° Υ		asc. node	8618 Oct 22 02:00	4° ჲ 01'44	
	8616 Mar 22 15:17	$_{0\circ}$ 8			8618 Nov 12 15:18	0°M₊	
	8616 Apr 15 21:17	Π $^{\circ}0$			8618 Dec 07 05:47	0° ∡ 7	
asc. node	8616 May 06 05:25	24° Ⅲ 54′24			8618 Dec 31 14:44	5°0	
	8616 May 10 10:10	0∘ ©		morning set	8619 Jan 12 05:08	14° る 20'58	
	8616 Jun 04 13:05	0°N		8	8619 Jan 24 19:53	0° ≈	
	8616 Jun 30 20:12	0° m)		desc. node	8619 Feb 10 18:49	21° ≈ 05'43	
avanina may al	8616 Jul 21 20:08	22° Mp 02'40	46011127	max. Earth dist.	8619 Feb 16 22:08	28°≈45'02	1.71926 AU
evening max el			40 11 37	max. Earm dist.			1./1920 AU
	8616 Jul 30 04:08	0∘ ⊽			8619 Feb 17 22:10	0° ∀	
desc. node	8616 Aug 26 00:50	19° ≏ 41'45					
greatest brilliancy	8616 Aug 29 09:48	21° ≏ 08'33	-4.8m	superior conj	8619 Feb 20 02:03	2° ∺ 41'57	
retrograde	8616 Sep 09 09:31	23° ഫ 20'00		minimum elong	8619 Feb 19 20:39	2°) €25'06	0°22'01
evening set	8616 Sep 26 02:07	17° ≏ 59'46			8619 Mar 13 22:00	0 ° Υ	
inferior conj	8616 Sep 30 21:30	15° ഫ 02'28	-7°17'55	evening rise	8619 Mar 31 22:52	22° Y 36'51	
minimum elong	8616 Sep 30 12:22	15° £ 16'50	7°16'26	•	8619 Apr 06 20:10	0°8	
min. Earth dist.	8616 Sep 30 07:08	15° ≙ 25'03	0.28937 AU		8619 Apr 30 18:22	0° I I	
morning rise	8616 Oct 04 22:53	12° £ 32'27	0.20,5,110		8619 May 24 19:07	0.ee	
direct	8616 Oct 22 09:05	6° £ 50'43		asc. node	8619 Jun 03 16:56	12° © 17'48	
			4.7	asc. node			
greatest brilliancy	8616 Nov 01 05:51	8° £ 36'33	-4./m		8619 Jun 18 01:15	0° N	
	8616 Dec 02 20:29	0°M			8619 Jul 12 16:07	0° m)	
morning max el	8616 Dec 10 05:17	6°M53'56	45°45'46		8619 Aug 06 21:03	0∘ ⊽	
asc. node	8616 Dec 17 00:07	13°M36'45			8619 Sep 02 03:33	0°M₊	
	8617 Jan 01 13:53	0° ∡ ¹		desc. node	8619 Sep 23 12:10	22° M 44'17	
	8617 Jan 28 02:52	0°ප			8619 Sep 30 20:12	0° ∡ ¹	
	8617 Feb 22 09:45	0° ≈		evening max el	8619 Oct 01 12:41	0° ∡ ³39'42	45°42'29
	8617 Mar 19 01:17	0°) €		greatest brilliancy	8619 Nov 09 16:23	28° ₹ 52'32	
desc. node	8617 Apr 07 17:35	24°) 17'23		greatest offinancy	8619 Nov 13 19:58	0°る	1.7111
desc. Hode	•	0° Υ		ratra arada		0°る34'09	
	8617 Apr 12 08:00			retrograde	8619 Nov 19 07:55		
	8617 May 06 09:34	0° 8			8619 Nov 24 16:19	30°Ŗ ⋌ 7	
	8617 May 30 08:46	$\Pi^{\circ}0$		evening set	8619 Dec 06 14:23	24° ≯ 56'13	
morning set	8617 Jun 13 03:33	17° Ⅱ 15'35		inferior conj	8619 Dec 10 16:42	22° ∡ ¹25'34	-7°12'51
	8617 Jun 23 08:00	0ං වෙ		minimum elong	8619 Dec 11 02:07	22° ∡ 10′50	7°11'05
	8617 Jul 17 08:59	$0^{\circ}\Omega$		min. Earth dist.	8619 Dec 11 10:35	21° ≯ 57'38	0.28727 AU
				morning rise	8619 Dec 15 13:30	19° ∡ ¹26'58	
superior conj	8617 Jul 22 07:58	6° Ω 10′10	-0°17'36	direct	8620 Jan 01 02:14	14° ∡ °09′28	
minimum elong	8617 Jul 22 12:09	6° Ω 23'09	0°17'35	greatest brilliancy	8620 Jan 12 05:53	16° ∡ ¹26'11	-4.8m
max. Earth dist.	8617 Jul 25 14:42		1.72287 AU	asc. node	8620 Jan 14 11:45	17° ∡ 22'53	
asc. node	8617 Jul 29 14:53	15° Ω 13'45	1.72207 110	use. Houe	8620 Feb 02 13:46	0°る	
asc. node		0°M)		morning max el			46025110
	8617 Aug 10 12:30	0-110		morning max ei		1 (0 - 0 / 1 / 1 / 5	
evening rise	0617 4 00 10 11	-			8620 Feb 20 01:16		46°25'18
	8617 Aug 29 10:11	23°m/23'10			8620 Mar 04 10:44	0° ≈	40°2318
	8617 Sep 03 18:46	23°₩23'10 0°Ω			8620 Mar 04 10:44 8620 Mar 31 03:15	0° ≈ 0° ∀	40°23 18
	•	23°m/23'10			8620 Mar 04 10:44	0° ≈	40.23.18
	8617 Sep 03 18:46	23°₩23'10 0°Ω		desc. node	8620 Mar 04 10:44 8620 Mar 31 03:15	0° ≈ 0° ∀	40-23 18
	8617 Sep 03 18:46 8617 Sep 28 04:16	23° M 23'10 0° <u>a</u> 0° M.		·	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42	0° ≈ 0° ∀ 0° Υ	40 23 18
desc. node	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11	23° m 23'10 0° Ω 0° m 0° ⊀		·	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58	0°≈ 0°¥ 0°Υ 11°Υ51'28	40.23.18
desc. node	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57	23°版23'10 0°亞 0°肌 0°ズ 0°궁		·	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48	0°≈ 0°ℋ 0°Ƴ 11°Ƴ51'28 0°℧	40.23.18
desc. node	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59	23°順23'10 0°亞 0°肌 0°ポ 0°उ 2°उ08'20 0°≈		·	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28	0°≈ 0°¥ 0°Y 11°Y51'28 0°B 0°I 0°©	40.23.18
desc. node	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36	23°順23'10 0°亞 0°肌 0°ポ 0°ጜ 2°ጜ08'20 0°≈ 0°光		desc. node	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19	0°≈ 0°¥ 0°Y 11°Y51'28 0°B 0°I 0°©	40.23.18
	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06	23° m 23'10 0° Ω 0° M 0° ♂ 0° ♂ 2° ♂ 08'20 0° ≈ 0° 升 0° Υ	46°47'26	·	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 23 22:58	0°≈ 0° π 0° γ 11° γ 51'28 0° π 0° π 0° Ω 28° Ω 24'05	40.23.18
desc. node	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Feb 25 06:46	23°版23'10 0°亞 0°肌 0°ズ 0°式 2°式08'20 0°※ 0°升 0°Y 24°Y53'42	46°47'26	desc. node	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 23 22:58 8620 Aug 25 06:02	0°≈ 0° H 0° Υ 11° Υ 51'28 0° B 0° Π 0° Ω 28° Ω 24'05 0° Μ	40.23.18
evening max el	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Feb 25 06:46 8618 Mar 02 11:23	23°版23'10 0°亞 0°肌 0°ズ 0°궁 2°♂508'20 0°※ 0°升 0°Y 24°Y53'42 0°엉	46°47'26	desc. node	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 23 22:58 8620 Aug 25 06:02 8620 Aug 26 03:13	0°≈ 0° π 0° γ 11° γ 51'28 0° π 0° Ω 28° Ω 24'05 0° π 1° π 05'24	40.23.18
evening max el	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Feb 25 06:46 8618 Mar 02 11:23 8618 Mar 11 08:42	23°™23'10 0°™ 0°™ 0°™ 0°™ 0°™ 2°™308'20 0°≈ 0°भ 0°Y 24°Y53'42 0°႘ 8°႘12'48		desc. node	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 23 22:58 8620 Aug 25 06:02	0°≈ 0° H 0° Υ 11° Υ 51'28 0° B 0° Π 0° Ω 28° Ω 24'05 0° Μ	40.23.18
evening max el asc. node greatest brilliancy	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Feb 25 06:46 8618 Mar 02 11:23 8618 Mar 11 08:42 8618 Apr 06 22:49	23°順23'10 0°亞 0°肌 0°水 0°중 2°중08'20 0°※ 0°升 0°Y 24°Y53'42 0°엉 8°엉12'48 25°엉48'23		desc. node morning set asc. node	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 23 22:58 8620 Aug 25 06:02 8620 Aug 26 03:13 8620 Sep 18 13:20	0°≈ 0°¥ 0°Y 11°Y51'28 0°B 0°B 0°B 0°B 28°B24'05 0°M 1°M05'24 0°•	
evening max el asc. node greatest brilliancy retrograde	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Feb 25 06:46 8618 Mar 02 11:23 8618 Mar 11 08:42 8618 Apr 06 22:49 8618 Apr 16 15:40	23°順23'10 0°亞 0°肌 0°ポ 0°ጜ 2°ጜ08'20 0°≈ 0°升 0°Y 24°Y53'42 0°୪ 8°엉12'48 25°엉48'23 27°엉35'31		desc. node	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 23 22:58 8620 Aug 25 06:02 8620 Aug 26 03:13 8620 Sep 18 13:20	0°≈ 0°¥ 0°Y 11°Y51'28 0°B 0°B 0°B 28°B24'05 0°M 1°M05'24 0°• 14°•33'15	1°11'57
evening max el asc. node greatest brilliancy	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Feb 25 06:46 8618 Mar 02 11:23 8618 Mar 11 08:42 8618 Apr 06 22:49	23°順23'10 0°亞 0°肌 0°水 0°중 2°중08'20 0°※ 0°升 0°Y 24°Y53'42 0°엉 8°엉12'48 25°엉48'23		desc. node morning set asc. node	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 23 22:58 8620 Aug 25 06:02 8620 Aug 26 03:13 8620 Sep 18 13:20	0°≈ 0°¥ 0°Y 11°Y51'28 0°B 0°B 0°B 28°B24'05 0°M 1°M05'24 0°• 14°•33'15	
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evening max el asc. node greatest brilliancy retrograde evening set	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Feb 25 06:46 8618 Mar 02 11:23 8618 Mar 11 08:42 8618 Apr 06 22:49 8618 Apr 16 15:40 8618 May 04 21:07	23°順23'10 0°亞 0°肌 0°ポ 0°ጜ 2°ጜ08'20 0°ଛ 0°升 0°分 24°Ƴ53'42 0°엉 8°엉12'48 25°엉48'23 27°엉35'31 21°엉17'17	-4.9m 9°12'28	desc. node morning set asc. node superior conj minimum elong	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 23 22:58 8620 Aug 25 06:02 8620 Aug 26 03:13 8620 Sep 18 13:20 8620 Sep 30 08:25 8620 Sep 29 23:41	0°≈ 0°∀ 0°∀ 11°Y51'28 0°∀ 0°I 0°S 0°I 28°I24'05 0°I 1°ID05'24 0°S 14°S33'15 14°S33'15	1°11'57 1°11'45
evening max el asc. node greatest brilliancy retrograde evening set inferior conj	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Feb 25 06:46 8618 Mar 02 11:23 8618 Mar 11 08:42 8618 Apr 06 22:49 8618 Apr 16 15:40 8618 May 04 21:07 8618 May 07 08:06	23°m23'10 0°亞 0°M 0°ボ 0°ጜ 0°ጜ 2°ጜ08'20 0°≈ 0°ዣ 24°Y53'42 0°엉 8°엉12'48 25°엉48'23 27°엉35'31 21°엉17'17 19°엉46'54 19°엉45'42	-4.9m 9°12'28	desc. node morning set asc. node superior conj minimum elong	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 23 22:58 8620 Aug 25 06:02 8620 Aug 26 03:13 8620 Sep 18 13:20 8620 Sep 30 08:25 8620 Sep 29 23:41 8620 Oct 01 00:32	0°≈ 0°∀ 0°∀ 11°Y51'28 0°∀ 0°Ⅱ 0°∞ 0°Ω 28°Ω24'05 0°™ 1°™05'24 0°• 14°• 14°• 14°• 14°• 15°• 15°• 15°• 15°• 15°• 15°• 15°• 15	1°11'57 1°11'45
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Feb 25 06:46 8618 Mar 02 11:23 8618 Mar 11 08:42 8618 Apr 06 22:49 8618 Apr 16 15:40 8618 May 04 21:07 8618 May 07 08:06 8618 May 07 08:53	23°m23'10 0°亞 0°M 0°ボ 0°ጜ 0°ጜ 2°ጜ08'20 0°≈ 0°ዣ 24°Y53'42 0°엉 8°엉12'48 25°엉48'23 27°엉35'31 21°엉17'17 19°엉46'54 19°엉45'42	-4.9m 9°12'28 9°12'19	desc. node morning set asc. node superior conj minimum elong max. Earth dist.	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 23 22:58 8620 Aug 25 06:02 8620 Aug 26 03:13 8620 Sep 18 13:20 8620 Sep 30 08:25 8620 Sep 29 23:41 8620 Oct 01 00:32 8620 Oct 12 21:00	0°≈ 0° \(\) 0° \(\) 0° \(\) 10° \(\) 11° \(\) 0° \(\) 0° \(\) 0° \(\) 28° \(\) 28° \(\) 24'05 0° \(\) 1° \(\) 0° \(\) 1° \(\) 1° \(\) 1° \(\) 24 \(\) 0° \(\) 14° \(\) 23'15 14° \(\) 206'20 15° \(\) 22'59 0° \(\)	1°11'57 1°11'45
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Feb 25 06:46 8618 Mar 02 11:23 8618 Mar 11 08:42 8618 Apr 06 22:49 8618 Apr 16 15:40 8618 May 04 21:07 8618 May 07 08:06 8618 May 07 08:53 8618 May 07 07:00 8618 May 09 20:41	23° 版 23'10 0° 요 0° M 0° ズ 0° で 2° で 08'20 0° ※ 0° 光 0° Y 24° Y 53'42 0° と 8° と 12'48 25° と 48'23 27° と 35'31 21° と 17'17 19° と 46'54 19° と 48'37 18° と 14'05	-4.9m 9°12'28 9°12'19	desc. node morning set asc. node superior conj minimum elong max. Earth dist.	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 23 22:58 8620 Aug 25 06:02 8620 Aug 26 03:13 8620 Sep 18 13:20 8620 Sep 30 08:25 8620 Sep 29 23:41 8620 Oct 01 00:32 8620 Nov 05 18:38 8620 Nov 06 05:28	0°≈ 0° \(\) 0° \(\) 0° \(\) 10° \(\) 11° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 28° \(\) 22' \(\) 1° \(\) 1° \(\) 1° \(\) 1° \(\) 1° \(\) 1° \(\) 1° \(\) 1° \(\) 20' \(\) 15° \(\) 22' \(\) 0° \(\) 29° \(\) 29° \(\) 26' 40	1°11'57 1°11'45
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Feb 25 06:46 8618 Mar 02 11:23 8618 Mar 11 08:42 8618 Apr 06 22:49 8618 Apr 16 15:40 8618 May 07 08:06 8618 May 07 08:06 8618 May 07 07:00 8618 May 09 20:41 8618 May 27 23:06	23° m 23'10 0° <u>ค</u> 0° M 0° ズ 0° で 2° で 08'20 0° ※ 0° 光 0° Y 24° Y 53'42 0° と 8° と 12'48 25° と 48'23 27° と 35'31 21° と 17'17 19° と 46'54 19° と 48'37 18° と 14'05 11° と 59'30	-4.9m 9°12'28 9°12'19 0.27123 AU	desc. node morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 23 22:58 8620 Aug 25 06:02 8620 Aug 26 03:13 8620 Sep 18 13:20 8620 Sep 30 08:25 8620 Sep 29 23:41 8620 Oct 01 00:32 8620 Nov 05 18:38 8620 Nov 06 05:28 8620 Nov 30 15:28	0°≈ 0° X 0° Y 11° Y 51'28 0° B 0° II 0° © 0° A 28° A 24'05 0° M 1° M 05'24 0° Ω 14° Ω 33'15 14° Ω 06'20 15° Ω 22'59 0° II 29° II 26'40 0° ズ 0° T	1°11'57 1°11'45
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Feb 25 06:46 8618 Mar 02 11:23 8618 Mar 11 08:42 8618 Apr 06 22:49 8618 Apr 16 15:40 8618 May 07 08:06 8618 May 07 08:06 8618 May 07 07:00 8618 May 09 20:41 8618 May 27 23:06 8618 Jun 06 14:10	23° 版 23'10 0° 요 0° M 0° % 0° % 0° % 0° % 2° % 08'20 0° % 0° ¥ 0° ¥ 0° Y 24° Y 53'42 0° 8 8° 812'48 25° 848'23 27° 835'31 21° 817'17 19° 845'42 19° 848'37 18° 814'05 11° 859'30 13° 843'49	-4.9m 9°12'28 9°12'19 0.27123 AU	desc. node morning set asc. node superior conj minimum elong max. Earth dist.	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 23 22:58 8620 Aug 25 06:02 8620 Aug 25 06:02 8620 Sep 18 13:20 8620 Sep 30 08:25 8620 Sep 29 23:41 8620 Oct 01 00:32 8620 Nov 05 18:38 8620 Nov 06 05:28 8620 Nov 06 05:28 8620 Dec 15 20:39	0°≈ 0° H 0° Y 11° Y 51'28 0° B 0° II 0° © 0° II 0°	1°11'57 1°11'45
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Mar 02 11:23 8618 Mar 11 08:42 8618 Apr 06 22:49 8618 Apr 16 15:40 8618 May 07 08:06 8618 May 07 08:06 8618 May 07 08:06 8618 May 07 07:00 8618 May 09 20:41 8618 May 27 23:06 8618 Jun 06 14:10 8618 Jul 01 03:43	23°m23'10 0° 으 0°M 0°ズ 0°で 2°で308'20 0°※ 0°Y 24°Y53'42 0°Y 24°Y53'42 27°V335'31 21°V17'17 19°V46'54 19°V48'37 18°V48'37 18°V48'37 18°V48'37 18°V48'37 18°V48'37 18°V48'37 18°V48'37 18°V48'37	-4.9m 9°12'28 9°12'19 0.27123 AU	desc. node morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 25 06:02 8620 Aug 25 06:02 8620 Aug 26 03:13 8620 Sep 18 13:20 8620 Sep 30 08:25 8620 Sep 29 23:41 8620 Oct 01 00:32 8620 Oct 12 21:00 8620 Nov 05 18:38 8620 Nov 06 05:28 8620 Dec 15 20:39 8620 Dec 25 03:22	0°≈ 0° H 0°Y 11°Y51'28 0°8 0° II 0°© 0° I 28° R24'05 0° II 1° II 05'24 0° I 1° II 06'20 15° II 22'59 0° II 29° II 26'40 0° II 18° II 38'43 0°≈	1°11'57 1°11'45
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Mar 02 11:23 8618 Mar 11 08:42 8618 Apr 06 22:49 8618 Apr 16 15:40 8618 May 07 08:06 8618 May 07 08:06 8618 May 07 08:06 8618 May 07 07:00 8618 May 09 20:41 8618 May 27 23:06 8618 Jun 06 14:10 8618 Jul 01 03:43 8618 Jul 01 20:30	23°m23'10 0°亞 0°M 0°% 0°% 0°% 0°% 2°%08'20 0°% 0°% 24°Y53'42 0°% 8°812'48 25°848'23 27°835'31 21°817'17 19°846'54 19°845'42 19°848'37 18°814'05 11°859'30 13°843'49 29°824'14 0°¶	-4.9m 9°12'28 9°12'19 0.27123 AU -4.9m	desc. node morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 23 22:58 8620 Aug 25 06:02 8620 Aug 25 06:02 8620 Aug 26 03:13 8620 Sep 18 13:20 8620 Sep 30 08:25 8620 Sep 29 23:41 8620 Oct 01 00:32 8620 Oct 12 21:00 8620 Nov 05 18:38 8620 Nov 06 05:28 8620 Dec 15 20:39 8620 Dec 25 03:22 8621 Jan 18 17:02	0°≈ 0° H 0° Y 11° Y 51'28 0° B 0° II 0° © 0° II 0° © 0° II 0° © 1° II 0° © 1° II 0° © 1° II 0° © 1° II 0° II 1° I	1°11'57 1°11'45
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Feb 25 06:46 8618 Mar 02 11:23 8618 Mar 11 08:42 8618 Apr 06 22:49 8618 Apr 16 15:40 8618 May 07 08:06 8618 May 07 08:06 8618 May 07 08:06 8618 May 07 07:00 8618 May 07 07:00 8618 May 09 20:41 8618 May 27 23:06 8618 Jun 06 14:10 8618 Jul 01 03:43 8618 Jul 01 20:30 8618 Jul 01 20:30	23°m23'10 0°亞 0°M 0°ボ 0°ボ 0°ボ 0°ボ 0°ボ 2°♂08'20 0°級 0°份 8°份12'48 25°份48'23 27°份35'31 21°份17'17 19°份46'54 19°份45'42 19°份45'42 19°份48'37 18°份14'05 11°份59'30 13°份43'49 29°份24'14 0°川 14°川08'49	-4.9m 9°12'28 9°12'19 0.27123 AU -4.9m	desc. node morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 23 22:58 8620 Aug 25 06:02 8620 Aug 26 03:13 8620 Sep 18 13:20 8620 Sep 30 08:25 8620 Sep 29 23:41 8620 Oct 01 00:32 8620 Oct 12 21:00 8620 Nov 05 18:38 8620 Nov 06 05:28 8620 Nov 06 05:28 8620 Dec 15 20:39 8620 Dec 25 03:22 8621 Jan 18 17:02 8621 Feb 12 09:01	0°≈ 0°∀ 0°∀ 11°Y51'28 0°∀ 11°Y51'28 0°∀ 0°Л 0°№ 0°Л 28°Л24'05 0°№ 1°№05'24 0°• 14°• 233'15 14°• 206'20 15°• 222'59 0°М 29°М26'40 0° 7 0° 18° 338'43 0°≈ 0° 16° 0° 16° 0° 16° 16° 16° 16° 16° 16° 16° 16° 16° 16	1°11'57 1°11'45
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Feb 25 06:46 8618 Mar 02 11:23 8618 Mar 11 08:42 8618 Apr 06 22:49 8618 Apr 16 15:40 8618 May 07 08:06 8618 May 07 08:06 8618 May 07 08:06 8618 May 07 07:00 8618 May 07 07:00 8618 May 07 07:00 8618 Jul 01 03:43 8618 Jul 01 20:30 8618 Jul 01 20:30 8618 Jul 01 09:37	23°m23'10 0° の 0° M 0° が 0° が 2° で308'20 0° が 24° か53'42 0° と 8° と12'48 25° と48'23 27° と35'31 21° と17'17 19° と46'54 19° と45'42 19° と48'37 18° と14'05 11° と59'30 13° と43'49 29° と24'14 0° 川 14° 川 08'49 0° の	-4.9m 9°12'28 9°12'19 0.27123 AU -4.9m	desc. node morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 23 22:58 8620 Aug 25 06:02 8620 Aug 26 03:13 8620 Sep 18 13:20 8620 Sep 30 08:25 8620 Sep 29 23:41 8620 Oct 01 00:32 8620 Oct 12 21:00 8620 Nov 05 18:38 8620 Nov 06 05:28 8620 Dec 15 20:39 8620 Dec 25 03:22 8621 Jan 18 17:02 8621 Mar 09 06:26	0°≈ 0°∀ 0°∀ 0°∀ 11°Y51'28 0°℧ 0°Л 0°№ 0°Л 28°Л24'05 0°™ 1°™05'24 0°• 14°• 233'15 14°• 206'20 15°• 222'59 0°™ 29°™26'40 0°⊀ 0°♂ 18°♂38'43 0°≈ 0°∀ 0°℃	1°11'57 1°11'45
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Feb 25 06:46 8618 Mar 02 11:23 8618 Mar 11 08:42 8618 Apr 06 22:49 8618 Apr 16 15:40 8618 May 04 21:07 8618 May 07 08:06 8618 May 07 08:06 8618 May 07 07:00 8618 May 07 07:00 8618 May 09 20:41 8618 May 27 23:06 8618 Jun 06 14:10 8618 Jul 01 03:43 8618 Jul 01 20:30 8618 Jul 01 20:30 8618 Aug 01 09:37 8618 Aug 28 11:01	23°順23'10 0°亞 0°爪 0°ボ 0°ボ 0°ボ 0°ボ 0°ボ 0°ボ 0°ዅ 0°ዅ 24°Y53'42 0°份 8°Ы12'48 25°႘48'23 27°႘35'31 21°႘17'17 19°႘46'54 19°႘45'42 19°႘48'37 18°႘14'05 11°႘59'30 13°႘43'49 29°႘24'14 0°爪 14°爪08'49 0°汆	-4.9m 9°12'28 9°12'19 0.27123 AU -4.9m	desc. node morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 25 06:02 8620 Aug 25 06:02 8620 Aug 26 03:13 8620 Sep 18 13:20 8620 Sep 30 08:25 8620 Sep 29 23:41 8620 Oct 01 00:32 8620 Oct 12 21:00 8620 Nov 05 18:38 8620 Nov 06 05:28 8620 Dec 15 20:39 8620 Dec 25 03:22 8621 Jan 18 17:02 8621 Mar 09 06:26 8621 Apr 03 17:52	0°≈ 0°∀ 0°∀ 11°Y51'28 0°∀ 0°П 0°© 0°Л 28°Л24'05 0°™ 1°™05'24 0°Ω 14°Ω33'15 14°Ω06'20 15°Ω22'59 0°™ 29°™26'40 0°ズ 0°ጜ 18°ጜ38'43 0°≈ 0°升 0°℃ 0°℃	1°11'57 1°11'45
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Feb 25 06:46 8618 Mar 02 11:23 8618 Mar 11 08:42 8618 Apr 06 22:49 8618 Apr 16 15:40 8618 May 07 08:06 8618 May 07 08:06 8618 May 07 08:06 8618 May 07 07:00 8618 May 07 07:00 8618 May 07 07:00 8618 Jul 01 03:43 8618 Jul 01 20:30 8618 Jul 01 20:30 8618 Jul 01 09:37	23°m23'10 0° の 0° M 0° が 0° が 2° で308'20 0° が 24° か53'42 0° と 8° と12'48 25° と48'23 27° と35'31 21° と17'17 19° と46'54 19° と45'42 19° と48'37 18° と14'05 11° と59'30 13° と43'49 29° と24'14 0° 川 14° 川 08'49 0° の	-4.9m 9°12'28 9°12'19 0.27123 AU -4.9m	desc. node morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 23 22:58 8620 Aug 25 06:02 8620 Aug 26 03:13 8620 Sep 18 13:20 8620 Sep 30 08:25 8620 Sep 29 23:41 8620 Oct 01 00:32 8620 Oct 12 21:00 8620 Nov 05 18:38 8620 Nov 06 05:28 8620 Dec 15 20:39 8620 Dec 25 03:22 8621 Jan 18 17:02 8621 Mar 09 06:26	0°≈ 0°∀ 0°∀ 0°∀ 11°Y51'28 0°℧ 0°Л 0°№ 0°Л 28°Л24'05 0°™ 1°™05'24 0°• 14°• 233'15 14°• 206'20 15°• 222'59 0°™ 29°™26'40 0°⊀ 0°♂ 18°♂38'43 0°≈ 0°∀ 0°℃	1°11'57 1°11'45
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8617 Sep 03 18:46 8617 Sep 28 04:16 8617 Oct 22 18:11 8617 Nov 16 14:10 8617 Nov 18 08:57 8617 Dec 11 17:59 8618 Jan 06 08:36 8618 Feb 01 19:06 8618 Feb 25 06:46 8618 Mar 02 11:23 8618 Mar 11 08:42 8618 Apr 06 22:49 8618 Apr 16 15:40 8618 May 04 21:07 8618 May 07 08:06 8618 May 07 08:06 8618 May 07 07:00 8618 May 07 07:00 8618 May 09 20:41 8618 May 27 23:06 8618 Jun 06 14:10 8618 Jul 01 03:43 8618 Jul 01 20:30 8618 Jul 01 20:30 8618 Aug 01 09:37 8618 Aug 28 11:01	23°順23'10 0°亞 0°爪 0°ボ 0°ボ 0°ボ 0°ボ 0°ボ 0°ボ 0°ዅ 0°ዅ 24°Y53'42 0°份 8°Ы12'48 25°႘48'23 27°႘35'31 21°႘17'17 19°႘46'54 19°႘45'42 19°႘48'37 18°႘14'05 11°႘59'30 13°႘43'49 29°႘24'14 0°爪 14°爪08'49 0°汆	-4.9m 9°12'28 9°12'19 0.27123 AU -4.9m	desc. node morning set asc. node superior conj minimum elong max. Earth dist. evening rise desc. node	8620 Mar 04 10:44 8620 Mar 31 03:15 8620 Apr 25 10:42 8620 May 05 05:58 8620 May 20 02:48 8620 Jun 13 11:28 8620 Jul 07 17:25 8620 Jul 31 23:19 8620 Aug 25 06:02 8620 Aug 25 06:02 8620 Aug 26 03:13 8620 Sep 18 13:20 8620 Sep 30 08:25 8620 Sep 29 23:41 8620 Oct 01 00:32 8620 Oct 12 21:00 8620 Nov 05 18:38 8620 Nov 06 05:28 8620 Dec 15 20:39 8620 Dec 25 03:22 8621 Jan 18 17:02 8621 Mar 09 06:26 8621 Apr 03 17:52	0°≈ 0°∀ 0°∀ 11°Y51'28 0°∀ 0°П 0°© 0°Л 28°Л24'05 0°™ 1°™05'24 0°Ω 14°Ω33'15 14°Ω06'20 15°Ω22'59 0°™ 29°™26'40 0°ズ 0°ጜ 18°ጜ38'43 0°≈ 0°升 0°℃ 0°℃	1°11'57 1°11'45

evening max el	8621 May 09 02:09	8° 5 40'28	46°54'25		8623 Oct 28 16:23	0°M	
evening max er	8621 Jun 01 21:17	0°Ω	40 34 23	morning set	8623 Nov 01 22:25	5°M13'46	
greatest brilliancy	8621 Jun 17 22:22	9° Ω 19'22	-4.9m	morning sec	8623 Nov 22 00:54	0° ₹	
retrograde	8621 Jun 28 13:12	11° Ω 26′05		max. Earth dist.	8623 Dec 07 01:49	18° ∡ °34′00	1.73054 AU
evening set	8621 Jul 13 15:31	6° Ω 55'56					
inferior conj	8621 Jul 19 12:43	3° Ω 25'45	2°16'49	superior conj	8623 Dec 08 12:12	20° х 20′12	1°12'47
minimum elong	8621 Jul 19 17:50	3° Ω 17'52		minimum elong	8623 Dec 08 20:55	20° х 47′08	1°12'46
min. Earth dist.	8621 Jul 19 06:17	3° Ω 35'41	0.27583 AU		8623 Dec 16 07:52	0°ප	
	8621 Jul 25 07:37	30° ₹ 5			8624 Jan 09 13:50	0° ≈	
morning rise	8621 Jul 25 20:44	29°542'16		desc. node	8624 Jan 13 08:40	4°≈41'06	
desc. node direct	8621 Jul 28 15:23 8621 Aug 09 10:47	28° © 19'26 25° © 32'46		evening rise	8624 Jan 15 08:50 8624 Feb 02 18:51	7°≈10'16 0°) €	
greatest brilliancy	8621 Aug 19 06:25	23 3 3240 27° 5 19'11	-4 8m		8624 Feb 26 22:52	0°Υ	
greatest orimaney	8621 Aug 25 11:22	0°Ω	4.0111		8624 Mar 22 02:48	%8 0°8	
morning max el	8621 Sep 27 12:34	25° Ω 50'43	45°51'42		8624 Apr 15 09:17	0°II	
	8621 Oct 01 19:02	0° m/		asc. node	8624 May 05 07:15	24° Ⅱ 21'49	
	8621 Oct 30 06:45	0∘ ⊽			8624 May 09 22:54	0 \circ \odot	
asc. node	8621 Nov 18 14:10	21° ≏ 46'58			8624 Jun 04 03:08	$0^{\circ}\Omega$	
	8621 Nov 25 16:51	0° M			8624 Jun 30 13:09	0° ™	
	8621 Dec 21 02:30	0°⊀		evening max el	8624 Jul 19 10:44	19° m 45'41	46°13'10
	8622 Jan 14 21:40	0°ಕ			8624 Jul 30 06:49	0∘ ⊽	
	8622 Feb 08 07:51	0° ≈		desc. node	8624 Aug 25 02:53	18° ≏ 08'49	
	8622 Mar 04 12:09	0°) (13/22		greatest brilliancy	8624 Aug 27 02:07	18° Ω 57'17	-4.8m
desc. node	8622 Mar 10 07:10	7° ★ 13'22 27° ★ 40'51		retrograde	8624 Sep 07 01:11 8624 Sep 23 14:59	21° Ω 08'35	
morning set	8622 Mar 26 15:52 8622 Mar 28 12:18	27 π 4031		evening set min. Earth dist.	8624 Sep 27 22:51	15° Ω 53'17	0.28899 AU
	8622 Apr 21 09:45	0°8		inferior conj	8624 Sep 28 13:30	13 ⊆ 14 34 12° ⊆ 51'32	
	0022 Apr 21 07.43	0		minimum elong	8624 Sep 28 04:03	13° ⊆ 06'24	
superior conj	8622 May 06 10:28	18° 8 53'59	-1°27'44	morning rise	8624 Oct 02 17:22	10° ⊆ 17'41	, 00 22
minimum elong	8622 May 06 10:55	18° 8 55'22		direct	8624 Oct 20 00:15	4° ≏ 40'21	
max. Earth dist.	8622 May 07 04:19	19° 8 50'06	1.71242 AU	greatest brilliancy	8624 Oct 29 21:12	6° £ 25'46	-4.7m
	8622 May 15 06:19	$\Pi^{\circ}0$			8624 Dec 02 21:37	0° M	
	8622 Jun 08 04:05	0 \circ		morning max el	8624 Dec 07 19:20	4°M38'17	45°45'10
evening rise	8622 Jun 15 22:33	9° 5 43'22		asc. node	8624 Dec 16 02:08	12°M51'58	
asc. node	8622 Jul 01 04:48	28°9545'18			8625 Jan 01 06:13	0° ∡ 7	
	8622 Jul 02 04:49	$\Omega^{\circ}\Omega$			8625 Jan 27 16:30	% ප	
	8622 Jul 26 09:55	0 ் ம 0° மி			8625 Feb 21 22:10	0° ₩	
	8622 Aug 19 20:50 8622 Sep 13 16:05	0° 11		desc. node	8625 Mar 18 13:04 8625 Apr 06 19:32	0° X 23° ¥ 47'46	
	8622 Oct 09 00:10	0° 17⊓ 0° 27⊓		desc. node	8625 Apr 11 19:26	23 γ (4/40)	
desc. node	8622 Oct 20 23:23	13° х 51'34			8625 May 05 20:48	%8 0°8	
	8622 Nov 04 05:10	0°ප			8625 May 29 19:51	0°II	
	8622 Dec 02 02:19	0° ≈		morning set	8625 Jun 10 16:01	14° Ⅱ 49'54	
evening max el	8622 Dec 12 07:30	10° ≈ 10′08	46°01'29	-	8625 Jun 22 18:59	0 \circ \odot	
	8623 Jan 04 10:19	0° ∀			8625 Jul 16 19:54	0 ° Ω	
greatest brilliancy	8623 Jan 20 17:32	8° ¥ 58'31	-4.8m				
retrograde	8623 Jan 30 12:26	10°) 43′58		superior conj	8625 Jul 19 21:58	3° Ω 50′27	
asc. node	8623 Feb 10 23:22	8°)(06'43		minimum elong	8625 Jul 20 02:57	4°Ω06'00	
evening set	8623 Feb 13 23:36	6°) € 37'44	2021125	max. Earth dist.	8625 Jul 23 03:32	7° Ω 51'45	1.72241 AU
inferior conj minimum elong	8623 Feb 20 06:41 8623 Feb 20 01:23	2° ¥ 55'14 3° ¥ 03'25		asc. node	8625 Jul 28 16:56 8625 Aug 09 23:24	14° Ω 46'18 0° m	
min. Earth dist.	8623 Feb 20 01:29	2° H 47'49	0.27264 AU	evening rise	8625 Aug 27 02:24	21°Mp11'24	
iiiii. Eartii dist.	8623 Feb 25 03:16	30°R≈	0.27204710	evening rise	8625 Sep 03 05:42	0° <u>م</u>	
morning rise	8623 Feb 26 02:47	29° ≈ 27'06			8625 Sep 27 15:20	0°M	
direct	8623 Mar 13 03:42	25° ≈ 00'38			8625 Oct 22 05:33	0° ∡ ¹	
greatest brilliancy	8623 Mar 23 11:48	27° ≈ 01'31	-4.9m		8625 Nov 16 02:04	ರ°0	
-	8623 Mar 29 21:13	0°) €		desc. node	8625 Nov 17 10:53	1° る 38'22	
morning max el	8623 May 02 16:11	27° ¥ 56′01	46°58'42		8625 Dec 11 06:45	0° ≈	
	8623 May 04 17:02	0° Υ			8626 Jan 05 22:52	0° ∺	
	8623 Jun 01 07:07	0°8			8626 Feb 01 12:20	0°Υ	
desc. node	8623 Jun 02 18:00	1° 8 39'21		evening max el	8626 Feb 22 19:19	22° Y 27'39	46°46'22
	8623 Jun 27 01:58	0° I I			8626 Mar 02 13:20	0°8	
	8623 Jul 22 04:16	$0 _{\circ}$ ೮		asc. node	8626 Mar 10 10:41	7° と 07'55 23° と 22'44	-4.9m
	8623 Aug 15 23:44 8623 Sep 09 15:54	0°a≀		greatest brilliancy retrograde	8626 Apr 04 11:57 8626 Apr 14 04:38	25° 8 10'08	-4 .7111
asc. node	8623 Sep 09 15:34 8623 Sep 23 15:34	0 mg/03'44		evening set	8626 May 02 09:18	18° 8 52'57	
250. Hode	8623 Oct 04 05:29	0° ⊽		inferior conj	8626 May 04 21:07	17° 8 21'30	9°12'49
	3023 300 01 03.27	~ -			50=0uj 0 1 21.0/	1, 02130	2 -2 12

minimum elong	8626 May 04 20:53	17° 8 21'52	0°12'40		8628 Nov 05 16:20	0° ∡ ¹	
min. Earth dist.	8626 May 04 19:41	17° 8 23'43	0.27120 AU		8628 Nov 30 02:32	0 ਨ ਹਿ	
	-	17 8 23 43	0.27120 AU	daga nada		0 3 18° 3 10'29	
morning rise	8626 May 07 08:30			desc. node	8628 Dec 14 22:39		
direct	8626 May 25 11:37	9° 8 33'45	4.0		8628 Dec 24 14:45	0° ≈	
greatest brilliancy	8626 Jun 04 03:18	11° 8 18'45	-4.9m		8629 Jan 18 04:53	0°) €	
desc. node	8626 Jun 30 05:50	28° 8 19'06			8629 Feb 11 21:32	0° Υ	
	8626 Jul 02 03:50	0°П			8629 Mar 08 20:00	0°B	
morning max el	8626 Jul 14 15:25	11° Ⅱ 46'47	46°37'16		8629 Apr 03 09:21	0°Щ	
	8626 Aug 01 04:00	0 \circ		asc. node	8629 Apr 06 21:48	4° Ⅱ 01'45	
	8626 Aug 28 01:44	$0^{\circ}\Omega$			8629 Apr 30 12:56	0 \circ \odot	
	8626 Sep 22 22:10	0° m y		evening max el	8629 May 06 17:41	6° ॐ 22'14	46°55'19
	8626 Oct 18 05:13	0∘ ⊽			8629 Jun 02 17:51	$0 {\circ} \Omega$	
asc. node	8626 Oct 21 03:53	3° ≙ 31'35		greatest brilliancy	8629 Jun 15 13:46	7° Ω 00′18	-4.9m
	8626 Nov 12 02:45	0° M		retrograde	8629 Jun 26 04:15	9° Ω 06′09	
	8626 Dec 06 16:55	0° ∡ ¹		evening set	8629 Jul 11 07:50	4° Ω 33'55	
	8626 Dec 31 01:43	0°₹		inferior conj	8629 Jul 17 02:51	1° Ω 06′27	2°38'52
morning set	8627 Jan 09 20:33	12° る 06'07		minimum elong	8629 Jul 17 08:44	0° Ω 57′23	2°36'53
-	8627 Jan 24 06:50	0° ≈		min. Earth dist.	8629 Jul 16 20:51	1° Ω 15'42	0.27546 AU
desc. node	8627 Feb 09 20:49	20° ≈ 37'47			8629 Jul 18 22:08	30° №	
max. Earth dist.	8627 Feb 14 13:25	26° ≈ 28'46	1.71967 AU	morning rise	8629 Jul 23 10:16	27° © 23'55	
	8627 Feb 17 09:08	0°) €		desc. node	8629 Jul 27 17:20	25°522'00	
	002/100 1/ 07.00	٠,٨		direct	8629 Aug 07 01:05	23° © 14'14	
superior conj	8627 Feb 17 14:53	0° ₩ 17'56	-0°18'44	greatest brilliancy	8629 Aug 16 19:32	24°959'53	-4.8m
minimum elong	8627 Feb 17 10:21	0° ∺ 03'47		greatest orimaney	8629 Aug 27 03:57	0°Ω	-4.0111
minimum clong	8627 Mar 13 09:02	0 γ (0347	0 18 23	morning max el	8629 Sep 25 03:27	23° Ω 36'17	45052120
		20° Υ '08'51		morning max er	•		43 32 39
evening rise	8627 Mar 29 10:44				8629 Oct 01 15:56	0° m)	
	8627 Apr 06 07:16	0° B		,	8629 Oct 29 22:02	0∘ 亚	
	8627 Apr 30 05:34	0°II		asc. node	8629 Nov 17 16:11	21° ≏ 13'39	
_	8627 May 24 06:31	0°©			8629 Nov 25 05:59	0° M ₊	
asc. node	8627 Jun 02 18:57	11°5548'26			8629 Dec 20 14:36	0° ∡	
	8627 Jun 17 12:59	0 ° Ω			8630 Jan 14 09:14	0°る	
	8627 Jul 12 04:26	0° m)			8630 Feb 07 19:07	0° ≈	
	8627 Aug 06 10:27	0∘ ⊽			8630 Mar 03 23:16	0° ∀	
	8627 Sep 01 19:18	0° M		desc. node	8630 Mar 09 09:01	6°) 44′28	
desc. node	8627 Sep 22 14:04	21°M58'47		morning set	8630 Mar 24 02:40	25° ∺ 09'50	
evening max el	8627 Sep 29 04:19	28° M 28′00	45°42'47		8630 Mar 27 23:20	0 ° Υ	
	8627 Sep 30 18:51	0° ∡ 7			8630 Apr 20 20:46	9° 8	
greatest brilliancy	8627 Nov 07 06:08	26° ∡ ³39′08	-4.7m				
retrograde	8627 Nov 16 23:45	28° ∡ ¹22'08		superior conj	9620 Mars 02 21-26	160 400155	-1°27'44
evening set				superior conj	8630 May 03 21:26	16° 8 22'55	1 2/ 11
	8627 Dec 04 08:34	22° ∡ ³39'40		minimum elong	8630 May 03 20:46	16° 8 22'55	
inferior conj	8627 Dec 04 08:34 8627 Dec 08 08:19	22° х 39'40 20° х 12'39	-7°23'41		•	_	
				minimum elong	8630 May 03 20:46	16° 8 20'49	1°27'52
inferior conj minimum elong min. Earth dist.	8627 Dec 08 08:19 8627 Dec 08 17:25	20° ∡ 12'39		minimum elong	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20	16° 8 20'49 17° 8 04'21 0°П	1°27'52
minimum elong min. Earth dist.	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10	20° ₹ 12'39 19° ₹ 58'26 19° ₹ 46'19	7°22'04	minimum elong max. Earth dist.	8630 May 03 20:46 8630 May 04 10:36	16° 8 20'49 17° 8 04'21	1°27'52
minimum elong min. Earth dist. morning rise	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59	20° 🖈 12'39 19° 🖈 58'26 19° 🖈 46'19 17° 🖈 18'45	7°22'04	minimum elong max. Earth dist.	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10	16° 8 20'49 17° 8 04'21 0°耳 0°⑤ 7°⑤15'12	1°27'52
minimum elong min. Earth dist. morning rise direct	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41	20° 🗷 12'39 19° 🗷 58'26 19° 🗷 46'19 17° 🗷 18'45 11° 🗷 56'11	7°22'04 0.28774 AU	minimum elong max. Earth dist.	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51	16°\20'49 17°\804'21 0°\II 0°\sigma 7°\sigma15'12 28°\sigma17'23	1°27'52
minimum elong min. Earth dist. morning rise direct greatest brilliancy	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58	20° 🖈 12'39 19° 🖈 58'26 19° 🖈 46'19 17° 🖈 18'45 11° 🖈 56'11 14° 🖈 12'00	7°22'04	minimum elong max. Earth dist.	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51	16° 8 20'49 17° 8 04'21 0° I 0° S 7° S 15'12 28° S 17'23 0° A	1°27'52
minimum elong min. Earth dist. morning rise direct	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Jan 13 13:50	20° \$\times^12'39 19° \$\times^18'26 19° \$\times^146'19 17° \$\times^18'45 11° \$\times^156'11 14° \$\times^12'00 15° \$\times^149'47	7°22'04 0.28774 AU	minimum elong max. Earth dist.	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03	16°820'49 17°804'21 0°Ⅲ 0°☞ 7°☞15'12 28°☞17'23 0°ℳ 0°♍	1°27'52
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Jan 13 13:50 8628 Feb 02 21:31	20° ₹ 12'39 19° ₹ 58'26 19° ₹ 46'19 17° ₹ 18'45 11° ₹ 56'11 14° ₹ 12'00 15° ₹ 49'47 0° ₹	7°22'04 0.28774 AU -4.8m	minimum elong max. Earth dist.	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13	16°820'49 17°804'21 0°Ⅲ 0°☞ 7°©15'12 28°©17'23 0°€ 0°™ 0°™	1°27'52
minimum elong min. Earth dist. morning rise direct greatest brilliancy	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Jan 13 13:50 8628 Feb 02 21:31 8628 Feb 17 17:40	20° 🖈 12'39 19° 🖈 58'26 19° 🖈 46'19 17° 🖈 18'45 11° 🖈 56'11 14° 🖈 12'00 15° 🖈 49'47 0° る 13° る51'06	7°22'04 0.28774 AU -4.8m	minimum elong max. Earth dist.	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13 8630 Sep 13 04:00	16°820'49 17°804'21 0° II 0° © 7° © 15'12 28° © 17'23 0° Ω 0° M 0° Ω 0° IL	1°27'52
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Jan 13 13:50 8628 Feb 02 21:31 8628 Feb 17 17:40 8628 Mar 04 04:49	20° ₹12'39 19° ₹58'26 19° ₹46'19 17° ₹18'45 11° ₹56'11 14° ₹12'00 15° ₹49'47 0° ₹551'06 0° ≈	7°22'04 0.28774 AU -4.8m	minimum elong max. Earth dist. evening rise asc. node	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13 8630 Sep 13 04:00 8630 Oct 08 13:06	16°820'49 17°804'21 0°II 0°S 7°S15'12 28°S17'23 0°Ω 0°ID 0°ID 0°IL 0°✓	1°27'52
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Jan 13 13:50 8628 Feb 02 21:31 8628 Feb 17 17:40 8628 Mar 04 04:49 8628 Mar 30 17:53	20° ₹12'39 19° ₹58'26 19° ₹46'19 17° ₹18'45 11° ₹56'11 14° ₹12'00 15° ₹49'47 0° ₹5 13° ₹551'06 0° ≈ 0° €	7°22'04 0.28774 AU -4.8m	minimum elong max. Earth dist.	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13 8630 Sep 13 04:00 8630 Oct 08 13:06 8630 Oct 20 01:19	16°820'49 17°804'21 0°II 0°© 7°©15'12 28°©17'23 0°Ω 0°ID 0°© 0°IL 0°✓ 13°✓ 17'55	1°27'52
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Jan 13 13:50 8628 Feb 02 21:31 8628 Feb 17 17:40 8628 Mar 04 04:49 8628 Mar 30 17:53 8628 Apr 24 23:48	20° ₹12'39 19° ₹46'19 17° ₹18'45 11° ₹56'11 14° ₹12'00 15° ₹49'47 0° ₹ 13° ₹551'06 0° ≈ 0° 升 0° ♀	7°22'04 0.28774 AU -4.8m	minimum elong max. Earth dist. evening rise asc. node	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13 8630 Sep 13 04:00 8630 Oct 08 13:06 8630 Oct 20 01:19 8630 Nov 03 20:10	16°820'49 17°804'21 0°II 0°S 7°S15'12 28°S17'23 0°Ω 0°IN 0°S 0°IN 0°S 13°\$17'55	1°27'52
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minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Feb 02 21:31 8628 Feb 17 17:40 8628 Mar 04 04:49 8628 Mar 30 17:53 8628 Apr 24 23:48 8628 May 04 07:50 8628 May 19 15:02	20° 🖈 12'39 19° 🖈 58'26 19° 🖈 46'19 17° 🖈 18'45 11° 🖈 56'11 14° 🖈 12'00 15° 🖈 49'47 0° 云 13° 云 51'06 0° 無 0° 升 0° भ 0° भ 11° か 18'28 0° と	7°22'04 0.28774 AU -4.8m	minimum elong max. Earth dist. evening rise asc. node	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13 8630 Sep 13 04:00 8630 Oct 08 13:06 8630 Oct 20 01:19 8630 Nov 03 20:10 8630 Dec 01 22:20 8630 Dec 09 21:32	16°820'49 17°804'21 0° II 0° © 7° © 15'12 28° © 17'23 0° Ω 0° ID 0° ID 0° II 13° I 17'55 0° II 0° II 0° II 13° I 17'55 0° II 0° II 0° II 13° I 17'55	1°27'52
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Feb 02 21:31 8628 Feb 02 21:31 8628 Mar 04 04:49 8628 Mar 30 17:53 8628 Apr 24 23:48 8628 May 04 07:50 8628 May 19 15:02 8628 Jun 12 23:09	20° 🖈 12'39 19° 🖈 58'26 19° 🖈 46'19 17° 🖈 18'45 11° 🖈 56'11 14° 🖈 12'00 15° 🛪 49'47 0° 云 13° 云 51'06 0° ≈ 0° 升 0° Υ 11° Υ 18'28 0° Β 0° Π	7°22'04 0.28774 AU -4.8m	minimum elong max. Earth dist. evening rise asc. node desc. node	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13 8630 Sep 13 04:00 8630 Oct 08 13:06 8630 Oct 20 01:19 8630 Nov 03 20:10 8630 Dec 01 22:20 8630 Dec 09 21:32 8631 Jan 05 09:35	16°820'49 17°804'21 0° II 0° © 7° © 15'12 28° © 17'23 0° Ω 0° ID	1°27'52 1.71232 AU 45°59'56
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Feb 02 21:31 8628 Feb 17 17:40 8628 Mar 04 04:49 8628 Mar 30 17:53 8628 Apr 24 23:48 8628 May 04 07:50 8628 May 19 15:02 8628 Jun 12 23:09 8628 Jul 07 04:45	20° ₹12'39 19° ₹58'26 19° ₹46'19 17° ₹18'45 11° ₹56'11 14° ₹12'00 15° ₹49'47 0° ₹ 13° ₹551'06 0° ≈ 0° ¥ 0° ♀ 11° ♀18'28 0° ₽ 0° Ⅱ 0° ₽	7°22'04 0.28774 AU -4.8m	minimum elong max. Earth dist. evening rise asc. node desc. node evening max el greatest brilliancy	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13 8630 Sep 13 04:00 8630 Oct 08 13:06 8630 Oct 20 01:19 8630 Dec 01 22:20 8630 Dec 09 21:32 8631 Jan 05 09:35 8631 Jan 18 07:53	16°820'49 17°804'21 0°¶ 0°% 7°%15'12 28°%17'23 0°\$\Omega 0°\$\Omega 0°\$\Dm\ 0°\$\sqrt{13}\sqrt{17'55} 0°\$\Sqrt{0}\\ 0°\$\Health{\text{\$\text{\$\circ}\$}} 0°\$\Health{\text{\$\circ}\$} 0°\$\Sqrt{16'}\\ 0°\$\Sqrt{18'}\sqrt{17'55} 0°\$\Sqrt{18'}\\ 0°\$\Health{\text{\$\circ}\$}	1°27'52 1.71232 AU
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Feb 02 21:31 8628 Feb 17 17:40 8628 Mar 04 04:49 8628 Mar 30 17:53 8628 Apr 24 23:48 8628 May 04 07:50 8628 May 19 15:02 8628 Jun 12 23:09 8628 Jul 07 04:45 8628 Jul 31 10:23	20° ₹12'39 19° ₹58'26 19° ₹46'19 17° ₹18'45 11° ₹56'11 14° ₹12'00 15° ₹49'47 0° ₹ 13° ₹551'06 0° ≈ 0° ¥ 0° ♀ 11° ♀18'28 0° ௧ 0° Ⅱ 0° \$ 0° ¶	7°22'04 0.28774 AU -4.8m	minimum elong max. Earth dist. evening rise asc. node desc. node desc. node evening max el greatest brilliancy retrograde	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13 8630 Sep 13 04:00 8630 Oct 08 13:06 8630 Oct 20 01:19 8630 Dec 01 22:20 8630 Dec 09 21:32 8631 Jan 05 09:35 8631 Jan 18 07:53 8631 Jan 28 01:00	16°820'49 17°804'21 0°	1°27'52 1.71232 AU 45°59'56
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Feb 02 21:31 8628 Feb 17 17:40 8628 Mar 04 04:49 8628 Mar 30 17:53 8628 Apr 24 23:48 8628 May 04 07:50 8628 May 19 15:02 8628 Jun 12 23:09 8628 Jul 07 04:45 8628 Jul 31 10:23 8628 Aug 21 15:03	20° ₹12'39 19° ₹58'26 19° ₹46'19 17° ₹18'45 11° ₹56'11 14° ₹12'00 15° ₹49'47 0° ₹ 13° ₹51'06 0° ≈ 0° ¥ 0° ¥ 0° ¥ 0° ¶ 0° \$ 0° \$ 0° \$ 26° \$\alpha 11'52	7°22'04 0.28774 AU -4.8m	minimum elong max. Earth dist. evening rise asc. node desc. node desc. node evening max el greatest brilliancy retrograde asc. node	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13 8630 Sep 13 04:00 8630 Oct 08 13:06 8630 Oct 20 01:19 8630 Dec 01 22:20 8630 Dec 09 21:32 8631 Jan 05 09:35 8631 Jan 18 07:53 8631 Jan 28 01:00 8631 Feb 10 01:18	16°820'49 17°804'21 0°耳 0°孚 7°⑤15'12 28°⑤17'23 0°凡 0°№ 0°№ 13°¾17'55 0°% 7°≈52'19 0°升 6°升38'11 8°升22'13 5°米01'59	1°27'52 1.71232 AU 45°59'56
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Feb 02 21:31 8628 Feb 17 17:40 8628 Mar 04 04:49 8628 Mar 30 17:53 8628 Apr 24 23:48 8628 May 04 07:50 8628 May 19 15:02 8628 Jun 12 23:09 8628 Jul 07 04:45 8628 Jul 31 10:23 8628 Aug 21 15:03 8628 Aug 24 16:55	20° ₹12'39 19° ₹58'26 19° ₹46'19 17° ₹18'45 11° ₹56'11 14° ₹12'00 15° ₹49'47 0° ₹ 13° ₹51'06 0° ≈ 0° ¥ 0° ♀ 11° ♀18'28 0° Ⅱ 0° ♀ 0° Ω 26° Ω11'52 0° №	7°22'04 0.28774 AU -4.8m	minimum elong max. Earth dist. evening rise asc. node desc. node evening max el greatest brilliancy retrograde asc. node evening set	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13 8630 Sep 13 04:00 8630 Oct 08 13:06 8630 Oct 20 01:19 8630 Dec 01 22:20 8630 Dec 01 22:20 8630 Dec 09 21:32 8631 Jan 05 09:35 8631 Jan 18 07:53 8631 Jan 28 01:00 8631 Feb 10 01:18 8631 Feb 11 12:44	16°820'49 17°804'21 0° II 0° II 0° II 0° II 28° I 17'23 0° II 0° II 0° II 0° II 10° I	1°27'52 1.71232 AU 45°59'56 -4.8m
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Feb 02 21:31 8628 Feb 17 17:40 8628 Mar 04 04:49 8628 Mar 30 17:53 8628 Apr 24 23:48 8628 May 04 07:50 8628 May 19 15:02 8628 Jun 12 23:09 8628 Jul 07 04:45 8628 Jul 31 10:23 8628 Aug 21 15:03 8628 Aug 24 16:55 8628 Aug 25 05:07	20° ₹12'39 19° ₹58'26 19° ₹46'19 17° ₹18'45 11° ₹56'11 14° ₹12'00 15° ₹49'47 0° ₹ 13° ₹51'06 0° ≈ 0° ¥ 0° ¥ 0° ¥ 0° ¶ 0° £ 26° £11'52 0° \$ 0° \$ 0° \$ 0° £ 0° \$ 0° £ 0° £ 0° £ 0° £ 0° £ 0° £ 0° £ 0° £	7°22'04 0.28774 AU -4.8m	minimum elong max. Earth dist. evening rise asc. node desc. node evening max el greatest brilliancy retrograde asc. node evening set inferior conj	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13 8630 Sep 13 04:00 8630 Oct 08 13:06 8630 Oct 20 01:19 8630 Nov 03 20:10 8630 Dec 01 22:20 8630 Dec 01 22:20 8630 Dec 09 21:32 8631 Jan 05 09:35 8631 Jan 18 07:53 8631 Jan 28 01:00 8631 Feb 10 01:18 8631 Feb 11 12:44 8631 Feb 17 20:16	16°820'49 17°804'21 0°	1°27'52 1.71232 AU 45°59'56 -4.8m
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Feb 02 21:31 8628 Feb 17 17:40 8628 Mar 04 04:49 8628 Mar 30 17:53 8628 Apr 24 23:48 8628 May 04 07:50 8628 May 19 15:02 8628 Jun 12 23:09 8628 Jul 07 04:45 8628 Jul 31 10:23 8628 Aug 21 15:03 8628 Aug 24 16:55	20° ₹12'39 19° ₹58'26 19° ₹46'19 17° ₹18'45 11° ₹56'11 14° ₹12'00 15° ₹49'47 0° ₹ 13° ₹51'06 0° ≈ 0° ¥ 0° ♀ 11° ♀18'28 0° Ⅱ 0° ♀ 0° Ω 26° Ω11'52 0° №	7°22'04 0.28774 AU -4.8m	minimum elong max. Earth dist. evening rise asc. node desc. node desc. node evening max el greatest brilliancy retrograde asc. node evening set inferior conj minimum elong	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13 8630 Aug 19 08:13 8630 Oct 08 13:06 8630 Oct 08 13:06 8630 Oct 20 01:19 8630 Nov 03 20:10 8630 Dec 01 22:20 8630 Dec 09 21:32 8631 Jan 05 09:35 8631 Jan 18 07:53 8631 Jan 28 01:00 8631 Feb 10 01:18 8631 Feb 11 12:44 8631 Feb 17 20:16 8631 Feb 17 15:47	16°820'49 17°804'21 0°	1°27'52 1.71232 AU 45°59'56 -4.8m 1°58'48 1°57'29
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node morning set asc. node	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Feb 02 21:31 8628 Feb 17 17:40 8628 Mar 04 04:49 8628 Mar 30 17:53 8628 Apr 24 23:48 8628 May 04 07:50 8628 May 19 15:02 8628 Jun 12 23:09 8628 Jul 07 04:45 8628 Jul 31 10:23 8628 Aug 21 15:03 8628 Aug 24 16:55 8628 Aug 25 05:07 8628 Sep 18 00:08	20° \$\times^12'39 19° \$\times^58'26 19° \$\times^46'19 17° \$\times^18'45 11° \$\times^56'11 14° \$\times^12'00 15° \$\times^49'47 0° \$\times^63'106 0° \$\times^9 \times^9 \times^9 \times^0 \$\times^0 \times^0 \times	7°22'04 0.28774 AU -4.8m 46°23'38	minimum elong max. Earth dist. evening rise asc. node desc. node evening max el greatest brilliancy retrograde asc. node evening set inferior conj	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13 8630 Aug 19 08:13 8630 Oct 08 13:06 8630 Oct 20 01:19 8630 Nov 03 20:10 8630 Dec 01 22:20 8630 Dec 09 21:32 8631 Jan 05 09:35 8631 Jan 18 07:53 8631 Jan 28 01:00 8631 Feb 10 01:18 8631 Feb 17 20:16 8631 Feb 17 15:47 8631 Feb 18 02:27	16°820'49 17°804'21 0° II 0° © 7° © 15'12 28° © 17'23 0° Ω 0° ID 13° ID 13° ID 15'55 0° ID 0° ID 16° H38'11 8° H22'13 5° H01'59 4° H16'29 0° H33'28 0° H40'24 0° H23'55	1°27'52 1.71232 AU 45°59'56 -4.8m
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node morning set asc. node	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Feb 02 21:31 8628 Feb 02 21:31 8628 Feb 17 17:40 8628 Mar 04 04:49 8628 Mar 30 17:53 8628 Apr 24 23:48 8628 May 04 07:50 8628 May 19 15:02 8628 Jun 12 23:09 8628 Jul 07 04:45 8628 Jul 31 10:23 8628 Aug 21 15:03 8628 Aug 24 16:55 8628 Aug 25 05:07 8628 Sep 18 00:08	20° ₹12'39 19° ₹58'26 19° ₹46'19 17° ₹18'45 11° ₹56'11 14° ₹12'00 15° ₹49'47 0° ₹ 13° ₹51'06 0° ≈ 0° ¥ 0° ¥ 0° ¥ 0° ¶ 0° £ 26° £11'52 0° \$ 0° \$ 0° \$ 0° £ 0° \$ 0° £ 0° £ 0° £ 0° £ 0° £ 0° £ 0° £ 0° £	7°22'04 0.28774 AU -4.8m	minimum elong max. Earth dist. evening rise asc. node desc. node evening max el greatest brilliancy retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13 8630 Sep 13 04:00 8630 Oct 08 13:06 8630 Oct 20 01:19 8630 Nov 03 20:10 8630 Dec 01 22:20 8630 Dec 01 22:20 8630 Dec 09 21:32 8631 Jan 05 09:35 8631 Jan 18 07:53 8631 Jan 18 07:53 8631 Feb 10 01:18 8631 Feb 17 12:44 8631 Feb 17 20:16 8631 Feb 17 15:47 8631 Feb 18 02:27 8631 Feb 18 17:56	16°820'49 17°804'21 0°	1°27'52 1.71232 AU 45°59'56 -4.8m 1°58'48 1°57'29
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node morning set asc. node	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Feb 02 21:31 8628 Feb 17 17:40 8628 Mar 04 04:49 8628 Mar 30 17:53 8628 Apr 24 23:48 8628 May 04 07:50 8628 May 19 15:02 8628 Jun 12 23:09 8628 Jul 07 04:45 8628 Jul 31 10:23 8628 Aug 21 15:03 8628 Aug 24 16:55 8628 Aug 25 05:07 8628 Sep 18 00:08	20° \$\times 12'39 19° \$\times 58'26 19° \$\times 46'19 17° \$\times 18'45 11° \$\times 56'11 14° \$\times 12'00 15° \$\times 49'47 0° \$\times 551'06 0° \$\times 0° \$\time	7°22'04 0.28774 AU -4.8m 46°23'38 1°10'06 1°09'52	minimum elong max. Earth dist. evening rise asc. node desc. node desc. node evening max el greatest brilliancy retrograde asc. node evening set inferior conj minimum elong	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13 8630 Aug 19 08:13 8630 Oct 08 13:06 8630 Oct 20 01:19 8630 Nov 03 20:10 8630 Dec 01 22:20 8630 Dec 09 21:32 8631 Jan 05 09:35 8631 Jan 18 07:53 8631 Jan 28 01:00 8631 Feb 10 01:18 8631 Feb 17 20:16 8631 Feb 17 15:47 8631 Feb 18 02:27	16°820'49 17°804'21 0° II 0° © 7° © 15'12 28° © 17'23 0° Ω 0° ID 13° ID 13° ID 15'55 0° ID 0° ID 16° H38'11 8° H22'13 5° H01'59 4° H16'29 0° H33'28 0° H40'24 0° H23'55	1°27'52 1.71232 AU 45°59'56 -4.8m 1°58'48 1°57'29
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node morning set asc. node	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Feb 02 21:31 8628 Feb 02 21:31 8628 Feb 17 17:40 8628 Mar 04 04:49 8628 Mar 30 17:53 8628 Apr 24 23:48 8628 May 04 07:50 8628 May 19 15:02 8628 Jun 12 23:09 8628 Jul 07 04:45 8628 Jul 31 10:23 8628 Aug 21 15:03 8628 Aug 24 16:55 8628 Aug 25 05:07 8628 Sep 18 00:08	20° \$\times 12'39 19° \$\times 58'26 19° \$\times 46'19 17° \$\times 18'45 11° \$\times 56'11 14° \$\times 12'00 15° \$\times 49'47 0° \$\times 13° \$\times 551'06 0° \$\times 0° \$\tim	7°22'04 0.28774 AU -4.8m 46°23'38	minimum elong max. Earth dist. evening rise asc. node desc. node evening max el greatest brilliancy retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13 8630 Sep 13 04:00 8630 Oct 08 13:06 8630 Oct 20 01:19 8630 Nov 03 20:10 8630 Dec 01 22:20 8630 Dec 01 22:20 8630 Dec 09 21:32 8631 Jan 05 09:35 8631 Jan 18 07:53 8631 Jan 18 07:53 8631 Feb 10 01:18 8631 Feb 17 12:44 8631 Feb 17 20:16 8631 Feb 17 15:47 8631 Feb 18 02:27 8631 Feb 18 17:56	16°820'49 17°804'21 0° II 0° © 7° © 15'12 28° © 17'23 0° N 0° M 0° № 13° № 13° № 13° № 13° № 6° № 6° № 8° № 6° № 8° № 13° № 13° № 118° № 22'13 5° № 16'29 0° № 33'28 0° ₩ 40'24 0° ₩ 23'55 30° R П° №	1°27'52 1.71232 AU 45°59'56 -4.8m 1°58'48 1°57'29
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node morning set asc. node	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Feb 02 21:31 8628 Feb 02 21:31 8628 Feb 17 17:40 8628 Mar 04 04:49 8628 Mar 30 17:53 8628 Apr 24 23:48 8628 May 04 07:50 8628 May 19 15:02 8628 Jun 12 23:09 8628 Jul 07 04:45 8628 Jul 31 10:23 8628 Aug 21 15:03 8628 Aug 24 16:55 8628 Aug 25 05:07 8628 Sep 18 00:08	20° \$\times 12'39 19° \$\times 58'26 19° \$\times 46'19 17° \$\times 18'45 11° \$\times 56'11 14° \$\times 12'00 15° \$\times 49'47 0° \$\times 551'06 0° \$\times 0° \$\time	7°22'04 0.28774 AU -4.8m 46°23'38 1°10'06 1°09'52	minimum elong max. Earth dist. evening rise asc. node desc. node evening max el greatest brilliancy retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13 8630 Sep 13 04:00 8630 Oct 08 13:06 8630 Oct 20 01:19 8630 Nov 03 20:10 8630 Dec 01 22:20 8630 Dec 09 21:32 8631 Jan 05 09:35 8631 Jan 18 07:53 8631 Jan 28 01:00 8631 Feb 10 01:18 8631 Feb 11 12:44 8631 Feb 17 20:16 8631 Feb 17 15:47 8631 Feb 18 02:27 8631 Feb 18 17:56 8631 Feb 23 18:20	16°820'49 17°804'21 0° II 0° © 7° © 15'12 28° © 17'23 0° N 0° M 0° № 13° № 13° № 17'55 0° № 6° № 6° № 8° № 13° № 118° № 22'13 5° № 16'29 0° № 33'28 0° ₩ 40'24 0° ₩ 23'55 30° R 27° ≈ 02'09	1°27'52 1.71232 AU 45°59'56 -4.8m 1°58'48 1°57'29 0.27295 AU
minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node morning set asc. node	8627 Dec 08 08:19 8627 Dec 08 17:25 8627 Dec 09 01:10 8627 Dec 13 01:59 8627 Dec 29 18:41 8628 Jan 09 20:58 8628 Feb 02 21:31 8628 Feb 02 21:31 8628 Feb 17 17:40 8628 Mar 04 04:49 8628 Mar 30 17:53 8628 Apr 24 23:48 8628 May 04 07:50 8628 May 19 15:02 8628 Jun 12 23:09 8628 Jul 07 04:45 8628 Jul 31 10:23 8628 Aug 21 15:03 8628 Aug 24 16:55 8628 Aug 25 05:07 8628 Sep 18 00:08	20° ₹12'39 19° ₹58'26 19° ₹46'19 17° ₹18'45 11° ₹56'11 14° ₹12'00 15° ₹49'47 0° ₹ 13° ₹551'06 0° ≈ 0° ₹ 0° ₹ 11° ₹18'28 0° ₹ 0° ₹ 26° £11'52 0° ₹ 0° ₹ 26° £11'52 0° ₹ 12° £25'11 11° £57'26 13° £27'00	7°22'04 0.28774 AU -4.8m 46°23'38 1°10'06 1°09'52	minimum elong max. Earth dist. evening rise asc. node desc. node evening max el greatest brilliancy retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	8630 May 03 20:46 8630 May 04 10:36 8630 May 14 17:20 8630 Jun 07 15:05 8630 Jun 13 10:10 8630 Jun 30 06:51 8630 Jul 01 15:51 8630 Jul 25 21:03 8630 Aug 19 08:13 8630 Sep 13 04:00 8630 Oct 08 13:06 8630 Oct 20 01:19 8630 Nov 03 20:10 8630 Dec 01 22:20 8630 Dec 09 21:32 8631 Jan 05 09:35 8631 Jan 18 07:53 8631 Jan 18 07:53 8631 Feb 10 01:18 8631 Feb 10 01:18 8631 Feb 11 12:44 8631 Feb 17 20:16 8631 Feb 18 02:27 8631 Feb 18 17:56 8631 Feb 23 18:20 8631 Mar 10 17:13	16°820'49 17°804'21 0° II 0° © 7° © 15'12 28° © 17'23 0° Ω 0° ID 0° № 0° № 13° № 17'55 0° № 7° № 52'19 0° № 6° № 38'11 8° № 22'13 5° № 16'29 0° № 33'28 0° ₩ 40'24 0° ₩ 23'55 30° № 27° ≈ 02'09 22° ≈ 38'11	1°27'52 1.71232 AU 45°59'56 -4.8m 1°58'48 1°57'29 0.27295 AU

morning max el	8631 Apr 30 04:51	25°) (30′01	46°58'20		8633 Dec 10 19:17	0° ≈	
morning man er	8631 May 04 14:29	0°Υ	.0 2020		8634 Jan 05 12:59	0° ∀	
	8631 May 31 23:01	0°8			8634 Feb 01 05:43	0°Υ	
desc. node	8631 Jun 01 20:07	1° 8 00'19		evening max el	8634 Feb 20 08:42	20° Y ′04'13	46°44'59
	8631 Jun 26 15:41	0°II		Č	8634 Mar 02 16:44	0°8	
	8631 Jul 21 16:48	0 \circ \odot		asc. node	8634 Mar 09 12:36	6° 8 01'13	
	8631 Aug 15 11:30	$0^{\circ}\Omega$		greatest brilliancy	8634 Apr 02 00:14	20° 8 55'47	-4.9m
	8631 Sep 09 03:09	o° mp		retrograde	8634 Apr 11 17:47	22° 8 44'02	
asc. node	8631 Sep 22 17:28	16° Mp 35'49		evening set	8634 Apr 29 20:29	16° 8 28'48	
	8631 Oct 03 16:23	0∘ ত		inferior conj	8634 May 02 09:47	14° 8 55'20	9°12'04
	8631 Oct 28 03:05	0°M		minimum elong	8634 May 02 08:33	14° 8 57'13	9°11'54
morning set	8631 Oct 30 15:52	3°M06'56		min. Earth dist.	8634 May 02 07:48	14° 8 58'22	0.27116 AU
	8631 Nov 21 11:33	0° ∡ 7		morning rise	8634 May 04 20:39	13° 8 25'27	
max. Earth dist.	8631 Dec 04 19:02	16° х 26′05	1.73084 AU	direct	8634 May 23 00:26	7° 8 07'26	
				greatest brilliancy	8634 Jun 01 15:41	8° 8 52'36	-4.9m
superior conj	8631 Dec 06 05:14	18° ∤ 11'44	1°14'30	desc. node	8634 Jun 29 07:47	27° 8 15'30	
minimum elong	8631 Dec 06 13:36	18° ∡ ³37'33	1°14'30		8634 Jul 02 08:52	Π $^{\circ}0$	
	8631 Dec 15 18:33	0°రె		morning max el	8634 Jul 12 05:49	9°Ⅱ26'32	46°38'52
	8632 Jan 09 00:39	0° ≈			8634 Jul 31 21:42	0 \circ \odot	
desc. node	8632 Jan 12 10:39	4° ≈ 13'44			8634 Aug 27 15:59	0 ° Ω	
evening rise	8632 Jan 12 23:54	4° ≈ 54'44			8634 Sep 22 10:45	0° m ∕	
	8632 Feb 02 05:52	0° ∀			8634 Oct 17 16:52	0∘ ত	
	8632 Feb 26 10:08	$0^{\circ}\Upsilon$		asc. node	8634 Oct 20 05:52	3° ჲ 02'48	
	8632 Mar 21 14:23	9° 8			8634 Nov 11 13:50	0° M	
	8632 Apr 14 21:18	Π $^{\circ}0$			8634 Dec 06 03:39	0°⊀	
asc. node	8632 May 04 09:18	23° Ⅱ 49′51			8634 Dec 30 12:18	0°రె	
	8632 May 09 11:39	0°€		morning set	8635 Jan 07 12:34	9° る 54'24	
	8632 Jun 03 17:15	0 ° Ω			8635 Jan 23 17:24	0° ≈	
	8632 Jun 30 06:20	0° mp		desc. node	8635 Feb 08 22:41	20° ≈ 10′36	
evening max el	8632 Jul 17 01:09	17° Mp 28'34	46°14'49	max. Earth dist.	8635 Feb 12 05:01	24° ≈ 14'40	1.72011 AU
	8632 Jul 30 10:58	0∘ ত					
desc. node	8632 Aug 24 04:49	16° ≙ 33'06		superior conj	8635 Feb 15 04:08	27° ≈ 56′25	-0°15'05
greatest brilliancy	8632 Aug 24 18:08	16° ≙ 46′08	-4.8m	minimum elong	8635 Feb 15 00:29	27° ≈ 45′01	0°14'46
retrograde	8632 Sep 04 17:08	18° ≙ 58'05		behind sun begin	8635 Feb 14 14:17	27°≈13'14	
evening set	8632 Sep 21 04:00	13° ≙ 47'17		behind sun end	8635 Feb 15 10:40	28° ≈ 16'48	
min. Earth dist.	8632 Sep 25 14:39	11° ≏ 04'54	0.28860 AU		8635 Feb 16 19:45	0° ∀	
inferior conj	8632 Sep 26 05:36	10° ≏ 41'26	-6°55'24		8635 Mar 12 19:45	0 ° Υ	
minimum elong	8632 Sep 25 19:55	10° £ 56'39	6°53'38	evening rise	8635 Mar 26 22:42	17° Y 42'03	
morning rise	8632 Sep 30 12:03	8° ഫ 03'49			8635 Apr 05 18:06	9° 8	
direct	8632 Oct 17 15:19	2° ≏ 30'44			8635 Apr 29 16:33	Π $^{\circ}0$	
greatest brilliancy	8632 Oct 27 12:53	4° £ 16'19	-4.7m		8635 May 23 17:43	$0 {\circ} {f \widehat{e}}$	
	8632 Dec 02 21:11	0°M₊		asc. node	8635 Jun 01 20:57	11° © 19'42	
morning max el	8632 Dec 05 10:01		45°44'34		8635 Jun 17 00:31	$0 {\circ} \Omega$	
asc. node	8632 Dec 15 04:11	12°M08'42			8635 Jul 11 16:32	0° m	
	8632 Dec 31 22:01	0°⊀			8635 Aug 05 23:38	0∘ ত	
	8633 Jan 27 05:50	0°ರ			8635 Sep 01 10:55	0°M₊	
	8633 Feb 21 10:25	0° ≈		desc. node	8635 Sep 21 16:02	21°M13'56	
	8633 Mar 18 00:45	0° ∀		evening max el	8635 Sep 26 20:37	26°M19′10	45°43'11
desc. node	8633 Apr 05 21:28	23°) 18′22			8635 Sep 30 17:58	0° ∡	
	8633 Apr 11 06:48	0° Υ		greatest brilliancy	8635 Nov 04 20:27	24° 🖈 28'10	-4.7m
	8633 May 05 07:55	0°8		retrograde	8635 Nov 14 15:35	26° ∡ 12'03	
	8633 May 29 06:47	0°II		evening set	8635 Dec 02 02:58	20° ₹ 25'27	
morning set	8633 Jun 08 04:12	12° Ⅲ 23'41		inferior conj	8635 Dec 06 00:12	18° ₹ 01'53	
	8633 Jun 22 05:47	0°©		minimum elong	8635 Dec 06 08:56	17° ∡ ¹48'13	7°32'22
	8633 Jul 16 06:37	0 ° Ω		min. Earth dist.	8635 Dec 06 15:57	17° 🗷 37'14	0.28815 AU
	0.622 1 1 17 11 12	10.0000	0024142	morning rise	8635 Dec 10 14:41	15° ₹ 12'35	
superior conj	8633 Jul 17 11:49	1° Ω 30'55		direct	8635 Dec 27 11:28	9° ×7 45'17	4.0
minimum elong	8633 Jul 17 17:36	1° Ω 48'56		greatest brilliancy	8636 Jan 07 11:49	11° 🖈 59'28	-4.8m
max. Earth dist.	8633 Jul 20 15:24		1.72196 AU	asc. node	8636 Jan 12 15:41	14° ₹ 21'19	
asc. node	8633 Jul 27 18:48	14° Ω 18'52			8636 Feb 03 02:15	0°る	46001157
-	8633 Aug 09 10:04	0° Mp		morning max el	8636 Feb 15 09:37	11° る 38'05	40-213/
evening rise	8633 Aug 24 18:44	19° Mp 00'37			8636 Mar 03 21:56	0° ≈	
	8633 Sep 02 16:24	0∘ 亚			8636 Mar 30 07:52	0°) €	
	8633 Sep 27 02:09	0°M.		J 1	8636 Apr 24 12:24	0°Υ 10° Υ 47!20	
	8633 Oct 21 16:39	0° ∡ 7		desc. node	8636 May 03 09:53	10° Y 47'20	
J 1	8633 Nov 15 13:41	0°る			8636 May 19 02:53	0° Β	
desc. node	8633 Nov 16 12:59	1° る 09'45			8636 Jun 12 10:33	Π °0	

	0626 X 1 06 15 40	005		1 '11'	0620 1 15 22 14	401/10110	4.0
	8636 Jul 06 15:49	0°©		greatest brilliancy	8639 Jan 15 22:14	4° ¥ 19'10	-4.8m
	8636 Jul 30 21:12	0°N		retrograde	8639 Jan 25 13:45	6° ₩ 02'15	
morning set	8636 Aug 19 06:48	23° Ω 59'31		evening set	8639 Feb 09 02:12	1° ¥ 56'15	
asc. node	8636 Aug 24 07:01	0° Mp 10'48		asc. node	8639 Feb 09 03:17	1°) ₹ 54'49	
	8636 Aug 24 03:31	o° mp			8639 Feb 12 12:02	30° R ≈	
	8636 Sep 17 10:34	0∘ ⊽		inferior conj	8639 Feb 15 10:00	28° ≈ 13'11	1°35'51
				minimum elong	8639 Feb 15 06:22	28° ≈ 18'49	1°34'49
superior conj	8636 Sep 25 18:46	10° ≏ 17'35		min. Earth dist.	8639 Feb 15 17:37	28° ≈ 01'27	0.27328 AU
minimum elong	8636 Sep 25 09:33	9° ≏ 49'09	1°07'53	morning rise	8639 Feb 21 09:53	24° ≈ 39'07	
max. Earth dist.	8636 Sep 26 18:59	11° ≏ 32'19	1.73197 AU	direct	8639 Mar 08 06:47	20° ≈ 16'58	
	8636 Oct 11 18:13	0°M₊		greatest brilliancy	8639 Mar 18 19:38	22° ≈ 21′25	-4.9m
evening rise	8636 Nov 01 05:09	25°M11'45			8639 Apr 01 13:01	0° ∀	
	8636 Nov 05 02:52	0° ∡ ¹		morning max el	8639 Apr 27 18:05	23° ₭ 06′27	46°58'06
	8636 Nov 29 13:16	0°る			8639 May 04 10:48	0 ° Υ	
desc. node	8636 Dec 14 00:38	17° る 43'17		desc. node	8639 May 31 22:03	0° 8 22'11	
	8636 Dec 24 01:47	0° ≈			8639 May 31 14:19	9° 8	
	8637 Jan 17 16:21	0° ∀			8639 Jun 26 04:56	Π \circ 0	
	8637 Feb 11 09:39	0 ° Υ			8639 Jul 21 04:57	0 \circ \odot	
	8637 Mar 08 09:12	B_{0}			8639 Aug 14 22:58	$0^{\circ}\Omega$	
	8637 Apr 03 00:37	Π $^{\circ}0$			8639 Sep 08 14:11	0° m y	
asc. node	8637 Apr 05 23:52	3° Ⅱ 23'09		asc. node	8639 Sep 21 19:30	16° m 08'47	
	8637 Apr 30 09:16	0°€			8639 Oct 03 03:08	0∘ ⊽	
evening max el	8637 May 04 08:32	4° © 03'12	46°55'47		8639 Oct 27 13:39	0° M .	
C	8637 Jun 03 21:42	$0^{\circ}\Omega$		morning set	8639 Oct 28 09:01	0°M59'34	
greatest brilliancy	8637 Jun 13 05:32	4° Ω 41'55	-4.9m	C	8639 Nov 20 22:02	0° ∡ ¹	
retrograde	8637 Jun 23 18:31	6° Ω 46'01		max. Earth dist.	8639 Dec 02 13:24	14° ∡ °22'15	1.73108 AU
evening set	8637 Jul 09 00:05	2°Ω11'37					
evening sec	8637 Jul 12 17:32	30°Rூ		superior conj	8639 Dec 03 22:08	16° х 03′20	1°16'06
inferior conj	8637 Jul 14 16:46	28° © 47'11	3°00'53	minimum elong	8639 Dec 04 06:05		1°16'07
minimum elong	8637 Jul 14 23:23	28°936'58	2°58'41	minimum crong	8639 Dec 15 05:03	0° る	1 10 07
min. Earth dist.	8637 Jul 14 11:38	28° © 55'08	0.27513 AU		8640 Jan 08 11:17	0° ≈	
morning rise	8637 Jul 20 23:17	25° © 05'36	0.27313 AO	evening rise	8640 Jan 10 15:04	0 ~ 2° ≈ 40'11	
desc. node	8637 Jul 26 19:15	22° © 28'50		desc. node	8640 Jan 11 12:30	2 ≈46'11 3°≈46'28	
direct		22 3 28 30 20° 9 55'36		uese. Houe	8640 Feb 01 16:42	0°)	
	8637 Aug 04 14:52		1 0			0 K 0°Υ	
greatest brilliancy	8637 Aug 14 09:04	22° © 40'55 0° Ω	-4.8m		8640 Feb 25 21:14		
	8637 Aug 28 07:58		45052145		8640 Mar 21 01:49	0° B	
morning max el	8637 Sep 22 17:18	21° Ω 19'47	45-5545	1	8640 Apr 14 09:11	0°II	
	8637 Oct 01 11:54	0° m/		asc. node	8640 May 03 11:19	23° Ⅱ 18'18	
	8637 Oct 29 12:46	0° ⊽			8640 May 09 00:16	0°©	
asc. node	8637 Nov 16 18:13	20° £ 41'33			8640 Jun 03 07:17	0° Q	
	8637 Nov 24 18:39	0° ™			8640 Jun 29 23:38	0° m)	
	8637 Dec 20 02:17	0° ⊀ ⁷		evening max el	8640 Jul 14 15:47	15° m 12'36	46°16'25
	8638 Jan 13 20:24	ರಿಂತ			8640 Jul 30 16:54	0∘ ⊽	
	8638 Feb 07 06:00	0° ≈		greatest brilliancy	8640 Aug 22 09:23	14° ≏ 34'16	-4.8m
	8638 Mar 03 09:59	0° ∀		desc. node	8640 Aug 23 06:49	14° ≏ 54'11	
desc. node	8638 Mar 08 11:01	6°) 17′18		retrograde	8640 Sep 02 09:23	16° ≏ 47'41	
morning set	8638 Mar 21 14:01	22°) (41'43		evening set	8640 Sep 18 16:56	11° ≏ 40'59	
	8638 Mar 27 09:59	0° Υ		inferior conj	8640 Sep 23 21:36	8° ≏ 31'07	
	8638 Apr 20 07:23	9° 8		minimum elong	8640 Sep 23 11:43	8° ≏ 46'36	
				min. Earth dist.	8640 Sep 23 06:10	8° ≏ 55'18	0.28825 AU
superior conj	8638 May 01 08:53	13° 8 54'39		morning rise	8640 Sep 28 06:46	5° ≏ 49'49	
minimum elong	8638 May 01 07:06	13° 8 49'05		direct	8640 Oct 15 06:38	0° ჲ 20'45	
max. Earth dist.	8638 May 01 15:17		1.71226 AU	greatest brilliancy	8640 Oct 25 04:30	2° ≏ 06'41	-4.7m
	8638 May 14 03:57	Π $^{\circ}0$			8640 Dec 02 19:47	0° M	
	8638 Jun 07 01:44	0		morning max el	8640 Dec 03 01:37	0° M .14′01	45°44'02
evening rise	8638 Jun 10 21:53	4° © 48'21		asc. node	8640 Dec 14 06:03	11° M 25'20	
asc. node	8638 Jun 29 08:43	27° © 49'51			8640 Dec 31 13:34	0° ∡ ¹	
	8638 Jul 01 02:34	$0 {\circ} \Omega$			8641 Jan 26 19:03	0°₹	
	8638 Jul 25 07:56	0° m			8641 Feb 20 22:33	0° ≈	
	8638 Aug 18 19:25	0∘ ⊽			8641 Mar 17 12:20	0° ∀	
	8638 Sep 12 15:45	0° M		desc. node	8641 Apr 04 23:28	22° ¥ 49′22	
	8638 Oct 08 01:54	0° ∡ ¹			8641 Apr 10 18:04	0° Y	
desc. node	8638 Oct 19 03:25	12° ∡ ⁴45'19			8641 May 04 18:59	0° 8	
	8638 Nov 03 11:04	ರ°0			8641 May 28 17:42	$\Pi^{\circ}0$	
	8638 Dec 01 18:39	0° ≈		morning set	8641 Jun 05 16:28	9° Ⅱ 57'42	
evening max el	8638 Dec 07 10:45	5° ≈ 33'40	45°58'35		8641 Jun 21 16:33	0°©	
	8639 Jan 06 17:04	0°) €					

superior conj	8641 Jul 15 01:46	29° © 11'39	002011	morning rise	8643 Dec 08 03:19	13° ∡ '05'23	
minimum elong	8641 Jul 15 08:20	29° © 32'04		direct	8643 Dec 25 04:01	7° ₹ 33'28	
minimum ciong	8641 Jul 15 17:18	0°Ω	0 28 03	greatest brilliancy	8644 Jan 05 02:48	9° x ⁷ 45'55	-4.8m
max. Earth dist.	8641 Jul 18 04:50		1.72151 AU	asc. node	8644 Jan 11 17:43	12° × 754'45	4.0111
asc. node	8641 Jul 26 20:45	13°Ω51'52	1.72131710	use. Houe	8644 Feb 03 05:46	0°る	
use. Hour	8641 Aug 08 20:44	0°m)		morning max el	8644 Feb 13 00:39	9° る 21'29	46°20'12
evening rise	8641 Aug 22 11:12	16° m) 50'19		morning man vi	8644 Mar 03 15:12	0° ≈	.0 20 12
	8641 Sep 02 03:07	0∘ <u>ಹ</u>			8644 Mar 29 22:08	0°) €	
	8641 Sep 26 13:02	0° M .			8644 Apr 24 01:18	0° Υ	
	8641 Oct 21 03:52	0° ∡ ¹		desc. node	8644 May 02 11:51	10° Y °14'56	
	8641 Nov 15 01:29	0°ප			8644 May 18 15:01	0°8	
desc. node	8641 Nov 15 14:52	0° る 40'02			8644 Jun 11 22:13	0°Ⅱ	
	8641 Dec 10 08:02	0° ≈			8644 Jul 06 03:10	$0 \circ \mathfrak{S}$	
	8642 Jan 05 03:25	0° ∀			8644 Jul 30 08:18	$0^{\circ}\Omega$	
	8642 Jan 31 23:36	$0^{\circ}\mathbf{\Upsilon}$		morning set	8644 Aug 16 22:33	21° Ω 46′00	
evening max el	8642 Feb 17 22:54	17° Ƴ 42'47	46°43'43	asc. node	8644 Aug 23 09:04	29° Ω 43'24	
	8642 Mar 02 22:01	8° 0			8644 Aug 23 14:26	0° m	
asc. node	8642 Mar 08 14:40	4° 8 52'49			8644 Sep 16 21:22	0∘ 亚	
greatest brilliancy	8642 Mar 30 12:06	18° 8 28'31	-4.9m				
retrograde	8642 Apr 09 07:13	20° 8 17'50		superior conj	8644 Sep 23 11:58	8° ഫ 09'16	1°06'04
evening set	8642 Apr 27 07:10	14° 8 05'32		minimum elong	8644 Sep 23 02:36	7° ≏ 40'21	1°05'47
inferior conj	8642 Apr 29 22:30	12° 8 29'01	9°10'17	max. Earth dist.	8644 Sep 24 14:56	9° ≏ 32'28	1.73174 AU
minimum elong	8642 Apr 29 20:18	12° 8 32'23	9°10'05		8644 Oct 11 04:59	0° M	
min. Earth dist.	8642 Apr 29 19:41	12° 8 33'20	0.27111 AU	evening rise	8644 Oct 29 22:36	23°M04'23	
morning rise	8642 May 02 09:28	10° 8 59'04			8644 Nov 04 13:44	0° ∡ ″	
direct	8642 May 20 13:44	4° 8 41'11			8644 Nov 29 00:21	5°0	
greatest brilliancy	8642 May 30 03:42	6° 8 25'45	-4.9m	desc. node	8644 Dec 13 02:33	17° る 14'46	
desc. node	8642 Jun 28 09:41	26° 8 13'03			8644 Dec 23 13:12	0° ≈	
	8642 Jul 02 12:14	$\Pi^{\circ}0$			8645 Jan 17 04:16	0° ∀	
morning max el	8642 Jul 09 20:26	7° Ⅱ 06′29	46°40'25		8645 Feb 10 22:19	0 ° Υ	
	8642 Jul 31 15:07	0 \circ \odot			8645 Mar 07 23:02	9° 8	
	8642 Aug 27 06:11	$0^{\circ}\Omega$			8645 Apr 02 16:38	Π °0	
	8642 Sep 21 23:22	0° m ∕		asc. node	8645 Apr 05 01:51	2° Ⅱ 42'25	
	8642 Oct 17 04:36	0∘ ⊽			8645 Apr 30 06:52	0 \circ	
asc. node	8642 Oct 19 07:52	2° ≏ 33'48		evening max el	8645 May 01 22:21	1° 9 540'06	46°56'26
	8642 Nov 11 01:03	0° M ₊			8645 Jun 05 14:54	0 \circ Ω	
	8642 Dec 05 14:37	0° ∡		greatest brilliancy	8645 Jun 10 21:38	2° Ω 22'38	-4.9m
	8642 Dec 29 23:09	0° る		retrograde	8645 Jun 21 08:15	4° Ω 24'46	
morning set	8643 Jan 05 04:25	7° る 41'27			8645 Jul 06 07:42	30°R≌	
	8643 Jan 23 04:14	0° ≈		evening set	8645 Jul 06 16:30	29°547'49	2022/20
desc. node	8643 Feb 08 00:43	19° ≈ 43'10	1.50051 4.77	inferior conj	8645 Jul 12 06:45	26°526'48	3°22'30
max. Earth dist.	8643 Feb 09 17:58	21° ≈ 51'39	1.72051 AU	minimum elong	8645 Jul 12 14:03	26°515'30	3°20'08
	0642 E-L 12 17.15	25022146	0011122	min. Earth dist.	8645 Jul 12 02:38	26°533'10	0.27481 AU
superior conj	8643 Feb 12 17:15	25°≈33'46 25°≈25'11		morning rise desc. node	8645 Jul 18 12:06 8645 Jul 25 21:21	22° © 46'24 19° © 39'17	
minimum elong	8643 Feb 12 14:30 8643 Feb 11 20:18	23 ≈23 11 24°≈28'28	0°11'07	direct			
behind sun begin behind sun end	8643 Feb 13 08:42	24 ≈28 28 26°≈21'55		greatest brilliancy	8645 Aug 02 04:14 8645 Aug 11 23:07	18°535'39 20°521'15	1 9m
belling sun end	8643 Feb 16 06:38	0° ∺		greatest orimancy	8645 Aug 29 04:58	0°Ω	- 4 .0111
	8643 Mar 12 06:41	0° Υ		morning max el	8645 Sep 20 06:42	19° Ω 00'45	45°54'57
evening rise	8643 Mar 24 10:32	15° Υ 14'11		morning max ci	8645 Oct 01 07:41	0°m)	43 34 37
evening rise	8643 Apr 05 05:08	0°8			8645 Oct 29 03:44	0∘ ت مار	
	8643 Apr 29 03:46	0°II		asc. node	8645 Nov 15 20:03	20° ♀ 07'55	
	8643 May 23 05:10	0°9		use. Houe	8645 Nov 24 07:39	0°M	
asc. node	8643 May 31 22:49	10°549'46			8645 Dec 19 14:19	0° × 7⊓	
use. Hour	8643 Jun 16 12:20	0°Ω			8646 Jan 13 07:56	° ਰ∘ਰ	
	8643 Jul 11 04:56	0° m)			8646 Feb 06 17:17	0° ≈	
	8643 Aug 05 13:11	0∘ <u>⊽</u>			8646 Mar 02 21:09	0°) €	
	8643 Sep 01 03:04	0° M .		desc. node	8646 Mar 07 13:02	5°) (48'48	
desc. node	8643 Sep 20 18:09	20°M27'58		morning set	8646 Mar 19 01:06	20°) 11'19	
evening max el	8643 Sep 24 12:29	24°ML08'26	45°43'33	S	8646 Mar 26 21:06	0° Υ	
Ç	8643 Sep 30 18:31	0° ∡ ¹			8646 Apr 19 18:30	0°8	
greatest brilliancy	8643 Nov 02 11:06	22° ∡ 16'48	-4.7m		<u>*</u>		
retrograde	8643 Nov 12 06:53	24° ∡ °01'00		superior conj	8646 Apr 28 19:52	11° 8 23'26	-1°27'09
evening set	8643 Nov 29 21:14	18° ∡ 10'34		minimum elong	8646 Apr 28 17:01	11° 8 14'28	1°27'17
inferior conj	8643 Dec 03 16:04	15° ∡ ¹50'15	-7°43'14	max. Earth dist.	8646 Apr 28 17:07	11° 8 14'45	1.71223 AU
minimum elong	8643 Dec 04 00:21	15° ∡ ³37'14	7°41'54		8646 May 13 15:04	Π $^{\circ}0$	
min. Earth dist.	8643 Dec 04 06:51	15° ∡ ¹27′03	0.28857 AU		8646 Jun 06 12:50	0 \circ \odot	

evening rise	8646 Jun 08 09:06	2° © 18'31		morning max el	8648 Nov 30 17:43	28° ഫ 03'38	45°43'30
asc. node	8646 Jun 28 10:41	27° © 21'17			8648 Dec 02 17:44	0°M₊	
	8646 Jun 30 13:44	$0^{\circ}\Omega$		asc. node	8648 Dec 13 08:04	10°M42'20	
		0° m)		ase. Hode		0° ₹	
	8646 Jul 24 19:15				8648 Dec 31 05:06		
	8646 Aug 18 07:03	0∘ ত			8649 Jan 26 08:21	0°る	
	8646 Sep 12 03:59	0°M			8649 Feb 20 10:49	0° ≈	
	8646 Oct 07 15:13	0° ∡ ″			8649 Mar 17 00:03	0° ∀	
desc. node	8646 Oct 18 05:20	12° ∡ 10'41		desc. node	8649 Apr 04 01:23	22°)(19'46	
	8646 Nov 03 02:38	8°0			8649 Apr 10 05:28	$0^{\circ}\mathbf{\Upsilon}$	
	8646 Dec 01 16:07	0° ≈			8649 May 04 06:10	0°8	
evening max el	8646 Dec 04 23:59	3°≈14'11	45057122		8649 May 28 04:44	0°I	
evening max er			43 31 22	. ,	•		
	8647 Jan 08 16:28	0° ∀		morning set	8649 Jun 03 04:37	7° ∏ 30'51	
greatest brilliancy	8647 Jan 13 12:01	1° ¥ 58'48	-4.8m		8649 Jun 21 03:30	0 \circ \odot	
retrograde	8647 Jan 23 03:02	3°){ 41'47					
	8647 Feb 05 20:43	30° Ŗ ≈		superior conj	8649 Jul 12 15:20	26° © 50'25	-0°31'39
evening set	8647 Feb 06 15:57	29° ≈ 34'55		minimum elong	8649 Jul 12 22:38	27°513'09	0°31'31
asc. node	8647 Feb 08 05:19	28° ≈ 43'33		Č	8649 Jul 15 04:11	$0^{\circ}\Omega$	
inferior conj	8647 Feb 12 23:48	25°≈52'04	1°12'54	max. Earth dist.	8649 Jul 15 19:13	0° Ω 46'48	1.72108 AU
3							1.72106 AU
minimum elong	8647 Feb 12 21:00	25°≈56′22	1°12'08	asc. node	8649 Jul 25 22:48	13° Ω 24'31	
min. Earth dist.	8647 Feb 13 08:32	25° ≈ 38'36	0.27368 AU		8649 Aug 08 07:35	0°Щ	
morning rise	8647 Feb 19 01:22	22° ≈ 15'47		evening rise	8649 Aug 20 03:16	14° m 38'05	
direct	8647 Mar 05 20:41	17° ≈ 54'51			8649 Sep 01 13:59	0∘ ত	
greatest brilliancy	8647 Mar 16 11:40	20°≈01'23	-4.9m		8649 Sep 26 00:03	0°M₊	
· ·	8647 Apr 02 08:36	0° ∀			8649 Oct 20 15:12	0° ∡ ¹	
morning max el	8647 Apr 25 08:15	20°) 43′56	46°57'39	desc. node	8649 Nov 14 16:49	0° ろ 10'10	
morning max cr		20 γ (43 30	40 37 37	desc. flode		0°5 8°0	
	8647 May 04 07:00				8649 Nov 14 13:25		
desc. node	8647 May 30 23:57	29° Y '42'47			8649 Dec 09 20:59	0° ≈	
	8647 May 31 05:55	$8^{\circ 0}$			8650 Jan 04 18:07	0° ∀	
	8647 Jun 25 18:35	Π $^{\circ}0$			8650 Jan 31 17:59	$0^{\circ}\mathbf{\Upsilon}$	
	8647 Jul 20 17:29	0 \circ \mathfrak{S}		evening max el	8650 Feb 15 13:40	15° Y 22'49	46°42'25
	8647 Aug 14 10:48	$0^{\circ}\Omega$		•	8650 Mar 03 05:28	0°8	
	8647 Sep 08 01:33	0° m/		asc. node	8650 Mar 07 16:39	3° 8 42'23	
asc. node	8647 Sep 20 21:25	15° Mp 40'26		greatest brilliancy	8650 Mar 28 00:23	16° 8 02'15	-4.9m
asc. nouc		-					-4.7111
	8647 Oct 02 14:11	0∘ ⊽		retrograde	8650 Apr 06 20:40	17° 8 52'04	
morning set	8647 Oct 26 02:12	28° ≏ 51'17		evening set	8650 Apr 24 17:30	11° 8 43'56	
	8647 Oct 27 00:32	0°M₊		inferior conj	8650 Apr 27 11:23	10° 8 03'26	9°07'30
	8647 Nov 20 08:51	0° ∡ ¹		minimum elong	8650 Apr 27 08:13	10° 8 08'18	9°07'15
max. Earth dist.	8647 Nov 30 09:13	12° ∡ ¹21'49	1.73131 AU	min. Earth dist.	8650 Apr 27 07:44	10° 8 09'03	0.27102 AU
				morning rise	8650 Apr 29 23:00	8° 8 32'31	
superior conj	8647 Dec 01 15:14	13° ∡ °54'27	1°17'35	direct	8650 May 18 03:15	2° 8 15'56	
minimum elong	8647 Dec 01 22:43	14° 🖈 17'36		greatest brilliancy	8650 May 27 15:47	3° 8 59'30	-4.9m
minimum ciong			1 1/36	-	•		-4.7111
	8647 Dec 14 15:54	0°る		desc. node	8650 Jun 27 11:48	25° 8 12'54	
	8648 Jan 07 22:14	0° ≈			8650 Jul 02 13:56	Π $^{\circ}0$	
evening rise	8648 Jan 08 06:32	0° ≈ 25'40		morning max el	8650 Jul 07 10:17	4° ∏ 44'42	46°41'42
desc. node	8648 Jan 10 14:33	3° ≈ 18'56			8650 Jul 31 08:08	0 \circ \odot	
	8648 Feb 01 03:50	0° ∀			8650 Aug 26 20:14	$0^{\circ}\Omega$	
	8648 Feb 25 08:38	$0^{\circ}\Upsilon$			8650 Sep 21 11:57	0° m	
	8648 Mar 20 13:33	0°8			8650 Oct 16 16:18	0° 0	
	8648 Apr 13 21:26	0°II		asc. node	8650 Oct 18 09:44	0 = 2° ⊆ 04'26	
1				asc. Hour			
asc. node	8648 May 02 13:10	22° ∏ 45′01			8650 Nov 10 12:13	0° ™	
	8648 May 08 13:20	0°€			8650 Dec 05 01:29	0° ∡	
	8648 Jun 02 21:54	$0 {\circ} \Omega$			8650 Dec 29 09:54	0°ප	
	8648 Jun 29 17:50	0° m ⁄		morning set	8651 Jan 02 20:23	5° る 29'09	
evening max el	8648 Jul 12 07:13	12° m 57'25	46°18'11	-	8651 Jan 22 14:59	0° ≈	
8	8648 Jul 31 01:51	0∘ <u>⊽</u>		max. Earth dist.	8651 Feb 07 05:32	19° ≈ 24'41	1.72094 AU
greatest brilliancy	8648 Aug 20 00:18	0 = 12° £ 20'54	-4.8m	desc. node	8651 Feb 07 02:41	19°≈15'50	1.72077 AU
	•		- 1 .0111	uese. Hout	0031160 07 02.41	17 2013 30	
desc. node	8648 Aug 22 08:51	13° Ω 10'34			0.651 P. 1. 10	000 1	0005:15
retrograde	8648 Aug 31 02:04	14° £ 36'03		superior conj	8651 Feb 10 06:37	23° ≈ 12'19	
evening set	8648 Sep 16 05:55	9° £ 33'25		minimum elong	8651 Feb 10 04:47	23° ≈ 06'34	0°07'29
min. Earth dist.	8648 Sep 20 21:15	6° £ 44'59	0.28786 AU	behind sun begin	8651 Feb 09 06:38	21° ≈ 57'34	
inferior conj	8648 Sep 21 13:30	6° ₽ 19'36	-6°30'00	behind sun end	8651 Feb 11 02:55	24°≈15'34	
minimum elong	8648 Sep 21 03:30	6° Ω 35'14			8651 Feb 15 17:25	0° ∀	
morning rise	8648 Sep 26 01:23	3° ⊆ 34'42	3 20 01		8651 Mar 11 17:32	0° Υ	
morning 1150	*			avaniri			
t' i	8648 Oct 03 07:35	30°RM)		evening rise	8651 Mar 21 22:35	12° Y 47'21	
direct	8648 Oct 12 22:18	28° m 09'47			8651 Apr 04 16:05	0°8	
greatest brilliancy	8648 Oct 22 19:28	29° m 55'32	-4.7m		8651 Apr 28 14:50	Π $^{\circ}0$	
	8648 Oct 23 00:40	0。 ত			8651 May 22 16:27	0 \circ \odot	

asc. node	8651 May 31 00:52	10° © 20'55			8653 Dec 19 01:56	0° ∡ ¹	
	8651 Jun 15 23:58	$0^{\circ}\Omega$			8654 Jan 12 19:04	0°₹	
	8651 Jul 10 17:12	0° m			8654 Feb 06 04:09	0° ≈	
	8651 Aug 05 02:41	0∘ ত			8654 Mar 02 07:53	0° ∀	
	8651 Aug 31 19:22	0° M .		desc. node	8654 Mar 06 14:53	5° ¥ 21′06	
desc. node	8651 Sep 19 20:03	19° M 41'09		morning set	8654 Mar 16 12:16	17°) 42'34	
evening max el	8651 Sep 22 03:40	21°M56'19	45°43'53	morning sec	8654 Mar 26 07:48	0° Υ	
e vening max or	8651 Sep 30 20:14	0° %	15 15 55		8654 Apr 19 05:12	0°8	
greatest brilliancy	8651 Oct 31 02:30	20° ₹ 06'47	-4.7m		0034 Apr 17 03.12	٥ ن	
			-4./111		0654 4 26 06 40	00 - 2120	1027/27
retrograde	8651 Nov 09 21:59	21° 🖈 50'52		superior conj	8654 Apr 26 06:49	8° 8 53'20	
evening set	8651 Nov 27 15:29	15° ₹ 56'52		minimum elong	8654 Apr 26 02:55	8° 8 41'03	
inferior conj	8651 Dec 01 08:05	13° ₹ 39'41		max. Earth dist.	8654 Apr 25 20:46	8° 8 21'43	1.71228 AU
minimum elong	8651 Dec 01 15:53	13° ∡ ¹27'26	7°50'40		8654 May 13 01:46	Π °0	
min. Earth dist.	8651 Dec 01 22:09	13° ∡ 17'35	0.28895 AU	evening rise	8654 Jun 05 20:19	29° Ⅱ 49'49	
morning rise	8651 Dec 05 16:07	10° ₹ 59'15			8654 Jun 05 23:34	0 \circ \odot	
direct	8651 Dec 22 20:13	5° ∡ ¹22'44		asc. node	8654 Jun 27 12:44	26°954'06	
greatest brilliancy	8652 Jan 02 18:20	7° ∡ ³33'59	-4.8m		8654 Jun 30 00:31	$0^{\circ}\Omega$	
asc. node	8652 Jan 10 19:46	11° ∡ ³31'49			8654 Jul 24 06:10	0° m y	
	8652 Feb 03 07:23	8°0			8654 Aug 17 18:16	0∘ ⊽	
morning max el	8652 Feb 10 14:49	7° る 03'35	46°18'27		8654 Sep 11 15:46	0° M .	
	8652 Mar 03 07:48	0° ≈			8654 Oct 07 04:08	0° ∡ ¹	
	8652 Mar 29 11:59	0° ∀		desc. node	8654 Oct 17 07:17	11° × 737'24	
	8652 Apr 23 13:52	0° Υ		dese. Hode	8654 Nov 02 17:55	0°る	
desc. node	•	9° Υ 43'05				0°≈	
desc. Hode	8652 May 01 13:42				8654 Dec 01 13:53		45°56'08
	8652 May 18 02:51	0° B		evening max el	8654 Dec 02 14:00	0°≈58'06	
	8652 Jun 11 09:35	0° I I		greatest brilliancy	8655 Jan 11 01:26	29° ≈ 39'30	-4.8m
	8652 Jul 05 14:11	0°€			8655 Jan 12 02:38	0° ∀	
	8652 Jul 29 19:04	$0^{\circ}\Omega$		retrograde	8655 Jan 20 17:00	1°) 22'49	
morning set	8652 Aug 14 14:30	19° Ω 34'07			8655 Jan 28 23:34	30°R ≈	
asc. node	8652 Aug 22 10:56	29° Ω 16'32		evening set	8655 Feb 04 06:00	27° ≈ 14'52	
	8652 Aug 23 01:01	0° m		asc. node	8655 Feb 07 07:14	25° ≈ 31'25	
	8652 Sep 16 07:52	0。 ত		inferior conj	8655 Feb 10 13:38	23° ≈ 32′21	0°49'56
				minimum elong	8655 Feb 10 11:43	23° ≈ 35'19	0°49'27
superior conj	8652 Sep 21 05:18	6° ഫ 02'21	1°03'55	min. Earth dist.	8655 Feb 10 23:11	23° ≈ 17'40	0.27409 AU
minimum elong	8652 Sep 20 19:50	5° £ 33'08	1°03'37	morning rise	8655 Feb 16 16:46	19° ≈ 54'14	
max. Earth dist.	8652 Sep 22 09:12	7° £ 28'24	1.73155 AU	direct	8655 Mar 03 11:04	15° ≈ 34'18	
	8652 Oct 10 15:29	0°M		greatest brilliancy	8655 Mar 14 03:10	17° ≈ 42'16	-4.9m
evening rise	8652 Oct 27 16:06	20°M58'04		· ·	8655 Apr 02 22:32	0° ¥	
	8652 Nov 04 00:20	0° ∡ 7		morning max el	8655 Apr 22 23:16	18° ¥ 25′08	46°57'03
	8652 Nov 28 11:08	0°ප			8655 May 04 02:05	0°Υ	
desc. node	8652 Dec 12 04:35	16° පි 47'31		desc. node	8655 May 30 02:04	29° Y ′05'43	
dese. Hode	8652 Dec 23 00:19	0°≈		dese. Hode	8655 May 30 20:49	0°8	
	8653 Jan 16 15:54	0° ∀			8655 Jun 25 07:40	0°II	
		0° Υ				0°©	
	8653 Feb 10 10:42				8655 Jul 20 05:33		
	8653 Mar 07 12:39	8°0			8655 Aug 13 22:12	0°O	
	8653 Apr 02 08:34	0°Ⅱ			8655 Sep 07 12:30	0° m)	
asc. node	8653 Apr 04 03:46	2° ∏ 02'02		asc. node	8655 Sep 19 23:20	15° m 13'22	
evening max el	8653 Apr 29 11:21	29° Ⅱ 15'48	46°5′/'00		8655 Oct 02 00:50	0∘ ⊽	
	8653 Apr 30 04:55	0ಂ ತಾ		morning set	8655 Oct 23 19:38	26° ≏ 45'07	
	8653 Jun 08 09:09	$0^{\circ}\Omega$			8655 Oct 26 10:59	0°M₊	
greatest brilliancy	8653 Jun 08 13:47	0° Ω 04'20	-4.9m		8655 Nov 19 19:14	0° ∡	
retrograde	8653 Jun 18 22:02	2° Ω 04'51		max. Earth dist.	8655 Nov 28 06:39	10° ∡ ′27′38	1.73153 AU
	8653 Jun 29 01:39	30° ₹ 5					
evening set	8653 Jul 04 09:02	27° © 24'51		superior conj	8655 Nov 29 08:30	11° ×7 47'27	1°18'57
inferior conj	8653 Jul 09 20:45	24° © 07'41	3°43'46	minimum elong	8655 Nov 29 15:31	12° ₹ '09'06	1°19'01
minimum elong	8653 Jul 10 04:42	23° © 55'24	3°41'15		8655 Dec 14 02:20	0° ට	
min. Earth dist.	8653 Jul 09 17:46	24° © 12'18	0.27450 AU	evening rise	8656 Jan 05 22:04	28° る 12'35	
morning rise	8653 Jul 16 00:44	20°©28'55		-	8656 Jan 07 08:49	0° ≈	
desc. node	8653 Jul 24 23:17	16°956'25		desc. node	8656 Jan 09 16:33	2°≈52'18	
direct	8653 Jul 30 17:15	16°5516'49			8656 Jan 31 14:39	0° ∀	
greatest brilliancy	8653 Aug 09 13:28	18°903'18	-4.8m		8656 Feb 24 19:42	0° Υ	
J. Janes Grandine,	8653 Aug 29 19:53	0°Ω			8656 Mar 20 00:59	0°8	
morning max el	8653 Sep 17 20:19	16° Ω 43'33	45°56'15		8656 Apr 13 09:22	0°II	
orining must of	8653 Oct 01 02:21	0° m	15 55 15	asc. node	8656 May 01 15:14	22° Ⅱ 13'18	
	8653 Oct 28 18:02	0∘ ʊ 0 ıılı		asc. nouc	8656 May 08 02:08	22 п 13 18	
asa nada					•		
asc. node	8653 Nov 14 22:05	19° Ω 36'13			8656 Jun 02 12:20	0° Ω	
	8653 Nov 23 20:10	0° M .			8656 Jun 29 12:08	0° m)	

evening max el	8656 Jul 09 23:21	10° m 44'45	46°19'50		8658 Dec 28 20:33	8°0	
evening max er	8656 Jul 31 13:33	0° <u>م</u>	40 1750	morning set	8658 Dec 31 12:36	。3°る17'57	
greatest brilliancy	8656 Aug 17 15:22	0 — 10° Ω 08'17	-4.8m	morning sec	8659 Jan 22 01:37	0°≈	
desc. node	8656 Aug 21 10:48	11° Ω 23'38		max. Earth dist.	8659 Feb 04 18:06	17° ≈ 01'17	1.72138 AU
retrograde	8656 Aug 28 18:45	12° Ω 24'40		desc. node	8659 Feb 06 04:33	18° ≈ 48'32	
evening set	8656 Sep 13 18:54	7° Ω 26'16					
min. Earth dist.	8656 Sep 18 12:06	4° Ω 35'13	0.28740 AU	superior conj	8659 Feb 07 20:21	20°≈52'26	-0°04'04
inferior conj	8656 Sep 19 05:13	4° ჲ 08'29	-6°16'23	minimum elong	8659 Feb 07 19:24	20° ≈ 49'28	0°03'52
minimum elong	8656 Sep 18 19:10	4° £ 24'11	6°14'17	behind sun begin	8659 Feb 06 19:20	19° ≈ 34'30	
morning rise	8656 Sep 23 19:52	1° ≏ 19'55		behind sun end	8659 Feb 08 19:29	22° ≈ 04'27	
	8656 Sep 26 05:22	30°R. Mp			8659 Feb 15 04:06	0°) €	
direct	8656 Oct 10 14:09	25° m 59'30			8659 Mar 11 04:18	0° Y	
greatest brilliancy	8656 Oct 20 09:37	27° m 44'15	-4.7m	evening rise	8659 Mar 19 10:49	10° Y 21′21	
	8656 Oct 25 20:04	0∘ ⊽			8659 Apr 04 03:00	9° 8	
morning max el	8656 Nov 28 09:36	25° ≏ 53'59	45°43'04		8659 Apr 28 01:57	Π $^{\circ}0$	
	8656 Dec 02 14:25	0° M			8659 May 22 03:49	0 \circ \odot	
asc. node	8656 Dec 12 10:07	10°M01'05		asc. node	8659 May 30 02:51	9° © 51'37	
	8656 Dec 30 19:59	0° ∡			8659 Jun 15 11:42	$0 {\circ} \Omega$	
	8657 Jan 25 21:11	0°ප			8659 Jul 10 05:35	0° m	
	8657 Feb 19 22:44	0° ≈			8659 Aug 04 16:23	0∘ ⊽	
	8657 Mar 16 11:29	0° ∀			8659 Aug 31 12:05	0°M₊	
desc. node	8657 Apr 03 03:22	21° 米 51'09		desc. node	8659 Sep 18 22:03	18°M53'31	
	8657 Apr 09 16:37	0° Υ		evening max el	8659 Sep 19 17:52	19° M 41'29	45°44'20
	8657 May 03 17:07	0°B			8659 Sep 30 23:37	0°⊀	
	8657 May 27 15:31	0°П		greatest brilliancy	8659 Oct 28 17:54	17° ∡ 756'19	-4.7m
morning set	8657 May 31 16:29	5° ∏ 03'52		retrograde	8659 Nov 07 13:02	19° ∡ ¹40'29 −	
	8657 Jun 20 14:11	0		evening set	8659 Nov 25 09:30	13° ∡ ′42'51	
				inferior conj	8659 Nov 29 00:02	11°×28'48	
superior conj	8657 Jul 10 04:38	24°\$29'04		minimum elong	8659 Nov 29 07:16	11° × 17'23	7°58'50
minimum elong	8657 Jul 10 12:38	24°553'59		min. Earth dist.	8659 Nov 29 13:34	11° × 707'29	0.28930 AU
max. Earth dist.	8657 Jul 13 11:20	28° © 34'21	1.72065 AU	morning rise	8659 Dec 03 04:52	8° ₹ 52'53	
1	8657 Jul 14 14:49	0°Ω		direct	8659 Dec 20 11:51	3° ₹ 11′29	4.0
asc. node	8657 Jul 25 00:39	12° Ω 57'19		greatest brilliancy	8659 Dec 31 10:13	5° 🗷 22'18	-4.8m
	8657 Aug 07 18:13	0°M)		asc. node	8660 Jan 09 21:38	10° ₹ 10'56	
evening rise	8657 Aug 17 19:10	12° ™ 25'58 0° ₽		morning max el	8660 Feb 03 07:44	0°궁 4° 궁 45'25	46°16'59
	8657 Sep 01 00:40 8657 Sep 25 10:53	0° ™		morning max er	8660 Feb 08 04:54 8660 Mar 03 00:05	4 O 43 23 0° ≈	40 10 39
	8657 Oct 20 02:22	0° ⊼ ¹			8660 Mar 29 01:42	0 ∞ 0° ∀	
desc. node	8657 Nov 13 18:55	29° ∡ ¹41'20			8660 Apr 23 02:23	0°Υ	
desc. Hode	8657 Nov 14 01:10	0°る		desc. node	8660 Apr 30 15:48	9° Υ 11'59	
	8657 Dec 09 09:44	0° ≈		desc. node	8660 May 17 14:44	0° 8	
	8658 Jan 04 08:42	0° ∀			8660 Jun 10 21:04	0°II	
	8658 Jan 31 12:36	0°Υ			8660 Jul 05 01:23	0. 0	
evening max el	8658 Feb 13 03:54	13° Y '02'01	46°40'49		8660 Jul 29 06:01	$0^{\circ}\Omega$	
evening mun er	8658 Mar 03 15:29	0°8		morning set	8660 Aug 12 05:54	17° Ω 19'46	
asc. node	8658 Mar 06 18:34	2° 8 30'02		asc. node	8660 Aug 21 12:52	28° Ω 49'14	
greatest brilliancy	8658 Mar 25 13:03	13° 8 36'22	-4.9m		8660 Aug 22 11:46	0° m)	
retrograde	8658 Apr 04 09:23	15° 8 25'49			8660 Sep 15 18:31	0∘ ⊽	
evening set	8658 Apr 22 03:10	9° 8 22'51			•		
inferior conj	8658 Apr 25 00:07	7° 8 37'33	9°03'42	superior conj	8660 Sep 18 22:11	3° ჲ 53'28	1°01'39
minimum elong	8658 Apr 24 20:00	7° 8 43'53	9°03'20	minimum elong	8660 Sep 18 12:38	3° £ 24'01	1°01'19
min. Earth dist.	8658 Apr 24 20:01	7° 8 43'52	0.27095 AU	max. Earth dist.	8660 Sep 20 01:56	5° £ 19'07	1.73133 AU
morning rise	8658 Apr 27 12:54	6° 8 04'42			8660 Oct 10 02:09	0° M	
	8658 May 12 20:42	30° ₹Ƴ		evening rise	8660 Oct 25 09:22	18°M50'32	
direct	8658 May 15 16:16	29° Y 50'19			8660 Nov 03 11:07	0° ∡	
	8658 May 18 12:37	9° 8			8660 Nov 27 22:09	0°ಕ	
greatest brilliancy	8658 May 25 04:13	1° 8 33'12	-4.9m	desc. node	8660 Dec 11 06:31	16° る 19'15	
desc. node	8658 Jun 26 13:45	24° 8 13'43			8660 Dec 22 11:40	0° ≈	
	8658 Jul 02 14:23	Π °0			8661 Jan 16 03:44	0° ∀	
morning max el	8658 Jul 04 22:58	2° ∏ 19'53	46°43'01		8661 Feb 09 23:17	0° Υ	
	8658 Jul 31 00:45	0° ©			8661 Mar 07 02:30	0°8	
	8658 Aug 26 10:04	0° N		_	8661 Apr 02 00:53	0°П	
	8658 Sep 21 00:21	0° ™		asc. node	8661 Apr 03 05:50	1° Ⅱ 21′23	1.00 ======
	8658 Oct 16 03:52	0∘ ⊽		evening max el	8661 Apr 26 23:54	26° Ⅱ 50'03	46°57'26
asc. node	8658 Oct 17 11:45	1° Ω 35'48			8661 Apr 30 04:03	0.02	4.0
	8658 Nov 09 23:17	0°M		greatest brilliancy	8661 Jun 06 05:12	27°5544'06	-4.9m
	8658 Dec 04 12:16	0° ∡ 7		retrograde	8661 Jun 16 11:56	29° © 43'44	

evening set	8661 Jul 02 01:29	25°500'01			8663 Dec 13 13:09	0° る	
inferior conj	8661 Jul 07 10:33	21° © 46'59	4°04'53	evening rise	8664 Jan 03 13:23	25° る 57'41	
minimum elong	8661 Jul 07 19:06	21° © 33'47	4°02'13		8664 Jan 06 19:47	0° ≈	
min. Earth dist.	8661 Jul 07 08:33	21° © 50'03	0.27428 AU	desc. node	8664 Jan 08 18:22	2° ≈ 24'00	
morning rise	8661 Jul 13 13:00	18° © 10'23			8664 Jan 31 01:50	0° ∀	
desc. node	8661 Jul 24 01:14	14°9517'20			8664 Feb 24 07:12	0° Y	
direct	8661 Jul 28 06:10	13° © 56'06			8664 Mar 19 12:50	0°8	
greatest brilliancy	8661 Aug 07 03:41	15° © 43'44	-4.8m		8664 Apr 12 21:44	0°II	
greatest orimancy	8661 Aug 30 07:34	0°Ω	4.0111	asc. node	8664 Apr 30 17:13	21° Ⅱ 40′08	
			45057127	asc. node	•	0°95	
morning max el	8661 Sep 15 10:36	14° Ω 26'37	45°57'37		8664 May 07 15:22		
	8661 Sep 30 20:58	0° m y			8664 Jun 02 03:14	0° N	
	8661 Oct 28 08:32	0∘ ত			8664 Jun 29 07:10	0° m)	
asc. node	8661 Nov 14 00:06	19° ≏ 03'44		evening max el	8664 Jul 07 15:45	8° Mg 32'06	46°21'30
	8661 Nov 23 08:54	0°M			8664 Aug 01 05:36	0∘ 亚	
	8661 Dec 18 13:48	0° ∡ ¹		greatest brilliancy	8664 Aug 15 07:05	7° ≏ 55'59	-4.8m
	8662 Jan 12 06:27	0°る		desc. node	8664 Aug 20 12:46	9° ჲ 32'23	
	8662 Feb 05 15:18	0° ≈		retrograde	8664 Aug 26 11:17	10° ₽ 12'41	
	8662 Mar 01 18:54	0°) €		evening set	8664 Sep 11 08:12	5° ഫ 18'38	
desc. node	8662 Mar 05 16:54	4°) 53′03		min. Earth dist.	8664 Sep 16 03:19	2° £ 24'43	0.28695 AU
		15°) 14'10			•		
morning set	8662 Mar 13 23:48			inferior conj	8664 Sep 16 21:06	1° £ 56'55	
	8662 Mar 25 18:45	0° Υ		minimum elong	8664 Sep 16 11:04	2° ≏ 12'36	5°59'59
	8662 Apr 18 16:07	0°B			8664 Sep 20 00:53	30°R, MD	
max. Earth dist.	8662 Apr 23 04:22	5° 8 40'23	1.71231 AU	morning rise	8664 Sep 21 14:26	29° Mp 04'32	
				direct	8664 Oct 08 06:17	23° m 48'51	
superior conj	8662 Apr 23 18:06	6° 8 23'33	-1°25'54	greatest brilliancy	8664 Oct 17 23:52	25° m 32'12	-4.7m
minimum elong	8662 Apr 23 13:09	6° 8 08'00	1°25'58		8664 Oct 27 13:20	0∘ ত	
8	8662 May 12 12:41	0°П		morning max el	8664 Nov 26 01:01	23° ≏ 42'08	45°42'29
evening rise	8662 Jun 03 07:51	27° I I21'27		morning mun vi	8664 Dec 02 10:50	0°M	.5 .2 2
evening rise	8662 Jun 05 10:31	0°95		asc. node	8664 Dec 11 11:57	9°M18'42	
1				asc. node			
asc. node	8662 Jun 26 14:35	26° © 25'34			8664 Dec 30 11:05	0° ∡ ¹	
	8662 Jun 29 11:33	0 $^{\circ}$ Ω			8665 Jan 25 10:20	0°ප	
	8662 Jul 23 17:25	0° m p			8665 Feb 19 10:57	0° ≈	
	8662 Aug 17 05:52	0∘ ⊽			8665 Mar 15 23:14	0° ℋ	
	8662 Sep 11 04:00	0° M.		desc. node	8665 Apr 02 05:20	21° ∺ 21′29	
	8662 Oct 06 17:34	0° ∡ ¹			8665 Apr 09 04:04	$0^{\circ}\mathbf{\Upsilon}$	
desc. node	8662 Oct 16 09:22	11° ∡ ¹03'03			8665 May 03 04:23	0°B	
	8662 Nov 02 09:55	0°⋜			8665 May 27 02:38	0°II	
avaning may al	8662 Nov 30 04:42	28° る 42'42	45°55'00	morning set	8665 May 29 04:21	2° Ⅱ 35'52	
evening max el		28 0 4242 0° ≈	45 55 00	morning set		2 H 55 52	
1 :11:	8662 Dec 01 13:05		4.0		8665 Jun 20 01:11	0-99	
greatest brilliancy	8663 Jan 08 14:36	27°≈18'53	-4.8m				
retrograde	8663 Jan 18 06:59	29° ≈ 02′26		superior conj	8665 Jul 07 18:09	22° © 07'27	
evening set	8663 Feb 01 20:14	24° ≈ 53′23		minimum elong	8665 Jul 08 02:46	22° © 34'21	0°38'16
asc. node	8663 Feb 06 09:15	22° ≈ 15'51		max. Earth dist.	8665 Jul 11 03:53	26° 5 22'20	1.72014 AU
inferior conj	8663 Feb 08 03:22	21° ≈ 11'15	0°26'48		8665 Jul 14 01:44	$0^{\circ}\Omega$	
minimum elong	8663 Feb 08 02:20	21° ≈ 12'51	0°26'36	asc. node	8665 Jul 24 02:38	12° Ω 29'41	
min. Earth dist.	8663 Feb 08 13:33	20°≈55'35	0.27449 AU		8665 Aug 07 05:04	0° m	
morning rise	8663 Feb 14 07:51	17° ≈ 31'29		evening rise	8665 Aug 15 11:15	10° m) 13'39	
direct	8663 Mar 01 01:49	13°≈12'30		evening rise	8665 Aug 31 11:34	0∘ ⊽	
greatest brilliancy	8663 Mar 11 18:03	15°≈21'07	-4 9m		8665 Sep 24 21:57	0° ™	
greatest orimancy		0°) €	- - 7.7III		•	0° ∡ ⊓	
	8663 Apr 03 09:26		4605612.4		8665 Oct 19 13:49		
morning max el	8663 Apr 20 14:37	16°) €06'09	46°56'34	desc. node	8665 Nov 12 20:46	29° ∡ 10'46	
	8663 May 03 21:02	$0^{\circ}\Upsilon$			8665 Nov 13 13:17	0° ろ	
desc. node	8663 May 29 03:57	28° Y 27'32			8665 Dec 08 22:57	0° ≈	
	8663 May 30 11:49	9° 8			8666 Jan 03 23:52	0° ∀	
	8663 Jun 24 20:53	Π $^{\circ}0$			8666 Jan 31 08:09	0° Y	
	8663 Jul 19 17:48	0°ಲಾ		evening max el	8666 Feb 10 17:13	10° Ƴ 37'57	46°39'13
	8663 Aug 13 09:51	$0^{\circ}\Omega$		-	8666 Mar 04 05:31	0° ႘	
	8663 Sep 06 23:45	0° m)		asc. node	8666 Mar 05 20:38	1° 8 14'47	
asc. node	8663 Sep 19 01:21	14° Mp 45'36		greatest brilliancy	8666 Mar 23 02:17	11° 8 10'08	-4.9m
use. Houe	*	0∘ ʊ				12° 8 58'41	7.7111
mannist	8663 Oct 01 11:49			retrograde	8666 Apr 01 21:40		
morning set	8663 Oct 21 12:52	24° £ 37'10		evening set	8666 Apr 19 12:23	7° 8 01'34	0050::-
	8663 Oct 25 21:49	0° M		inferior conj	8666 Apr 22 12:51	5° 8 10'53	8°58'47
	8663 Nov 19 06:01	0° ∡		minimum elong	8666 Apr 22 07:50	5° 8 18'37	8°58'18
max. Earth dist.	8663 Nov 26 03:13	8° ₰ 29'41	1.73171 AU	min. Earth dist.	8666 Apr 22 08:44	5° 8 17'14	0.27089 AU
				morning rise	8666 Apr 25 03:19	3° 8 35'18	
superior conj	8663 Nov 27 01:33	9° ∡ ³38'35	1°20'12		8666 May 01 19:54	30° ₹Ƴ	
minimum elong	8663 Nov 27 08:01	9° ∡ ′58′33	1°20'17	direct	8666 May 13 04:40	27° Y ′23'39	
~					-		

greatest brilliancy	8666 May 22 17:21	29° Ƴ 06'39	-1 9m		8668 Nov 27 09:07	0°ರ	
greatest offinality	8666 May 25 01:05	0° 8	-4.9111	desc. node	8668 Dec 10 08:28	0 0 15° る 51'10	
desc. node	8666 Jun 25 15:39	23° 8 14'51		desc. Hode	8668 Dec 21 23:00	0°≈	
morning max el	8666 Jul 02 11:09	29° 8 52'45	46°44'30		8669 Jan 15 15:38	0° ₩	
morning max ci	8666 Jul 02 14:04	0°Π	40 44 30		8669 Feb 09 12:01	0° Υ	
	8666 Jul 30 17:20	0° ©			8669 Mar 06 16:36	0°8	
	8666 Aug 25 23:58	0°Ω			8669 Apr 01 17:38	0°II	
	8666 Sep 20 12:51	0° m)		asc. node	8669 Apr 02 07:47	0° П 39'34	
	8666 Oct 15 15:32	0∘ ⊽		evening max el	8669 Apr 24 13:18	24° Ⅱ 26'09	46°57'57
asc. node	8666 Oct 16 13:43	° - 1° - 06'41		evening max or	8669 Apr 30 04:25	0°95	10 37 37
use. Houe	8666 Nov 09 10:29	0°M		greatest brilliancy	8669 Jun 03 19:58	25°S22'43	-4.9m
	8666 Dec 03 23:13	0° ⊼ 7		retrograde	8669 Jun 14 02:16	27° © 22'11	1.5111
	8666 Dec 28 07:26	ਰ ਹ°ਰ		evening set	8669 Jun 29 17:59	22°534'27	
morning set	8666 Dec 29 04:48	1° る 06'03		inferior conj	8669 Jul 05 00:13	19° 5 25'43	4°25'35
	8667 Jan 21 12:30	0°≈		minimum elong	8669 Jul 05 09:20	19°511'41	4°22'49
max. Earth dist.	8667 Feb 02 07:18	14° ≈ 39'06	1.72186 AU	min. Earth dist.	8669 Jul 04 22:52	19°527'48	0.27405 AU
				morning rise	8669 Jul 11 00:56	15°951'51	
superior conj	8667 Feb 05 10:01	18° ≈ 31'37	-0°00'21	desc. node	8669 Jul 23 03:18	11°5643'29	
minimum elong	8667 Feb 05 09:59	18° ≈ 31'30	0°00'12	direct	8669 Jul 25 19:21	11°934'56	
behind sun begin	8667 Feb 04 09:35	17°≈15'33	0 0012	greatest brilliancy	8669 Aug 04 17:14	13°523'16	-4.8m
behind sun end	8667 Feb 06 10:23	19° ≈ 47'27		greatest erimane,	8669 Aug 30 16:10	0° Ω	
desc. node	8667 Feb 05 06:36	18° ≈ 20'56		morning max el	8669 Sep 13 01:49	12° Ω 12'05	45°59'03
acce. noue	8667 Feb 14 15:02	0° ∀		morning man vi	8669 Sep 30 15:03	0° m)	.5 5 5 55
	8667 Mar 10 15:19	0°Υ			8669 Oct 27 22:45	0∘ ⊽	
evening rise	8667 Mar 16 22:59	7° Υ 54'33		asc. node	8669 Nov 13 01:56	18° £ 31'13	
	8667 Apr 03 14:08	0°8			8669 Nov 22 21:26	0° M	
	8667 Apr 27 13:17	0°II			8669 Dec 18 01:27	0° ∡ 7	
	8667 May 21 15:24	0.ee			8670 Jan 11 17:38	0°ਰ	
asc. node	8667 May 29 04:43	9° 5 21'17			8670 Feb 05 02:14	0° ≈	
	8667 Jun 14 23:40	$0^{\circ}\Omega$			8670 Mar 01 05:46	0°) €	
	8667 Jul 09 18:14	0° m)		desc. node	8670 Mar 04 18:54	4°) € 25′26	
	8667 Aug 04 06:22	0∘ ⊽		morning set	8670 Mar 11 11:31	12°) 46′52	
	8667 Aug 31 05:14	0°M₊			8670 Mar 25 05:37	0° Υ	
evening max el	8667 Sep 17 07:58	17°M26'22	45°45'02		8670 Apr 18 02:59	0°8	
desc. node	-				-	_	1.710.41 4.77
	866 / Sep 18 00:0 /	18°11L05'16		max. Earth dist.	8670 Apr 20 13:14	3° 8 03'07	1.71241 AU
dese. Hode	8667 Sep 18 00:07 8667 Oct 01 04:49	18° M .05'16 0° ∡ 7		max. Earth dist.	8670 Apr 20 13:14	3° 8 03'07	1.71241 AU
	8667 Sep 18 00:07 8667 Oct 01 04:49 8667 Oct 26 08:58	0° ₹	-4.7m		-		
greatest brilliancy	8667 Oct 01 04:49 8667 Oct 26 08:58	0° ₰ 15° ₰ 45'58	-4.7m	superior conj	8670 Apr 21 05:03	3° 8 52'51	-1°24'59
greatest brilliancy retrograde	8667 Oct 01 04:49	0° ₹	-4.7m		8670 Apr 21 05:03 8670 Apr 20 23:07	3° 8 52'51 3° 8 34'12	-1°24'59
greatest brilliancy retrograde evening set	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34	0° 🖈 15° 🖈 45'58 17° 🖈 31'02 11° 🖈 29'45		superior conj minimum elong	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33	3° 8 52'51 3° 8 34'12 0° I I	-1°24'59
greatest brilliancy retrograde evening set inferior conj	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14	0° ₹ 15° ₹ 45'58 17° ₹ 31'02 11° ₹ 29'45 9° ₹ 18'38	-8°06'59	superior conj	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52	3° 8 52'51 3° 8 34'12	-1°24'59
greatest brilliancy retrograde evening set inferior conj minimum elong	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55	0° ₹ 15° ₹ 45'58 17° ₹ 31'02 11° ₹ 29'45 9° ₹ 18'38 9° ₹ 08'07	-8°06'59 8°06'05	superior conj minimum elong evening rise	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33	3°♥52'51 3°♥34'12 0°Ⅲ 24°Ⅲ51'30 0°☞	-1°24'59
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07	0° ₹ 15° ₹ 45′58 17° ₹ 31′02 11° ₹ 29′45 9° ₹ 18′38 9° ₹ 08′07 8° ₹ 58′23	-8°06'59	superior conj minimum elong	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25	3°♥52'51 3°♥34'12 0°Ⅲ 24°Ⅲ51'30 0°© 25°©57'39	-1°24'59
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55	0° 🖈 15° 🖈 45'58 17° 🖈 31'02 11° 🗷 29'45 9° 🖈 18'38 9° 🗷 08'07 8° 🗷 58'23 6° 🗷 47'11	-8°06'59 8°06'05	superior conj minimum elong evening rise	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 28 22:32	3°\S52'51 3°\S34'12 0°\II 24°\II51'30 0°\S 25°\S57'39 0°\Ω	-1°24'59
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37	0° ₹ 15° ₹ 45′58 17° ₹ 31′02 11° ₹ 29′45 9° ₹ 18′38 9° ₹ 08′07 8° ₹ 58′23 6° ₹ 47′11 1° ₹ 00′51	-8°06'59 8°06'05	superior conj minimum elong evening rise	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34	3°♥52'51 3°♥34'12 0°Ⅲ 24°Ⅲ51'30 0°© 25°©57'39	-1°24'59
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37 8667 Dec 29 02:33	0° 🖈 15° 🖈 45'58 17° 🖈 31'02 11° 🗷 29'45 9° 🖈 18'38 9° 🗷 08'07 8° 🗷 58'23 6° 🗷 47'11	-8°06'59 8°06'05 0.28967 AU	superior conj minimum elong evening rise	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34 8670 Aug 16 17:22	3°\52'51 3°\534'12 0°\I 24°\I51'30 0°\S 25°\S57'39 0°\O 0°\II	-1°24'59
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37	0° \$\tilde{x}^1 \\ 15° \$\tilde{x}^1 \\ 45' 58 \\ 17° \$\tilde{x}^3 \\ 102 \\ 11° \$\tilde{x}^2 \\ 29' \\ 50' \$\tilde{x}^3 \\ 9° \$\tilde{x}^3 \\ 6° \$\tilde{x}^3 \\ 6° \$\tilde{x}^4 \\ 11' \$\tilde{x}^3 \\ 3° \$\tilde{x}^3 \\ 11' \\ 40' \\ 3° \$\tilde{x}^3 \\ 3° \$	-8°06'59 8°06'05 0.28967 AU	superior conj minimum elong evening rise	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34	3°\52'51 3°\52'51 3°\534'12 0°\II 24°\II\51'30 0°\S 25°\S\57'39 0°\O 0°\IP 0°\IP	-1°24'59
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37 8667 Dec 29 02:33 8668 Jan 08 23:39	0° \$\times^4 \\ 15° \$\times^4 \\ 17° \$\times^3 \\ 11° \$\times^2 \\ 29' \\ 9° \$\times^1 \\ 8° \$\times^5 \\ 6° \$\times^4 \\ 10° \$\times^0 \\ 10° \$\times^1 \\ 10° \$\times^0 \\ 3° \$\times^1 \\ 8° \$\times^5 \\ 3° \$\times^1 \\ 8° \$\times^5 \\ 52' \\ 59' \\	-8°06'59 8°06'05 0.28967 AU	superior conj minimum elong evening rise	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34 8670 Aug 16 17:22 8670 Sep 10 16:09	3°\\$52'51 3°\\$34'12 0°\\$\\$1 24°\\$\\$151'30 0°\\$\\$25°\\$57'39 0°\\$\\$\\$0°\\$\\$\\$0°\\$\\$\\$0°\\$\\$\\$0°\\$\\$\\$0°\\$\\$\\$0°\\$\\$\\$0°\\$\\$\\$\\$	-1°24'59
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37 8667 Dec 29 02:33 8668 Jan 08 23:39 8668 Feb 03 07:04	0° 조 45'58 17° 조 45'58 17° 조 31'02 11° 조 29'45 9° 조 18'38 9° 조 08'07 8° 조 58'23 6° 조 47'11 1° 조 00'51 3° 조 11'40 8° 조 52'59 0° 중	-8°06'59 8°06'05 0.28967 AU -4.8m	superior conj minimum elong evening rise asc. node	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34 8670 Aug 16 17:22 8670 Sep 10 16:09 8670 Oct 06 06:56	3°\\$52'51 3°\\$34'12 0°\\$\\$1 24°\\$\\$151'30 0°\\$\\$25°\\$57'39 0°\\$\\$\\$0 0°\\$\\$\\$0 0°\\$\\$\\$\\$0 0°\\$\\$\\$\\$0 0°\\$\\$\\$\\$\\$0°\\$\\$\\$\\$\\$0°\\$\\$\\$\\$\\$0°\\$\\$\\$\\$	-1°24'59
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37 8667 Dec 29 02:33 8668 Jan 08 23:39 8668 Feb 03 07:04 8668 Feb 05 20:02	0° 조 45'58 17° 조 45'58 17° 조 31'02 11° 조 29'45 9° 조 18'38 9° 조 08'07 8° 조 58'23 6° 조 47'11 1° 조 00'51 3° 조 11'40 8° 조 52'59 0° 급 2° 급 29'43	-8°06'59 8°06'05 0.28967 AU -4.8m	superior conj minimum elong evening rise asc. node	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34 8670 Aug 16 17:22 8670 Sep 10 16:09 8670 Oct 06 06:56 8670 Oct 15 11:16	3°\\$52'51 3°\\$34'12 0°\\$\\$ 24°\\$\\$151'30 0°\\$\\$ 25°\\$57'39 0°\\$\\$0\\$\\$0\\$\\$\\$0\\$\\$\\$\\$0\\$\\$\\$\\$\\$0\\$\\$\\$\\$\\$\\$10°\\$\\$\\$\\$\\$10°\\$\\$\\$\\$28'27	-1°24'59
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37 8667 Dec 29 02:33 8668 Jan 08 23:39 8668 Feb 03 07:04 8668 Feb 05 20:02 8668 Mar 02 16:15	0° ₹ 15° ₹45'58 17° ₹31'02 11° ₹29'45 9° ₹18'38 9° ₹08'07 8° ₹58'23 6° ₹47'11 1° ₹00'51 3° ₹11'40 8° ₹52'59 0° ₹ 2° ₹29'43 0° €	-8°06'59 8°06'05 0.28967 AU -4.8m	superior conj minimum elong evening rise asc. node	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34 8670 Aug 16 17:22 8670 Oct 06 06:56 8670 Oct 15 11:16 8670 Nov 02 01:55	3°\\$52'\51 3°\\$34'\12 0°\\$\\$ 24°\\$\\$1\\$5\'30 0°\\$\\$ 25°\\$\\$5\\$7'\39 0°\\$\\$\\$0°\\$\\$\\$0°\\$\\$\\$\\$0°\\$\\$\\$\\$10°\\$\\$\\$\\$28'\27 0°\\$\\$\\$	-1°24'59 1°25'02
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37 8667 Dec 29 02:33 8668 Jan 08 23:39 8668 Feb 03 07:04 8668 Feb 05 20:02 8668 Mar 02 16:15 8668 Mar 28 15:28	0° ₹ 15° ₹45'58 17° ₹31'02 11° ₹29'45 9° ₹18'38 9° ₹08'07 8° ₹58'23 6° ₹47'11 1° ₹00'51 3° ₹11'40 8° ₹52'59 0° ₹ 2° ₹29'43 0° ≈ 0° ★	-8°06'59 8°06'05 0.28967 AU -4.8m	superior conj minimum elong evening rise asc. node	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34 8670 Aug 16 17:22 8670 Oct 06 06:56 8670 Oct 15 11:16 8670 Nov 02 01:55 8670 Nov 27 20:22	3°\\$52'51 3°\\$34'12 0°\\$\\$24°\\$\\$151'30 0°\\$\\$25°\\$57'39 0°\\$\\$0°\\$\\$0°\\$\\$0°\\$\\$\\$0°\\$\\$\\$10°\\$\\$\\$7\$28'27 0°\\$\\$26°\\$\\$30'38	-1°24'59 1°25'02
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37 8667 Dec 29 02:33 8668 Jan 08 23:39 8668 Feb 03 07:04 8668 Feb 05 20:02 8668 Mar 02 16:15 8668 Mar 28 15:28 8668 Apr 22 15:00	0° ₹ 15° ₹45'58 17° ₹31'02 11° ₹29'45 9° ₹18'38 9° ₹08'07 8° ₹58'23 6° ₹47'11 1° ₹00'51 3° ₹11'40 8° ₹52'59 0° ₹ 2° ₹29'43 0° ≈ 0° 升 0° ♀	-8°06'59 8°06'05 0.28967 AU -4.8m	superior conj minimum elong evening rise asc. node desc. node	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34 8670 Aug 16 17:22 8670 Oct 06 06:56 8670 Oct 15 11:16 8670 Nov 02 01:55 8670 Nov 27 20:22 8670 Dec 01 12:57	3°\\$52'51 3°\\$34'12 0°\\$\\$24°\\$\\$151'30 0°\\$\\$25°\\$57'39 0°\\$\\$0°\\$\\$0°\\$\\$0°\\$\\$\\$0°\\$\\$\\$10°\\$\\$\\$728'27 0°\\$\\$26°\\$\\$30'38 0°\\$\\$\\$0°\\$\\$	-1°24'59 1°25'02 45°54'00
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37 8667 Dec 29 02:33 8668 Jan 08 23:39 8668 Feb 03 07:04 8668 Feb 05 20:02 8668 Mar 02 16:15 8668 Mar 28 15:28 8668 Apr 29 17:43	0° ₹ 15° ₹45'58 17° ₹31'02 11° ₹29'45 9° ₹18'38 9° ₹08'07 8° ₹58'23 6° ₹47'11 1° ₹00'51 3° ₹11'40 8° ₹52'59 0° ₹ 2° ₹29'43 0° ≈ 0° 升 0° ♀	-8°06'59 8°06'05 0.28967 AU -4.8m	superior conj minimum elong evening rise asc. node desc. node evening max el greatest brilliancy retrograde	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34 8670 Aug 16 17:22 8670 Oct 06 06:56 8670 Oct 15 11:16 8670 Nov 02 01:55 8670 Nov 27 20:22 8670 Dec 01 12:57 8671 Jan 06 04:13	3°\852'51 3°\834'12 0°\\$\II 24°\\$\I\51'30 0°\\$\\$ 25°\\$\\$57'39 0°\\$\I\ 26°\\$\I\\$30'38 0°\\$\\$ 25°\\$\\$00'39	-1°24'59 1°25'02 45°54'00
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37 8667 Dec 29 02:33 8668 Jan 08 23:39 8668 Feb 03 07:04 8668 Feb 05 20:02 8668 Mar 02 16:15 8668 Mar 28 15:28 8668 Apr 29 17:43 8668 May 17 02:42	0° ₹ 15° ₹45'58 17° ₹31'02 11° ₹29'45 9° ₹18'38 9° ₹08'07 8° ₹58'23 6° ₹47'11 1° ₹00'51 3° ₹11'40 8° ₹52'59 0° ₹ 2° ₹29'43 0° ≈ 0° 升 0° ♀	-8°06'59 8°06'05 0.28967 AU -4.8m	superior conj minimum elong evening rise asc. node desc. node evening max el greatest brilliancy	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34 8670 Aug 16 17:22 8670 Oct 06 06:56 8670 Oct 15 11:16 8670 Nov 02 01:55 8670 Nov 27 20:22 8670 Dec 01 12:57 8671 Jan 06 04:13 8671 Jan 15 21:03	3°\852'51 3°\834'12 0°\\$\II 24°\\$\I51'30 0°\\$\\$ 25°\\$\\$57'39 0°\\$\I\ 0°\\$\I\ 0°\\$\I\ 0°\\$\I\ 0°\\$\I\ 10°\\$\Z28'27 0°\\$\Z28'27 0°\\$\Z28'27 0°\\$\Z28'27 0°\\$\Z28'27 0°\\$\Z28'27 0°\\$\Z28'27 0°\\$\Z28'4'01	-1°24'59 1°25'02 45°54'00
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37 8667 Dec 29 02:33 8668 Jan 08 23:39 8668 Feb 03 07:04 8668 Feb 05 20:02 8668 Mar 02 16:15 8668 Mar 28 15:28 8668 Apr 22 15:00 8668 Apr 29 17:43 8668 May 17 02:42 8668 Jun 10 08:37	0° ₹ 15° ₹45'58 17° ₹31'02 11° ₹29'45 9° ₹18'38 9° ₹08'07 8° ₹58'23 6° ₹47'11 1° ₹00'51 3° ₹11'40 8° ₹52'59 0° ₹ 2° ₹29'43 0° ≈ 0° 升 0° ♀ 8° ♀ 39'59 0° ₹ 0° ₽	-8°06'59 8°06'05 0.28967 AU -4.8m	superior conj minimum elong evening rise asc. node desc. node evening max el greatest brilliancy retrograde evening set	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34 8670 Aug 16 17:22 8670 Sep 10 16:09 8670 Oct 06 06:56 8670 Oct 15 11:16 8670 Nov 02 01:55 8670 Dec 01 12:57 8671 Jan 06 04:13 8671 Jan 15 21:03 8671 Jan 30 11:01	3°\852'51 3°\834'12 0°\\$\II 24°\\$\I51'30 0°\\$\25°\\$\57'39 0°\\$\O\\$\0000000000000000000000000000000	-1°24'59 1°25'02 45°54'00
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37 8667 Dec 29 02:33 8668 Jan 08 23:39 8668 Feb 03 07:04 8668 Feb 05 20:02 8668 Mar 02 16:15 8668 Mar 28 15:28 8668 Apr 22 15:00 8668 Apr 29 17:43 8668 May 17 02:42 8668 Jun 10 08:37 8668 Jul 04 12:37	0° ₹ 15° ₹45'58 17° ₹31'02 11° ₹29'45 9° ₹18'38 9° ₹08'07 8° ₹58'23 6° ₹47'11 1° ₹00'51 3° ₹11'40 8° ₹52'59 0° ₹ 2° ₹29'43 0° € 0° ♀ 0° ♀ 0° ♀ 0° ♀ 0° ♀ 0° ♀ 0° ♀	-8°06'59 8°06'05 0.28967 AU -4.8m	superior conj minimum elong evening rise asc. node desc. node evening max el greatest brilliancy retrograde evening set asc. node	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34 8670 Aug 16 17:22 8670 Sep 10 16:09 8670 Oct 06 06:56 8670 Oct 15 11:16 8670 Nov 02 01:55 8670 Dec 01 12:57 8671 Jan 06 04:13 8671 Jan 15 21:03 8671 Jan 30 11:01 8671 Feb 05 11:15	3°\\$52'51 3°\\$34'12 0°\\$\\$ 26°\\$\\$51'30 0°\\$\\$ 25°\\$57'39 0°\\$\\$0°\\$\\$ 0°\\$\\$\\$0°\\$\\$\\$ 0°\\$\\$\\$\\$0°\\$\\$\\$ 10°\\$\\$\\$28'27 0°\\$\\$\\$28'27 0°\\$\\$28'27 26°\\$\\$30'38 0°\\$\\$25°\\$\\$00'39 26°\\$\\$44'01 22°\\$\\$33'57 19°\\$\\$01'49	-1°24'59 1°25'02 45°54'00 -4.8m
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37 8667 Dec 29 02:33 8668 Jan 08 23:39 8668 Feb 03 07:04 8668 Feb 05 20:02 8668 Mar 02 16:15 8668 Mar 28 15:28 8668 Apr 22 15:00 8668 Apr 29 17:43 8668 May 17 02:42 8668 Jun 10 08:37 8668 Jul 04 12:37 8668 Jul 28 17:01	0° \$\frac{1}{5}^\circ \text{31}'02 11° \$\frac{1}{2}'29'45 9° \$\frac{1}{3}'8'38 9° \$\frac{1}{3}'8'58'23 6° \$\frac{1}{4}'7'11 1° \$\frac{1}{3}'00'51 3° \$\frac{1}{3}'11'40 8° \$\frac{1}{3}'52'59 0° \$\frac{1}{3}'00'51 2° \$\frac{1}{3}'00'51 2° \$\frac{1}{3}'00'51 2° \$\frac{1}{3}'00'51 2° \$\frac{1}{3}'00'51 0° \$\fr	-8°06'59 8°06'05 0.28967 AU -4.8m	superior conj minimum elong evening rise asc. node desc. node evening max el greatest brilliancy retrograde evening set asc. node inferior conj	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34 8670 Aug 16 17:22 8670 Sep 10 16:09 8670 Oct 06 06:56 8670 Oct 15 11:16 8670 Nov 02 01:55 8670 Nov 27 20:22 8670 Dec 01 12:57 8671 Jan 06 04:13 8671 Jan 15 21:03 8671 Feb 05 11:15 8671 Feb 05 17:26	3°\852'51 3°\834'12 0°\\$\\$ 26°\\$\\$51'30 0°\\$\\$ 25°\\$57'39 0°\\$\\$0°\\$\\$0°\\$\\$0°\\$\\$0°\\$\\$\\$0°\\$\\$\\$10°\\$\\$28'27 0°\\$\\$26°\\$\\$30'38 0°\\$\\$25°\\$\\$00'39 26°\\$\\$44'01 22°\\$\\$33'57 19°\\$\\$01'49 18°\\$\\$52'17	-1°24'59 1°25'02 45°54'00 -4.8m
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37 8667 Dec 29 02:33 8668 Jan 08 23:39 8668 Feb 03 07:04 8668 Feb 05 20:02 8668 Mar 02 16:15 8668 Mar 28 15:28 8668 Apr 22 15:00 8668 Apr 29 17:43 8668 May 17 02:42 8668 Jun 10 08:37 8668 Jul 04 12:37 8668 Jul 28 17:01 8668 Aug 09 21:14	0° ₹ 15° ₹45'58 17° ₹31'02 11° ₹29'45 9° ₹18'38 9° ₹08'07 8° ₹58'23 6° ₹47'11 1° ₹00'51 3° ₹11'40 8° ₹52'59 0° ₹ 2° ₹29'43 0° ≈ 0° ¥ 0° ¥ 0° ¥ 0° ¶ 0° £ 0° Ω 15° Ω04'57	-8°06'59 8°06'05 0.28967 AU -4.8m	superior conj minimum elong evening rise asc. node desc. node evening max el greatest brilliancy retrograde evening set asc. node inferior conj minimum elong	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34 8670 Aug 16 17:22 8670 Oct 06 06:56 8670 Oct 06 06:56 8670 Oct 15 11:16 8670 Nov 02 01:55 8670 Nov 27 20:22 8670 Dec 01 12:57 8671 Jan 06 04:13 8671 Jan 15 21:03 8671 Feb 05 17:26 8671 Feb 05 17:17	3°\\$52'51 3°\\$34'12 0°\\$\\$1 24°\\$\\$151'30 0°\\$\\$25°\\$57'39 0°\\$\\$0°\\$\\$0°\\$\\$0°\\$\\$1 0°\\$\\$\\$10°\\$\\$28'27 0°\\$\\$26°\\$\\$30'38 0°\\$\\$25°\\$\\$00'39 26°\\$\\$44'01 22°\\$\\$33'57 19°\\$\\$01'49 18°\\$\\$52'17 18°\\$\\$52'31	-1°24'59 1°25'02 45°54'00 -4.8m 0°03'56 0°04'02
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37 8667 Dec 29 02:33 8668 Jan 08 23:39 8668 Feb 03 07:04 8668 Feb 05 20:02 8668 Mar 02 16:15 8668 Mar 28 15:28 8668 Apr 22 15:00 8668 Apr 29 17:43 8668 May 17 02:42 8668 Jun 10 08:37 8668 Jul 04 12:37 8668 Jul 04 12:37 8668 Aug 09 21:14 8668 Aug 09 21:14	0° ₹ 15° ₹45'58 17° ₹31'02 11° ₹29'45 9° ₹18'38 9° ₹08'07 8° ₹58'23 6° ₹47'11 1° ₹00'51 3° ₹11'40 8° ₹52'59 0° ₹ 2° ₹529'43 0° ≈ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 15° ₹004'57 28° ₹22'03	-8°06'59 8°06'05 0.28967 AU -4.8m	superior conj minimum elong evening rise asc. node desc. node evening max el greatest brilliancy retrograde evening set asc. node inferior conj minimum elong transit middle	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34 8670 Aug 16 17:22 8670 Oct 06 06:56 8670 Oct 15 11:16 8670 Nov 02 01:55 8670 Nov 27 20:22 8670 Dec 01 12:57 8671 Jan 06 04:13 8671 Jan 06 04:13 8671 Feb 05 17:26 8671 Feb 05 17:17	3°\\$52'51 3°\\$34'12 0°\\$\\$1 24°\\$\\$151'30 0°\\$\\$25°\\$57'39 0°\\$\\$0°\\$\\$0°\\$\\$0°\\$\\$0°\\$\\$10°\\$\\$728'27 0°\\$\\$26°\\$\\$30'38 0°\\$\\$25°\\$\\$00'38 26°\\$\\$44'01 22°\\$\\$33'57 19°\\$\\$01'49 18°\\$\\$52'17 18°\\$\\$52'31	-1°24'59 1°25'02 45°54'00 -4.8m 0°03'56 0°04'02
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greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node morning set asc. node	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 05 04:39 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37 8667 Dec 29 02:33 8668 Jan 08 23:39 8668 Feb 03 07:04 8668 Feb 05 20:02 8668 Mar 02 16:15 8668 Mar 28 15:28 8668 Apr 22 15:00 8668 Apr 29 17:43 8668 Apr 29 17:43 8668 Jul 04 12:37 8668 Jul 04 12:37 8668 Jul 04 12:37 8668 Aug 09 21:14 8668 Aug 20 14:55 8668 Aug 21 22:35 8668 Sep 16 15:11 8668 Sep 16 05:37	0° \$\frac{1}{2}\$ 15° \$\frac{1}{2}\$45'58 17° \$\frac{1}{2}\$2'45 9° \$\frac{1}{2}\$18'38 9° \$\frac{1}{2}\$08'07 8° \$\frac{1}{2}\$58'23 6° \$\frac{1}{2}\$47'11 1° \$\frac{1}{2}\$00'51 3° \$\frac{1}{2}\$11'40 8° \$\frac{1}{2}\$52'59 0° \$\frac{1}{2}\$29'43 0° \$\times\$ 0° \$\frac{1}{2}\$0"\$\frac{1}{2}\$9'43 0° \$\times\$ 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"\$\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"\$\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"\$\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"\$\frac{1}{2}\$0"\$\frac{1}{2}\$0"\$\frac{1}{2}\$0"\$\frac{1}{2}\$15'16	-8°06'59 8°06'05 0.28967 AU -4.8m 46°15'20	superior conj minimum elong evening rise asc. node desc. node desc. node evening max el greatest brilliancy retrograde evening set asc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34 8670 Aug 16 17:22 8670 Sep 10 16:09 8670 Oct 06 06:56 8670 Oct 15 11:16 8670 Nov 02 01:55 8670 Nov 27 20:22 8670 Dec 01 12:57 8671 Jan 06 04:13 8671 Jan 15 21:03 8671 Jan 30 11:01 8671 Feb 05 17:26 8671 Feb 05 17:17 8671 Feb 05 17:17 8671 Feb 05 13:20 8671 Feb 05 21:13 8671 Feb 06 04:09 8671 Feb 11 23:00 8671 Feb 11 23:00 8671 Feb 26 16:59	3°\852'51 3°\834'12 0°\\$\II 24°\\$\I51'30 0°\\$\\$ 25°\\$\\$57'39 0°\\$\I 0°\\$\II 10°\\$\IZ28'27 0°\\$\IZ 26°\\$\IZ30'38 0°\\$\Z 25°\\$\200'39 26°\\$\244'01 22°\\$\233'57 19°\\$\201'49 18°\\$\\$\\$\25'17 18°\\$\\$\\$52'31 18°\\$\\$\\$52'31 18°\\$\\$\\$52'31 18°\\$\\$52'31 18°\\$\\$52'31 18°\\$\\$52'31 18°\\$\\$52'31	-1°24'59 1°25'02 45°54'00 -4.8m 0°03'56 0°04'02 0°04'02
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node morning set asc. node	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 26 08:58 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37 8667 Dec 29 02:33 8668 Jan 08 23:39 8668 Feb 03 07:04 8668 Feb 05 20:02 8668 Mar 02 16:15 8668 Mar 22 15:00 8668 Apr 22 15:00 8668 Apr 29 17:43 8668 May 17 02:42 8668 Jun 10 08:37 8668 Jul 04 12:37 8668 Jul 04 12:37 8668 Aug 09 21:14 8668 Aug 20 14:55 8668 Aug 21 22:35 8668 Sep 16 15:11 8668 Sep 16 05:37 8668 Sep 17 18:49	0° \$\frac{1}{2}\$ 15° \$\frac{1}{2}\$45'58 17° \$\frac{1}{2}\$2'45 9° \$\frac{1}{2}\$18'38 9° \$\frac{1}{2}\$08'07 8° \$\frac{1}{2}\$58'23 6° \$\frac{1}{2}\$47'11 1° \$\frac{1}{2}\$00'51 3° \$\frac{1}{2}\$11'40 8° \$\frac{1}{2}\$52'59 0° \$\frac{1}{2}\$29'43 0° \$\times\$ 0° \$\frac{1}{2}\$0° \$\frac{1}{2}\$0'89 0° \$\frac{1}{2}\$0° \$\frac{1}{2}\$0'80 15° \$\frac{1}{2}\$04'57 28° \$\frac{1}{2}\$2'03 0° \$\frac{1}{2}\$0° \$\frac{1}{2}\$15'16 3° \$\frac{1}{2}\$10'04	-8°06'59 8°06'05 0.28967 AU -4.8m 46°15'20	superior conj minimum elong evening rise asc. node desc. node evening max el greatest brilliancy retrograde evening set asc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34 8670 Aug 16 17:22 8670 Sep 10 16:09 8670 Oct 06 06:56 8670 Oct 15 11:16 8670 Nov 02 01:55 8670 Nov 27 20:22 8670 Dec 01 12:57 8671 Jan 06 04:13 8671 Jan 15 21:03 8671 Jan 30 11:01 8671 Feb 05 17:26 8671 Feb 05 17:17 8671 Feb 05 17:17 8671 Feb 05 17:17 8671 Feb 05 13:20 8671 Feb 05 21:13 8671 Feb 06 04:09 8671 Feb 11 23:00 8671 Feb 12 26:00 8671 Feb 26 16:59 8671 Mar 09 08:53	3°\852'51 3°\834'12 0°\\$\II 24°\\$\I51'30 0°\\$\\$ 25°\\$57'39 0°\\$\Q\$ 0°\\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-1°24'59 1°25'02 45°54'00 -4.8m 0°03'56 0°04'02 0°04'02
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node morning set asc. node superior conj minimum elong max. Earth dist.	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 25 04:39 8667 Nov 25 04:39 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37 8667 Dec 29 02:33 8668 Jan 08 23:39 8668 Feb 03 07:04 8668 Feb 05 20:02 8668 Mar 02 16:15 8668 Mar 22 15:00 8668 Apr 22 15:00 8668 Apr 29 17:43 8668 May 17 02:42 8668 Jul 04 12:37 8668 Jul 04 12:37 8668 Jul 04 12:37 8668 Aug 09 21:14 8668 Aug 20 14:55 8668 Aug 21 22:35 8668 Sep 16 15:11 8668 Sep 16 05:37 8668 Sep 16 15:11	0° \$\frac{7}{15° \$\frac{7}{45'58}} 17° \$\frac{7}{31'02} 11° \$\frac{7}{29'45} 9° \$\frac{7}{8'8'58'23}} 9° \$\frac{7}{8'8'58'23}} 6° \$\frac{7}{47'11} 1° \$\frac{7}{90'51}} 3° \$\frac{7}{11'40} 8° \$\frac{7}{8'52'59}} 0° \$\frac{7}{20'25'29'43}} 0° \$\frac{7}{20'25'29'29'43}} 0° \$\frac{7}{20'25'29'29'29'29'29'29'29'29'29'29'	-8°06'59 8°06'05 0.28967 AU -4.8m 46°15'20	superior conj minimum elong evening rise asc. node desc. node desc. node evening max el greatest brilliancy retrograde evening set asc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct greatest brilliancy	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34 8670 Aug 16 17:22 8670 Sep 10 16:09 8670 Oct 06 06:56 8670 Oct 15 11:16 8670 Nov 02 01:55 8670 Dec 01 12:57 8671 Jan 06 04:13 8671 Jan 15 21:03 8671 Jan 30 11:01 8671 Feb 05 17:26 8671 Feb 05 17:17 8671 Feb 05 13:20 8671 Feb 06 04:09 8671 Feb 11 23:00 8671 Feb 12 23:00 8671 Feb 26 16:59 8671 Mar 09 08:53 8671 Apr 03 16:56	3°\852'51 3°\834'12 0°\\$\II 24°\\$\I51'30 0°\\$\sigma 25°\\$57'39 0°\\$\O\\$\\000000000000000000000000000000	-1°24'59 1°25'02 45°54'00 -4.8m 0°03'56 0°04'02 0°04'02 0.27490 AU -4.9m
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node morning set asc. node	8667 Oct 01 04:49 8667 Oct 26 08:58 8667 Nov 26 08:58 8667 Nov 23 03:34 8667 Nov 26 16:14 8667 Nov 26 22:55 8667 Nov 27 05:07 8667 Nov 30 18:05 8667 Dec 18 03:37 8667 Dec 29 02:33 8668 Jan 08 23:39 8668 Feb 03 07:04 8668 Feb 05 20:02 8668 Mar 02 16:15 8668 Mar 22 15:00 8668 Apr 22 15:00 8668 Apr 29 17:43 8668 May 17 02:42 8668 Jun 10 08:37 8668 Jul 04 12:37 8668 Jul 04 12:37 8668 Aug 09 21:14 8668 Aug 20 14:55 8668 Aug 21 22:35 8668 Sep 16 15:11 8668 Sep 16 05:37 8668 Sep 17 18:49	0° \$\frac{1}{2}\$ 15° \$\frac{1}{2}\$45'58 17° \$\frac{1}{2}\$2'45 9° \$\frac{1}{2}\$18'38 9° \$\frac{1}{2}\$08'07 8° \$\frac{1}{2}\$58'23 6° \$\frac{1}{2}\$47'11 1° \$\frac{1}{2}\$00'51 3° \$\frac{1}{2}\$11'40 8° \$\frac{1}{2}\$52'59 0° \$\frac{1}{2}\$29'43 0° \$\times\$ 0° \$\frac{1}{2}\$0° \$\frac{1}{2}\$0'89 0° \$\frac{1}{2}\$0° \$\frac{1}{2}\$0'80 15° \$\frac{1}{2}\$04'57 28° \$\frac{1}{2}\$2'03 0° \$\frac{1}{2}\$0° \$\frac{1}{2}\$15'16 3° \$\frac{1}{2}\$10'04	-8°06'59 8°06'05 0.28967 AU -4.8m 46°15'20	superior conj minimum elong evening rise asc. node desc. node desc. node evening max el greatest brilliancy retrograde evening set asc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct	8670 Apr 21 05:03 8670 Apr 20 23:07 8670 May 11 23:33 8670 May 31 18:52 8670 Jun 04 21:25 8670 Jun 25 16:35 8670 Jun 25 16:35 8670 Jun 28 22:32 8670 Jul 23 04:34 8670 Aug 16 17:22 8670 Sep 10 16:09 8670 Oct 06 06:56 8670 Oct 15 11:16 8670 Nov 02 01:55 8670 Nov 27 20:22 8670 Dec 01 12:57 8671 Jan 06 04:13 8671 Jan 15 21:03 8671 Jan 30 11:01 8671 Feb 05 17:26 8671 Feb 05 17:17 8671 Feb 05 17:17 8671 Feb 05 17:17 8671 Feb 05 13:20 8671 Feb 05 21:13 8671 Feb 06 04:09 8671 Feb 11 23:00 8671 Feb 12 26:00 8671 Feb 26 16:59 8671 Mar 09 08:53	3°\852'51 3°\834'12 0°\\$\II 24°\\$\I51'30 0°\\$\\$ 25°\\$57'39 0°\\$\Q\$ 0°\\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-1°24'59 1°25'02 45°54'00 -4.8m 0°03'56 0°04'02 0°04'02 0.27490 AU -4.9m

		00					
desc. node	8671 May 28 05:52	27° Y 50′13			8673 Dec 08 11:56	0° ≈	
	8671 May 30 02:27	$0^{\circ}S$			8674 Jan 03 14:53	0° ∀	
	8671 Jun 24 09:54	Π $\circ 0$			8674 Jan 31 03:50	0 ° Υ	
	8671 Jul 19 05:53	0 \circ \odot		evening max el	8674 Feb 08 06:01	8° Ƴ 13'57	46°37'48
	8671 Aug 12 21:19	$0^{\circ}\Omega$		asc. node	8674 Mar 04 22:37	29° Ƴ 58'37	
	8671 Sep 06 10:47	0° m			8674 Mar 04 23:22	0° ႘	
asc. node	8671 Sep 18 03:15	14° Mp 18'13		greatest brilliancy	8674 Mar 20 15:54	8° 8 46'08	-4.9m
	8671 Sep 30 22:34	0 o $\overline{\mathbf{v}}$		retrograde	8674 Mar 30 10:06	10° 8 33'55	
morning set	8671 Oct 19 05:59	22° ₽ 29'37		evening set	8674 Apr 16 21:29	4° 8 42'56	
morning sec	8671 Oct 25 08:24	0°M		inferior conj	8674 Apr 20 01:51	2° 8 46'33	8°52'52
	8671 Nov 18 16:31	0°×71		minimum elong	8674 Apr 19 19:56	_	8°52'15
Double died			1 72104 ATT	•	-	_	
max. Earth dist.	8671 Nov 23 22:16	6° ₹ 27'54	1.73184 AU	min. Earth dist.	8674 Apr 19 21:51	2° 8 52'42	0.27081 AU
		_		morning rise	8674 Apr 22 18:24	1° 8 07'44	
superior conj	8671 Nov 24 18:45	7° ≯ 31'06	1°21'20		8674 Apr 24 16:27	30° ₹ Υ	
minimum elong	8671 Nov 25 00:38	7° ҂ ¹49'16	1°21'26	direct	8674 May 10 16:57	24° Y 59'06	
	8671 Dec 12 23:42	0°ප		greatest brilliancy	8674 May 20 07:07	26° Ƴ 42'59	-4.9m
evening rise	8672 Jan 01 04:59	23° る 44'40			8674 May 27 13:02	$8^{\circ 0}$	
	8672 Jan 06 06:27	0° ≈		desc. node	8674 Jun 24 17:47	22° 8 19'36	
desc. node	8672 Jan 07 20:27	1°≈57'25		morning max el	8674 Jun 29 23:33	27° 8 27'40	46°45'48
	8672 Jan 30 12:42	0° ∀		Č	8674 Jul 02 12:06	$\Pi^{\circ}0$	
	8672 Feb 23 18:18	0° Υ			8674 Jul 30 09:09	0.ee	
	8672 Mar 19 00:19	0°8			8674 Aug 25 13:22	$0 {\circ} \Omega$	
		0°II			•		
	8672 Apr 12 09:47				8674 Sep 20 00:59	0° mp	
asc. node	8672 Apr 29 19:05	21° Ⅱ 07'25			8674 Oct 15 02:55	0∘ ⊽	
	8672 May 07 04:23	0ಂ ತಾ		asc. node	8674 Oct 15 15:36	0° ≏ 38'12	
	8672 Jun 01 18:06	$0 ^{\circ} \Omega$			8674 Nov 08 21:23	0°M	
	8672 Jun 29 02:36	0° m			8674 Dec 03 09:53	0° ∡ 7	
evening max el	8672 Jul 05 07:42	6° Mp 18′28	46°23'01	morning set	8674 Dec 26 20:51	28° ₹ 54'39	
	8672 Aug 02 03:14	0∘ ত			8674 Dec 27 18:00	0° ප	
greatest brilliancy	8672 Aug 12 23:19	5° £ 44'11	-4.8m		8675 Jan 20 23:03	0° ≈	
desc. node	8672 Aug 19 14:49	7° £ 36'53		max. Earth dist.	8675 Jan 30 22:37	12° ≈ 24'30	1.72232 AU
retrograde	8672 Aug 24 03:10	8° ഫ 00'20					
evening set	8672 Sep 08 21:22	3° ₽ 10'44		superior conj	8675 Feb 02 23:42	16° ≈ 11'53	0°03'21
min. Earth dist.	•	0° £ 13'30	0.28647 AU		8675 Feb 03 00:33	16°≈14'30	0°03'28
IIIII. Eartii dist.	8672 Sep 13 18:42		0.28047 AU	minimum elong			0 03 28
	8672 Sep 14 03:20	30°R, My	50.4511.4	behind sun begin	8675 Feb 02 00:28	14°≈59'34	
inferior conj	8672 Sep 14 12:44	29° m 45'17		behind sun end	8675 Feb 04 00:37	17° ≈ 29'26	
minimum elong	8672 Sep 14 02:47	0° £ 00′52	5°45'01	desc. node	8675 Feb 04 08:33	17° ≈ 54'06	
morning rise	8672 Sep 19 08:43	26° Mp 48′58			8675 Feb 14 01:38	0°) €	
direct	8672 Oct 05 21:49	21°M/38'13			8675 Mar 10 02:01	0 ° Υ	
greatest brilliancy	8672 Oct 15 14:13	23° Mp 20'24	-4.7m	evening rise	8675 Mar 14 11:24	5° Y 29'39	
	8672 Oct 28 17:31	0∘ ত			8675 Apr 03 00:57	0° ႘	
morning max el	8672 Nov 23 15:23	21° ≏ 28'28	45°42'04		8675 Apr 27 00:15	$\Pi^{\circ}0$	
Ü	8672 Dec 02 06:17	0°M			8675 May 21 02:35	0ಂಣ	
asc. node	8672 Dec 10 14:01	8°M38'17		asc. node	8675 May 28 06:46	8°952'45	
	8672 Dec 30 01:38	0° ∡ 7			8675 Jun 14 11:14	$0^{\circ}\Omega$	
	8673 Jan 24 23:02	°ੁੱਤ			8675 Jul 09 06:32	0° m)	
	8673 Feb 18 22:45	0°≈			8675 Aug 03 20:08	0° ت مار	
		0 ≈ 0° H			-		
	8673 Mar 15 10:32				8675 Aug 30 22:28	0°M	45045120
desc. node	8673 Apr 01 07:15	20°) 53′06		evening max el	8675 Sep 14 22:32	15°M12'59	45°45'38
	8673 Apr 08 15:04	0° Υ		desc. node	8675 Sep 17 02:02	17°M16'21	
	8673 May 02 15:11	$0^{\circ}S$			8675 Oct 01 12:03	0° ∡ ″	
morning set	8673 May 26 16:15	0° Ⅱ 09'07		greatest brilliancy	8675 Oct 23 23:18	13° ∡ ³34'58	-4.7m
	8673 May 26 13:20	Π $\circ 0$		retrograde	8675 Nov 02 20:30	15° ∡ ¹21'37	
	8673 Jun 19 11:50	0 \circ \odot		evening set	8675 Nov 20 21:13	9° ∡ 16'51	
				inferior conj	8675 Nov 24 08:14	7° ∡ ¹08'23	-8°13'19
superior conj	8673 Jul 05 07:23	19° © 45'57	-0°41'46	minimum elong	8675 Nov 24 14:18	6° ₹ '58'52	
minimum elong	8673 Jul 05 16:35	20°514'40		min. Earth dist.	8675 Nov 24 20:12	6° ∡ 749'37	0.29002 AU
max. Earth dist.	8673 Jul 08 18:00		1.71971 AU	morning rise	8675 Nov 28 07:13	4° √ 41'24	
Zurur uist.	8673 Jul 13 12:20	0°Ω			8675 Dec 08 05:11	30°RM	
asc. node	8673 Jul 23 04:39	12° Ω 03'05		direct	8675 Dec 15 19:33	28°M50'08	
asc. node				uncci			
	8673 Aug 06 15:40	0° m			8675 Dec 23 17:15	0° ∡ 7	4.0
evening rise	8673 Aug 13 02:43	8° mp 00'11		greatest brilliancy	8675 Dec 26 18:28	1°×701'00	-4.8m
	8673 Aug 30 22:12	0∘ ত		asc. node	8676 Jan 08 01:42	7° ∡ ³37'49	
	8673 Sep 24 08:47	0°M₊			8676 Feb 03 05:11	0°る	
	8673 Oct 19 01:02	0° ∡ ¹		morning max el	8676 Feb 03 11:49	0° る 16'25	46°13'46
desc. node	8673 Nov 11 22:45	28° х 41′23			8676 Mar 02 07:53	0° ≈	
	8673 Nov 13 01:09	万 °0			8676 Mar 28 04:50	0°) €	

	8676 Apr 22 03:16	$0^{\circ}\mathbf{\Upsilon}$			8678 Dec 01 14:12	0° ≈	
desc. node	8676 Apr 28 19:36	8° Y 08'54		greatest brilliancy	8679 Jan 03 18:15	0 ∞ 22°≈42'13	-4.8m
desc. flode		0° 8		-			-4.0111
	8676 May 16 14:20			retrograde	8679 Jan 13 10:28	24°≈24'35	
	8676 Jun 09 19:50	0°II		evening set	8679 Jan 28 01:52	20°≈13′26	0010155
	8676 Jul 03 23:31	0° ©		inferior conj	8679 Feb 03 07:22	16°≈32'32	
	8676 Jul 28 03:40	0° Ω		minimum elong	8679 Feb 03 08:05	16°≈31'26	
morning set	8676 Aug 07 12:50	12° Ω 51'52		min. Earth dist.	8679 Feb 03 18:57	16°≈14'37	0.27533 AU
asc. node	8676 Aug 19 16:46	27° Ω 55'18		asc. node	8679 Feb 04 13:11	15°≈46'30	
	8676 Aug 21 09:06	0° m		morning rise	8679 Feb 09 13:46	12° ≈ 49'39	
				direct	8679 Feb 24 07:42	8° ≈ 32'49	
superior conj	8676 Sep 14 08:12	29° Mp 36'53		greatest brilliancy	8679 Mar 06 23:59	10° ≈ 41'27	-4.9m
minimum elong	8676 Sep 13 22:42	29° m 07'33	0°56'28		8679 Apr 03 22:29	0° ∀	
	8676 Sep 14 15:41	0∘ ರಾ		morning max el	8679 Apr 15 19:32	11° ∺ 25′12	46°54'48
max. Earth dist.	8676 Sep 15 13:40		1.73091 AU		8679 May 03 09:07	0 ° $\mathbf{\Upsilon}$	
	8676 Oct 08 23:20	0°M₊		desc. node	8679 May 27 08:00	27° Ƴ 13'31	
evening rise	8676 Oct 20 20:35	14°MJ38'16			8679 May 29 17:00	9° 8	
	8676 Nov 02 08:29	0°⊀			8679 Jun 23 22:54	$\Pi^{\circ}0$	
	8676 Nov 26 19:58	0°₹			8679 Jul 18 17:59	0_{\circ} වෙ	
desc. node	8676 Dec 09 10:29	15° පි 23'41			8679 Aug 12 08:50	$0 {\circ} \Omega$	
	8676 Dec 21 10:13	0° ≈			8679 Sep 05 21:53	0° m	
	8677 Jan 15 03:25	0° ∀		asc. node	8679 Sep 17 05:10	13° m 50'35	
	8677 Feb 09 00:41	0 ° Υ			8679 Sep 30 09:23	0∘ ⊽	
	8677 Mar 06 06:40	$_{0\circ}$ 8		morning set	8679 Oct 16 23:26	20° £ 22'54	
asc. node	8677 Apr 01 09:43	29° 8 57'45			8679 Oct 24 19:02	0° M.	
	8677 Apr 01 10:31	$\Pi^{\circ}0$			8679 Nov 18 03:08	0° ∡ ¹	
evening max el	8677 Apr 22 03:49	22° Ⅱ 05'38	46°58'27	max. Earth dist.	8679 Nov 21 16:39	4° ∡ ¹23'46	1.73201 AU
-	8677 Apr 30 05:47	0°මෙ					
greatest brilliancy	8677 Jun 01 10:30	23° © 01'47	-4.9m	superior conj	8679 Nov 22 12:20	5° х 24'30	1°22'20
retrograde	8677 Jun 11 17:01	25° © 01'17		minimum elong	8679 Nov 22 17:37	5° ∡ 740'49	1°22'28
evening set	8677 Jun 27 10:41	20° © 09'33		· ·	8679 Dec 12 10:23	0°⋜	
inferior conj	8677 Jul 02 13:56	17°905'06	4°45'48	evening rise	8679 Dec 29 20:45	21° る 31'38	
minimum elong	8677 Jul 02 23:32	16°950'20	4°42'58	<i>y</i>	8680 Jan 05 17:20	0° ≈	
min. Earth dist.	8677 Jul 02 12:53	17°906'44	0.27379 AU	desc. node	8680 Jan 06 22:25	1°≈29'51	
morning rise	8677 Jul 08 12:41	13°934'20			8680 Jan 29 23:49	0°) €	
desc. node	8677 Jul 22 05:14	9°916'16			8680 Feb 23 05:44	0° Υ	
direct	8677 Jul 23 09:05	9° © 14'39			8680 Mar 18 12:07	0°8	
greatest brilliancy	8677 Aug 02 06:12	11°902'56	-4.8m		8680 Apr 11 22:11	0°II	
greatest orimancy	8677 Aug 30 21:57	0°Ω	-4.0111	asc. node	8680 Apr 28 21:09	20° ∏ 34'24	
morning max el	8677 Sep 10 17:24	9° Ω 59'13	46°00'24	asc. node	8680 May 06 17:47	0°95	
morning max ci	8677 Sep 30 08:24	0° m/y	40 0024		8680 Jun 01 09:26	$0 {\circ} \Omega$	
	8677 Oct 27 12:38	0∘ ⊽			8680 Jun 28 22:53	0°m)	
aga mada		0 == 17° £ 59'57		avanina may al		-•	16921126
asc. node	8677 Nov 12 03:59 8677 Nov 22 09:47	0° M		evening max el	8680 Jul 02 22:53 8680 Aug 03 09:38	4°№02'12 0° ⊆	46°24'36
	8677 Dec 17 13:01	0° ⊼ 1		greatest brilliancy	8680 Aug 10 16:05	ა = 3° ჲ 32'24	-4.8m
	8678 Jan 11 04:48	0°る		desc. node	8680 Aug 18 16:45	5° £ 36'42	-4.0111
	8678 Feb 04 13:11	0°≈			-	5° £ 47'45	
	8678 Feb 28 16:37	0 ≈ 0° ∺		retrograde evening set	8680 Aug 21 18:48 8680 Sep 06 10:49	1° ⊆ 02'14	
desc. node	8678 Mar 03 20:45	3° ∺ 57'25		evening set	8680 Sep 08 05:37	30°RM)	
morning set	8678 Mar 08 23:11	10° ∺ 19'35		min. Earth dist.	8680 Sep 11 10:38		0.28596 AU
morning set		10 γ (1933		inferior conj	8680 Sep 12 04:33	27° m 33'30	
	8678 Mar 24 16:26 8678 Apr 17 13:48	0° 8		3		27° m/48'55	
may Earth dist	•	0° 8 26'40	1.71248 AU	minimum elong	8680 Sep 11 18:42	-•	3 29 30
max. Earth dist.	8678 Apr 17 22:17	0 02040	1./1248 AU	morning rise	8680 Sep 17 03:06	24° Mp 33'15	
	0.770 A 10 15 54	1000000	1022154	direct	8680 Oct 03 12:56	19° Mp 27'16	4.7
superior conj	8678 Apr 18 15:54	1° 8 22'02		greatest brilliancy	8680 Oct 13 05:18	21° Mp 08'58	-4.7m
minimum elong	8678 Apr 18 09:03	1° 8 00'31	1°23'55		8680 Oct 29 14:07	0∘ ⊽	4504440
	8678 May 11 10:23	0°II		morning max el	8680 Nov 21 05:25	19° £ 13'30	45°41'49
evening rise	8678 May 29 05:49	22° I [21'28			8680 Dec 02 01:19	0°M	
	8678 Jun 04 08:17	0.20 0.20		asc. node	8680 Dec 09 16:01	7° M 57'44	
asc. node	8678 Jun 24 18:35	25° © 29'51			8680 Dec 29 16:12	0° ⊼	
	8678 Jun 28 09:29	0° N			8681 Jan 24 11:53	0° ට	
	8678 Jul 22 15:42	0° m)			8681 Feb 18 10:49	0° ≈	
	8678 Aug 16 04:50	0∘ ⊽		_	8681 Mar 14 22:11	0° ∀	
	8678 Sep 10 04:15	0° M ₊		desc. node	8681 Mar 31 09:14	20°) (23'43	
_	8678 Oct 05 20:21	0° ∡			8681 Apr 08 02:28	0° Υ	
desc. node	8678 Oct 14 13:16	9° ∡ 54'05			8681 May 02 02:24	0° 8	
	8678 Nov 01 18:15	0° ろ		morning set	8681 May 24 03:39	27° 8 39'34	
evening max el	8678 Nov 25 11:43	24° る 17'33	45°52'42		8681 May 26 00:25	$\Pi^{\circ}0$	

	8681 Jun 18 22:49	0ං ව		evening set	8683 Nov 18 14:49	7° ∡ ¹03'35	
				inferior conj	8683 Nov 22 00:21	4° ∡ 757'27	
superior conj	8681 Jul 02 20:26	17°522'45		minimum elong	8683 Nov 22 05:46	4° ∡ ¹48'57	
minimum elong	8681 Jul 03 06:10	17°553'09		min. Earth dist.	8683 Nov 22 10:59	4°×740'45	0.29032 AU
max. Earth dist.	8681 Jul 06 06:10		1.71923 AU	morning rise	8683 Nov 25 20:35	2° ∡ 734'49	
1	8681 Jul 12 23:16	0° Ω		T' A	8683 Nov 30 12:26	30°RM	
asc. node	8681 Jul 22 06:30	11° Ω 34'54		direct	8683 Dec 13 12:08	26°M38'59	4.0
evening rise	8681 Aug 06 02:34 8681 Aug 10 18:11	0° Т 5° Тр 45'39		greatest brilliancy	8683 Dec 24 09:54 8683 Dec 27 05:31	28° M .49'12 0° ∡ 7	-4.8m
evening rise	8681 Aug 30 09:11	ე∘ ი		asc. node	8684 Jan 07 03:33	6° ₹ ¹23'52	
	8681 Sep 23 19:58	0° m		morning max el	8684 Feb 01 04:21	28° × 04'25	46°12'17
	8681 Oct 18 12:35	0°×7'		morning max cr	8684 Feb 03 02:44	0°る	40 12 17
desc. node	8681 Nov 11 00:51	28° × 11'24			8684 Mar 01 23:31	0° ≈	
dese. Hode	8681 Nov 12 13:22	0°ਤ			8684 Mar 27 18:21	0° ₩	
	8681 Dec 08 01:17	0° ≈			8684 Apr 21 15:47	$0^{\circ}\Upsilon$	
	8682 Jan 03 06:24	0°) €		desc. node	8684 Apr 27 21:41	7° Ƴ 37'36	
	8682 Jan 31 00:33	$0^{\circ}\Upsilon$			8684 May 16 02:18	0°8	
evening max el	8682 Feb 05 18:29	5° Ƴ 48'11	46°36'07		8684 Jun 09 07:25	$0^{\circ}\Pi$	
asc. node	8682 Mar 04 00:32	28° Ƴ 38'27			8684 Jul 03 10:50	0ංම	
	8682 Mar 06 00:34	8°			8684 Jul 27 14:45	$0^{\circ}\Omega$	
greatest brilliancy	8682 Mar 18 04:47	6° 8 19'29	-4.9m	morning set	8684 Aug 05 04:00	10° Ω 35'58	
retrograde	8682 Mar 27 22:27	8° 8 07'18		asc. node	8684 Aug 18 18:44	27° Ω 27'32	
evening set	8682 Apr 14 06:00	2° 8 22'25			8684 Aug 20 20:01	O° m y	
inferior conj	8682 Apr 17 14:37	0° 8 19'59	8°45'50				
minimum elong	8682 Apr 17 07:52	0° 8 30'23	8°45'03	superior conj	8684 Sep 12 00:49	27° m 26'29	0°54'17
min. Earth dist.	8682 Apr 17 10:42		0.27080 AU	minimum elong	8684 Sep 11 15:25	26° m 57'27	0°53'53
	8682 Apr 18 03:35	30° ₹Ƴ		max. Earth dist.	8684 Sep 13 09:52	29° m 08'35	1.73066 AU
morning rise	8682 Apr 20 09:43	28° Ƴ 37'28			8684 Sep 14 02:31	0∘ ⊽	
direct	8682 May 08 05:15	22° Y 32'03			8684 Oct 08 10:10	0° M ₊	
greatest brilliancy	8682 May 17 20:50	24° Ƴ 17'11	-4.9m	evening rise	8684 Oct 18 14:05	12°M31'02	
	8682 May 29 04:13	0°8			8684 Nov 01 19:26	0° ∡	
desc. node	8682 Jun 23 19:41	21° 8 23'13	46047114		8684 Nov 26 07:08	0°る	
morning max el	8682 Jun 27 12:43	25° 8 02'38	46°47'14	desc. node	8684 Dec 08 12:26	14° る 54'55	
	8682 Jul 02 09:59	0° ©			8684 Dec 20 21:47	0° ≈ 0° ∀	
	8682 Jul 30 01:14 8682 Aug 25 03:05	0° U			8685 Jan 14 15:33 8685 Feb 08 13:39	0° Υ	
	8682 Sep 19 13:25	0° m p			8685 Mar 05 21:04	0° 8	
asc. node	8682 Oct 14 17:37	0° ₽ 09'05		asc. node	8685 Mar 31 11:48	29° 8 15'24	
asc. node	8682 Oct 14 14:36	0∘ ಹ ೧ – 0>03		asc. node	8685 Apr 01 03:57	0° Ⅱ	
	8682 Nov 08 08:38	0°M		evening max el	8685 Apr 19 18:54	19° ∏ 45'55	46°58'40
	8682 Dec 02 20:53	0° ∡ 7		0 · 0 · · · · · · · · · · · · · · · · ·	8685 Apr 30 08:52	0ංම	
morning set	8682 Dec 24 13:30	26° ∡ ⁴44'05		greatest brilliancy	8685 May 30 00:51	20°539'39	-4.9m
S	8682 Dec 27 04:53	0°ರ		retrograde	8685 Jun 09 07:29	22° © 38'49	
	8683 Jan 20 09:55	0° ≈		evening set	8685 Jun 25 03:24	17°543'10	
max. Earth dist.	8683 Jan 28 16:32	10° ≈ 17′07	1.72276 AU	inferior conj	8685 Jun 30 03:30	14°9542'58	5°05'41
				minimum elong	8685 Jun 30 13:32	14°527'33	5°02'47
superior conj	8683 Jan 31 13:55	13° ≈ 52'54	0°06'57	min. Earth dist.	8685 Jun 30 02:41	14°9544'14	0.27360 AU
minimum elong	8683 Jan 31 15:37	13° ≈ 58'11	0°07'02	morning rise	8685 Jul 06 00:01	11° © 15'28	
behind sun begin	8683 Jan 30 17:23	12° ≈ 49′00		direct	8685 Jul 20 23:04	6°952'57	
behind sun end	8683 Feb 01 13:52	15° ≈ 07'23		desc. node	8685 Jul 21 07:12	6° ॐ 53'05	
desc. node	8683 Feb 03 10:26	17°≈26'05		greatest brilliancy	8685 Jul 30 18:56	8°9540'37	-4.8m
	8683 Feb 13 12:33	0°) €			8685 Aug 31 02:23	0° Ω	
	8683 Mar 09 13:04	0° Υ		morning max el	8685 Sep 08 08:27	7° Ω 43'36	46°01'44
evening rise	8683 Mar 12 00:14	3° Y 05'01			8685 Sep 30 01:51	0° m/	
	8683 Apr 02 12:11	0° X		i	8685 Oct 27 02:44	0° ™	
	8683 Apr 26 11:40	0° ©		asc. node	8685 Nov 11 05:59	17° Ω 27'47	
asc. node	8683 May 20 14:17 8683 May 27 08:44	0°99 8°9522'19			8685 Nov 21 22:20 8685 Dec 17 00:46	0° M 0° ⊀	
asc. noue	8683 May 27 08:44 8683 Jun 13 23:22	8°€022'19 0° Ω			8686 Jan 10 16:06	0° ਨ ' 0°ਤ	
	8683 Jul 08 19:26	0° m p			8686 Feb 04 00:17	0°≈	
	8683 Aug 03 10:33	0∘ ত رااا			8686 Feb 28 03:37	0 ≈ 0° ∺	
	8683 Aug 30 16:37	0° M		desc. node	8686 Mar 02 22:47	3° ∺ 29'29	
evening max el	8683 Sep 12 13:57	13°ML00'35	45°46'27	morning set	8686 Mar 06 11:17	7° ¥ 53'13	
desc. node	8683 Sep 16 04:02	16°M25'42			8686 Mar 24 03:23	0° Υ	
	8683 Oct 01 22:37	0° ∡ 7		max. Earth dist.	8686 Apr 15 05:28		1.71255 AU
greatest brilliancy	8683 Oct 21 13:15	11° ₹ 22'50	-4.7m		1		
retrograde	8683 Oct 31 12:51	13° ∡ 11'30		superior conj	8686 Apr 16 03:13	28° Ƴ 52'24	-1°22'41
				·	-		

minimum elong	8686 Apr 15 19:31	28° Ƴ 28'12	1°22'38	greatest brilliancy	8688 Oct 10 20:59	18° m 58'17	-4.7m
	8686 Apr 17 00:44	0°8			8688 Oct 30 05:17	0∘ ত	
	8686 May 10 21:19	$\Pi^{\circ 0}$		morning max el	8688 Nov 18 19:36	16° ≏ 59'03	45°41'37
evening rise	8686 May 26 17:03	19° ∏ 51'51			8688 Dec 01 19:47	0° M	
	8686 Jun 03 19:15	0°€		asc. node	8688 Dec 08 17:53	7° M 17'31	
asc. node	8686 Jun 23 20:28	25° © 01'13			8688 Dec 29 06:30	0° ∡ 7	
	8686 Jun 27 20:35	$\Omega^{\circ}\Omega$			8689 Jan 24 00:32	ව°0 0°3	
	8686 Jul 22 03:01	0° m			8689 Feb 17 22:40	0° ≈	
	8686 Aug 15 16:32	0° ╟ 0° 亞		11-	8689 Mar 14 09:35	0° ∺ 19° ∺ 55'04	
	8686 Sep 09 16:39 8686 Oct 05 10:07	0° ∕ 7		desc. node	8689 Mar 30 11:13	19° π 33'04 0° Υ	
desc. node	8686 Oct 13 15:20	0 x · 9° ₹ 19'08			8689 Apr 07 13:35 8689 May 01 13:21	0° 8	
desc. Hode	8686 Nov 01 11:04	9×1900		morning set	8689 May 21 14:58	25° 8 10'22	
evening max el	8686 Nov 23 02:18	22° ろ 02'24	45°51'37	morning set	8689 May 25 11:16	0°II	
evening max er	8686 Dec 01 16:59	0°≈	13 3137		8689 Jun 18 09:35	0. 0.	
greatest brilliancy	8687 Jan 01 08:56	20°≈24'53	-4.8m		0009 0411 10 09.50	• •	
retrograde	8687 Jan 10 23:38	22°≈05'57		superior conj	8689 Jun 30 09:32	15°9500'24	-0°48'13
evening set	8687 Jan 25 17:07	17° ≈ 53'19		minimum elong	8689 Jun 30 19:44	15° © 32'16	
inferior conj	8687 Jan 31 21:35	14° ≈ 13'38	-0°41'32	max. Earth dist.	8689 Jul 03 16:21	19° © 06'28	1.71875 AU
minimum elong	8687 Jan 31 23:09	14°≈11'11	0°40'52		8689 Jul 12 09:56	$0^{\circ}\Omega$	
min. Earth dist.	8687 Feb 01 10:16	13° ≈ 53'58	0.27576 AU	asc. node	8689 Jul 21 08:30	11° Ω 07'58	
asc. node	8687 Feb 03 15:12	12° ≈ 32'41			8689 Aug 05 13:13	0°Щ	
morning rise	8687 Feb 07 04:34	10° ≈ 29′21		evening rise	8689 Aug 08 09:43	3°M 32'10	
direct	8687 Feb 21 22:11	6° ≈ 13'13			8689 Aug 29 19:53	0。 亚	
greatest brilliancy	8687 Mar 04 15:51	8° ≈ 22'39	-4.9m		8689 Sep 23 06:53	0° M	
	8687 Apr 04 02:05	0° ∀			8689 Oct 17 23:55	0° ∡ 7	
morning max el	8687 Apr 13 08:49		46°54'00	desc. node	8689 Nov 10 02:42	27° ∡ ⁴41'18	
	8687 May 03 02:34	0°Υ			8689 Nov 12 01:25	0°ಕ	
desc. node	8687 May 26 09:52	26° Y 36'33			8689 Dec 07 14:32	0° ≈	
	8687 May 29 07:20	0. R			8690 Jan 02 21:57	0°) €	
	8687 Jun 23 11:44	0° Ⅱ			8690 Jan 30 21:42	0° Υ	1.502.414
	8687 Jul 18 05:59	0° ©		evening max el	8690 Feb 03 07:27	3° Υ 24'41	46°34'42
	8687 Aug 11 20:17	0° Ω 0° ™		asc. node	8690 Mar 03 02:37 8690 Mar 07 11:16	27° Ƴ 16'57 0° ႘	
asc. node	8687 Sep 05 08:59 8687 Sep 16 07:12	13° Mp 23'14		greatest brilliancy	8690 Mar 15 17:03	3° 8 53'14	-4 9m
asc. Houc	8687 Sep 29 20:13	0° ⊡		retrograde	8690 Mar 25 11:23	5° 8 41'54	-4.9111
morning set	8687 Oct 14 16:34	0 — 18° Ω 14'59		evening set	8690 Apr 11 14:23	0° 8 03'03	
morning sec	8687 Oct 24 05:44	0°M		evening set	8690 Apr 11 16:28	30°RY	
	8687 Nov 17 13:46	0° ∡ 7		inferior conj	8690 Apr 15 03:24	27° Υ 54'24	8°37'49
max. Earth dist.	8687 Nov 19 09:11		1.73215 AU	minimum elong	8690 Apr 14 19:53	28° Y 05'57	
				min. Earth dist.	8690 Apr 14 23:11	28° Y 00'53	0.27079 AU
superior conj	8687 Nov 20 05:41	3° ∡ 17'10	1°23'13	morning rise	8690 Apr 18 01:21	26° Y 07'50	
minimum elong	8687 Nov 20 10:21	3° х ³31'32	1°23'21	direct	8690 May 05 18:05	20° Ƴ 06′07	
	8687 Dec 11 21:05	0°ರ		greatest brilliancy	8690 May 15 10:05	21° Y 52'04	-4.9m
evening rise	8687 Dec 27 12:22	19° る 18'22			8690 May 30 07:06	9° 8	
	8688 Jan 05 04:10	0° ≈		desc. node	8690 Jun 22 21:38	20° 8 29'12	
desc. node	8688 Jan 06 00:16	1° ≈ 02'06		morning max el	8690 Jun 25 02:49	22° 8 41'02	46°48'31
	8688 Jan 29 10:53	0°) €			8690 Jul 02 06:41	0°Щ	
	8688 Feb 22 17:05	0°Υ			8690 Jul 29 16:41	0° ©	
	8688 Mar 17 23:53	0° B			8690 Aug 24 16:19	$\Omega^{\circ}\Omega$	
asa nada	8688 Apr 11 10:33	0°П 20°П01'16		asc. node	8690 Sep 19 01:26 8690 Oct 13 19:35	0°M) 20°M 40'57	
asc. node	8688 Apr 27 23:08 8688 May 06 07:09	20° щ 01°16		asc. node	8690 Oct 13 19:33 8690 Oct 14 01:53	29° ™ 40'57 0° ≏	
	8688 Jun 01 00:49	0° U			8690 Nov 07 19:31	0° m	
	8688 Jun 28 19:39	0° m)			8690 Dec 02 07:33	0° ⊼ 1	
evening max el	8688 Jun 30 13:07	1° Mp 43'56	46°26'09	morning set	8690 Dec 22 05:59	24° х 34'02	
croming man of	8688 Aug 05 06:11	0∘ ʊ	10 2007	morning set	8690 Dec 26 15:29	24 x 3402 0°る	
greatest brilliancy	8688 Aug 08 08:28	1° ≏ 20'23	-4.8m		8691 Jan 19 20:31	0° ≈	
desc. node	8688 Aug 17 18:45	3° £ 32'17		max. Earth dist.	8691 Jan 26 09:29	8°≈07'32	1.72318 AU
retrograde	8688 Aug 19 10:14	3° £ 35′28					-
-	8688 Sep 01 22:33	30°R, Mp		superior conj	8691 Jan 29 03:51	11° ≈ 33'53	0°10'34
evening set	8688 Sep 04 00:15	28° m 53'27		minimum elong	8691 Jan 29 06:25	11° ≈ 41'50	0°10'37
min. Earth dist.	8688 Sep 09 02:39	25° m 49'26	0.28551 AU	behind sun begin	8691 Jan 28 11:51	10° ≈ 44′07	
inferior conj	8688 Sep 09 20:15	25° m 21'53		behind sun end	8691 Jan 30 00:58	12° ≈ 39'33	
minimum elong	8688 Sep 09 10:36	25° m 36'59	5°13'33	desc. node	8691 Feb 02 12:29	16° ≈ 59′21	
morning rise	8688 Sep 14 21:24	22° m 17'49			8691 Feb 12 23:12	0° ∀	
direct	8688 Oct 01 03:39	17° m 16'13			8691 Mar 08 23:49	0° Y	

evening rise	8691 Mar 09 12:46	0° Υ 40'28			8693 Sep 29 18:33	0° m)	
<i>y</i>	8691 Apr 01 23:04	0°8			8693 Oct 26 16:20	0∘ <u>v</u>	
	8691 Apr 25 22:45	$\Pi^{\circ}0$		asc. node	8693 Nov 10 07:48	16° ≏ 56'17	
	8691 May 20 01:38	0ಂತ			8693 Nov 21 10:29	0° M	
asc. node	8691 May 26 10:37	7° © 52'45			8693 Dec 16 12:08	0° ∡ 7	
	8691 Jun 13 11:10	$0^{\circ}\Omega$			8694 Jan 10 03:04	8°0	
	8691 Jul 08 08:02	0° m			8694 Feb 03 11:04	0° ≈	
	8691 Aug 03 00:46	0∘ ত			8694 Feb 27 14:20	0° ∀	
	8691 Aug 30 10:46	0° M		desc. node	8694 Mar 02 00:45	3° ∺ 02'11	
evening max el	8691 Sep 10 06:03	10°M50'55	45°47'19	morning set	8694 Mar 03 23:20	5°) €27'33	
desc. node	8691 Sep 15 06:08	15°M35'33			8694 Mar 23 14:06	0 ° Υ	
	8691 Oct 02 12:07	0°⊀		max. Earth dist.	8694 Apr 12 08:39	24° Y 49'29	1.71268 AU
greatest brilliancy	8691 Oct 19 03:10	9° ≯ 12'04	-4.7m				
retrograde	8691 Oct 29 05:14	11° ≯ 02'30		superior conj	8694 Apr 13 14:15	26° Y ′22'29	
evening set	8691 Nov 16 08:14	4° ≯ 52'03		minimum elong	8694 Apr 13 05:45	25° Y 55'46	1°21'11
inferior conj	8691 Nov 19 16:26	2° ₹ 47'44			8694 Apr 16 11:27	0°8	
minimum elong	8691 Nov 19 21:12	2° ∡ ¹40'16			8694 May 10 08:03	0°П	
min. Earth dist.	8691 Nov 20 01:29	2° ∡ 33'32	0.29060 AU	evening rise	8694 May 24 03:41	17° Ⅱ 20'50	
morning rise	8691 Nov 23 10:05	0° ₹ 29'04			8694 Jun 03 06:03	0°©	
1.	8691 Nov 24 05:39	30°RM		asc. node	8694 Jun 22 22:27	24° © 33'35	
direct	8691 Dec 11 04:59	24°M29'18	4.0		8694 Jun 27 07:29	0° N	
greatest brilliancy	8691 Dec 22 00:40	26°M37'56	-4.8m		8694 Jul 21 14:07	0° m	
1	8691 Dec 29 03:23	0°⊀ 7			8694 Aug 15 04:01	0∘ 亚	
asc. node morning max el	8692 Jan 06 05:37 8692 Jan 29 20:40	5° ₹ 13'34 25° ₹ 53'01	46°10'34		8694 Sep 09 04:51	0° M 0° ∡ 7	
morning max ei	8692 Feb 02 23:10	25° × '53'01	40 10 34	desc. node	8694 Oct 04 23:46 8694 Oct 12 17:12	8° х ¹44'06	
	8692 Mar 01 14:38	0°≈		desc. node	8694 Nov 01 03:59	8 x 44 00	
	8692 Mar 27 07:30	0 ≈ 0° H		evening max el	8694 Nov 20 16:03	0 3 19° る 46'02	45°50'37
	8692 Apr 21 03:57	0° Υ		evening max er	8694 Dec 01 21:06	0°≈	45 50 57
desc. node	8692 Apr 26 23:35	7° Υ 06'44		greatest brilliancy	8694 Dec 29 23:46	0 ~ 18° ≈ 08'45	-4.8m
dese. Hode	8692 May 15 13:53	0°8		retrograde	8695 Jan 08 12:48	19° ≈ 48'45	- 4 .0111
	8692 Jun 08 18:36	0°II		evening set	8695 Jan 23 08:34	15°≈34'00	
	8692 Jul 02 21:44	0°©		inferior conj	8695 Jan 29 11:52	11° ≈ 55'59	-1°03'56
	8692 Jul 27 01:27	$0^{\circ}\Omega$		minimum elong	8695 Jan 29 14:17	11°≈52'14	
morning set	8692 Aug 02 19:07	8° Ω 21'06		min. Earth dist.	8695 Jan 30 01:45	11° ≈ 34'27	0.27623 AU
asc. node	8692 Aug 17 20:45	27° Ω 01'03		asc. node	8695 Feb 02 17:11	9° ≈ 21'37	
	8692 Aug 20 06:35	0° m)		morning rise	8695 Feb 04 19:17	8° ≈ 10'43	
	C			direct	8695 Feb 19 12:25	3°≈54'40	
superior conj	8692 Sep 09 17:24	25° m 17'02	0°51'38	greatest brilliancy	8695 Mar 02 08:08	6° ≈ 05'31	-4.9m
minimum elong	8692 Sep 09 08:09	24° m 48'29	0°51'14		8695 Apr 04 03:49	0° ∀	
max. Earth dist.	8692 Sep 11 06:40	27° m 12'10	1.73039 AU	morning max el	8695 Apr 10 21:59	6°) 38′13	46°53'02
	8692 Sep 13 13:01	0∘ ⊽			8695 May 02 19:27	0 ° Υ	
	8692 Oct 07 20:39	0° M		desc. node	8695 May 25 11:47	26° Y ′00'23	
evening rise	8692 Oct 16 07:37	10°M25'00			8695 May 28 21:23	0°8	
	8692 Nov 01 06:00	0° ∡ ¹			8695 Jun 23 00:26	Π $^{\circ}0$	
	8692 Nov 25 17:56	0°ರ			8695 Jul 17 17:51	0 \circ	
desc. node	8692 Dec 07 14:23	14° る 27'22			8695 Aug 11 07:37	0 ° Ω	
	8692 Dec 20 08:59	0° ≈			8695 Sep 04 19:55	0° ™	
	8693 Jan 14 03:23	0° ∀		asc. node	8695 Sep 15 09:05	12° m 55'54	
	8693 Feb 08 02:25	0° Υ			8695 Sep 29 06:54	0∘ ত	
	8693 Mar 05 11:24	0° 8		morning set	8695 Oct 12 09:31	16° ≏ 06'58	
asc. node	8693 Mar 30 13:44	28° 8 32'42			8695 Oct 23 16:15	0°M.	
	8693 Mar 31 21:33	0°II	16050151	max. Earth dist.	8695 Nov 17 02:20	0° √ 06'24	1.73231 AU
evening max el	8693 Apr 17 09:44	17° Ⅱ 26'04	46°58'51		8695 Nov 17 00:16	0° ∡ 7	
4 41 711	8693 Apr 30 13:27	0.20	4.0		0(05 N 17 22 0(10.710025	1024100
greatest brilliancy	8693 May 27 15:34	18°918'32	-4.9m	superior conj	8695 Nov 17 23:06	1° 🖈 10′25 1° 🖈 22′45	1°24'00
retrograde evening set	8693 Jun 06 21:28 8693 Jun 22 20:10	20°©16'36 15°©17'10		minimum elong	8695 Nov 18 03:06 8695 Dec 11 07:40	1° x '22'43 0° る	1 44 00
inferior conj	8693 Jun 27 16:58		5°25'06	evening rise	8695 Dec 25 04:14	0°8 17° 3 06'18	
minimum elong	8693 Jun 28 03:21	12 3 21 22	5°22'11	evening rise	8696 Jan 04 14:54	0°≈	
min. Earth dist.	8693 Jun 27 16:29	12 3 03 23	0.27337 AU	desc. node	8696 Jan 05 02:20	0°≈35'19	
morning rise	8693 Jul 03 10:55	8°957'15	3.27337 AU	dose, node	8696 Jan 28 21:49	0° ∺	
direct	8693 Jul 18 12:44	4°931'54			8696 Feb 22 04:19	0°Υ	
desc. node	8693 Jul 20 09:17	4°935'59			8696 Mar 17 11:32	%8 0°8	
greatest brilliancy	8693 Jul 28 07:34	6°9518'48	-4.8m		8696 Apr 10 22:52	0°II	
3	8693 Aug 31 04:43	0°N		asc. node	8696 Apr 27 01:00	19° Ⅱ 27'57	
morning max el	8693 Sep 05 22:27	5° Ω 26'18	46°03'04		8696 May 05 20:36	0ಂಣ	
C	•				•		

	8696 May 31 16:27	0°N			8698 Nov 07 06:35	0° M	
evening max el	8696 Jun 28 03:11	29° Ω 25'00	46°27'46		8698 Dec 01 18:24	0° ⊼ ¹	
evening max er	8696 Jun 28 17:15	0°m	40 27 40	morning set	8698 Dec 19 22:31	22° × ⁷ 23'41	
greatest brilliancy	8696 Aug 06 00:22	29° m 07'10	-4 8m	morning set	8698 Dec 26 02:14	0°る	
greatest orimaney	8696 Aug 08 12:34	ე∘ <u>ი</u>	1.0111		8699 Jan 19 07:16	0° ≈	
desc. node	8696 Aug 16 20:45	1° £ 22'40		max. Earth dist.	8699 Jan 24 01:54	5°≈55'54	1.72360 AU
retrograde	8696 Aug 17 01:51	1° ≏ 22'43					
S	8696 Aug 25 08:37	30°R ™		superior conj	8699 Jan 26 17:57	9° ≈ 14'55	0°14'09
evening set	8696 Sep 01 13:40	26° m 43'42		minimum elong	8699 Jan 26 21:19	9° ≈ 25'23	0°14'09
inferior conj	8696 Sep 07 11:48	23° m 09'39	-4°59'10	behind sun begin	8699 Jan 26 09:38	8° ≈ 49'05	
minimum elong	8696 Sep 07 02:24	23° m 24'21	4°56'52	behind sun end	8699 Jan 27 09:00	10° ≈ 01'42	
min. Earth dist.	8696 Sep 06 18:21	23°M 36'54	0.28502 AU	desc. node	8699 Feb 01 14:24	16° ≈ 31'40	
morning rise	8696 Sep 12 15:33	20° My $02'05$			8699 Feb 12 10:04	0°)	
direct	8696 Sep 28 18:15	15°Mp04'28		evening rise	8699 Mar 07 01:30	28° ¥ 15'55	
greatest brilliancy	8696 Oct 08 12:33	16° Mp 47'18	-4.7m		8699 Mar 08 10:48	0° Y	
	8696 Oct 30 16:34	0∘ ⊽			8699 Apr 01 10:12	0° B	
morning max el	8696 Nov 16 10:20	14° £ 46′01	45°41'31		8699 Apr 25 10:03	0° I I	
	8696 Dec 01 13:45	0°M			8699 May 19 13:11	0.22	
asc. node	8696 Dec 07 19:57	6°M38'25		asc. node	8699 May 25 12:41	7° © 23'08	
	8696 Dec 28 20:37	0°る			8699 Jun 12 23:10	0° №	
	8697 Jan 23 13:06 8697 Feb 17 10:27	0°≈			8699 Jul 07 20:53 8699 Aug 02 15:20	0∘ ⊽ ० ार्ष	
	8697 Feb 17 10.27 8697 Mar 13 20:56	0 ≈ 0° ∀			8699 Aug 30 05:42	0°M	
desc. node	8697 Mar 29 13:06	19°) (26'14		evening max el	8699 Sep 07 22:24	8°M41'03	45°48'02
dese. Hode	8697 Apr 07 00:40	0°Υ		desc. node	8699 Sep 14 07:59	14°M43'05	13 10 02
	8697 May 01 00:17	0°8		dese. node	8699 Oct 03 06:56	0° √	
morning set	8697 May 19 02:26	22° 8 41'38		greatest brilliancy	8699 Oct 16 17:51	7° ∡ *01'16	-4.7m
<i>5 5 1 1 1 1 1 1 1 1 1 1</i>	8697 May 24 22:07	0°II		retrograde	8699 Oct 26 21:23	8° ≯ 52'33	
	8697 Jun 17 20:22	0ಂತ		evening set	8699 Nov 14 01:27	2° ∡ ′40′21	
				inferior conj	8699 Nov 17 08:37	0° ∡ ³37'21	-8°28'16
superior conj	8697 Jun 27 22:31	12° 5 37'27	-0°51'19	minimum elong	8699 Nov 17 12:41	0° ∡ ³30′58	8°27'51
minimum elong	8697 Jun 28 09:08	13° © 10'35	0°51'05	min. Earth dist.	8699 Nov 17 16:11	0° ≯ 25′28	0.29083 AU
max. Earth dist.	8697 Jul 01 02:10	16° © 33'45	1.71835 AU		8699 Nov 18 08:25	30°RM	
	8697 Jul 11 20:41	$0^{\circ}\Omega$		morning rise	8699 Nov 20 23:51	28°M22'12	
asc. node	8697 Jul 20 10:31	10° Ω 40'48		direct	8699 Dec 08 21:52	22°M19'08	
	8697 Aug 04 23:57	0° m)		greatest brilliancy	8699 Dec 19 15:16	24°M25'41	-4.8m
evening rise	8697 Aug 06 00:58	1° Mp 17'27			8699 Dec 30 10:36	0° ⊀ ⁷	
	8697 Aug 29 06:43	0° ™ 0° 亚		asc. node	8700 Jan 05 07:37	4° ₹ 04'20	46000151
	8697 Sep 22 17:55 8697 Oct 17 11:23	0°111℃ 0° √ 7		morning max el	8700 Jan 27 12:09 8700 Feb 02 19:13	23° メ 38'52 0° る	46°08'51
desc. node	8697 Nov 09 04:41	0 x ⁴ 27° x 11'15			8700 Mar 02 05:47	0°≈	
dese. Hode	8697 Nov 11 13:36	0°る			8700 Mar 27 20:48	0° ∺	
	8697 Dec 07 04:00	0° ≈			8700 Apr 21 16:20	0°Υ	
	8698 Jan 02 13:51	0° ∀		desc. node	8700 Apr 27 01:29	6° Υ 35'07	
	8698 Jan 30 19:48	$0^{\circ}\mathbf{\Upsilon}$			8700 May 16 01:43	0°8	
evening max el	8698 Jan 31 21:31	1° Y 03'49	46°33'16		8700 Jun 09 06:04	$\Pi^{\circ}0$	
asc. node	8698 Mar 02 04:34	25° Y 52'19			8700 Jul 03 08:53	0 \circ \odot	
	8698 Mar 09 16:07	9° 8			8700 Jul 27 12:23	0 ° Ω	
greatest brilliancy	8698 Mar 13 05:01	1° 8 26'44	-4.9m	morning set	8700 Aug 01 10:31	6° Ω 06′18	
retrograde	8698 Mar 23 00:53	3° 8 16'31		asc. node	8700 Aug 17 22:37	26° Ω 33'21	
	8698 Apr 04 18:33	30° ₹ Υ			8700 Aug 20 17:23	0°Щ	
evening set	8698 Apr 08 22:46	27° Y 43'58					
inferior conj	8698 Apr 12 16:15	25°Υ28'50		superior conj	8700 Sep 08 10:09	23° m 07'19	
minimum elong	8698 Apr 12 08:02	25°Υ41'25	8°27'39 0.27074 AU	minimum elong	8700 Sep 08 01:09	22° m 39'31	0°48'31
min. Earth dist. morning rise	8698 Apr 12 11:27 8698 Apr 15 17:19	25° Υ 36'11 23° Υ 37'50	0.27074 AU	max. Earth dist.	8700 Sep 10 03:40 8700 Sep 13 23:45	25° Mp 15'34 0° <u>₽</u>	1.73012 AU
direct	8698 May 03 07:26	17° Υ 40'30			8700 Sep 13 23.43 8700 Oct 08 07:25	0° m	
greatest brilliancy	8698 May 12 22:46	19° Υ 26'22	-4.9m	evening rise	8700 Oct 08 07:23 8700 Oct 15 01:14	8°M18'13	
5. carest offinancy	8698 May 31 02:44	0°8		5.0	8700 Nov 01 16:54	0° ⊼	
desc. node	8698 Jun 21 23:44	19° 8 36'33			8700 Nov 26 05:06	°පි	
morning max el	8698 Jun 22 17:15	20° 8 20'15	46°49'42	desc. node	8700 Dec 07 16:24	13° る 58'58	
-	8698 Jul 02 02:45	0°Ⅲ			8700 Dec 20 20:34	0° ≈	
	8698 Jul 29 07:59	0°€			8701 Jan 14 15:35	0°) €	
	8698 Aug 24 05:35	$0^{\circ}\Omega$			8701 Feb 08 15:36	0 ° Υ	
	8698 Sep 18 13:36	0° т р			8701 Mar 06 02:15	9° 8	
asc. node	8698 Oct 12 21:27	29° m 11'57		asc. node	8701 Mar 30 15:40	27° 8 48'28	
	8698 Oct 13 13:23	0∘ ⊽			8701 Apr 01 15:56	Π °0	

evening max el	8701 Apr 15 23:36	15° Ⅱ 02'36	46°58'51	superior conj	8703 Nov 16 16:44	29°M03'38	1°24'37
<i>y</i>	8701 May 01 20:37	0°ಅ		minimum elong	8703 Nov 16 20:04	29°M13'55	
greatest brilliancy	8701 May 26 06:56	15° © 56'53	-4.9m		8703 Nov 17 11:01	0°⊀	
retrograde	8701 Jun 05 10:58	17°553'10			8703 Dec 11 18:30	5°0	
evening set	8701 Jun 21 13:00	12° © 49'55		evening rise	8703 Dec 23 20:22	14° る 54'21	
inferior conj	8701 Jun 26 06:27	9° © 58'45	5°43'54	desc. node	8704 Jan 05 04:17	0°≈07'21	
minimum elong	8701 Jun 26 17:06	9° 5 642'19	5°41'01		8704 Jan 05 01:54	0° ≈	
min. Earth dist.	8701 Jun 26 06:36	9° © 58'32	0.27313 AU		8704 Jan 29 09:04	0°) €	
morning rise	8701 Jul 01 21:33	6°€38′12			8704 Feb 22 15:53	0° Y	
direct	8701 Jul 17 01:53	2° © 09'45			8704 Mar 17 23:33	0° 8	
desc. node	8701 Jul 20 11:11	2° © 23'09			8704 Apr 11 11:33	Π °0	
greatest brilliancy	8701 Jul 26 20:39	3° 5 56'21	-4.8m	asc. node	8704 Apr 27 03:05	18° ∏ 54'16	
	8701 Sep 01 06:00	$0 {\circ} \Omega$			8704 May 06 10:25	0	
morning max el	8701 Sep 04 11:34	3° Ω 05'48	46°04'37		8704 Jun 01 08:36	$0^{\circ}\Omega$	
	8701 Sep 30 11:11	O° m		evening max el	8704 Jun 26 17:42	27° Ω 06′25	46°29'24
	8701 Oct 27 06:04	0∘ ত			8704 Jun 29 16:03	0° ™	
asc. node	8701 Nov 10 09:53	16° ≏ 24'49		greatest brilliancy	8704 Aug 04 15:45	26° Mp 52'20	-4.8m
	8701 Nov 21 22:52	0°M		retrograde	8704 Aug 15 17:58	29° m 08'53	
	8701 Dec 16 23:48	0°⊀		desc. node	8704 Aug 16 22:42	29° m 07'10	
	8702 Jan 10 14:22	0°₹		evening set	8704 Aug 31 03:08	24° m 32'32	
	8702 Feb 03 22:11	0° ≈		min. Earth dist.	8704 Sep 05 09:41		0.28454 AU
	8702 Feb 28 01:23	0° ∀		inferior conj	8704 Sep 06 03:13	20° Mp 56'10	
morning set	8702 Mar 02 11:29	3° ₩ 01'15		minimum elong	8704 Sep 05 18:07	21°Mp 10'21	4°39'37
desc. node	8702 Mar 02 02:37	2° ∺ 33'36		morning rise	8704 Sep 11 09:33	17° m 45'22	
	8702 Mar 24 01:07	$0^{\circ}\mathbf{\Upsilon}$		direct	8704 Sep 27 09:02	12° m 51'31	
max. Earth dist.	8702 Apr 10 11:54	21° Ƴ 54'19	1.71287 AU	greatest brilliancy	8704 Oct 07 03:33	14° m 34'48	-4.7m
					8704 Nov 01 01:10	0∘ ⊽	
superior conj	8702 Apr 12 01:21	23° Y 52'00		morning max el	8704 Nov 15 01:55	12° △ 34'32	45°41'35
minimum elong	8702 Apr 11 16:09	23° Y 23'03	1°19'35		8704 Dec 02 07:29	0°M₊	
	8702 Apr 16 22:29	0°8		asc. node	8704 Dec 07 21:55	5°M58'59	
	8702 May 10 19:08	0°II			8704 Dec 29 10:45	0° ∡	
evening rise	8702 May 22 14:22	14° Ⅱ 48'57			8705 Jan 24 01:45	0°ප	
	8702 Jun 03 17:12	0°©			8705 Feb 17 22:22	0° ≈	
asc. node	8702 Jun 23 00:27	24°904'50			8705 Mar 14 08:27	0°) (5510€	
	8702 Jun 27 18:46	$\Omega^{\circ}\Omega$		desc. node	8705 Mar 29 15:06	18°) € 57'06	
	8702 Jul 22 01:35	0° m			8705 Apr 07 11:58	0° Υ	
	8702 Aug 15 15:51	0∘ 亚			8705 May 01 11:26	0°8	
	8702 Sep 09 17:26	0° M 0° ₹		morning set	8705 May 17 13:30	20° 8 10'59	
	8702 Oct 05 13:51	0° ⊀ 7			8705 May 25 09:09	U°0 II°0	
desc. node	8702 Oct 12 19:13	8° メ 08'24 0°る			8705 Jun 18 07:19	0ං ව	
arranina marral	8702 Nov 01 21:36		45940126	aumorior comi	9705 Jun 26 11:04	100@12121	0954120
evening max el	8702 Nov 19 05:16	17° る 27'39 0°≈	45-49-30	superior conj	8705 Jun 26 11:04 8705 Jun 26 22:01	10°©12'31 10°©46'45	
greatest brilliancy	8702 Dec 03 03:43 8702 Dec 28 14:19	0 ≈ 15°≈51'20	-4.8m	minimum elong max. Earth dist.	8705 Jun 29 13:40	10 946 43 14°905'40	0 3408 1.71794 AU
retrograde	8702 Dec 28 14:19 8703 Jan 07 02:23	13 ≈31 20 17°≈30'49	-4.0111	max. Earth dist.	8705 Jul 12 07:34	0°Ω	1./1/94 AU
evening set	8703 Jan 22 00:11	17 ≈304) 13°≈13'21		asc. node	8705 Jul 20 12:21	10° Ω 12'36	
inferior conj	8703 Jan 28 02:12	9°≈37'21	-1°26'08	evening rise	8705 Aug 04 15:57	29° Ω 01'27	
minimum elong	8703 Jan 28 05:26	9°≈32'19		5 , 5 ming 1150	8705 Aug 04 15:57 8705 Aug 05 10:51	0° mp	
min. Earth dist.	8703 Jan 28 17:14	9°≈14'02	0.27674 AU		8705 Aug 05 10:51 8705 Aug 29 17:43	0° ت سائر	
asc. node	8703 Feb 02 19:07	6°≈11'55	0.2,0,,,,,,		8705 Sep 23 05:10	0°M₊	
morning rise	8703 Feb 03 09:52	5°≈51'35			8705 Oct 17 23:01	0° ⊼	
direct	8703 Feb 18 02:39	1°≈34'58		desc. node	8705 Nov 09 06:46	26° х 41′03	
greatest brilliancy	8703 Mar 01 00:37	3°≈47'42	-4.9m		8705 Nov 12 01:57	0°る	
8	8703 Apr 05 04:41	0°) €			8705 Dec 07 17:38	0° ≈	
morning max el	8703 Apr 09 11:59	4°) 15′58	46°52'08		8706 Jan 03 06:04	0°) €	
5 5	8703 May 03 12:22	$_{0}$ ° γ		evening max el	8706 Jan 30 12:06	28°) (44'16	46°31'39
desc. node	8703 May 25 13:55	25° Υ 24'08		U	8706 Jan 31 18:53	0°Υ	
	8703 May 29 11:37	0°8		asc. node	8706 Mar 02 06:30	24° Y °24'20	
	8703 Jun 23 13:20	0°II		greatest brilliancy	8706 Mar 11 16:49	28° Y ′59'41	-4.9m
	8703 Jul 18 06:00	0ಂತ		-	8706 Mar 15 00:26	0°8	
	8703 Aug 11 19:15	$0^{\circ}\Omega$		retrograde	8706 Mar 21 14:11	0° 8 50'13	
	8703 Sep 05 07:10	0° m y			8706 Mar 27 23:00	30° ₹ Υ	
asc. node	8703 Sep 15 11:02	12° m 27'48		evening set	8706 Apr 07 06:58	25° Y 24'22	
	8703 Sep 29 17:51	0∘ ⊽		inferior conj	8706 Apr 11 04:56	23° Y ′02'28	8°18'44
morning set	8703 Oct 11 02:40	13° ≏ 58'35		minimum elong	8706 Apr 10 20:06	23° Y 16'03	8°17'26
	8703 Oct 24 03:02	0° M ₊		min. Earth dist.	8706 Apr 10 23:34	23° Y 10'43	0.27073 AU
max. Earth dist.	8703 Nov 15 21:58	28°M05'45	1.73245 AU	morning rise	8706 Apr 14 09:17	21° Y ′06'38	

direct	8706 May 01 20:51	15° Ƴ 14'14			8708 Nov 01 03:36	0° ∡ ¹	
greatest brilliancy	8706 May 11 11:09	16° Y 59'29	-4.9m		8708 Nov 25 16:05	ි ව°0	
8	8706 Jun 01 17:41	0°8		desc. node	8708 Dec 06 18:19	13° る 30'51	
morning max el	8706 Jun 21 07:19	17° 8 57'57	46°50'45		8708 Dec 20 07:59	0° ≈	
desc. node	8706 Jun 22 01:38	18° 8 43'53			8709 Jan 14 03:38	0°) €	
	8706 Jul 02 22:23	0° I I			8709 Feb 08 04:36	$_0$ ° γ	
	8706 Jul 29 23:11	0ಂತ			8709 Mar 05 16:54	0°8	
	8706 Aug 24 18:48	$0^{\circ}\Omega$		asc. node	8709 Mar 29 17:46	27° 8 05'25	
	8706 Sep 19 01:43	0° m)			8709 Apr 01 10:20	$\Pi^{\circ}0$	
asc. node	8706 Oct 12 23:28	28° m 43'23		evening max el	8709 Apr 13 12:31	12° ∏ 38′00	46°58'52
	8706 Oct 14 00:50	0 \circ $\overline{f v}$		Č	8709 May 02 05:44	0°ಅ	
	8706 Nov 07 17:39	0° M		greatest brilliancy	8709 May 23 22:28	13° © 36'46	-4.9m
	8706 Dec 02 05:15	0° ⊼		retrograde	8709 Jun 03 00:13	15° © 31'19	
morning set	8706 Dec 18 15:17	20° ҂ 14'05		evening set	8709 Jun 19 05:58	10°©23'49	
	8706 Dec 26 12:58	0°రె		inferior conj	8709 Jun 23 20:04	7° © 37'32	6°02'02
	8707 Jan 19 17:59	0° ≈		minimum elong	8709 Jun 24 06:54	7° 5 20'48	5°59'12
max. Earth dist.	8707 Jan 22 16:58	3°≈40′20	1.72398 AU	min. Earth dist.	8709 Jun 23 21:00	7° 5 36'06	0.27296 AU
				morning rise	8709 Jun 29 08:05	4°©20'54	
superior conj	8707 Jan 25 08:28	6°≈57'34	0°17'40	C	8709 Jul 11 12:56	30°R∏	
minimum elong	8707 Jan 25 12:37	7°≈10'26	0°17'39	direct	8709 Jul 14 14:45	29° ∏ 48'40	
desc. node	8707 Feb 01 16:18	16° ≈ 04'08			8709 Jul 17 17:37	0 \circ \mathfrak{S}	
	8707 Feb 12 20:50	0°) €		desc. node	8709 Jul 19 13:10	0°©16'42	
evening rise	8707 Mar 05 14:31	25°) 52'36		greatest brilliancy	8709 Jul 24 10:24	1° © 35'40	-4.8m
Č	8707 Mar 08 21:42	$_0$ $^{\circ}$ $^{\circ}$		e ,	8709 Sep 01 05:44	$0^{\circ}\Omega$	
	8707 Apr 01 21:16	0°8		morning max el	8709 Sep 02 00:42	0° Ω 45'53	46°06'04
	8707 Apr 25 21:19	0° I I		C	8709 Sep 30 03:16	0° m)	
	8707 May 20 00:45	0ಂತಾ			8709 Oct 26 19:25	0∘ <u>v</u>	
asc. node	8707 May 25 14:38	6°953'11		asc. node	8709 Nov 09 11:50	15° £ 53'53	
	8707 Jun 13 11:14	$0^{\circ}\Omega$			8709 Nov 21 10:53	0°M	
	8707 Jul 08 09:50	0° m			8709 Dec 16 11:08	0°⊀	
	8707 Aug 03 06:05	0∘ <u>⊽</u>			8710 Jan 10 01:20	0°ెవ	
	8707 Aug 31 01:10	0° M .			8710 Feb 03 08:59	0° ≈	
evening max el	8707 Sep 06 14:03	6°M29'24	45°48'50	morning set	8710 Feb 27 23:47	0°) 36′24	
desc. node	8707 Sep 14 10:02	13° M 50'07		C	8710 Feb 27 12:06	0°) €	
	8707 Oct 05 08:37	0° ∡ 7		desc. node	8710 Mar 01 04:38	2°) (06'26	
greatest brilliancy	8707 Oct 15 09:03	4° ₹ 51'03	-4.7m		8710 Mar 23 11:48	$_0$ ° γ	
retrograde	8707 Oct 25 12:56	6° ҂ 742'34		max. Earth dist.	8710 Apr 07 17:32	19° Ƴ 07'45	1.71303 AU
evening set	8707 Nov 12 18:20	0° х 29′09			1		
<i>8</i>	8707 Nov 13 13:21	30°RM		superior conj	8710 Apr 09 12:43	21° Y 23'25	-1°17'57
inferior conj	8707 Nov 16 00:42	28°M27'07	-8°31'49	minimum elong	8710 Apr 09 02:52	20° Y 52'29	1°17'48
minimum elong	8707 Nov 16 04:01	28°M21'54		Č	8710 Apr 16 09:08	0°8	
min. Earth dist.	8707 Nov 16 07:05		0.29101 AU		8710 May 10 05:47	0°II	
morning rise	8707 Nov 19 13:41	26°M15'07		evening rise	8710 May 20 01:25	12° Ⅱ 19'35	
direct	8707 Dec 07 14:16	20°M09'05		Č	8710 Jun 03 03:55	0°ಅ	
greatest brilliancy	8707 Dec 18 06:00	22°M13'43	-4.8m	asc. node	8710 Jun 22 02:20	23° © 37'05	
,	8708 Jan 01 08:53	0° ∡ 7			8710 Jun 27 05:35	$0^{\circ}\Omega$	
asc. node	8708 Jan 05 09:30	2° ∡ 756'59			8710 Jul 21 12:39	0° m)	
morning max el	8708 Jan 26 02:48	21° ≯ 23′05	46°07'23		8710 Aug 15 03:20	0° <u>ٽ</u>	
5	8708 Feb 03 14:30	0°る			8710 Sep 09 05:43	0°M	
	8708 Mar 01 20:32	0° ≈			8710 Oct 05 03:45	0° ∡ ¹	
	8708 Mar 27 09:46	0°) €		desc. node	8710 Oct 11 21:18	7° ∡ ³33'33	
	8708 Apr 21 04:25	$0^{\circ}\Upsilon$			8710 Nov 01 15:17	8°0	
desc. node	8708 Apr 26 03:34	6° Y 04'53		evening max el	8710 Nov 16 18:55	15° る 11'28	45°48'45
	8708 May 15 13:17	0°8		C	8710 Dec 03 12:21	0° ≈	
	8708 Jun 08 17:17	0°II		greatest brilliancy	8710 Dec 26 04:15	13° ≈ 34'26	-4.8m
	8708 Jul 02 19:51	0°60		retrograde	8711 Jan 04 16:24	15°≈14'05	
	8708 Jul 26 23:10	$0^{\circ}\Omega$		evening set	8711 Jan 19 15:56	10° ≈ 53'32	
morning set	8708 Jul 30 01:27	3° £ 50′26		inferior conj	8711 Jan 25 16:28	7° ≈ 19'41	-1°48'04
asc. node	8708 Aug 17 00:35	26° Ω 06′27		minimum elong	8711 Jan 25 20:30	7°≈13'26	
	8708 Aug 20 04:02	0°m)		min. Earth dist.	8711 Jan 26 08:21		0.27729 AU
		· '*		morning rise	8711 Feb 01 00:15	3°≈33'55	
superior conj	8708 Sep 06 02:28	20° m 56'49	0°46'06	asc. node	8711 Feb 01 21:08	3°≈06'01	
minimum elong	8708 Sep 05 17:46	20° m/29'53	0°45'41		8711 Feb 09 18:06	30°Rる	
max. Earth dist.	8708 Sep 07 22:28	23° m/ 12'43	1.72980 AU	direct	8711 Feb 15 17:14	29° ප 16'14	
	8708 Sep 13 10:19	0° ⊽	>00110		8711 Feb 21 20:43	0°≈	
	8708 Oct 07 17:59	0° m ₊		greatest brilliancy	8711 Feb 26 16:44	1° ≈ 30'37	-4.8m
evening rise	8708 Oct 12 18:32	6°ML11'07		5-1-1-50t orininately	8711 Apr 05 03:59	0° ∀	
	3.11 300 12 10.32	5 110-21-07			p. 00 00.07	- /\	

morning max el	8711 Apr 07 03:05	1°) 57'42	46°51'17		8713 Dec 07 07:09	0° ≈	
g v.	8711 May 03 04:33	0°Υ	.0 5117		8714 Jan 02 22:22	0° ∀	
desc. node	8711 May 24 15:44	24° Υ 48'30		evening max el	8714 Jan 28 02:51	26° ¥ 25'50	46°30'00
	8711 May 29 01:15	0°8		<i>8</i>	8714 Jan 31 18:47	$_{0}^{\circ}\Upsilon$	
	8711 Jun 23 01:42	0° I I		asc. node	8714 Mar 01 08:34	22° Ƴ 54'07	
	8711 Jul 17 17:36	0ಂತ		greatest brilliancy	8714 Mar 09 05:19	26° Ƴ 34'20	-4.9m
	8711 Aug 11 06:21	$0^{\circ}\Omega$		retrograde	8714 Mar 19 03:11	28° Ƴ 24'40	
	8711 Sep 04 17:54	0° m y		evening set	8714 Apr 04 15:20	23° Ƴ 05'47	
asc. node	8711 Sep 14 13:02	12° m 01'17		inferior conj	8714 Apr 08 17:45	20° Ƴ 37'08	8°07'52
	8711 Sep 29 04:22	0∘ ত		minimum elong	8714 Apr 08 08:21	20° Ƴ 51'35	8°06'22
morning set	8711 Oct 08 19:46	11° ≙ 51′21		min. Earth dist.	8714 Apr 08 12:10	20° Ƴ 45'43	0.27069 AU
	8711 Oct 23 13:26	0° M		morning rise	8714 Apr 12 01:26	18° Ƴ 36′10	
				direct	8714 Apr 29 10:13	12° Ƴ 49'02	
superior conj	8711 Nov 14 10:14	26°M57'30	1°25'09	greatest brilliancy	8714 May 09 00:03	14° Ƴ 33'50	-4.9m
minimum elong	8711 Nov 14 12:54	27°M05'41	1°25'19		8714 Jun 02 04:32	9° 8	
max. Earth dist.	8711 Nov 13 18:36	26°M09'15	1.73259 AU	morning max el	8714 Jun 18 20:40	15° 8 34'19	46°51'44
	8711 Nov 16 21:24	0° ∡ ¹		desc. node	8714 Jun 21 03:37	17° 8 52'58	
	8711 Dec 11 04:58	0°ರ			8714 Jul 02 17:15	Π $^{\circ}0$	
evening rise	8711 Dec 21 12:21	12° る 43'09			8714 Jul 29 13:58	0_{\circ} වෙ	
desc. node	8712 Jan 04 06:09	29° る 40'17			8714 Aug 24 07:43	$0^{\circ}\Omega$	
	8712 Jan 04 12:33	0° ≈			8714 Sep 18 13:34	O° m	
	8712 Jan 28 19:57	0° ∀		asc. node	8714 Oct 12 01:25	28° m 15'20	
	8712 Feb 22 03:07	0 ° $\mathbf{\gamma}$			8714 Oct 13 12:03	0∘ ত	
	8712 Mar 17 11:16	0°8			8714 Nov 07 04:29	0°M₊	
	8712 Apr 10 23:58	$\Pi^{\circ}0$			8714 Dec 01 15:53	0° ∡ ¹	
asc. node	8712 Apr 26 05:01	18° Ⅱ 21′05		morning set	8714 Dec 16 08:16	18° ∡ 05'45	
	8712 May 05 23:59	0ಂ ತಾ			8714 Dec 25 23:32	0°₹	
	8712 Jun 01 00:34	0 $^{\circ}\Omega$			8715 Jan 19 04:36	0° ≈	
evening max el	8712 Jun 24 09:17	24° Ω 52'04	46°31'13	max. Earth dist.	8715 Jan 20 06:21	1° ≈ 19'56	1.72441 AU
	8712 Jun 29 15:11	0° m					
greatest brilliancy	8712 Aug 02 07:06	24° m 39'29	-4.8m	superior conj	8715 Jan 22 23:10	4°≈41'07	0°21'08
retrograde	8712 Aug 13 10:39	26° m 57'04		minimum elong	8715 Jan 23 04:03	4°≈56'17	0°21'06
desc. node	8712 Aug 16 00:43	26° Mp 48'57		desc. node	8715 Jan 31 18:23	15°≈37'24	
evening set	8712 Aug 28 17:04	22° Mp 23'15	0.20406.411		8715 Feb 12 07:33	0° ∀	
min. Earth dist.	8712 Sep 03 01:00	19° Mp 12'24		evening rise	8715 Mar 03 03:27	23° ¥ 29'13 0° Ƴ	
inferior conj	8712 Sep 03 18:50	18° Mp 44'39 18° Mp 58'15			8715 Mar 08 08:33	0° 8	
minimum elong	8712 Sep 03 10:06		4 22 04		8715 Apr 01 08:16	0°II	
morning rise direct	8712 Sep 09 03:41	15° Mp 30'45			8715 Apr 25 08:32	0°9	
greatest brilliancy	8712 Sep 25 00:28 8712 Oct 04 18:11	10° mp 40'40 12° mp 23'42	4.7m	asc. node	8715 May 19 12:18 8715 May 24 16:31	ი ფ 6° ფ 23'09	
greatest oriniancy	8712 Oct 04 18:11 8712 Nov 01 06:38	0° ⊡	-4. /111	asc. Houe	8715 Jun 12 23:19	0 £ 23 09 0° Ω	
morning max el	8712 Nov 12 18:09	0 — 10° ≏ 25'58	45°41'27		8715 Jul 07 22:51	0° m	
morning max ci	8712 Dec 02 00:24	0°M	73 7127		8715 Aug 02 20:59	0° ت	
asc. node	8712 Dec 02 00:24	5°M20'44			8715 Aug 30 21:07	0° m ₊	
use. Houe	8712 Dec 29 00:23	0° ⊼		evening max el	8715 Sep 04 05:10	4°ML16'38	45°49'47
	8713 Jan 23 14:00	0°₹		desc. node	8715 Sep 13 12:06	12°M56'31	
	8713 Feb 17 09:56	0° ≈			8715 Oct 06 20:37	0° ∡ 7	
	8713 Mar 13 19:37	0°) €		greatest brilliancy	8715 Oct 13 00:51	2° ∡ ⁴42'18	-4.7m
desc. node	8713 Mar 28 17:04	18° ¥ 28'52		retrograde	8715 Oct 23 04:35	4° х 33′56	
	8713 Apr 06 22:55	$0^{\circ}\mathbf{\Upsilon}$			8715 Nov 07 14:37	30°RM₊	
	8713 Apr 30 22:16	0°8		evening set	8715 Nov 10 11:11	28°M19'44	
morning set	8713 May 15 00:29	17° 8 41'00		inferior conj	8715 Nov 13 17:07	26°M18'16	-8°34'38
	8713 May 24 19:54	$\Pi^{\circ}0$		minimum elong	8715 Nov 13 19:41	26°M₁14'15	8°34'22
	8713 Jun 17 17:59	0°ಅ		min. Earth dist.	8715 Nov 13 22:34	26°M09'41	0.29116 AU
				morning rise	8715 Nov 17 04:07	24°M09'02	
superior conj	8713 Jun 23 23:37	7° © 48'21	-0°57'17	direct	8715 Dec 05 06:25	18°M00'19	
minimum elong	8713 Jun 24 10:50	8°523'25	0°57'04	greatest brilliancy	8715 Dec 15 21:29	20°ML03'37	-4.8m
max. Earth dist.	8713 Jun 27 02:28	11°5642'25	1.71750 AU		8716 Jan 02 00:56	0° ∡	
	8713 Jul 11 18:10	0 $^{\circ}\Omega$		asc. node	8716 Jan 04 11:34	1° ≯ 52′23	
asc. node	8713 Jul 19 14:23	9° Ω 45'57		morning max el	8716 Jan 23 17:11	19° ∡ ¹06'56	46°05'46
evening rise	8713 Aug 02 07:04	26° Ω 46'48			8716 Feb 03 09:10	0°ಕ	
	8713 Aug 04 21:25	0° m y			8716 Mar 01 11:09	0° ≈	
	8713 Aug 29 04:22	0° ™			8716 Mar 26 22:46	0°) €	
	8713 Sep 22 16:03	0°M			8716 Apr 20 16:36	0°Υ 5° 22 3345	
	8713 Oct 17 10:21	0° ∡		desc. node	8716 Apr 25 05:27	5° Y 33'45	
desc. node	8713 Nov 08 08:38	26° ⊀ 11'03			8716 May 15 00:56	8°0	
	8713 Nov 11 14:04	0°ಕ			8716 Jun 08 04:35	$\Pi^{\circ}0$	

	9717 Int. 02 07.54	0° ©			9710 I 02 07:02	12957120	
	8716 Jul 02 06:54	0° U		retrograde	8719 Jan 02 07:02	12°≈57'29	
marning sat	8716 Jul 26 10:03 8716 Jul 27 16:13	0°87 1° Ω 33'36		evening set	8719 Jan 17 08:09 8719 Jan 23 07:00	8°≈33'52 5°≈02'12	2000120
morning set asc. node	8716 Aug 16 02:36	25° Ω 39'18		inferior conj minimum elong	8719 Jan 23 11:48	3 ≈02 12 4°≈54'47	
asc. Houe	=	0°M)		min. Earth dist.	8719 Jan 23 23:20	4 ≈3447 4°≈36'57	
	8716 Aug 19 14:47	V III			8719 Jan 29 14:43	4 ≈3637 1°≈16'47	0.27780 AU
gumariar agni	9716 Can 02 19.52	100 m 16105	0942112	morning rise	8719 Jan 31 23:08	0°≈04'15	
superior conj	8716 Sep 03 18:52	18° Mp 46'05 18° Mp 20'10	0°43'13 0°42'47	asc. node	8719 Feb 01 02:41	0 ≈04 13 30°Ŗる	
minimum elong max. Earth dist.	8716 Sep 03 10:28 8716 Sep 05 15:13		1.72947 AU	direct		30 KO 26° る 57'57	
max. Earm dist.	•	21° Mp 03'08	1.72947 AU		8719 Feb 13 08:35		4.0
	8716 Sep 12 21:00	0∘ 亚		greatest brilliancy	8719 Feb 24 08:23	29° る 13'06	-4.8m
	8716 Oct 07 04:41	0° ጤ 4° ጤ 04'28			8719 Feb 26 05:20	0°≈	46050107
evening rise	8716 Oct 10 12:06			morning max el	8719 Apr 04 18:59	29°≈41'04	46°50'07
	8716 Oct 31 14:24	0° ⊼			8719 Apr 05 02:30	0°) €	
	8716 Nov 25 03:08	0°る			8719 May 02 20:45	0°Υ	
desc. node	8716 Dec 05 20:18	13° る 02'45		desc. node	8719 May 23 17:44	24° Y 12'27	
	8716 Dec 19 19:29	0° ≈			8719 May 28 15:10	0° 8	
	8717 Jan 13 15:49	0°)			8719 Jun 22 14:28	0°Щ	
	8717 Feb 07 17:50	0° Υ			8719 Jul 17 05:41	0°€	
	8717 Mar 05 08:00	0°8			8719 Aug 10 17:55	$0^{\circ}\Omega$	
asc. node	8717 Mar 28 19:40	26° 8 20'13			8719 Sep 04 05:06	0°Щ	
	8717 Apr 01 05:36	$\Pi^{\circ}0$		asc. node	8719 Sep 13 14:56	11° m 33'01	
evening max el	8717 Apr 11 00:58	10° Ⅱ 11′06	46°58'46		8719 Sep 28 15:19	0∘ ত	
	8717 May 02 18:47	0 \circ \odot		morning set	8719 Oct 06 12:36	9° ≏ 41'57	
greatest brilliancy	8717 May 21 13:39	11° © 14'35	-4.9m		8719 Oct 23 00:16	0°M₊	
retrograde	8717 May 31 13:27	13° © 07'52		max. Earth dist.	8719 Nov 11 15:58	24°M13'43	1.73268 AU
evening set	8717 Jun 16 22:47	7° © 55'38					
inferior conj	8717 Jun 21 09:27	5° © 14'33	6°19'39	superior conj	8719 Nov 12 03:38	24°M49'43	1°25'33
minimum elong	8717 Jun 21 20:25	4° © 57'38	6°16'52	minimum elong	8719 Nov 12 05:35	24°M55'42	1°25'43
min. Earth dist.	8717 Jun 21 11:09	5° © 11'55	0.27280 AU		8719 Nov 16 08:14	0° ∡ ¹	
morning rise	8717 Jun 26 18:13	2° © 02'22			8719 Dec 10 15:53	8°0	
	8717 Jun 30 19:16	30°R Ⅱ		evening rise	8719 Dec 19 04:28	10° る 31'04	
direct	8717 Jul 12 03:09	27° Ⅱ 25'37		desc. node	8720 Jan 03 08:14	29° る 12'38	
desc. node	8717 Jul 18 15:15	28° Ⅱ 13'42			8720 Jan 03 23:35	0° ≈	
greatest brilliancy	8717 Jul 22 00:02	29° Ⅱ 13′28	-4.8m		8720 Jan 28 07:13	0°) €	
	8717 Jul 24 01:02	0°€			8720 Feb 21 14:42	$0^{\circ}\mathbf{\Upsilon}$	
morning max el	8717 Aug 30 14:26	28° 5 26'18	46°07'42		8720 Mar 16 23:19	0°B	
	8717 Sep 01 04:49	$0^{\circ}\Omega$			8720 Apr 10 12:46	$\Pi^{\circ}0$	
	8717 Sep 29 19:21	O° Mp		asc. node	8720 Apr 25 06:56	17° Ⅱ 46'36	
	8717 Oct 26 08:55	0∘ ⊽			8720 May 05 14:04	0ಂಣ	
asc. node	8717 Nov 08 13:41	15° ≏ 22'01			8720 May 31 17:20	$0^{\circ}\Omega$	
	8717 Nov 20 23:05	0°M.		evening max el	8720 Jun 22 01:30	22° Ω 37'24	46°32'40
	8717 Dec 15 22:38	0° ⊼ ¹		•	8720 Jun 29 16:16	0° m/	
	8718 Jan 09 12:29	0°る		greatest brilliancy	8720 Jul 30 22:30	22° m 23'58	-4.8m
	8718 Feb 02 19:58	0° ≈		retrograde	8720 Aug 11 02:47	24° m 41'51	
morning set	8718 Feb 25 12:31	28°≈12'21		desc. node	8720 Aug 15 02:44	24° m) 22'24	
S	8718 Feb 26 23:03	0°) €		evening set	8720 Aug 26 06:46	20° m 10'46	
desc. node	8718 Feb 28 06:37	1°) 38′28		min. Earth dist.	8720 Aug 31 15:59	16° m 58'00	0.28354 AU
	8718 Mar 22 22:45	0° Υ		inferior conj	8720 Sep 01 10:00	16° m 29'59	
max. Earth dist.	8718 Apr 05 02:03	16° Ƴ 29'17	1.71330 AU	minimum elong	8720 Sep 01 01:42	16° m 42'54	
	1			morning rise	8720 Sep 06 21:19	13° m) 12'57	
superior conj	8718 Apr 06 23:59	18° Y 53'32	-1°16'04	direct	8720 Sep 22 15:47	8° m) 26'54	
minimum elong	8718 Apr 06 13:34	18° Y 20′51		greatest brilliancy	8720 Oct 02 08:04	10° m 09'07	-4.7m
8	8718 Apr 15 20:07	0°8		8	8720 Nov 01 11:02	0∘ ⊽	
	8718 May 09 16:50	0°II		morning max el	8720 Nov 10 09:39	8° ₽ 13'59	45°41'26
evening rise	8718 May 17 12:04	9° ∏ 47'43		morning max er	8720 Dec 01 17:32	0°M	43 41 20
evening rise	8718 Jun 02 15:03	0°9		asc. node	8720 Dec 06 01:54	4°M42'05	
asc. node	8718 Jun 21 04:20	23°508'29		use. Houe	8720 Dec 28 14:22	0° ₹	
200. 11000	8718 Jun 26 16:51	0°Ω			8720 Dec 28 14:22 8721 Jan 23 02:37	% ਰ°ਨ	
	8718 Jul 21 00:08	0° m			8721 Feb 16 21:49	0°≈	
	8718 Aug 14 15:15	0° ت رااا			8721 Mar 13 07:07	0 ∞ 0° ∀	
	8718 Sep 08 18:29	0°M.		desc. node	8721 Mar 27 18:58	0 X 17° ¥ 59'26	
	-	0°111℃ 0° √ 7		desc. Hode		1/° π 3926	
desc nodo	8718 Oct 04 18:13	0°×' 6° <i>×</i> 756'44			8721 Apr 06 10:11	0° ∀	
desc. node	8718 Oct 10 23:10	6°×'36'44 0°る		morning set	8721 Apr 30 09:23	15° 8 11'22	
avanina may al	8718 Nov 01 09:48 8718 Nov 14 09:47	0°る 12° る 57'28	15010106	morning set	8721 May 12 11:51 8721 May 24 06:56	0° Ⅱ	
evening max el	8718 Dec 04 00:29	0°≈	73 70 00		8721 May 24 06:56 8721 Jun 17 04:56	0.2 0.П	
greatest brilliancy	8718 Dec 04 00:29 8718 Dec 23 18:00	0°≈ 11°≈17'17	1 8m		0/21 Juli 1/ U4:30	0 😊	
greatest oriniancy	0/10 DEC 23 18.00	11 🗪1/1/	- 4 .0111				

superior conj	8721 Jun 21 12:15	5° 5 23'23		direct	8723 Dec 02 22:04	15°M50'03	
minimum elong	8721 Jun 21 23:37	5° © 58'55		greatest brilliancy	8723 Dec 13 13:25	17°M53'01	-4.8m
max. Earth dist.	8721 Jun 24 16:30	9° © 21'53	1.71714 AU		8724 Jan 02 13:17	0° ∡ 7	
	8721 Jul 11 05:07	0° Ω		asc. node	8724 Jan 03 13:33	0° ₹ 48'19	
asc. node	8721 Jul 18 16:23	9° Ω 18'03		morning max el	8724 Jan 21 07:36	16° ₹ 50'14	46°04'19
evening rise	8721 Jul 30 21:51	24° Ω 29'43			8724 Feb 03 03:35	5°0	
	8721 Aug 04 08:25	0° m)			8724 Mar 01 01:44	0° ≈	
	8721 Aug 28 15:29	0∘ 亚			8724 Mar 26 11:47	0° ∀ 0° Υ	
	8721 Sep 22 03:24	0° M 0°. ₹			8724 Apr 20 04:46		
	8721 Oct 16 22:10	0° ⋌ ¹		desc. node	8724 Apr 24 07:22	5° Υ 02'32	
desc. node	8721 Nov 07 10:38	25° メ 40'07 0°る			8724 May 14 12:36	0°B 0°B	
	8721 Nov 11 02:41				8724 Jun 07 15:53	0°9	
	8721 Dec 06 21:14	0° ≈ 0° ∀			8724 Jul 01 17:57		
avanina may al	8722 Jan 02 15:24 8722 Jan 25 17:06	0 X 24° ¥ 05'05	46°28'22	morning set	8724 Jul 25 07:12	29° © 17′28 0° Ω	
evening max el	8722 Jan 31 20:21	24 π 03 03 0° Υ	40 28 22	asc. node	8724 Jul 25 20:53 8724 Aug 15 04:27	0 3ℓ 25°Ω11'50	
asc. node	8722 Feb 28 10:31	21° Υ 19'30		asc. noue	8724 Aug 19 01:30	0° m)	
greatest brilliancy	8722 Mar 06 18:35	24° Υ 09'06	-4.9m		0724 Aug 17 01.30	ψ i	
retrograde	8722 Mar 16 15:44	25° Υ 58'37	-4.9111	superior conj	8724 Sep 01 11:24	16° m 35'58	0°40'16
evening set	8722 Apr 01 23:52	20° Υ 46'47		minimum elong	8724 Sep 01 03:24	16° Mp 11'14	
inferior conj	8722 Apr 01 25:32 8722 Apr 06 06:42	18° Υ 11'34	7°56'05	max. Earth dist.	8724 Sep 01 03:24 8724 Sep 03 07:52	18° Mp 53'24	1.72918 AU
minimum elong	8722 Apr 05 20:50	18° Υ 26'46	7°54'24	max. Latur dist.	8724 Sep 12 07:39	10 m/3324 0° Ω	1.72710 AC
min. Earth dist.	8722 Apr 05 20:30 8722 Apr 06 01:19	18° Υ 19'51	0.27062 AU		8724 Oct 06 15:22	0° m .	
morning rise	8722 Apr 00 01:19	16° Y 05'16	0.27002 AO	evening rise	8724 Oct 08 05:45	1°M58'07	
direct	8722 Apr 05 17:45 8722 Apr 26 23:08	10° Υ 23'35		evening rise	8724 Oct 31 01:15	0° √	
greatest brilliancy	8722 May 06 13:38	12° Υ 08'33	-4.9m		8724 Nov 24 14:17	0°ਤ	
greatest orimancy	8722 Jun 02 12:39	0° 8	- 4 .7III	desc. node	8724 Dec 04 22:19	12° る 34'31	
morning max el	8722 Jun 16 09:03	13° 8 07'49	46°52'41	dese. Hode	8724 Dec 04 22:19 8724 Dec 19 07:06	0°≈	
desc. node	8722 Jun 20 05:42	17° 8 02'51	40 32 41		8725 Jan 13 04:07	0°) €	
dese. Hode	8722 Jul 02 11:45	0° I			8725 Feb 07 07:12	0°Υ	
	8722 Jul 29 04:45	0°©			8725 Mar 04 23:18	0°8	
	8722 Aug 23 20:48	$0 {\circ} {\mathfrak O}$		asc. node	8725 Mar 27 21:38	25° 8 34'36	
	8722 Sep 18 01:41	0° m)		use. Houe	8725 Apr 01 01:25	0° I	
asc. node	8722 Oct 11 03:19	27° Mp 46'05		evening max el	8725 Apr 08 13:43	7° ∏ 45'10	46°58'44
use. Hour	8722 Oct 12 23:35	0∘ <u>ಹ</u>		evening man er	8725 May 03 12:10	0°9	
	8722 Nov 06 15:38	0° M		greatest brilliancy	8725 May 19 04:14	8° 9 51'49	-4.9m
	8722 Dec 01 02:49	0° ∡ ¹		retrograde	8725 May 29 03:07	10° © 44'39	
morning set	8722 Dec 14 00:51	15° ₹ '55'19		evening set	8725 Jun 14 15:36	5°527'17	
Ü	8722 Dec 25 10:23	0°ಕ		inferior conj	8725 Jun 18 22:47	2° © 51'37	6°36'34
max. Earth dist.	8723 Jan 17 20:23	29° ろ 00'49	1.72484 AU	minimum elong	8725 Jun 19 09:49	2° © 34'38	6°33'53
	8723 Jan 18 15:27	0° ≈		min. Earth dist.	8725 Jun 19 01:01	2° © 48'11	
					8725 Jun 23 17:06	30°R Ⅱ	
superior conj	8723 Jan 20 13:41	2° ≈ 23'27	0°24'35	morning rise	8725 Jun 24 04:08	29° Ⅱ 44'26	
minimum elong	8723 Jan 20 19:16	2° ≈ 40'47	0°24'30	direct	8725 Jul 09 15:47	25° Ⅱ 02'34	
desc. node	8723 Jan 30 20:16	15° ≈ 09'21		desc. node	8725 Jul 17 17:08	26° Ⅱ 15'41	
	8723 Feb 11 18:30	0° ₩		greatest brilliancy	8725 Jul 19 13:21	26° ∏ 51'14	-4.8m
evening rise	8723 Feb 28 16:24	21° ₩ 05'18			8725 Jul 26 13:28	0°ಲಾ	
-	8723 Mar 07 19:38	$0^{\circ}\mathbf{\Upsilon}$		morning max el	8725 Aug 28 05:02	26° © 09'25	46°09'26
	8723 Mar 31 19:30	$6^{\circ}B$			8725 Sep 01 02:43	$0^{\circ}\Omega$	
	8723 Apr 24 19:57	$\Pi^{\circ}0$			8725 Sep 29 10:56	0° m	
	8723 May 18 24:00	0°€			8725 Oct 25 22:05	0∘ ⊽	
asc. node	8723 May 23 18:35	5° © 53'15		asc. node	8725 Nov 07 15:45	14° ≙ 51'27	
	8723 Jun 12 11:31	$0^{\circ}\Omega$			8725 Nov 20 11:05	0°M	
	8723 Jul 07 12:02	0° m y			8725 Dec 15 10:01	0° ∡ ¹	
	8723 Aug 02 12:12	0∘ ⊽			8726 Jan 08 23:34	ರ°0	
	8723 Aug 30 17:58	0° M .			8726 Feb 02 06:54	0° ≈	
evening max el	8723 Sep 01 19:31	2°M01'22	45°50'33	morning set	8726 Feb 23 01:08	25° ≈ 48'13	
desc. node	8723 Sep 12 13:58	12°ML00'33			8726 Feb 26 09:54	0°) €	
	8723 Oct 09 06:14	0° ∡ ¹		desc. node	8726 Feb 27 08:29	1°) 10′30	
greatest brilliancy	8723 Oct 10 16:13	0° ∡ 31'48	-4.7m		8726 Mar 22 09:34	0 ° Υ	
retrograde	8723 Oct 20 20:05	2° ∡ ¹24'06		max. Earth dist.	8726 Apr 02 12:28	13° Y 57'15	1.71353 AU
	8723 Oct 31 21:23	30°RM					
evening set	8723 Nov 08 03:28	26°M09'23		superior conj	8726 Apr 04 11:00	16° Ƴ 23'23	-1°14'00
inferior conj	8723 Nov 11 09:20	24°ML08'07	-8°36'36	minimum elong	8726 Apr 04 00:07	15° Ƴ 49'13	1°13'46
minimum elong	8723 Nov 11 11:07	24°ML05'18	8°36'23		8726 Apr 15 06:56	0°8	
min. Earth dist.	8723 Nov 11 14:03	24°ML00'41	0.29132 AU		8726 May 09 03:42	$\Pi^{\circ}0$	
morning rise	8723 Nov 14 18:43	22°ML01'16		evening rise	8726 May 14 22:43	7° Ⅱ 16′25	

	8726 Jun 02 02:00	0 \circ \odot		asc. node	8728 Dec 05 03:48	4° ™ 04'38	
asc. node	8726 Jun 20 06:20	22°5940'24			8728 Dec 28 03:43	0° ∡	
	8726 Jun 26 03:56	$0 {\circ} \Omega$			8729 Jan 22 14:41	0°ಕ	
	8726 Jul 20 11:25	0° m			8729 Feb 16 09:16	0° ≈	
	8726 Aug 14 02:57	0∘ ⊽			8729 Mar 12 18:15	0°) €	
	8726 Sep 08 07:02	0°M		desc. node	8729 Mar 26 20:58	17° ¥ 31′20	
	8726 Oct 04 08:32	0° √			8729 Apr 05 21:08	0° Y	
desc. node	8726 Oct 10 01:13	6° ≯ 21'03			8729 Apr 29 20:15	0°8	
desc. Hode	8726 Nov 01 04:30	0°る		morning set	8729 May 09 22:39	12° 8 40'44	
avanina may al	8726 Nov 12 01:12	10°₹45'44	45°47'16	morning set	8729 May 23 17:41	12 О 40 44	
evening max el			43 4/10		•		
	8726 Dec 04 16:24	0° ≈	4.0		8729 Jun 16 15:36	0	
greatest brilliancy	8726 Dec 21 07:31	9°≈00'33	-4.8m				
retrograde	8726 Dec 30 21:29	10° ≈ 41′03		superior conj	8729 Jun 19 00:27	2° © 57'58	
evening set	8727 Jan 15 00:27	6°≈14'27		minimum elong	8729 Jun 19 11:53	3° © 33'45	1°02'40
inferior conj	8727 Jan 20 21:26	2° ≈ 44'56	-2°31'00	max. Earth dist.	8729 Jun 22 05:17	6° ॐ 58′25	1.71669 AU
minimum elong	8727 Jan 21 02:58	2° ≈ 36′22	2°29'08		8729 Jul 10 15:43	$0 {\circ} \Omega$	
min. Earth dist.	8727 Jan 21 14:04	2°≈19'11	0.27835 AU	asc. node	8729 Jul 17 18:13	8° Ω 50'45	
	8727 Jan 25 10:12	30°Ŗる		evening rise	8729 Jul 28 12:18	22° Ω 12'37	
morning rise	8727 Jan 27 04:49	29° පි 00'00			8729 Aug 03 19:03	0° m)	
asc. node	8727 Jan 31 01:03	27° පි 06'31			8729 Aug 28 02:14	0∘ <u>⊽</u>	
direct	8727 Feb 11 00:13	24° ප් 40'01			8729 Sep 21 14:23	0°M₊	
greatest brilliancy	8727 Feb 21 23:36	26° ප 55'13	-4 8m		8729 Oct 16 09:35	0° ∡ 7	
greatest offinancy	8727 Feb 28 09:43	0°≈	4.0111	desc. node	8729 Nov 06 12:41	25°×710'29	
morning max el	8727 Apr 02 10:37	0 ∞ 27°≈24'13	16010156	desc. Hode	8729 Nov 10 14:54	23×1029	
morning max er	•	27 ≈ 24 13	40 46 30		8729 Dec 06 10:57	0°≈	
	8727 Apr 05 00:02	0 Υ 0° Υ					
1 1	8727 May 02 12:30				8730 Jan 02 08:15	0°){	46926125
desc. node	8727 May 22 19:49	23° Y 37'36		evening max el	8730 Jan 23 06:18	21°) (43'21	46°26'35
	8727 May 28 04:42	0° 8			8730 Jan 31 22:45	0°Υ	
	8727 Jun 22 02:52	0°Щ		asc. node	8730 Feb 27 12:27	19° Y ′42'30	
	8727 Jul 16 17:23	0ಂ ತಾ		greatest brilliancy	8730 Mar 04 07:52	21° Y '45'06	-4.9m
	8727 Aug 10 05:08	$0^{\circ}\Omega$		retrograde	8730 Mar 14 03:50	23° Y '33'45	
	8727 Sep 03 15:57	O° Mp		evening set	8730 Mar 30 08:20	18° Y ′28'32	
asc. node	8727 Sep 12 16:52	11° m)05'55		inferior conj	8730 Apr 03 19:36	15° Ƴ 46'59	7°43'13
	8727 Sep 28 01:55	0∘ ত		minimum elong	8730 Apr 03 09:19	16° Y 02'51	7°41'22
morning set	8727 Oct 04 05:46	7° £ 34'37		min. Earth dist.	8730 Apr 03 14:44	15° Ƴ 54'30	0.27065 AU
	8727 Oct 22 10:44	0° M		morning rise	8730 Apr 07 10:17	13° Ƴ 35'15	
				direct	8730 Apr 24 11:40	7° Y ′58'39	
superior conj	8727 Nov 09 21:22	22°M44'11	1°25'49	greatest brilliancy	8730 May 04 03:59	9° Y 44'44	-4.9m
minimum elong	8727 Nov 09 22:36	22°M47'57	1°26'00		8730 Jun 02 18:14	0°8	
max. Earth dist.	8727 Nov 09 13:25	22°M19'40	1.73274 AU	morning max el	8730 Jun 13 21:15	10° 8 41'06	46°53'38
	8727 Nov 15 18:41	0° √		desc. node	8730 Jun 19 07:34	16° 8 13'28	
	8727 Dec 10 02:24	0°ರ			8730 Jul 02 05:37	$\Pi^{\circ}0$	
evening rise	8727 Dec 16 20:49	8° පි 20'50			8730 Jul 28 19:08	0° ©	
desc. node	8728 Jan 02 10:09	28° る 45'34			8730 Aug 23 09:29	$0^{\circ}\Omega$	
4000. 11040	8728 Jan 03 10:18	0°≈			8730 Sep 17 13:25	0° m)	
	8728 Jan 27 18:12	0° ∀		asc. node	8730 Oct 10 05:20	27° Mp 18'24	
	8728 Feb 21 02:04	0° Υ		asc. Houc	8730 Oct 10 03:20 8730 Oct 12 10:43	27 m/1824 0°Ω	
		0°8			8730 Nov 06 02:24	0 == 0°M₊	
	8728 Mar 16 11:13	0°II					
,	8728 Apr 10 01:24				8730 Nov 30 13:22	0° ⊼ ¹	
asc. node	8728 Apr 24 09:01	17° I I13'10		morning set	8730 Dec 11 17:47	13° ∡ 747′01	
	8728 May 05 04:00	0°©			8730 Dec 24 20:51	0°る	
	8728 May 31 10:05	$0^{\circ}\Omega$		max. Earth dist.	8731 Jan 15 12:36	26° る 49'42	1.72524 AU
evening max el	8728 Jun 19 17:36	20° Ω 23′21	46°34'13				
	8728 Jun 29 18:12	0° m		superior conj	8731 Jan 18 04:45	0° ≈ 08'42	0°27'56
greatest brilliancy	8728 Jun 29 18:12 8728 Jul 28 14:33	20° m 10'27	-4.8m	superior conj minimum elong	8731 Jan 18 10:59	0° ≈ 28'04	
retrograde	8728 Jun 29 18:12 8728 Jul 28 14:33 8728 Aug 08 18:38	20° Mp 10'27 22° Mp 27'46	-4.8m	minimum elong	8731 Jan 18 10:59 8731 Jan 18 01:56	0° ≈ 28'04 0° ≈	
	8728 Jun 29 18:12 8728 Jul 28 14:33 8728 Aug 08 18:38 8728 Aug 14 04:39	20° Mp 10'27 22° Mp 27'46 21° Mp 52'04	-4.8m		8731 Jan 18 10:59	0°≈28'04 0°≈ 14°≈42'36	
retrograde	8728 Jun 29 18:12 8728 Jul 28 14:33 8728 Aug 08 18:38 8728 Aug 14 04:39 8728 Aug 23 20:44	20° Mp 10'27 22° Mp 27'46	-4.8m	minimum elong	8731 Jan 18 10:59 8731 Jan 18 01:56 8731 Jan 29 22:11 8731 Feb 11 05:04	0°≈28'04 0°≈ 14°≈42'36 0°¥	
retrograde desc. node	8728 Jun 29 18:12 8728 Jul 28 14:33 8728 Aug 08 18:38 8728 Aug 14 04:39	20° Mp 10'27 22° Mp 27'46 21° Mp 52'04		minimum elong	8731 Jan 18 10:59 8731 Jan 18 01:56 8731 Jan 29 22:11	0°≈28'04 0°≈ 14°≈42'36 0°¥ 18°¥44'31	
retrograde desc. node evening set	8728 Jun 29 18:12 8728 Jul 28 14:33 8728 Aug 08 18:38 8728 Aug 14 04:39 8728 Aug 23 20:44	20° m 10'27 22° m 27'46 21° m 52'04 17° m 59'26	0.28299 AU	minimum elong desc. node	8731 Jan 18 10:59 8731 Jan 18 01:56 8731 Jan 29 22:11 8731 Feb 11 05:04	0°≈28'04 0°≈ 14°≈42'36 0°¥ 18°¥44'31 0° Υ	
retrograde desc. node evening set min. Earth dist.	8728 Jun 29 18:12 8728 Jul 28 14:33 8728 Aug 08 18:38 8728 Aug 14 04:39 8728 Aug 23 20:44 8728 Aug 29 07:19	20° m 10'27 22° m 27'46 21° m 52'04 17° m 59'26 14° m 44'34	0.28299 AU -3°47'10	minimum elong desc. node	8731 Jan 18 10:59 8731 Jan 18 01:56 8731 Jan 29 22:11 8731 Feb 11 05:04 8731 Feb 26 05:55	0°≈28'04 0°≈ 14°≈42'36 0°₩ 18°₩44'31 0°Υ 0°₩	
retrograde desc. node evening set min. Earth dist. inferior conj	8728 Jun 29 18:12 8728 Jul 28 14:33 8728 Aug 08 18:38 8728 Aug 14 04:39 8728 Aug 23 20:44 8728 Aug 29 07:19 8728 Aug 30 01:14	20° m 10'27 22° m 27'46 21° m 52'04 17° m 59'26 14° m 44'34 14° m 16'40	0.28299 AU -3°47'10	minimum elong desc. node	8731 Jan 18 10:59 8731 Jan 18 01:56 8731 Jan 29 22:11 8731 Feb 11 05:04 8731 Feb 26 05:55 8731 Mar 07 06:20	0°≈28'04 0°≈ 14°≈42'36 0°¥ 18°¥44'31 0° Υ	
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong	8728 Jun 29 18:12 8728 Jul 28 14:33 8728 Aug 08 18:38 8728 Aug 14 04:39 8728 Aug 23 20:44 8728 Aug 29 07:19 8728 Aug 30 01:14 8728 Aug 29 17:25	20° m 10'27 22° m 27'46 21° m 52'04 17° m 59'26 14° m 44'34 14° m 16'40 14° m 28'50	0.28299 AU -3°47'10	minimum elong desc. node	8731 Jan 18 10:59 8731 Jan 18 01:56 8731 Jan 29 22:11 8731 Feb 11 05:04 8731 Feb 26 05:55 8731 Mar 07 06:20 8731 Mar 31 06:23	0°≈28'04 0°≈ 14°≈42'36 0°₩ 18°₩44'31 0°Υ 0°₩	
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise	8728 Jun 29 18:12 8728 Jul 28 14:33 8728 Aug 08 18:38 8728 Aug 14 04:39 8728 Aug 23 20:44 8728 Aug 29 07:19 8728 Aug 30 01:14 8728 Aug 29 17:25 8728 Sep 04 14:50	20° m 10'27 22° m 27'46 21° m 52'04 17° m 59'26 14° m 44'34 14° m 16'40 14° m 28'50 10° m 56'27	0.28299 AU -3°47'10 3°45'05	minimum elong desc. node	8731 Jan 18 10:59 8731 Jan 18 01:56 8731 Jan 29 22:11 8731 Feb 11 05:04 8731 Feb 26 05:55 8731 Mar 07 06:20 8731 Mar 31 06:23 8731 Apr 24 07:05	0°≈28'04 0°≈ 14°≈42'36 0° ₩ 18° ₩ 44'31 0° Υ 0° ႘ 0° Β	
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	8728 Jun 29 18:12 8728 Jul 28 14:33 8728 Aug 08 18:38 8728 Aug 14 04:39 8728 Aug 23 20:44 8728 Aug 29 07:19 8728 Aug 30 01:14 8728 Aug 29 17:25 8728 Sep 04 14:50 8728 Sep 20 07:05	20° m 10'27 22° m 27'46 21° m 52'04 17° m 59'26 14° m 44'34 14° m 16'40 14° m 28'50 10° m 56'27 6° m 14'35	0.28299 AU -3°47'10 3°45'05	minimum elong desc. node evening rise	8731 Jan 18 10:59 8731 Jan 18 01:56 8731 Jan 29 22:11 8731 Feb 11 05:04 8731 Feb 26 05:55 8731 Mar 07 06:20 8731 Mar 31 06:23 8731 Apr 24 07:05 8731 May 18 11:30	0°≈28'04 0°≈ 14°≈42'36 0° ¥ 18° ¥44'31 0° Y 0° ¥ 0° II 0° ©	
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	8728 Jun 29 18:12 8728 Jul 28 14:33 8728 Aug 08 18:38 8728 Aug 14 04:39 8728 Aug 23 20:44 8728 Aug 29 07:19 8728 Aug 30 01:14 8728 Aug 29 17:25 8728 Sep 04 14:50 8728 Sep 20 07:05 8728 Sep 29 22:08	20° m 10'27 22° m 27'46 21° m 52'04 17° m 59'26 14° m 44'34 14° m 16'40 14° m 28'50 10° m 56'27 6° m 14'35 7° m 55'53	0.28299 AU -3°47'10 3°45'05	minimum elong desc. node evening rise	8731 Jan 18 10:59 8731 Jan 18 01:56 8731 Jan 29 22:11 8731 Feb 11 05:04 8731 Feb 26 05:55 8731 Mar 07 06:20 8731 Mar 31 06:23 8731 Apr 24 07:05 8731 May 18 11:30 8731 May 22 20:31	0°≈28'04 0°≈ 14°≈42'36 0° ¥ 18° ¥44'31 0° Y 0° ¥ 0° II 0° © 5° © 23'30	
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	8728 Jun 29 18:12 8728 Jul 28 14:33 8728 Aug 08 18:38 8728 Aug 14 04:39 8728 Aug 23 20:44 8728 Aug 29 07:19 8728 Aug 30 01:14 8728 Aug 29 17:25 8728 Sep 04 14:50 8728 Sep 20 07:05 8728 Sep 29 22:08 8728 Nov 01 13:08	20° m 10'27 22° m 27'46 21° m 52'04 17° m 59'26 14° m 16'40 14° m 28'50 10° m 56'27 6° m 14'35 7° m 55'53 0° •	0.28299 AU -3°47'10 3°45'05	minimum elong desc. node evening rise	8731 Jan 18 10:59 8731 Jan 18 01:56 8731 Jan 29 22:11 8731 Feb 11 05:04 8731 Feb 26 05:55 8731 Mar 07 06:20 8731 Mar 31 06:23 8731 Apr 24 07:05 8731 May 18 11:30 8731 May 22 20:31 8731 Jun 11 23:37	0°≈28'04 0°≈ 14°≈42'36 0° ¥ 18° ¥44'31 0° Y 0° B 0° II 0° © 5° ©23'30 0° Ω	

	0721 4 20 00 50	200 0 46142	45051141		0724 F 1 01 17 42	00	
evening max el	8731 Aug 30 09:50	29° Ω 46'43	45°51'41		8734 Feb 01 17:43	0° ≈	
	8731 Aug 30 15:18	0° M		morning set	8734 Feb 20 14:04	23° ≈ 25'30	
desc. node	8731 Sep 11 16:01	11°M04'33			8734 Feb 25 20:39	0° ∀	
greatest brilliancy	8731 Oct 08 07:01	28°M21'42	-4.7m	desc. node	8734 Feb 26 10:30	0°) 43′11	
	8731 Oct 14 19:35	0° ∡ 7			8734 Mar 21 20:18	0° Υ	
retrograde	8731 Oct 18 12:02	0° ∡ 15'34		max. Earth dist.	8734 Mar 30 22:32	11° Y ′24'23	1.71373 AU
	8731 Oct 22 03:03	30°RM₊					
evening set	8731 Nov 05 19:30	24°M00'32		superior conj	8734 Apr 01 22:24	13° Y ′54'39	-1°11'49
inferior conj	8731 Nov 09 01:38	21°M59'04	-8°37'50	minimum elong	8734 Apr 01 11:10	13° Ƴ 19'24	1°11'33
minimum elong	8731 Nov 09 02:37	21°M57'30			8734 Apr 14 17:42	0°8	
min. Earth dist.	8731 Nov 09 05:20	21°M53'14			8734 May 08 14:30	0°II	
	8731 Nov 12 09:42	19°M54'22	0.27144 AO	evening rise	8734 May 12 09:46	4° Ⅱ 46'32	
morning rise				evening rise	•	4 п 40 32	
direct	8731 Nov 30 13:54	13°M40'49	4.0	•	8734 Jun 01 12:52		
greatest brilliancy	8731 Dec 11 05:28	15°M43'47	-4.8m	asc. node	8734 Jun 19 08:12	22°5512'09	
asc. node	8732 Jan 02 15:27	29°M46'41			8734 Jun 25 14:56	0 \circ Ω	
	8732 Jan 02 21:55	0° ∡ ¹			8734 Jul 19 22:42	0° m y	
morning max el	8732 Jan 18 23:00	14° ∡ ³37′09	46°03'02		8734 Aug 13 14:44	0∘ ⊽	
	8732 Feb 02 21:11	8°0			8734 Sep 07 19:46	0° M	
	8732 Feb 29 15:47	0° ≈			8734 Oct 03 23:10	0° ∡ ¹	
	8732 Mar 26 00:21	0° ∀		desc. node	8734 Oct 09 03:14	5° ∡ 744'36	
	8732 Apr 19 16:35	$_{0}^{\circ}\Upsilon$			8734 Oct 31 23:53	0°ჳ	
desc. node	8732 Apr 23 09:26	4° Υ 32'52		evening max el	8734 Nov 09 16:51	8° ප 34'13	45°46'35
dese. Hode	8732 May 13 23:57	0°8		evening max er	8734 Dec 05 14:02	0° ≈	15 10 55
	8732 Jun 07 02:57	0°∏		greatest brilliancy	8734 Dec 18 21:33	6°≈44'32	-4.8m
							-4.0111
	8732 Jul 01 04:49	0°©		retrograde	8734 Dec 28 11:42	8°≈24'41	
morning set	8732 Jul 22 21:43	27° © 00'08		evening set	8735 Jan 12 17:01	3°≈55'13	
	8732 Jul 25 07:37	0 $^{\circ}$ Ω		inferior conj	8735 Jan 18 11:58	0° ≈ 27'55	
asc. node	8732 Aug 14 06:27	24° Ω 45'10		minimum elong	8735 Jan 18 18:11	0° ≈ 18'17	
	8732 Aug 18 12:06	0° m		min. Earth dist.	8735 Jan 19 04:55		0.27888 AU
					8735 Jan 19 05:58	30°₽₹	
superior conj	8732 Aug 30 03:26	14° Mp 24'30	0°37'13	morning rise	8735 Jan 24 18:46	26° る 43'33	
minimum elong	8732 Aug 29 19:52	14° Mp 01'06	0°36'48	asc. node	8735 Jan 30 03:05	24° る 13'11	
max. Earth dist.	8732 Sep 01 00:10	16°Mp42'51	1.72885 AU	direct	8735 Feb 08 15:51	22° る 22'30	
	8732 Sep 11 18:11	0∘ ⊽		greatest brilliancy	8735 Feb 19 14:44	24° る 37'17	-4.8m
evening rise	8732 Oct 05 23:06	29° ♀ 51'23			8735 Mar 01 20:00	0° ≈	
-	8732 Oct 06 01:54	0°M		morning max el	8735 Mar 31 01:27	25° ≈ 05'12	46°47'40
	8732 Oct 30 11:57	0° ∡ ¹		Č	8735 Apr 04 20:51	0° \	
	8732 Nov 24 01:17	0° ට			8735 May 02 04:03	0° Υ	
desc. node	8732 Dec 04 00:13	12° る 06'24		desc. node	8735 May 21 21:37	23° Y ′01'59	
dese. Hode	8732 Dec 18 18:35	0°≈		dese. Hode	8735 May 27 18:11	0°8	
	8732 Dec 18 18:33 8733 Jan 12 16:17	0 ∞				0°II	
		0 X 0°Υ			8735 Jun 21 15:16		
	8733 Feb 06 20:28				8735 Jul 16 05:06	0° ©	
	8733 Mar 04 14:34	0°8			8735 Aug 09 16:23	0 ° Ω	
asc. node	8733 Mar 26 23:45	24° 8 49'33			8735 Sep 03 02:54	0° ™	
	8733 Mar 31 21:32	Π $^{\circ}0$		asc. node	8735 Sep 11 18:52	10° m 38'41	
evening max el	8733 Apr 06 03:26	5° Ⅱ 22'41	46°58'39		8735 Sep 27 12:40	0∘ ⊽	
	8733 May 04 11:08	0		morning set	8735 Oct 01 22:44	5° ≏ 26'14	
greatest brilliancy	8733 May 16 18:00	6° ॐ 28'58	-4.9m		8735 Oct 21 21:24	0° M ₊	
retrograde	8733 May 26 17:07	8°\$22'08					
evening set	8733 Jun 12 08:28	2° © 59'29		superior conj	8735 Nov 07 14:54	20°M37'25	1°25'58
inferior conj	8733 Jun 16 12:08	0° 5 29'07	6°52'39	minimum elong	8735 Nov 07 15:25	20°M38'59	1°26'09
minimum elong	8733 Jun 16 23:08	0°ഇ12'13	6°50'06	max. Earth dist.	8735 Nov 07 08:26	20° M 17'27	1.73280 AU
min. Earth dist.	8733 Jun 16 14:26	0°925'35	0.27256 AU		8735 Nov 15 05:21	0° ₹ ¹	
	8733 Jun 17 07:05	30°Ŗ Ⅱ	0,2,200110		8735 Dec 09 13:09	0°ප	
morning rise	8733 Jun 21 13:54	27° I I27'18		evening rise	8735 Dec 14 12:54	6°号09'08	
•				•			
direct	8733 Jul 07 05:13	22° ∏ 40'01		desc. node	8736 Jan 01 12:02	28°る17'46 0°≈	
desc. node	8733 Jul 16 19:08	24° Ⅱ 22'44	4.0		8736 Jan 02 21:13		
greatest brilliancy	8733 Jul 17 02:13	24° Ⅱ 28'51	-4.8m		8736 Jan 27 05:24	0°) €	
_	8733 Jul 28 03:32	0°€			8736 Feb 20 13:39	0° Υ	
morning max el	8733 Aug 25 20:19	23° © 54'08	46°10'58		8736 Mar 15 23:19	0°8	
	8733 Aug 31 23:47	$0 ^{\circ} \Omega$			8736 Apr 09 14:18	Π °0	
	8733 Sep 29 02:17	0° ™		asc. node	8736 Apr 23 10:56	16° Ⅱ 38'29	
	8733 Oct 25 11:09	0∘ ⊽			8736 May 04 18:16	0 \circ \odot	
asc. node	8733 Nov 06 17:42	14° ≏ 20'36			8736 May 31 03:21	$0^{\circ}\Omega$	
	8733 Nov 19 22:59	0°M		evening max el	8736 Jun 17 08:59	18° Ω 06'55	46°35'45
	0/33 NOV 19 22.39	O IIO		evening max er	0750 Juli 17 00.57		
	8733 Dec 14 21:18	0° ∡ 7		evening max er	8736 Jun 29 21:53	0° m	
				greatest brilliancy			-4.8m

retrograde	8736 Aug 06 10:04	20° m 13'20			8739 Jan 17 12:52	0° ≈	
desc. node	8736 Aug 13 06:41	19° Mp 16'19		desc. node	8739 Jan 29 00:15	14° ≈ 14'58	
evening set	8736 Aug 21 10:58	15° Mp 47'30			8739 Feb 10 16:06	0° ∀	
min. Earth dist.	8736 Aug 26 23:04	-	0.28247 AU	evening rise	8739 Feb 23 19:12	16° ∺ 21'39	
inferior conj	8736 Aug 27 16:34	12° Mp 03'07			8739 Mar 06 17:31	0° Υ	
minimum elong	8736 Aug 27 09:17	12° Mp 14'29	3°26'08		8739 Mar 30 17:43	0°B	
morning rise	8736 Sep 02 08:19	8° m 39'43			8739 Apr 23 18:39	0°Щ	
direct	8736 Sep 17 22:04	4° Mp 01'56			8739 May 17 23:25	0∘ ©	
greatest brilliancy	8736 Sep 27 12:52	5° m/42'46	-4.7m	asc. node	8739 May 21 22:26	4°952'30	
	8736 Nov 01 14:10	0∘ ⊽			8739 Jun 11 12:08	0° N	
morning max el	8736 Nov 05 14:34	3° Ω 46'48	45°41'33		8739 Jul 06 14:45	0° my	
	8736 Dec 01 02:07	0°M			8739 Aug 01 19:20	0° ⊽	45050150
asc. node	8736 Dec 04 05:43	3°M26'31		evening max el	8739 Aug 28 00:49	27° △ 32'32	45°52'53
	8736 Dec 27 17:19	0° ⊼			8739 Aug 30 13:57	0°M	
	8737 Jan 22 03:04	ිර ව		desc. node	8739 Sep 10 18:04	10°M06'08	4.7
	8737 Feb 15 21:01	0° ≈		greatest brilliancy	8739 Oct 05 21:18	26°M10'00	-4.7m
	8737 Mar 12 05:39	0°) (°2∪7		retrograde	8739 Oct 16 04:32	28°M06'03	
desc. node	8737 Mar 25 22:56	17°) €02'17		evening set	8739 Nov 03 11:09	21°M51'08	0020120
	8737 Apr 05 08:21	$^{\circ \gamma}$		inferior conj	8739 Nov 06 17:53	19°M48'56	
. ,	8737 Apr 29 07:21	0° 8		minimum elong	8739 Nov 06 18:06	19°M48'36	
morning set	8737 May 07 09:20	10° 8 08'51		min. Earth dist.	8739 Nov 06 20:12	19°M45'19	0.29155 AU
	8737 May 23 04:43	0° I I		morning rise	8739 Nov 10 01:00	17°M45'56	
	8737 Jun 16 02:34	0ಂತಾ		direct	8739 Nov 28 06:08	11°M30'39	4.7
	0727 1 17 12 42	00621147	1005120	greatest brilliancy	8739 Dec 08 20:58	13°M33'12	-4.7m
superior conj	8737 Jun 16 12:43	0°931'47		asc. node	8740 Jan 01 17:30	28°M45'49	
minimum elong	8737 Jun 17 00:08	1°507'33		·	8740 Jan 03 04:30	0° ⊼ ¹ 120 ₹ 24142	46001126
max. Earth dist.	8737 Jun 19 15:29		1.71626 AU	morning max el	8740 Jan 16 15:02	12° ₹ 24'43	46°01'36
1	8737 Jul 10 02:38	0° Ω			8740 Feb 02 14:48	5°0	
asc. node	8737 Jul 16 20:15	8° Ω 23'08			8740 Feb 29 06:09	0° ≈	
evening rise	8737 Jul 26 02:42	19° Ω 54'25			8740 Mar 25 13:21	0° ∀ 0° Υ	
	8737 Aug 03 05:59	0° m			8740 Apr 19 04:49		
	8737 Aug 27 13:16	0∘ ™		desc. node	8740 Apr 22 11:18	4° Υ 01'13	
	8737 Sep 21 01:41	0°M			8740 May 13 11:43	0° B	
44-	8737 Oct 15 21:23	0° √ ³ 24°⋅ ₹ 30'04			8740 Jun 06 14:23	0° ∏	
desc. node	8737 Nov 05 14:32	24° メ 39'04 0°る			8740 Jun 30 16:01	0°55	
	8737 Nov 10 03:36	0°≈		morning set	8740 Jul 20 12:05	24° © 41′16 0° Ω	
	8737 Dec 06 01:17 8738 Jan 02 02:01	0 ≈ 0° ∀		asc. node	8740 Jul 24 18:39	24° Ω 17'26	
avaning may al	8738 Jan 20 18:51	19°) 18'42	16021155	asc. node	8740 Aug 13 08:26 8740 Aug 17 23:01	0° Mp	
evening max el	8738 Feb 01 03:28	19 χ 1842 0° Υ	40 24 33		6/40 Aug 1/ 23.01	עוו ט	
asc. node	8738 Feb 26 14:32	18° Υ 00'30		superior conj	8740 Aug 27 19:21	12°Mp11'36	0°34'06
greatest brilliancy	8738 Mar 01 21:03	19° Υ 19'35	-4.9m	minimum elong	8740 Aug 27 12:16	11° m) 49'42	
retrograde	8738 Mar 11 16:06	21° Υ 07'53	-4.9111	max. Earth dist.	8740 Aug 27 12:10 8740 Aug 29 18:05	14° Mg 36'10	1.72854 AU
evening set	8738 Mar 27 16:52	16° Υ 08'42		max. Earth dist.	8740 Sep 11 05:02	0∘ ⊽	1.72654 AU
inferior conj	8738 Apr 01 08:30	13° Υ 21'14	7°29'34	evening rise	8740 Oct 03 16:35	0 = 27° £ 43'58	
minimum elong	8738 Mar 31 21:52	13° Y 21° 13° Y 37° 37°	7°27'32	evening rise	8740 Oct 05 10:33	0°M	
min. Earth dist.	8738 Apr 01 04:07	13° Υ 27'59	0.27067 AU		8740 Oct 03 12:47 8740 Oct 29 22:58	0° ⊼ ¹	
morning rise	8738 Apr 05 02:47	11° Υ 04'12	0.27007 AU		8740 Nov 23 12:37	ੈ ਨ ਹ	
direct	8738 Apr 22 00:06	5° Υ 32'23		desc. node	8740 Dec 03 02:13	11° る 37'39	
greatest brilliancy	8738 May 01 18:26	7° Υ 20'06	-4.9m	acce. node	8740 Dec 18 06:23	0°≈	
greatest orimaney	8738 Jun 02 22:20	0°8	4.7111		8741 Jan 12 04:50	0° ∀	
morning max el	8738 Jun 11 09:52	8° 8 14'27	46°54'33		8741 Feb 06 10:12	0°Υ	
desc. node	8738 Jun 18 09:35	15° 8 24'16	10 3 1 3 3		8741 Mar 04 06:31	0°8	
acce. noue	8738 Jul 01 23:26	0°Ⅱ		asc. node	8741 Mar 26 01:36	24° 8 01'39	
	8738 Jul 28 09:41	0°©		use. Houe	8741 Mar 31 18:56	0°Ⅱ	
	8738 Aug 22 22:28	0°Ω		evening max el	8741 Apr 03 17:55	3° П 00'37	46°58'25
	8738 Sep 17 01:28	0° m		evening max er	8741 May 05 20:25	0°95	40 30 23
asc. node	8738 Oct 09 07:16	26° Mp 49'24		greatest brilliancy	8741 May 14 07:25	4°904'01	-4.9m
abe. Houe	8738 Oct 09 07:10 8738 Oct 11 22:10	ე∘ <u>ი</u>		retrograde	8741 May 24 07:10	5°957'28	1,7111
	8738 Nov 05 13:30	0° m.		evening set	8741 Jun 10 01:15	0°929'45	
	8738 Nov 30 00:16	0°11℃ 0° √ 7		evening set	8741 Jun 10 01:13	0 3 2943	
morning set	8738 Dec 09 10:44	0 x . 11° x 37'39		inferior conj	8741 Jun 10 21:23 8741 Jun 14 01:16	30 қ <u>п</u> 28° П 04'37	7°08'14
morning set	8738 Dec 24 07:43	0°る		minimum elong	8741 Jun 14 01:16 8741 Jun 14 12:09	28°Щ04'37 27°Щ47'54	7°05'48
max. Earth dist.	8739 Jan 13 06:18	0 3 24° ਰ 41'54	1.72569 AU	min. Earth dist.	8741 Jun 14 12:09 8741 Jun 14 03:19	27 II4734 28°II01'28	0.27243 AU
max. Earui dist.	0137 Jan 13 00.18	24 0 41 34	1.72307 AU		8741 Jun 14 03:19 8741 Jun 18 23:12	28°П01'28 25°П08'30	0.27243 AU
superior cori	8739 Jan 15 19:40	27° る 52'13	0°31'15	morning rise direct	8741 Jun 18 23:12 8741 Jul 04 18:45	25°Щ08'30 20°Щ15'54	
superior conj		28°る13'29				20°Щ15′54 22°Щ04′03	-4.8m
minimum elong	8739 Jan 16 02:31	20 013/29	0 3100	greatest brilliancy	8741 Jul 14 14:16	ZZ Д 04 03	-4 .0111

desc. node	8741 Jul 15 21:12	22° Ⅱ 32'41			8744 Jan 26 16:35	0° ∀	
	8741 Jul 29 06:54	0°©			8744 Feb 20 01:11	0° Υ	
morning max el	8741 Aug 23 11:13	21° © 37'00	46°12'29		8744 Mar 15 11:22	0° 8	
	8741 Aug 31 20:27	0° Ω			8744 Apr 09 03:09	0°П	
	8741 Sep 28 17:40	0° m y		asc. node	8744 Apr 22 12:52	16° Ⅱ 03'59	
	8741 Oct 25 00:21	0∘ ⊽			8744 May 04 08:35	0°©	
asc. node	8741 Nov 05 19:32	13° Ω 48'53			8744 May 30 20:58	$0^{\circ}\Omega$	
	8741 Nov 19 11:04	0° M .		evening max el	8744 Jun 14 23:24	15° Ω 47'55	46°37'05
	8741 Dec 14 08:47	0° ∡			8744 Jun 30 03:31	0° ™	
	8742 Jan 07 21:42	8°0		greatest brilliancy	8744 Jul 23 23:56	15° Mp 43'33	-4.8m
	8742 Feb 01 04:44	0° ≈		retrograde	8744 Aug 04 01:05	17° m √58'29	
morning set	8742 Feb 18 03:22	21° ≈ 03′21		desc. node	8744 Aug 12 08:40	16° m 34'59	
	8742 Feb 25 07:37	0° ∀		evening set	8744 Aug 19 01:14	13° m 34'42	
desc. node	8742 Feb 25 12:28	0° 升 15′07		min. Earth dist.	8744 Aug 24 15:01	10° Mp 15'21	0.28195 AU
	8742 Mar 21 07:16	0 ° Υ		inferior conj	8744 Aug 25 07:47	9° ™ 49'13	-3°08'28
max. Earth dist.	8742 Mar 28 06:39	8° Y 44'46	1.71400 AU	minimum elong	8744 Aug 25 01:05	9° ™ 59'40	3°06'38
				morning rise	8744 Aug 31 01:36	6°₩22'46	
superior conj	8742 Mar 30 09:48	11° Y 25'15	-1°09'30	direct	8744 Sep 15 12:26	1° Mp 48'48	
minimum elong	8742 Mar 29 22:19	10° Ƴ 49'14	1°09'10	greatest brilliancy	8744 Sep 25 04:03	3° m/29'55	-4.7m
C	8742 Apr 14 04:43	0° ႘		· ·	8744 Nov 01 13:53	0∘ <u>⊽</u>	
	8742 May 08 01:35	$\Pi^{\circ}0$		morning max el	8744 Nov 03 04:11	1° ≏ 30'58	45°41'47
evening rise	8742 May 09 20:23	2° ∏ 14'22		Č	8744 Nov 30 17:58	0°M₊	
* · · · · · · · · · · · · · · · · · · ·	8742 Jun 01 00:02	0 - ದಾ		asc. node	8744 Dec 03 07:49	2°M49'48	
asc. node	8742 Jun 18 10:14	21° 5 43'33		use. Houe	8744 Dec 27 06:35	0° ₹	
use. Houe	8742 Jun 25 02:13	0°Ω			8745 Jan 21 15:10	° ਨ ਹ	
	8742 Jul 19 10:13	0° mp			8745 Feb 15 08:31	0° ≈	
	8742 Aug 13 02:46	0° م			8745 Mar 11 16:50	0° ∀	
	•	0° m		desc. node		16°) 33'44	
	8742 Sep 07 08:46	0 IIC 0° √ 7		desc. node	8745 Mar 25 00:49	10 χ33 44 0°Υ	
	8742 Oct 03 14:10				8745 Apr 04 19:20		
desc. node	8742 Oct 08 05:07	5° ≯ 06'55		. ,	8745 Apr 28 18:12	0°8	
·	8742 Oct 31 20:03	0°る	45045151	morning set	8745 May 04 20:19	7° 8 38'41	
evening max el	8742 Nov 07 08:03	6° る 21'17	45°45'51		8745 May 22 15:27	Π °0	
	8742 Dec 06 20:03	0° ≈				• • • • • • • • • • • • • • • • • • • •	
greatest brilliancy	8742 Dec 16 12:19	4°≈29'27	-4.8m	superior conj	8745 Jun 14 01:09	28° Ⅱ 06'58	
retrograde	8742 Dec 26 01:40	6°≈08'41		minimum elong	8745 Jun 14 12:28	28° ∏ 42'24	1°07'49
evening set	8743 Jan 10 09:51	1°≈36'16			8745 Jun 15 13:15	0°©	
	8743 Jan 13 04:10	30°Rる		max. Earth dist.	8745 Jun 16 23:46	1° 5 548'04	1.71588 AU
inferior conj	8743 Jan 16 02:42	28° る 11'29			8745 Jul 09 13:19	0 $^{\circ}\Omega$	
minimum elong	8743 Jan 16 09:32	28° る 00'51		asc. node	8745 Jul 15 22:14	7° Ω 56′04	
min. Earth dist.	8743 Jan 16 20:10		0.27939 AU	evening rise	8745 Jul 23 17:00	17° Ω 36′33	
morning rise	8743 Jan 22 08:38	24° る 27'47			8745 Aug 02 16:43	0° m ⁄	
asc. node	8743 Jan 29 05:03	21° る 25'03			8745 Aug 27 00:07	0∘ ⊽	
direct	8743 Feb 06 07:06	20° る 05'33			8745 Sep 20 12:47	0° M ₊	
greatest brilliancy	8743 Feb 17 06:12	22° る 20'03	-4.8m		8745 Oct 15 08:58	0° ∡ 7	
	8743 Mar 02 20:15	0° ≈		desc. node	8745 Nov 04 16:35	24° 尽 08'52	
morning max el	8743 Mar 28 15:19	22° ≈ 43'49	46°46'21		8745 Nov 09 16:06	8°0	
	8743 Apr 04 16:59	0° ∀			8745 Dec 05 15:28	0° ≈	
	8743 May 01 19:25	0 ° Υ			8746 Jan 01 19:51	0° ∀	
desc. node	8743 May 20 23:38	22° Y 26'54		evening max el	8746 Jan 18 07:43	16° ¥ 56′05	46°23'19
	8743 May 27 07:39	0°8			8746 Feb 01 09:46	$0^{\circ}\mathbf{\Upsilon}$	
	8743 Jun 21 03:44	$\Pi^{\circ}0$		asc. node	8746 Feb 25 16:28	16° Ƴ 15'31	
	8743 Jul 15 16:55	0 \circ \mathfrak{S}		greatest brilliancy	8746 Feb 27 09:50	16° Ƴ 54'52	-4.9m
	8743 Aug 09 03:44	$0^{\circ}\Omega$		retrograde	8746 Mar 09 04:57	18° Ƴ 43'34	
	8743 Sep 02 13:53	0° m)		evening set	8746 Mar 25 01:38	13° Ƴ 49'51	
asc. node	8743 Sep 10 20:45	10° m) 10'57		inferior conj	8746 Mar 29 21:28	10° Y 56'46	7°15'04
	8743 Sep 26 23:26	0∘ <u>⊽</u>		minimum elong	8746 Mar 29 10:35	11° Y 13'29	7°12'51
morning set	8743 Sep 29 15:34	3° Ω 17'18		min. Earth dist.	8746 Mar 29 17:23	11° Y 03'04	0.27070 AU
	8743 Oct 21 08:04	0°M.		morning rise	8746 Apr 02 19:27	8° Υ 34'35	
	37.3 300 21 00.04	V IIV		direct	8746 Apr 19 12:56	3° Υ 07'27	
superior conj	8743 Nov 05 08:32	18°M30'59	1°26'01	greatest brilliancy	8746 Apr 29 08:34	4°Υ56'32	-4.9m
minimum elong	8743 Nov 05 08:32 8743 Nov 05 08:19	18°M30'20	1°26'10	51 carest of fillancy	8746 Jun 03 00:16	4 13032 0° と	1,7111
max. Earth dist.		18°M11'40	1.73284 AU	morning mey al	8746 Jun 08 23:31	5° 8 51'42	16055120
max. Eatui üist.	8743 Nov 05 02:16	0° √	1./3204 AU	morning max el desc. node		14° 8 37'17	10 33 34
	8743 Nov 14 16:00	0°Z'		uese. Houe	8746 Jun 17 11:38	14° O 3/1/ 0° Ⅱ	
ovening rice	8743 Dec 08 23:54				8746 Jul 01 16:22	0₀ © 0∘П	
evening rise	8743 Dec 12 05:13	3° そ 58'14			8746 Jul 27 23:38		
desc. node	8743 Dec 31 14:07	27° る 50'35			8746 Aug 22 10:57	0° Ω	
	8744 Jan 02 08:08	0° ≈			8746 Sep 16 13:06	0° m p	

asc. node	8746 Oct 08 09:10	26° Mp 21'26		greatest brilliancy	8749 May 11 21:12	1° 5 640'45	-4.9m
	8746 Oct 11 09:15	0∘ ⊽		retrograde	8749 May 21 21:02	3° © 33'45	
	8746 Nov 05 00:14	0°M			8749 Jun 04 04:01	30°RⅡ	
	8746 Nov 29 10:49	0° ∡ ¹		evening set	8749 Jun 07 18:06	28° Ⅲ 01'12	
morning set	8746 Dec 07 03:45	9° ∡ ¹29'38		inferior conj	8749 Jun 11 14:24	25° Ⅱ 41'15	7°23'02
	8746 Dec 23 18:12	0°ප		minimum elong	8749 Jun 12 01:06	25° Ⅱ 24'48	7°20'45
max. Earth dist.	8747 Jan 11 01:49	22° る 40'57	1.72610 AU	min. Earth dist.	8749 Jun 11 16:17	25° Ⅲ 38′22	0.27229 AU
				morning rise	8749 Jun 16 08:18	22° ∏ 50′49	
superior conj	8747 Jan 13 10:43	25° る 37'20	0°34'30	direct	8749 Jul 02 08:17	17° Ⅱ 52'57	
minimum elong	8747 Jan 13 18:08	26° පි 00'21	0°34'22	greatest brilliancy	8749 Jul 12 02:18	19° Ⅱ 40′02	-4.8m
	8747 Jan 16 23:23	0° ≈		desc. node	8749 Jul 14 23:07	20° ∏ 47'42	
desc. node	8747 Jan 28 02:08	13° ≈ 48′01			8749 Jul 30 02:23	0	
	8747 Feb 10 02:45	0° ∀		morning max el	8749 Aug 21 01:23	19° © 19'03	46°14'09
evening rise	8747 Feb 21 08:43	14° ₩ 00'51			8749 Aug 31 16:00	$0^{\circ}\Omega$	
	8747 Mar 06 04:18	0 ° $\mathbf{\gamma}$			8749 Sep 28 08:21	0° m)	
	8747 Mar 30 04:41	0°B			8749 Oct 24 13:00	0∘ ত	
	8747 Apr 23 05:50	$\Pi^{\circ}0$		asc. node	8749 Nov 04 21:39	13° ≏ 19'20	
	8747 May 17 10:58	0			8749 Nov 18 22:42	0°M₊	
asc. node	8747 May 21 00:30	4°523'12			8749 Dec 13 19:53	0° ∡	
	8747 Jun 11 00:16	0 $^{\circ}$ Ω			8750 Jan 07 08:32	0°ಕ	
	8747 Jul 06 03:57	0°Щ			8750 Jan 31 15:26	0° ≈	
	8747 Aug 01 10:56	0∘ ত		morning set	8750 Feb 15 16:41	18° ≈ 42′16	
evening max el	8747 Aug 25 16:42	25° £ 22'02	45°53'59	desc. node	8750 Feb 24 14:22	29° ≈ 47'52	
	8747 Aug 30 13:00	0°M			8750 Feb 24 18:15	0° ∀	
desc. node	8747 Sep 09 19:57	9° ™ 07′20			8750 Mar 20 17:54	0° Y	
greatest brilliancy	8747 Oct 03 11:30	23°M59'33	-4.7m	max. Earth dist.	8750 Mar 25 13:03	6°Υ'00'55	1.71427 AU
retrograde	8747 Oct 13 21:22	25°M57'42				• •	
evening set	8747 Nov 01 02:36	19° M 43'33		superior conj	8750 Mar 27 21:13	8° Ƴ 57'04	
inferior conj	8747 Nov 04 10:11	17°M40'02		minimum elong	8750 Mar 27 09:35	8° Y 20'33	1°06'41
minimum elong	8747 Nov 04 09:38	17° M 40'54	8°37'57		8750 Apr 13 15:24	0°8	
min. Earth dist.	8747 Nov 04 10:51	17°M38'59	0.29162 AU	evening rise	8750 May 07 06:59	29° 8 43'09	
morning rise	8747 Nov 07 16:41	15°M38'09			8750 May 07 12:21	0° Π	
direct	8747 Nov 25 22:50	9°M21'57		_	8750 May 31 10:54	0°©	
greatest brilliancy	8747 Dec 06 11:56	11°M23'20	-4.7m	asc. node	8750 Jun 17 12:12	21° © 15'35	
asc. node	8747 Dec 31 19:28	27°M47'21			8750 Jun 24 13:14	0° N	
	8748 Jan 03 08:28	0° ∡ 7	4.600.011.1		8750 Jul 18 21:31	0° m	
morning max el	8748 Jan 14 07:26	10° ∡ 14'38	46°00'11		8750 Aug 12 14:35	0∘ 亚	
	8748 Feb 02 07:35	ි. ව°0			8750 Sep 06 21:32	0°M	
	8748 Feb 28 19:55	0° ≈			8750 Oct 03 05:00	0° 🗖	
	8748 Mar 25 01:47	0° ∀ 0° Υ		desc. node	8750 Oct 07 07:12	4° ₹ 30'30	
1 1	8748 Apr 18 16:33				8750 Oct 31 16:28	0°る	45045100
desc. node	8748 Apr 21 13:16	3° Υ 31′22		evening max el	8750 Nov 04 22:17	4°る07'03	45°45'09
	8748 May 12 23:01	0°B 8°0			8750 Dec 08 15:05	0°≈ 2°≈ •1.5!50	4.0
	8748 Jun 06 01:23	0°9		greatest brilliancy	8750 Dec 14 03:29	2°≈15'50 3°≈53'58	-4.8m
	8748 Jun 30 02:47			retrograde	8750 Dec 23 15:21	っ≈ುು 30°Ŗる	
morning set	8748 Jul 18 02:42 8748 Jul 24 05:14	22° © 24'28 0° Ω		avanina aat	8751 Jan 06 19:50 8751 Jan 08 02:52	30 なる 29° る 18'07	
asc. node	8748 Aug 12 10:18	23° Ω 50'48		evening set inferior conj	8751 Jan 13 17:33	29 る 1807 25° る 56'15	2022121
asc. nouc	8748 Aug 17 09:28	0° M)		minimum elong	8751 Jan 14 00:58	25° ප් 44'41	
	6746 Aug 17 09.26	עוו ט		min. Earth dist.	8751 Jan 14 11:47	25°る27'50	0.27994 AU
superior coni	8748 Aug 25 11:28	10° m 00'43	0°30'56	morning rise	8751 Jan 19 22:25	23 3 2730 22° る 13'26	0.27994 AU
superior conj minimum elong	8748 Aug 25 04:55	9° Mp 40'26	0°30'30	asc. node	8751 Jan 28 07:00	22 ර 13 20 18° රි 42'48	
max. Earth dist.	8748 Aug 27 14:08	12° Mp 37'30	1.72821 AU	direct	8751 Feb 03 22:03	18 3 4248	
max. Earth dist.	8748 Sep 10 15:26	12 الله 37 30 0° ഫ	1.72821 AU	greatest brilliancy	8751 Feb 14 22:24	17 84928 20°る04'30	-4.8m
evening rise	8748 Oct 01 10:19	0 == 25° £ 38'37		greatest billiancy	8751 Mar 03 13:48	20 3 04 30 0° ≈	-4.0111
evening rise	8748 Oct 01 10:19 8748 Oct 04 23:14	0°M		morning max el	8751 Mar 26 04:51	0 ∞ 20°≈22'05	46°45'03
	8748 Oct 04 23:14 8748 Oct 29 09:36	0° ∡ 7		morning max ci	8751 Apr 04 12:19	0° ∀	40 43 03
	8748 Nov 22 23:34	0°중			8751 May 01 10:23	0°Υ	
desc. node	8748 Dec 02 04:14	11° ප 10'08		desc. node	8751 May 20 01:43	21°Υ52'55	
desc. Hode	8748 Dec 17 17:49	0°≈		dese. Houc	8751 May 26 20:49	0° 8	
	8749 Jan 11 17:01	0° ∺			8751 Jun 20 15:55	0°U	
	8749 Feb 05 23:37	0° Υ			8751 Jul 15 04:29	0ಂ ತಾ	
	8749 Mar 03 22:16	0°8			8751 Aug 08 14:52	0°Ω	
asc. node	8749 Mar 25 03:37	23° 8 14'41			8751 Sep 02 00:44	0°Mp	
ase. Houc	8749 Mar 31 16:37	0° Ⅱ		asc. node	8751 Sep 02 00:44 8751 Sep 09 22:42	رانا 9° ا¶ 43′52	
evening max el	8749 Apr 01 08:33	0° Ⅱ 40'12	46°58'01	use. Hode	8751 Sep 26 10:04	0° ʊ	
John Sing of	8749 May 07 21:15	0°99	10 2001	morning set	8751 Sep 27 08:23	0 = 1° ⊆ 08'41	
	5/12 11luy 0/ 21.13	~		morning set	5751 5 c p 27 00.25	. —00 71	

	8751 Oct 20 18:35	0° M		minimum elong	8754 Mar 26 23:23	8° Ƴ 48'41 8° Ƴ 38'02	
superior conj	8751 Nov 03 02:19	16°M25'34	1°25'55	min. Earth dist. morning rise	8754 Mar 27 06:20 8754 Mar 31 12:06	6° Υ 04'25	0.27077 AU
minimum elong	8751 Nov 03 02:19	16°M22'40	1°26'04	direct	8754 Apr 17 02:17	0° Υ 42'02	
max. Earth dist.	8751 Nov 03 01:23	16°M04'40	1.73286 AU	greatest brilliancy	8754 Apr 26 22:17	2° Υ 31'50	-4.9m
max. Lartii dist.	8751 Nov 14 02:30	0° ∡ 7	1.75200710	greatest orimancy	8754 Jun 03 01:14	0°8	4.7111
	8751 Dec 08 10:29	∘ੰਤ		morning max el	8754 Jun 06 14:06	3° B 30'23	46°56'15
evening rise	8751 Dec 09 21:46	1° る 48'42		desc. node	8754 Jun 16 13:31	13° 8 49'34	10 30 13
desc. node	8751 Dec 30 16:02	27° る 23'20		dese. node	8754 Jul 01 09:19	0°II	
	8752 Jan 01 18:55	0°≈			8754 Jul 27 13:47	0°©	
	8752 Jan 26 03:40	0°) €			8754 Aug 21 23:41	0°N	
	8752 Feb 19 12:42	$0^{\circ}\Upsilon$			8754 Sep 16 00:59	0° m)	
	8752 Mar 14 23:26	0°8		asc. node	8754 Oct 07 11:12	25° m 53'04	
	8752 Apr 08 16:04	0° I I			8754 Oct 10 20:36	0∘ <u>⊽</u>	
asc. node	8752 Apr 21 14:57	15° Ⅱ 29'42			8754 Nov 04 11:15	0°M₊	
	8752 May 03 23:03	0°ಲ			8754 Nov 28 21:39	0° ∡ ¹	
	8752 May 30 14:59	$0^{\circ}\Omega$		morning set	8754 Dec 04 20:46	7° ∡ "20'48	
evening max el	8752 Jun 12 12:51	13° Ω 26′25	46°38'32		8754 Dec 23 04:59	8°0	
-	8752 Jun 30 11:30	0° m		max. Earth dist.	8755 Jan 08 20:34	20° る 36'46	1.72643 AU
greatest brilliancy	8752 Jul 21 16:17	13° m 28'58	-4.8m				
retrograde	8752 Aug 01 16:04	15° Mp 43'13		superior conj	8755 Jan 11 01:57	23° る 22'16	0°37'42
desc. node	8752 Aug 11 10:38	13° Mp 48'06		minimum elong	8755 Jan 11 09:52	23° る 46'49	0°37'32
evening set	8752 Aug 16 15:27	11° m 20'48		Č	8755 Jan 16 10:12	0° ≈	
inferior conj	8752 Aug 22 22:49	7° m 34'40	-2°48'18	desc. node	8755 Jan 27 04:04	13° ≈ 20′23	
minimum elong	8752 Aug 22 16:44	7° m 44'08	2°46'37		8755 Feb 09 13:39	0° ∀	
min. Earth dist.	8752 Aug 22 06:51	7° m 59'32	0.28146 AU	evening rise	8755 Feb 18 22:30	11°) 40′08	
morning rise	8752 Aug 28 18:37	4° № 05'26		_	8755 Mar 05 15:19	0° Y	
	8752 Sep 08 11:14	30°₽ Ω			8755 Mar 29 15:53	0° 8	
direct	8752 Sep 13 02:23	29° Ω 34'42			8755 Apr 22 17:20	$\Pi^{\circ}0$	
	8752 Sep 17 20:14	0° m			8755 May 16 22:53	0 \circ \odot	
greatest brilliancy	8752 Sep 22 19:22	1° m 16'43	-4.7m	asc. node	8755 May 20 02:25	3° 9 52'15	
morning max el	8752 Oct 31 18:23	29° Mp 16'16	45°42'16		8755 Jun 10 12:50	$0^{\circ}\Omega$	
	8752 Nov 01 12:38	0∘ ত			8755 Jul 05 17:43	0° m	
	8752 Nov 30 09:35	0° M,			8755 Aug 01 03:18	0∘ ⊽	
asc. node	8752 Dec 02 09:42	2°M12'44		evening max el	8755 Aug 23 09:01	23° ≙ 11'05	45°55'12
	8752 Dec 26 19:45	0° ∡ ¹			8755 Aug 30 13:46	0° M	
	8753 Jan 21 03:13	0°ප		desc. node	8755 Sep 08 22:01	8°M06'07	
	8753 Feb 14 20:01	0° ≈		greatest brilliancy	8755 Oct 01 01:55	21°M47'52	-4.7m
	8753 Mar 11 04:02	0° ℋ		retrograde	8755 Oct 11 13:55	23°M47'27	
desc. node	8753 Mar 24 02:51	16° ₩ 05'25		evening set	8755 Oct 29 17:34	17°M34'53	
	8753 Apr 04 06:25	0 ° $\mathbf{\gamma}$		inferior conj	8755 Nov 02 02:19	15°M29'26	
	8753 Apr 28 05:10	9° 8		minimum elong	8755 Nov 02 01:00	15°M31'30	8°36'59
morning set	8753 May 02 06:50	5° 8 06'34		min. Earth dist.	8755 Nov 02 01:18	15°M31'02	0.29163 AU
	8753 May 22 02:21	$\Pi^{\circ}0$		morning rise	8755 Nov 05 08:29	13°M28'04	
				direct	8755 Nov 23 15:31	7° ™ 11'44	
superior conj	8753 Jun 11 13:06	25° Ⅱ 40'04		greatest brilliancy	8755 Dec 04 02:08	9° ™ 11'05	-4.7m
minimum elong	8753 Jun 12 00:14	26° ∏ 14'55		asc. node	8755 Dec 30 21:24	26° ™ 48'45	
max. Earth dist.	8753 Jun 14 06:25	29° Ⅱ 04'41	1.71551 AU		8756 Jan 03 11:21	0° ∡ ¹	
	8753 Jun 15 00:05	0°©		morning max el	8756 Jan 11 23:27	8° ∡ '02'27	45°58'50
	8753 Jul 09 00:08	0° Ω			8756 Feb 02 00:28	0° ਰ	
asc. node	8753 Jul 15 00:04	7° Ω 28'09			8756 Feb 28 09:54	0° ≈	
evening rise	8753 Jul 21 06:56	15° Ω 17'07			8756 Mar 24 14:28	0°) €	
	8753 Aug 02 03:35	0° m y			8756 Apr 18 04:31	0°Υ 2° 20 °015.1	
	8753 Aug 26 11:08	0∘ 亚		desc. node	8756 Apr 20 15:18	3° Y ′00'54	
	8753 Sep 20 00:05	0°M			8756 May 12 10:34	0° X	
	8753 Oct 14 20:47	0° ⊀ 7			8756 Jun 05 12:41	0° Ⅱ	
desc. node	8753 Nov 03 18:37	23° ⋠ 37'57			8756 Jun 29 13:55	0.00 0.00	
	8753 Nov 09 04:51	0°る		morning set	8756 Jul 15 17:03	20°©05'33	
	8753 Dec 05 05:59	0° ₩		asa nodo	8756 Jul 23 16:13	0°Ω 23°Ω22'10	
avanina may al	8754 Jan 01 14:15 8754 Jan 15 21:23	0° X 14° X 35'28	46°21'48	asc. node	8756 Aug 11 12:19	23° Ω 23'19 0° m	
evening max el		14°π35′28 0°Υ	40 Z148		8756 Aug 16 20:20	עוו ט	
asc. node	8754 Feb 01 18:39 8754 Feb 24 18:26	14° Υ 26'09		superior conj	8756 Aug 23 03:07	7° m) 46'54	0°27'41
greatest brilliancy	8754 Feb 24 18:26 8754 Feb 24 22:00	14° Y 26 09 14° Y 29'21	-4.9m	minimum elong	8756 Aug 23 03:07 8756 Aug 22 21:09	7° My 28'28	
retrograde	8754 Mar 06 18:20	14° Y 29'21' 16° Y 18'56	~ ~ .7111	max. Earth dist.	8756 Aug 25 09:48		1.72786 AU
evening set	8754 Mar 22 10:34	10° 1830 11° $\Upsilon 30'22$		max. Darui Uist.	8756 Sep 10 02:15	0° ⊡	1./2/00 AU
inferior conj	8754 Mar 27 10:25	8° Υ 31'45	6°59'37	evening rise	8756 Sep 10 02.13	23° £ 30′20	
microi conj	5/57 IVIGI 2/ 10.23	0 13143	0 0/31	Ovening 1150	5750 Sep 27 05.52	25 - 30 20	

	8756 Oct 04 10:07	0°M		morning max el	8759 Mar 23 18:52	18° ≈ 00'34	46°43'47
	8756 Oct 28 20:40	0° ∡ ″		C	8759 Apr 04 07:29	0° ∀	
	8756 Nov 22 10:58	ರ°0			8759 May 01 01:30	0° Y	
desc. node	8756 Dec 01 06:07	10° る 40'48		desc. node	8759 May 19 03:31	21° Y 17'22	
	8756 Dec 17 05:45	0°≈			8759 May 26 10:10	9° 8	
	8757 Jan 11 05:44	0°) €			8759 Jun 20 04:17	Π °0	
	8757 Feb 05 13:36	0° Y			8759 Jul 14 16:13	0ಂತ	
	8757 Mar 03 14:42	0° ႘			8759 Aug 08 02:10	$0^{\circ}\Omega$	
asc. node	8757 Mar 24 05:42	22° 8 26'16			8759 Sep 01 11:43	0° m)	
evening max el	8757 Mar 29 22:46	28° 8 17'48	46°57'39	asc. node	8759 Sep 09 00:43	9° ™ 16′28	
	8757 Mar 31 15:34	Π °0		morning set	8759 Sep 25 01:19	28° m 59'44	
greatest brilliancy	8757 May 09 11:33	29° Ⅱ 17'35	-4.9m		8759 Sep 25 20:53	0∘ ⊽	
	8757 May 11 15:51	0			8759 Oct 20 05:20	0°M₊	
retrograde	8757 May 19 10:29	1° 5 09'27					
	8757 May 26 22:39	30°Ŗ Ⅱ		superior conj	8759 Oct 31 20:06	14°M19'21	1°25'41
evening set	8757 Jun 05 11:02	25° Ⅱ 32'20		minimum elong	8759 Oct 31 18:27	14°ML14'17	1°25'51
inferior conj	8757 Jun 09 03:42	23° Ⅱ 17'29	7°36'52	max. Earth dist.	8759 Oct 31 13:24	13°M58'43	1.73293 AU
minimum elong	8757 Jun 09 14:06	23° Ⅱ 01'27	7°34'46		8759 Nov 13 13:15	0° ∡ ¹	
min. Earth dist.	8757 Jun 09 05:33	23° Ⅱ 14'38	0.27217 AU	evening rise	8759 Dec 07 14:15	29° ∡ ³38'13	
morning rise	8757 Jun 13 17:22	20° Ⅱ 32'48			8759 Dec 07 21:20	0°ಕ	
direct	8757 Jun 29 21:35	15° Ⅱ 29'35		desc. node	8759 Dec 29 17:56	26° පි 55'15	
greatest brilliancy	8757 Jul 09 14:48	17° Ⅱ 15'47	-4.8m		8760 Jan 01 05:58	0° ≈	
desc. node	8757 Jul 14 01:06	19° Ⅱ 06′02			8760 Jan 25 15:01	0° ∀	
	8757 Jul 30 17:16	0 \circ \odot			8760 Feb 19 00:29	0° Y	
morning max el	8757 Aug 18 14:46	16° © 57'56	46°15'36		8760 Mar 14 11:48	9° 8	
	8757 Aug 31 11:24	0 $^{\circ}$ Ω			8760 Apr 08 05:19	Π °0	
	8757 Sep 27 23:19	0° ™		asc. node	8760 Apr 20 16:50	14° Ⅱ 53'54	
	8757 Oct 24 02:03	0∘ ⊽			8760 May 03 13:56	0ංම	
asc. node	8757 Nov 03 23:32	12° ≏ 47'53			8760 May 30 09:39	$0^{\circ}\Omega$	
	8757 Nov 18 10:44	0° ™		evening max el	8760 Jun 10 02:50	11° Ω 05'52	46°40'08
	8757 Dec 13 07:23	0° ∡			8760 Jun 30 22:31	0° m)	
	8758 Jan 06 19:44	5°0		greatest brilliancy	8760 Jul 19 08:19	11° m, 13'57	-4.8m
	8758 Jan 31 02:30	0° ≈		retrograde	8760 Jul 30 07:42	13° m, 28'19	
morning set	8758 Feb 13 05:55	16°≈19'43		desc. node	8760 Aug 10 12:38	10° m 57'10	
desc. node	8758 Feb 23 16:23	29°≈19'48		evening set	8760 Aug 14 06:00	9° Mp 06'46	0.00006.444
	8758 Feb 24 05:16	0°) €		min. Earth dist.	8760 Aug 19 22:35	5° Mp 44'17	0.28096 AU
To all III	8758 Mar 20 04:56	0°Υ	1.71.455 ATT	inferior conj	8760 Aug 20 14:00	5° Mp 20'20	
max. Earth dist.	8758 Mar 22 18:14	3° Y 12′09	1.71455 AU	minimum elong	8760 Aug 20 08:35	5° Mp 28'46	2°26'31
	0750 M 25 00 45	(0000000	1004126	morning rise	8760 Aug 26 11:42	1° Mp 48'49	
superior conj	8758 Mar 25 08:45	6° Υ 28'06 5° Υ 51'22		4:	8760 Aug 30 02:25	30°RΩ 27°Ω20'51	
minimum elong	8758 Mar 24 21:02		1 04 03	direct	8760 Sep 10 16:36		4.7
avanina riaa	8758 Apr 13 02:27	0°8 27°811'34		greatest brilliancy	8760 Sep 20 10:35 8760 Sep 22 22:46	29° Ω 03'46	-4.7m
evening rise	8758 May 04 17:47 8758 May 06 23:26	27 3 11 34 0° Ⅱ		morning max el	8760 Oct 29 09:37	0° Mp 27° Mp 04'04	45°42'36
	8758 May 30 22:02	0ಂ ತಾ		morning max ci	8760 Nov 01 10:29	ე∘ <u>ი</u>	45 42 50
asc. node	8758 Jun 16 14:05	20°\$46'33			8760 Nov 30 01:01	0° ™	
asc. Houc	8758 Jun 24 00:31	0°Ω		asc. node	8760 Dec 01 11:38	1°MJ35'50	
	8758 Jul 18 09:07	0°m)		asc. node	8760 Dec 26 08:57	0° ⊼	
	8758 Aug 12 02:44	0∘ ⊽			8761 Jan 20 15:22	0°ਤ	
	8758 Sep 06 10:46	0°M			8761 Feb 14 07:37	0° ≈	
	8758 Oct 02 20:28	0° ⊼ 7			8761 Mar 10 15:21	0°) €	
desc. node	8758 Oct 06 09:11	3° ₹ 52'14		desc. node	8761 Mar 23 04:47	15° ¥ 36'37	
desc. node	8758 Oct 31 14:08	0°る		desc. node	8761 Apr 03 17:33	0° Υ	
evening max el	8758 Nov 02 11:57	1° る 50'16	45°44'33		8761 Apr 27 16:12	0°8	
evening max er	8758 Dec 11 17:24	0°≈	13 1133	morning set	8761 Apr 29 17:16	2° 8 33'59	
greatest brilliancy	8758 Dec 11 18:31	0° ≈ 00'56	-4 8m	morning sec	8761 May 21 13:19	0°Ⅱ	
retrograde	8758 Dec 21 05:10	1° ≈ 38'26			0,01 May 21 10.19	~ _	
	8758 Dec 30 07:53	30°Rる		superior conj	8761 Jun 09 00:59	23° Ⅱ 12'34	-1°12'35
evening set	8759 Jan 05 19:56	26°る58'37		minimum elong	8761 Jun 09 11:51	23° I I46'38	
inferior conj	8759 Jan 11 08:24	23° る 40'00	-3°51'50	max. Earth dist.	8761 Jun 11 13:38	26° ∏ 22'41	1.71517 AU
minimum elong	8759 Jan 11 16:22	23° る 27'36			8761 Jun 14 11:00	0°ම	
min. Earth dist.	8759 Jan 12 03:28	23° る 10'17			8761 Jul 08 11:02	0°N	
morning rise	8759 Jan 17 12:02	19° る 58'33		asc. node	8761 Jul 14 02:08	7° Ω 00'42	
asc. node	8759 Jan 27 09:01	16° る 04'29		evening rise	8761 Jul 18 20:54	12° Ω 57'36	
direct	8759 Feb 01 12:46	15° る 32'12		<i>5</i>	8761 Aug 01 14:29	0° m)	
greatest brilliancy	8759 Feb 12 14:55	17° る 48'28	-4.8m		8761 Aug 25 22:08	0∘ ಹ	
2 " " " " "	8759 Mar 04 03:21	0° ≈			8761 Sep 19 11:20	0° M .	
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	8761 Oct 14 08:35	0° ∡ ¹		desc. node	8764 Apr 19 17:10	2° Y 30'27	
desc. node	8761 Nov 02 20:28	23° ∡ ¹06'33			8764 May 11 21:56	9° 8	
	8761 Nov 08 17:39	5°0			8764 Jun 04 23:47	Π $^{\circ}0$	
	8761 Dec 04 20:41	0° ≈			8764 Jun 29 00:49	0°95	
	8762 Jan 01 09:13	0°) €		morning set	8764 Jul 13 07:09	17° © 46'33	
	8762 Jan 13 12:07	12°) 17'28	46920110	morning set		0°Ω	
evening max el			46°20'10		8764 Jul 23 02:57		
	8762 Feb 02 06:47	0° Υ		asc. node	8764 Aug 10 14:16	22° Ω 56′25	
greatest brilliancy	8762 Feb 22 10:08	12° Ƴ 03'43	-4.8m		8764 Aug 16 06:57	0° m y	
asc. node	8762 Feb 23 20:30	12° Ƴ 32'16					
retrograde	8762 Mar 04 07:49	13° Y 53'58		superior conj	8764 Aug 20 18:39	5° mp 33'33	0°24'23
evening set	8762 Mar 19 19:43	9° Ƴ 10'37		minimum elong	8764 Aug 20 13:20	5° m) 17'05	0°24'00
inferior conj	8762 Mar 24 23:19	6°Υ06'36	6°43'26	max. Earth dist.	8764 Aug 23 04:47	8° mp 33'32	1.72747 AU
·				max. Earth dist.	•		1./2/4/ AU
minimum elong	8762 Mar 24 12:13	6° Y 23′38	6°40'58		8764 Sep 09 12:49	0∘ ⊽	
min. Earth dist.	8762 Mar 24 19:09	6° Ƴ 12'59	0.27083 AU	evening rise	8764 Sep 26 20:49	21° ≏ 23'01	
morning rise	8762 Mar 29 04:41	3° Ƴ 34'04			8764 Oct 03 20:44	0° M	
	8762 Apr 05 12:34	30° ₹			8764 Oct 28 07:27	0° ∡ ″	
direct	8762 Apr 14 15:57	28°) 16'43			8764 Nov 21 22:02	8°0	
uncet	•	0°Υ		desc. node	8764 Nov 30 08:08	00 10° る 12'56	
	8762 Apr 24 04:04			desc. node			
greatest brilliancy	8762 Apr 24 11:34	0° Y 06'36	-4.9m		8764 Dec 16 17:19	0° ≈	
	8762 Jun 03 00:59	8° 0			8765 Jan 10 18:07	0° ℋ	
morning max el	8762 Jun 04 04:38	1° 8 09'10	46°56'50		8765 Feb 05 03:22	0° Y	
desc. node	8762 Jun 15 15:33	13° 8 03'07			8765 Mar 03 07:09	0°8	
·	8762 Jul 01 01:54	0°II		asc. node	8765 Mar 23 07:34	21° 8 37'00	
	8762 Jul 27 03:44	0° ©				25° 8 53'16	46°56'55
				evening max el	8765 Mar 27 11:58		40 30 33
	8762 Aug 21 12:16	0 $^{\circ}$ Ω			8765 Mar 31 15:22	0°П	
	8762 Sep 15 12:43	0° т р		greatest brilliancy	8765 May 07 02:13	26° Ⅱ 54'32	-4.9m
asc. node	8762 Oct 06 13:06	25° ™ 24'47		retrograde	8765 May 16 23:14	28° ∏ 44'46	
	8762 Oct 10 07:46	0∘ ⊽		evening set	8765 Jun 03 03:41	23° II 03'06	
	8762 Nov 03 22:04	0°M		inferior conj	8765 Jun 06 16:45	20° Ⅱ 53'29	7°49'58
	8762 Nov 28 08:18	0° ∡ 7		minimum elong	8765 Jun 07 02:46	20° ∏ 38′02	7°48'04
marning act		5° х 13'34				20° I I50'06	0.27206 AU
morning set	8762 Dec 02 14:06			min. Earth dist.	8765 Jun 06 18:57		0.27206 AU
	8762 Dec 22 15:36	0°రె		morning rise	8765 Jun 11 01:59	18° ∏ 14'49	
max. Earth dist.	8763 Jan 06 13:59	18° る 29'00	1.72682 AU	direct	8765 Jun 27 10:03	13° Ⅱ 05'46	
				greatest brilliancy	8765 Jul 07 03:40	14° ∏ 51'51	-4.8m
superior conj	8763 Jan 08 17:24	21° る 08'21	0°40'47	desc. node	8765 Jul 13 03:09	17° Ⅲ 28′15	
minimum elong	8763 Jan 09 01:46	21° る 34'14	0°40'38		8765 Jul 31 04:13	0°©	
8							
	8763 Jan 15 20:54	0° ~ ~		morning may el	8765 Aug 16 03:28	14°0335'29	46°17'16
44-	8763 Jan 15 20:54	0°≈		morning max el	8765 Aug 16 03:28	14° © 35'29	46°17'16
desc. node	8763 Jan 26 06:08	12° ≈ 53′29		morning max el	8765 Aug 31 05:58	$0^{\circ}\Omega$	46°17'16
	8763 Jan 26 06:08 8763 Feb 09 00:27	12°≈53′29 0° 米		morning max el		0° N 0° m	46°17'16
desc. node	8763 Jan 26 06:08	12°≈53'29 0°¥ 9°¥19'22		morning max el	8765 Aug 31 05:58	$0^{\circ}\Omega$	46°17'16
	8763 Jan 26 06:08 8763 Feb 09 00:27	12°≈53'29 0° 米		morning max el	8765 Aug 31 05:58 8765 Sep 27 13:46	0° N 0° m	46°17'16
	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17	12°≈53'29 0° X 9° X 19'22 0° Υ		·	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25	0° N 0° M 0° Ω 12° Ω 17'35	46°17'16
	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17 8763 Mar 29 03:02	12°≈53'29 0° X 9° X 19'22 0° Y 0° S		·	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25 8765 Nov 17 22:22	0°ብ 0° ጥ 0° ໑ 12° ໑ 17'35 0° ጤ	46°17'16
	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17 8763 Mar 29 03:02 8763 Apr 22 04:45	12°≈53'29 0°₩ 9°₩19'22 0°❤ 0°₩ 0°™		·	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25 8765 Nov 17 22:22 8765 Dec 12 18:28	0° Ω 0° m 0° Ω 12° Ω 17'35 0° M 0° ⊀	46°17'16
evening rise	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17 8763 Mar 29 03:02 8763 Apr 22 04:45 8763 May 16 10:43	12°≈53'29 0°₩ 9°₩19'22 0°Ψ 0°₩ 0°Ш		·	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25 8765 Nov 17 22:22 8765 Dec 12 18:28 8766 Jan 06 06:31	0°요 0°ሙ 0°亞 12°요17'35 0°째 0°♂	46°17'16
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evening rise asc. node	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17 8763 Mar 29 03:02 8763 Apr 22 04:45 8763 May 16 10:43 8763 May 19 04:20 8763 Jun 10 01:20 8763 Jul 05 07:27 8763 Jul 31 19:46	12°≈53'29 0° H 9° H 19'22 0° Y 0° B 0° I 0° S 3° S 21'39 0° Ω 0° M	45°56'28	asc. node morning set	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25 8765 Nov 17 22:22 8765 Dec 12 18:28 8766 Jan 06 06:31 8766 Jan 30 13:08 8766 Feb 10 19:45 8766 Feb 22 18:18	0° N 0° M 0° Ω 12° Ω 17'35 0° M 0° ౘ 0° ౘ 14° ≈ 00'24 28° ≈ 52'48	46°17'16
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evening rise asc. node evening max el	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17 8763 Mar 29 03:02 8763 Apr 22 04:45 8763 May 16 10:43 8763 May 19 04:20 8763 Jun 10 01:20 8763 Jul 05 07:27 8763 Jul 31 19:46 8763 Aug 21 01:29 8763 Aug 30 15:34	12°≈53'29 0° H 9° H 19'22 0° Y 0° B 0° B 0° B 0° B 0° B 21° £01'00 0° M	45°56'28	asc. node morning set	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25 8765 Nov 17 22:22 8765 Dec 12 18:28 8766 Jan 06 06:31 8766 Jan 30 13:08 8766 Feb 10 19:45 8766 Feb 22 18:18 8766 Feb 23 15:51	0° № 0° № 12° № 17'35 0° № 0° ॐ 14° ≈00'24 28° ≈52'48 0° ¥ 0° ¥	46°17'16 1.71493 AU
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evening rise asc. node evening max el desc. node greatest brilliancy	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17 8763 Mar 29 03:02 8763 Apr 22 04:45 8763 May 16 10:43 8763 May 19 04:20 8763 Jun 10 01:20 8763 Jul 05 07:27 8763 Jul 31 19:46 8763 Aug 21 01:29 8763 Aug 30 15:34 8763 Sep 08 00:02 8763 Sep 28 17:16	12°≈53'29 0° ₩ 9° ₩ 19'22 0° ❤ 0° ੴ 0° Ⅲ 0° ॐ 3° ॐ 21'39 0° ℳ 0° ∰ 0° ഛ 21° ጨ 01'00 0° ጤ 7° ጤ 04'07 19° ጤ 38'17		morning set desc. node max. Earth dist. superior conj	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25 8765 Nov 17 22:22 8765 Dec 12 18:28 8766 Jan 06 06:31 8766 Jan 30 13:08 8766 Feb 10 19:45 8766 Feb 22 18:18 8766 Feb 23 15:51 8766 Mar 19 15:33 8766 Mar 20 02:13	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 12° \$\mathcal{D}\$17'35 0° \$\mathcal{D}\$ 0° \$\mathcal{Z}\$ 0° \$\mathcal{Z}\$ 0° \$\mathcal{Z}\$ 4° \$\mathcal{D}\$ 01'27	1.71493 AU -1°01'45
evening rise asc. node evening max el desc. node	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17 8763 Mar 29 03:02 8763 Apr 22 04:45 8763 May 16 10:43 8763 May 19 04:20 8763 Jun 10 01:20 8763 Jul 05 07:27 8763 Jul 31 19:46 8763 Aug 21 01:29 8763 Aug 30 15:34 8763 Sep 08 00:02	12°≈53'29 0° ₩ 9° ₩ 19'22 0° Υ 0° ੴ 0° Ⅲ 0° ॐ 3° ॐ 21'39 0° № 0° ₾ 21° ₾ 01'00 0° № 7° № 04'07		morning set desc. node max. Earth dist.	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25 8765 Nov 17 22:22 8765 Dec 12 18:28 8766 Jan 06 06:31 8766 Feb 10 19:45 8766 Feb 22 18:18 8766 Feb 23 15:51 8766 Mar 19 15:33 8766 Mar 20 02:13	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 12° \$\mathcal{D}\$17'35 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 14° \$\approx 00'24 28° \$\approx 52'48 0° \$\mathcal{D}\$ 0° \$\mathca	1.71493 AU -1°01'45
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evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17 8763 Mar 29 03:02 8763 Apr 22 04:45 8763 May 16 10:43 8763 May 19 04:20 8763 Jun 10 01:20 8763 Jul 05 07:27 8763 Jul 31 19:46 8763 Aug 21 01:29 8763 Aug 30 15:34 8763 Sep 08 00:02 8763 Oct 09 06:16 8763 Oct 27 08:29 8763 Oct 30 18:41 8763 Oct 30 16:35 8763 Oct 30 10:13 8763 Nov 03 00:45	12°≈53'29 0° ₩ 9° ₩ 19'22 0° ❤ 0° ₩ 0° ™ 0° № 21° № 201'00 0° ™ 7° ™ 04'07 19° ™ 38'17 21° ™ 38'28 15° ™ 28'19 13° ™ 20'27 13° ™ 22'45 13° ™ 24'19 11° ™ 19'05	-4.7m -8°35'32 8°35'20	morning set desc. node max. Earth dist. superior conj minimum elong	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25 8765 Nov 17 22:22 8765 Dec 12 18:28 8766 Jan 06 06:31 8766 Feb 10 19:45 8766 Feb 22 18:18 8766 Feb 23 15:51 8766 Mar 19 15:33 8766 Mar 20 02:13 8766 Mar 22 08:55 8766 Apr 12 13:09 8766 May 02 04:35 8766 May 00 01:13 8766 May 30 08:56 8766 May 15 16:07	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 12° \$\mathcal{D}\$17'35 0° \$\mathcal{D}\$ 0° \$\infty\$ 0° \$\mathcal{D}\$ 0° \$\infty\$ 14° \$\infty\$00'24 28° \$\infty\$52'48 0° \$\mathcal{H}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 24° \$\mathcal{D}\$40'56 0° \$\mathcal{H}\$ 0° \$\mathcal{D}\$ 20° \$\mathcal{D}\$18'41	1.71493 AU -1°01'45
evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17 8763 Mar 29 03:02 8763 Apr 22 04:45 8763 May 16 10:43 8763 May 19 04:20 8763 Jun 10 01:20 8763 Jul 05 07:27 8763 Jul 31 19:46 8763 Aug 21 01:29 8763 Aug 30 15:34 8763 Sep 08 00:02 8763 Sep 28 17:16 8763 Oct 09 06:16 8763 Oct 30 16:41 8763 Oct 30 16:35 8763 Oct 30 16:13 8763 Nov 03 00:45 8763 Nov 21 08:12	12°≈53'29 0° ₩ 9° ₩ 19'22 0° ❤ 0° ₩ 0° Ⅲ 0° © 3° © 21'39 0° № 0° № 21° № 01'00 0° № 7° № 04'07 19° № 38'17 21° № 38'17 21° № 38'17 21° № 28'19 13° № 22'45 13° № 22'45 13° № 22'45 13° № 22'19 11° № 19'05 5° № 03'20	-4.7m -8°35'32 8°35'20 0.29157 AU	asc. node morning set desc. node max. Earth dist. superior conj minimum elong evening rise	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25 8765 Nov 17 22:22 8765 Dec 12 18:28 8766 Jan 06 06:31 8766 Feb 10 19:45 8766 Feb 22 18:18 8766 Feb 23 15:51 8766 Mar 19 15:33 8766 Mar 20 02:13 8766 Mar 22 08:55 8766 Apr 12 13:09 8766 May 02 04:35 8766 May 04:35 8766 May 05:56 8766 May 30 08:56 8766 Jun 15 16:07 8766 Jun 23 11:35	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 12° \$\mathcal{D}\$17'35 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 14° \$\mathcal{D}\$00'24 28° \$\mathcal{D}\$52'48 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 24° \$\mathcal{D}\$40'56 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 20° \$\mathcal{D}\$18'41 0° \$\mathcal{D}\$	1.71493 AU -1°01'45
evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17 8763 Mar 29 03:02 8763 Apr 22 04:45 8763 May 16 10:43 8763 May 19 04:20 8763 Jun 10 01:20 8763 Jul 05 07:27 8763 Jul 31 19:46 8763 Aug 21 01:29 8763 Aug 30 15:34 8763 Sep 08 00:02 8763 Oct 09 06:16 8763 Oct 27 08:29 8763 Oct 30 18:41 8763 Oct 30 16:35 8763 Oct 30 10:13 8763 Nov 03 00:45	12°≈53'29 0° ₩ 9° ₩ 19'22 0° ❤ 0° ₩ 0° ™ 0° № 21° № 201'00 0° ™ 7° ™ 04'07 19° ™ 38'17 21° ™ 38'28 15° ™ 28'19 13° ™ 20'27 13° ™ 22'45 13° ™ 24'19 11° ™ 19'05	-4.7m -8°35'32 8°35'20 0.29157 AU	asc. node morning set desc. node max. Earth dist. superior conj minimum elong evening rise	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25 8765 Nov 17 22:22 8765 Dec 12 18:28 8766 Jan 06 06:31 8766 Feb 10 19:45 8766 Feb 22 18:18 8766 Feb 23 15:51 8766 Mar 19 15:33 8766 Mar 20 02:13 8766 Mar 22 08:55 8766 Apr 12 13:09 8766 May 02 04:35 8766 May 00 01:13 8766 May 30 08:56 8766 May 15 16:07	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 12° \$\mathcal{D}\$17'35 0° \$\mathcal{D}\$ 0° \$\infty\$ 0° \$\mathcal{D}\$ 0° \$\infty\$ 14° \$\infty\$00'24 28° \$\infty\$52'48 0° \$\mathcal{H}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 24° \$\mathcal{D}\$40'56 0° \$\mathcal{H}\$ 0° \$\mathcal{D}\$ 20° \$\mathcal{D}\$18'41	1.71493 AU -1°01'45
evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17 8763 Mar 29 03:02 8763 Apr 22 04:45 8763 May 16 10:43 8763 May 19 04:20 8763 Jun 10 01:20 8763 Jul 05 07:27 8763 Jul 31 19:46 8763 Aug 21 01:29 8763 Aug 30 15:34 8763 Sep 08 00:02 8763 Sep 28 17:16 8763 Oct 09 06:16 8763 Oct 30 16:41 8763 Oct 30 16:35 8763 Oct 30 16:13 8763 Nov 03 00:45 8763 Nov 21 08:12	12°≈53'29 0° ₩ 9° ₩ 19'22 0° ❤ 0° ₩ 0° Ⅲ 0° ☞ 3° © 21'39 0° № 0° № 21° № 01'00 0° № 7° № 04'07 19° № 38'17 21° № 38'17 21° № 38'17 21° № 28'19 13° № 22'45 13° № 22'45 13° № 22'45 13° № 22'19 11° № 19'05 5° № 03'20	-4.7m -8°35'32 8°35'20 0.29157 AU	asc. node morning set desc. node max. Earth dist. superior conj minimum elong evening rise	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25 8765 Nov 17 22:22 8765 Dec 12 18:28 8766 Jan 06 06:31 8766 Feb 10 19:45 8766 Feb 22 18:18 8766 Feb 23 15:51 8766 Mar 19 15:33 8766 Mar 20 02:13 8766 Mar 22 08:55 8766 Apr 12 13:09 8766 May 02 04:35 8766 May 04:35 8766 May 05:56 8766 May 30 08:56 8766 Jun 15 16:07 8766 Jun 23 11:35	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 12° \$\mathcal{D}\$17'35 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 14° \$\mathcal{D}\$00'24 28° \$\mathcal{D}\$52'48 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 24° \$\mathcal{D}\$40'56 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 20° \$\mathcal{D}\$18'41 0° \$\mathcal{D}\$	1.71493 AU -1°01'45
evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17 8763 Mar 29 03:02 8763 Apr 22 04:45 8763 May 16 10:43 8763 May 19 04:20 8763 Jun 10 01:20 8763 Jul 05 07:27 8763 Jul 31 19:46 8763 Aug 21 01:29 8763 Aug 30 15:34 8763 Sep 08 00:02 8763 Sep 28 17:16 8763 Oct 09 06:16 8763 Oct 27 08:29 8763 Oct 30 16:35 8763 Oct 30 16:13 8763 Nov 03 00:45 8763 Nov 21 08:12 8763 Dec 01 16:29 8763 Dec 29 23:27	12°≈53'29 0° ₩ 9° ₩ 19'22 0° ❤ 0° ₩ 0° ™ 0° © 3° © 21'39 0° № 0° ™ 0° ™ 7° ™ 04'07 19° ™ 38'17 21° ™ 38'28 15° ™ 28'19 13° ™ 20'27 13° ™ 23'45 13° ™ 24'19 11° ™ 19'05 5° ™ 03'20 7° ™ 00'27	-4.7m -8°35'32 8°35'20 0.29157 AU	asc. node morning set desc. node max. Earth dist. superior conj minimum elong evening rise	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25 8765 Nov 17 22:22 8765 Dec 12 18:28 8766 Jan 06 06:31 8766 Jan 30 13:08 8766 Feb 10 19:45 8766 Feb 22 18:18 8766 Feb 23 15:51 8766 Mar 19 15:33 8766 Mar 20 02:13 8766 Mar 22 20:36 8766 Mar 22 08:55 8766 Apr 12 13:09 8766 May 02 04:35 8766 May 06 10:13 8766 May 30 08:56 8766 Jun 15 16:07 8766 Jun 23 11:35 8766 Aug 11 14:40	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 12° \$\mathcal{D}\$17'35 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 14° \$\infty\$00'24 28° \$\infty\$52'48 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 24° \$\mathcal{D}\$40'56 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 20° \$\mathcal{D}\$18'41 0° \$\mathcal{D}\$ 0°	1.71493 AU -1°01'45
evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17 8763 Mar 29 03:02 8763 Apr 22 04:45 8763 May 16 10:43 8763 May 19 04:20 8763 Jun 10 01:20 8763 Jul 05 07:27 8763 Jul 31 19:46 8763 Aug 21 01:29 8763 Aug 30 15:34 8763 Sep 08 00:02 8763 Sep 28 17:16 8763 Oct 09 06:16 8763 Oct 27 08:29 8763 Oct 30 16:35 8763 Oct 30 16:35 8763 Nov 03 00:45 8763 Dec 01 16:29 8763 Dec 29 23:27 8764 Jan 03 12:15	12°≈53'29 0° ★ 9° ★ 19'22 0° Y 0° ₺ 0° Ⅲ 0° ⑤ 3° ⑥ 21'39 0° № 0° № 21° № 01'00 0° № 7° № 04'07 19° № 38'17 21° № 38'17 21° № 38'28 15° № 28'19 13° № 22'7 13° № 23'45 13° № 24'19 11° № 19'05 5° № 03'20 7° № 00'27 25° № 53'01 0° 🗷	-4.7m -8°35'32 8°35'20 0.29157 AU -4.7m	asc. node morning set desc. node max. Earth dist. superior conj minimum elong evening rise	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25 8765 Nov 17 22:22 8765 Dec 12 18:28 8766 Jan 06 06:31 8766 Jan 30 13:08 8766 Feb 10 19:45 8766 Feb 22 18:18 8766 Feb 23 15:51 8766 Mar 19 15:33 8766 Mar 20 02:13 8766 Mar 22 20:36 8766 Mar 22 08:55 8766 Apr 12 13:09 8766 May 02 04:35 8766 May 02 04:35 8766 May 03 08:56 8766 Jun 15 16:07 8766 Jun 23 11:35 8766 Aug 11 14:40 8766 Sep 05 23:48	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 12° \$\mathcal{D}\$17'35 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 14° \$\infty\$00'24 28° \$\infty\$52'48 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 24° \$\mathcal{D}\$40'56 0° \$\mathcal{D}\$ 0° \$\mat	1.71493 AU -1°01'45
evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17 8763 Mar 29 03:02 8763 Apr 22 04:45 8763 May 16 10:43 8763 May 19 04:20 8763 Jun 10 01:20 8763 Jul 05 07:27 8763 Jul 31 19:46 8763 Aug 21 01:29 8763 Aug 21 01:29 8763 Aug 30 15:34 8763 Sep 08 00:02 8763 Sep 28 17:16 8763 Oct 09 06:16 8763 Oct 27 08:29 8763 Oct 30 18:41 8763 Oct 30 16:35 8763 Oct 30 16:35 8763 Nov 03 00:45 8763 Nov 21 08:12 8763 Dec 01 16:29 8763 Dec 29 23:27 8764 Jan 03 12:15 8764 Jan 09 14:43	12°≈53'29 0° ★ 9° ★19'22 0° Y 0° ₺ 0° Ⅱ 0° ⑤ 3° ⑥ 21'39 0° № 0° № 21° № 01'00 0° № 7° № 04'07 19° № 38'17 21° № 38'17 21° № 38'28 15° № 28'19 13° № 22'7 13° № 23'45 13° № 24'19 11° № 19'05 5° № 03'20 7° № 00'27 25° № 53'01 0° ৵ 5° ৵ 49'39	-4.7m -8°35'32 8°35'20 0.29157 AU	morning set desc. node max. Earth dist. superior conj minimum elong evening rise asc. node	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25 8765 Nov 17 22:22 8765 Dec 12 18:28 8766 Jan 06 06:31 8766 Jan 30 13:08 8766 Feb 10 19:45 8766 Feb 22 18:18 8766 Feb 23 15:51 8766 Mar 19 15:33 8766 Mar 20 02:13 8766 Mar 22 20:36 8766 Mar 22 08:55 8766 Apr 12 13:09 8766 May 02 04:35 8766 May 02 04:35 8766 May 03 08:56 8766 Jun 15 16:07 8766 Jun 23 11:35 8766 Aug 11 14:40 8766 Sep 05 23:48 8766 Oct 02 11:51	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 12° \$\mathcal{D}\$17'35 0° \$\mathcal{D}\$ 0° \$\mathcal{Z}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 14° \$\infty\$00'24 28° \$\infty\$52'48 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 24° \$\mathcal{D}\$40'56 0° \$\mathcal{D}\$ 20° \$\mathcal{D}\$18'41 0° \$\mathcal{D}\$ 0°	1.71493 AU -1°01'45
evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17 8763 Mar 29 03:02 8763 Apr 22 04:45 8763 May 16 10:43 8763 May 19 04:20 8763 Jun 10 01:20 8763 Jul 05 07:27 8763 Jul 31 19:46 8763 Aug 21 01:29 8763 Aug 30 15:34 8763 Sep 08 00:02 8763 Sep 28 17:16 8763 Oct 09 06:16 8763 Oct 27 08:29 8763 Oct 30 18:41 8763 Oct 30 16:35 8763 Oct 30 16:35 8763 Oct 30 16:13 8763 Nov 03 00:45 8763 Dec 01 16:29 8763 Dec 29 23:27 8764 Jan 03 12:15 8764 Jan 09 14:43 8764 Feb 01 16:40	12°≈53'29 0° X 9° X 19'22 0° Y 0° B 0° II 0° 3° 3° 3° 21'39 0° A 0° m 0° A 21° A01'00 0° II 7° II 04'07 19° II 38'28 15° II 28'19 13° II 29'19 13° II 29'19 13° II 29'19 11° II 19'05 5° II 03'20 7° II 00'27 25° II 53'01 0° ズ 5° ズ 49'39 0° G	-4.7m -8°35'32 8°35'20 0.29157 AU -4.7m	asc. node morning set desc. node max. Earth dist. superior conj minimum elong evening rise asc. node	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25 8765 Nov 17 22:22 8765 Dec 12 18:28 8766 Jan 06 06:31 8766 Feb 10 19:45 8766 Feb 22 18:18 8766 Feb 23 15:51 8766 Mar 19 15:33 8766 Mar 20 02:13 8766 Mar 22 08:55 8766 Mar 22 08:55 8766 Apr 12 13:09 8766 May 02 04:35 8766 May 02 04:35 8766 May 03 08:56 8766 Jun 15 16:07 8766 Jun 23 11:35 8766 Aug 11 14:40 8766 Sep 05 23:48 8766 Oct 02 11:51 8766 Oct 05 11:05	0° \$\mathbb{O}\$ 0° \$\mathbb{O}\$ 12° \$\mathbb{O}\$ 12° \$\mathbb{O}\$ 17'35 0° \$\mathbb{N}\$ 24° \$\mathbb{O}\$ 24° \$\mathbb{O}\$ 24° \$\mathbb{O}\$ 24° \$\mathbb{O}\$ 24° \$\mathbb{O}\$ 26° \$\mathbb{O}\$ 20° \$\mathbb{O}\$ 20° \$\mathbb{O}\$ 20° \$\mathbb{O}\$ 20° \$\mathbb{O}\$ 20° \$\mathbb{O}\$ 20° \$\mathbb{N}\$ 0° \$\math	1.71493 AU -1°01'45 1°01'20
evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17 8763 Mar 29 03:02 8763 Apr 22 04:45 8763 May 16 10:43 8763 May 19 04:20 8763 Jun 10 01:20 8763 Jul 05 07:27 8763 Jul 31 19:46 8763 Aug 21 01:29 8763 Aug 30 15:34 8763 Sep 08 00:02 8763 Sep 28 17:16 8763 Oct 09 06:16 8763 Oct 27 08:29 8763 Oct 30 18:41 8763 Oct 30 16:35 8763 Oct 30 16:35 8763 Oct 30 16:13 8763 Nov 03 00:45 8763 Nov 21 08:12 8763 Dec 29 23:27 8764 Jan 09 14:43 8764 Feb 01 16:40 8764 Feb 27 23:29	12°≈53'29 0° ★ 9° ★19'22 0° Y 0° ₺ 0° Ⅱ 0° ⑤ 3° ⑥ 21'39 0° ᠒ 0° № 0° 요 21° Ω 01'00 0° № 7° № 04'07 19° № 38'28 15° № 28'19 13° № 22'7 13° № 22'45 13° № 22'45 13° № 22'45 13° № 24'19 11° № 19'05 5° № 03'20 7° № 00'27 25° № 53'01 0° ⊀ 5° ⊀ 49'39 0° ጜ 0° ≈	-4.7m -8°35'32 8°35'20 0.29157 AU -4.7m	morning set desc. node max. Earth dist. superior conj minimum elong evening rise asc. node	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25 8765 Nov 17 22:22 8765 Dec 12 18:28 8766 Jan 06 06:31 8766 Feb 10 19:45 8766 Feb 22 18:18 8766 Feb 23 15:51 8766 Mar 19 15:33 8766 Mar 20 02:13 8766 Mar 22 08:55 8766 Apr 12 13:09 8766 May 02 04:35 8766 May 02 04:35 8766 May 03 08:56 8766 Jun 15 16:07 8766 Jun 23 11:35 8766 Aug 11 14:40 8766 Sep 05 23:48 8766 Oct 02 11:51 8766 Oct 05 11:05 8766 Oct 03 1 01:43	0° \$\mathbb{O}\$ 0° \$\mathbb{O}\$ 12° \$\mathbb{O}\$ 12° \$\mathbb{O}\$ 17'35 0° \$\mathbb{N}\$ 24° \$\mathbb{N}\$ 24° \$\mathbb{N}\$ 24° \$\mathbb{N}\$ 0°	1.71493 AU -1°01'45
evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17 8763 Mar 29 03:02 8763 Apr 22 04:45 8763 May 16 10:43 8763 May 19 04:20 8763 Jun 10 01:20 8763 Jul 05 07:27 8763 Jul 31 19:46 8763 Aug 21 01:29 8763 Aug 30 15:34 8763 Sep 08 00:02 8763 Sep 28 17:16 8763 Oct 09 06:16 8763 Oct 27 08:29 8763 Oct 30 18:41 8763 Oct 30 16:35 8763 Oct 30 16:35 8763 Oct 30 16:35 8763 Oct 30 16:13 8763 Nov 03 00:45 8763 Nov 03 00:45 8763 Dec 01 16:29 8763 Dec 29 23:27 8764 Jan 03 12:15 8764 Jan 09 14:43 8764 Feb 01 16:40 8764 Feb 27 23:29 8764 Mar 24 02:53	12°≈53'29 0° ★ 9° ★19'22 0° Y 0° ₺ 0° Ⅱ 0° ⑤ 3° ⑥ 21'39 0° Ω 0° № 0° △ 21° △ 201'00 0° № 7° № 04'07 19° № 38'17 21° № 38'28 15° № 28'19 13° № 22'7 13° № 22'7 13° № 23'45 13° № 22'7 25° № 53'01 0° ₺ 0° ₺ 0° ₺	-4.7m -8°35'32 8°35'20 0.29157 AU -4.7m	asc. node morning set desc. node max. Earth dist. superior conj minimum elong evening rise asc. node desc. node	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25 8765 Nov 17 22:22 8765 Dec 12 18:28 8766 Jan 06 06:31 8766 Feb 10 19:45 8766 Feb 22 18:18 8766 Feb 23 15:51 8766 Mar 19 15:33 8766 Mar 20 02:13 8766 Mar 22 08:55 8766 Mar 22 08:55 8766 Apr 12 13:09 8766 May 02 04:35 8766 May 02 04:35 8766 May 03 08:56 8766 Jun 15 16:07 8766 Jun 23 11:35 8766 Aug 11 14:40 8766 Sep 05 23:48 8766 Oct 02 11:51 8766 Oct 03 1 01:43 8766 Oct 31 01:43 8766 Oct 31 12:14	0° \$\mathcal{Q}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 12° \$\mathcal{D}\$17'35 0° \$\mathcal{D}\$ 0° \$\mathcal{Z}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 14° \$\infty\$00'24 28° \$\infty\$52'48 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 4° \$\mathcal{D}\$01'27 3° \$\mathcal{D}\$24'49 0° \$\mathcal{D}\$ 24° \$\mathcal{D}\$40'56 0° \$\mathcal{D}\$ 20° \$\mathcal{D}\$18'41 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 3° \$\mathcal{D}\$14'18 29° \$\mathcal{D}\$34'54 0° \$\mathcal{D}\$	1.71493 AU -1°01'45 1°01'20
evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8763 Jan 26 06:08 8763 Feb 09 00:27 8763 Feb 16 12:10 8763 Mar 05 02:17 8763 Mar 29 03:02 8763 Apr 22 04:45 8763 May 16 10:43 8763 May 19 04:20 8763 Jun 10 01:20 8763 Jul 05 07:27 8763 Jul 31 19:46 8763 Aug 21 01:29 8763 Aug 30 15:34 8763 Sep 08 00:02 8763 Sep 28 17:16 8763 Oct 09 06:16 8763 Oct 27 08:29 8763 Oct 30 18:41 8763 Oct 30 16:35 8763 Oct 30 16:35 8763 Oct 30 16:13 8763 Nov 03 00:45 8763 Nov 21 08:12 8763 Dec 29 23:27 8764 Jan 09 14:43 8764 Feb 01 16:40 8764 Feb 27 23:29	12°≈53'29 0° ★ 9° ★19'22 0° Y 0° ₺ 0° Ⅱ 0° ⑤ 3° ⑥ 21'39 0° ᠒ 0° № 0° 요 21° Ω 01'00 0° № 7° № 04'07 19° № 38'28 15° № 28'19 13° № 22'7 13° № 22'45 13° № 22'45 13° № 22'45 13° № 24'19 11° № 19'05 5° № 03'20 7° № 00'27 25° № 53'01 0° ⊀ 5° ₹ 49'39 0° ጜ 0° ≈	-4.7m -8°35'32 8°35'20 0.29157 AU -4.7m	asc. node morning set desc. node max. Earth dist. superior conj minimum elong evening rise asc. node	8765 Aug 31 05:58 8765 Sep 27 13:46 8765 Oct 23 14:39 8765 Nov 03 01:25 8765 Nov 17 22:22 8765 Dec 12 18:28 8766 Jan 06 06:31 8766 Feb 10 19:45 8766 Feb 22 18:18 8766 Feb 23 15:51 8766 Mar 19 15:33 8766 Mar 20 02:13 8766 Mar 22 08:55 8766 Apr 12 13:09 8766 May 02 04:35 8766 May 02 04:35 8766 May 03 08:56 8766 Jun 15 16:07 8766 Jun 23 11:35 8766 Aug 11 14:40 8766 Sep 05 23:48 8766 Oct 02 11:51 8766 Oct 05 11:05 8766 Oct 03 1 01:43	0° \$\mathbb{O}\$ 0° \$\mathbb{O}\$ 12° \$\mathbb{O}\$ 12° \$\mathbb{O}\$ 17'35 0° \$\mathbb{N}\$ 24° \$\mathbb{N}\$ 24° \$\mathbb{N}\$ 24° \$\mathbb{N}\$ 0°	1.71493 AU -1°01'45 1°01'20

retrograde	8766 Dec 18 19:38	29° る 24'50		superior conj	8769 Jun 06 13:05	20° ∏ 46'42	-1°14'41
evening set	8767 Jan 03 13:14	24° る 40'42		minimum elong	8769 Jun 06 23:35	21° Ⅱ 19'40	1°14'38
inferior conj	8767 Jan 08 23:24	21° る 25'32	-4°10'47	max. Earth dist.	8769 Jun 09 00:33	23° Ⅲ 53'12	1.71487 AU
minimum elong	8767 Jan 09 07:50	21° る 12'23	4°08'17		8769 Jun 13 21:35	0°ಅ	
min. Earth dist.	8767 Jan 09 19:03	20°る54'56	0.28106 AU		8769 Jul 07 21:39	$0^{\circ}\Omega$	
morning rise	8767 Jan 15 01:40	17° る 45'59	0.20100110	asc. node	8769 Jul 13 04:04	6° Ω 33'44	
asc. node	8767 Jan 26 11:00	13° る 33'23		evening rise	8769 Jul 16 10:50	10° Ω 38'44	
	8767 Jan 30 03:43	13° ප 16'45		evening rise		0°M)	
direct			4.0		8769 Aug 01 01:10		
greatest brilliancy	8767 Feb 10 07:24	15° る 34'22	-4.8m		8769 Aug 25 08:58	0∘ ⊽	
	8767 Mar 04 12:39	0° ≈			8769 Sep 18 22:29	0° ™	
morning max el	8767 Mar 21 09:51	15° ≈ 43'13	46°42'31		8769 Oct 13 20:18	0° ∡	
	8767 Apr 04 01:35	0° ∀		desc. node	8769 Nov 01 22:31	22° ∡ 35′56	
	8767 Apr 30 15:56	0 ° Υ			8769 Nov 08 06:25	0°₹	
desc. node	8767 May 18 05:32	20° Ƴ 43'58			8769 Dec 04 11:27	0° ≈	
	8767 May 25 23:02	0°B			8770 Jan 01 04:34	0° ∀	
	8767 Jun 19 16:18	$\Pi^{\circ}0$		evening max el	8770 Jan 11 03:14	10° ₩ 00'55	46°18'33
	8767 Jul 14 03:39	0°ಅ		Ü	8770 Feb 02 22:46	$0^{\circ}\Upsilon$	
	8767 Aug 07 13:12	$0^{\circ}\Omega$		greatest brilliancy	8770 Feb 19 22:38	9° Υ 39'09	-4.8m
	8767 Aug 31 22:29	0° m)		asc. node	8770 Feb 22 22:24	10° Υ 34'11	4.0111
aca mada	Č	8° Mp 49'23			8770 Mar 01 20:56	10 γ 34 11 11° γ 29'23	
asc. node	8767 Sep 08 02:35			retrograde			
morning set	8767 Sep 22 17:45	26° m 50'02		evening set	8770 Mar 17 05:07	6° Y 51'18	
	8767 Sep 25 07:27	0∘ ⊽		inferior conj	8770 Mar 22 12:14	3° Y 42'04	6°26'35
	8767 Oct 19 15:47	0°M₊		minimum elong	8770 Mar 22 01:09	3° Y 59′05	6°24'01
				min. Earth dist.	8770 Mar 22 08:13	3° Y 48'14	0.27085 AU
superior conj	8767 Oct 29 13:32	12°M12'58	1°25'21	morning rise	8770 Mar 26 21:10	1° Y 04'18	
minimum elong	8767 Oct 29 11:11	12°M05'44	1°25'29		8770 Mar 28 19:26	30° Ŗ ₩	
max. Earth dist.	8767 Oct 29 09:02	11°M59'06	1.73297 AU	direct	8770 Apr 12 05:41	25°) 52′12	
	8767 Nov 12 23:42	0° ∡ ¹		greatest brilliancy	8770 Apr 22 00:55	27°) 41′55	-4.9m
evening rise	8767 Dec 05 06:44	27° ∡ ¹28'40		,	8770 Apr 27 07:43	$0^{\circ}\mathbf{Y}$	
8 11	8767 Dec 07 07:53	0°ප		morning max el	8770 Jun 01 18:28	28° Y 46'56	46°57'29
desc. node	8767 Dec 28 20:00	26° る 28'33		moning mun vi	8770 Jun 02 23:26	0°8	.0 0, 2,
dese. Hode	8767 Dec 31 16:44	0°≈		desc. node	8770 Jun 14 17:34	12° 8 18'11	
		0 ∞ 0° ∀		desc. Hode		0° Ⅱ	
	8768 Jan 25 02:04				8770 Jun 30 17:53		
	8768 Feb 18 11:54	0° Υ			8770 Jul 26 17:17	0°50	
	8768 Mar 13 23:47	0°B			8770 Aug 21 00:34	0 ° Ω	
	8768 Apr 07 18:13	Π °0			8770 Sep 15 00:16	0° ™	
asc. node	8768 Apr 19 18:49	14° Ⅱ 19'28		asc. node	8770 Oct 05 15:01	24° Mp 56'51	
	8768 May 03 04:35	0 \circ ∞			8770 Oct 09 18:50	0∘ ত	
	8768 May 30 04:28	$0 {\circ} \Omega$			8770 Nov 03 08:50	0° M ₊	
evening max el	8768 Jun 07 17:35	8° Ω 48′08	46°41'28		8770 Nov 27 18:55	0° ∡ ¹	
	8768 Jul 01 13:05	0° m)		morning set	8770 Nov 30 07:09	3° ∡ ¹05'32	
greatest brilliancy	8768 Jul 16 23:34	8° m 57'57	-4.8m	-	8770 Dec 22 02:11	აი	
retrograde	8768 Jul 27 23:25	11° m)12'51		max. Earth dist.	8771 Jan 04 05:30	16° る 15'38	1.72717 AU
desc. node	8768 Aug 09 14:37	8° m 01'16					
evening set	8768 Aug 11 20:26	6° Mp 51'56		superior conj	8771 Jan 06 08:44	18° る 54'17	0°43'49
min. Earth dist.	8768 Aug 17 13:47	3° Mp 28'36	0.28050 AU	minimum elong	8771 Jan 06 17:28	19° る 21'21	0°43'40
	Č			minimum ciong			0 43 40
inferior conj	8768 Aug 18 04:49	3° Mp 05'19 3° Mp 12'37		daga rada	8771 Jan 15 07:32	0° ≈ 12° ≈ 26'06	
minimum elong	8768 Aug 18 00:06		2.03.47	desc. node	8771 Jan 25 07:59		
	8768 Aug 23 08:04	30°R€			8771 Feb 08 11:13	0°) {	
morning rise	8768 Aug 24 04:22	29° Ω 31'44		evening rise	8771 Feb 14 01:46	6° ¥ 58'36	
direct	8768 Sep 08 06:57	25° Ω 06′19			8771 Mar 04 13:12	0° Y	
greatest brilliancy	8768 Sep 18 01:07	26° Ω 49'46	-4.8m		8771 Mar 28 14:10	9° 8	
	8768 Sep 25 06:55	0° m)			8771 Apr 21 16:09	Π $^{\circ}0$	
morning max el	8768 Oct 27 01:23	24° m 53'34	45°43'03		8771 May 15 22:30	0 \circ \odot	
	8768 Nov 01 07:21	0∘ ⊽		asc. node	8771 May 18 06:24	2° © 51'38	
	8768 Nov 29 16:01	0°M			8771 Jun 09 13:47	$0^{\circ}\Omega$	
asc. node	8768 Nov 30 13:44	1°M00'22			8771 Jul 04 21:09	0° m)	
	8768 Dec 25 21:47	0° ∡ 7			8771 Jul 31 12:25	0∘ <u>v</u>	
	8769 Jan 20 03:11	°ੇਂਤ		evening max el	8771 Aug 18 17:11	0 — 18° ≏ 49'08	45°57'31
	8769 Feb 13 18:55	0°≈		Storming man or	_	0°M	15 5/51
				daga rada	8771 Aug 30 18:48		
1 1	8769 Mar 10 02:22	0°)(desc. node	8771 Sep 07 01:55	6°M00'22	4.7
desc. node	8769 Mar 22 06:39	15°) €08'28		greatest brilliancy	8771 Sep 26 08:56	17°M28'48	-4.7m
	8769 Apr 03 04:24	0° Υ		retrograde	8771 Oct 06 21:59	19°M29'11	
morning set	8769 Apr 27 04:10	0° 8 03'55		evening set	8771 Oct 24 23:01	13°M21'54	
	8769 Apr 27 02:55	0°8		inferior conj	8771 Oct 28 10:59	11°M11'11	
	8769 May 20 23:56	Π °0		minimum elong	8771 Oct 28 08:08	11°ML15'41	8°32'53
				min. Earth dist.	8771 Oct 28 07:30	11°M16'41	0.29153 AU

	0771 0 4 21 17 10	0000 00112		1	0774 1 14 10 02	100540124	
morning rise	8771 Oct 31 17:19	9°M09'13		asc. node	8774 Jun 14 18:03	19° © 49'34	
direct	8771 Nov 19 00:30	2°M54'28			8774 Jun 22 22:57	0 $^{\circ}$ Ω	
greatest brilliancy	8771 Nov 29 07:30	4°M50'00	-4.7m		8774 Jul 17 08:10	0° т р	
asc. node	8771 Dec 29 01:23	24°M57'42			8774 Aug 11 02:57	0∘ ⊽	
	8772 Jan 03 12:11	0° ∡ 7			8774 Sep 05 13:11	0° M	
morning max el	8772 Jan 07 05:08	3° ∡ ³34'19	45°56'01		8774 Oct 02 03:42	0° ∡ ¹	
	8772 Feb 01 08:44	8°0		desc. node	8774 Oct 04 13:11	2° ∡ ³35'57	
	8772 Feb 27 13:04	0° ≈		evening max el	8774 Oct 28 16:04	27° ∡ °20′27	45°43'48
	8772 Mar 23 15:19	0°) €		Ü	8774 Oct 31 11:33	0°₹	
	8772 Apr 17 04:06	0°Υ		greatest brilliancy	8774 Dec 06 23:03	25° る 32'02	-4.8m
desc. node	8772 Apr 18 19:09	2°Υ00'20		retrograde	8774 Dec 16 10:28	27° る 10'32	1.0111
dese. Hode	8772 May 11 09:22	0°8		evening set	8775 Jan 01 06:39	27° ろ 21'50	
	•	0°II		•			492011.0
	8772 Jun 04 10:57			inferior conj	8775 Jan 06 14:24	19°る10'06	
	8772 Jun 28 11:46	0°©		minimum elong	8775 Jan 06 23:16	18° る 56'18	
morning set	8772 Jul 10 21:24	15° © 27'43		min. Earth dist.	8775 Jan 07 10:16	18° る 39'13	0.28168 AU
	8772 Jul 22 13:44	$0 {\circ} \Omega$		morning rise	8775 Jan 12 15:10	15° る 32'49	
asc. node	8772 Aug 09 16:08	22° Ω 29'07		asc. node	8775 Jan 25 12:55	11° る 06'34	
	8772 Aug 15 17:36	0° m		direct	8775 Jan 27 19:22	11° る 00'18	
				greatest brilliancy	8775 Feb 07 23:38	13° る 18'54	-4.8m
superior conj	8772 Aug 18 10:28	3° m/20'55	0°21'03		8775 Mar 04 19:58	0° ≈	
minimum elong	8772 Aug 18 05:48	3° Mp 06'30	0°20'43	morning max el	8775 Mar 19 01:42	13° ≈ 26'41	46°41'06
max. Earth dist.	8772 Aug 20 23:02	6° m 28'30	1.72706 AU	· ·	8775 Apr 03 19:48	0° ¥	
max. Lutin dist.	8772 Sep 08 23:26	0° ⊡	1.72700110		8775 Apr 30 06:43	0° Υ	
evening rise	8772 Sep 08 23:20 8772 Sep 24 14:19	0 = 19° £ 16'12		desc. node	8775 May 17 07:36	20° Υ '09'31	
evening rise	•			desc. Hode	•		
	8772 Oct 03 07:26	0°M			8775 May 25 12:15	0° B	
	8772 Oct 27 18:22	0° ∡ 7			8775 Jun 19 04:38	0°II	
	8772 Nov 21 09:19	0°ಕ			8775 Jul 13 15:25	0° ©	
desc. node	8772 Nov 29 10:08	9° る 44'19			8775 Aug 07 00:34	0 $^{\circ}$ Ω	
	8772 Dec 16 05:09	0° ≈			8775 Aug 31 09:34	0° т р	
	8773 Jan 10 06:49	0° ∀		asc. node	8775 Sep 07 04:33	8° m 21'34	
	8773 Feb 04 17:32	0° Y		morning set	8775 Sep 20 10:26	24° Mp 40'00	
	8773 Mar 03 00:10	0°8			8775 Sep 24 18:20	0∘ ত	
asc. node	8773 Mar 22 09:34	20° 8 46'39			8775 Oct 19 02:33	0° M ₊	
evening max el	8773 Mar 25 00:17	23° 8 25'55	46°56'18				
C V CHILLE HILLA CI	0//3 Iviai 23 00.1/	23 023 33	40 30 10				
evening max er		0° I	40 30 18	superior conj	8775 Oct 27 07:19	10° M L06'37	1°24'54
	8773 Mar 31 16:36	$\Pi^{\circ}0$		superior conj	8775 Oct 27 07:19 8775 Oct 27 04:17		
greatest brilliancy	8773 Mar 31 16:36 8773 May 04 16:52	0°Ⅱ 24°Ⅱ30'47		minimum elong	8775 Oct 27 04:17	9° M 57'14	1°25'01
greatest brilliancy retrograde	8773 Mar 31 16:36 8773 May 04 16:52 8773 May 14 11:54	0°Ⅱ 24°Ⅱ30'47 26°Ⅱ19'41			8775 Oct 27 04:17 8775 Oct 27 06:20	9°M57'14 10°M03'35	
greatest brilliancy retrograde evening set	8773 Mar 31 16:36 8773 May 04 16:52 8773 May 14 11:54 8773 May 31 20:17	0°П 24°П30'47 26°П19'41 20°П33'09	-4.9m	minimum elong max. Earth dist.	8775 Oct 27 04:17 8775 Oct 27 06:20 8775 Nov 12 10:28	9° ጤ 57'14 10° ጤ 03'35 0° ኦ	1°25'01
greatest brilliancy retrograde evening set inferior conj	8773 Mar 31 16:36 8773 May 04 16:52 8773 May 14 11:54 8773 May 31 20:17 8773 Jun 04 05:50	0°П 24°П30'47 26°П19'41 20°П33'09 18°П28'54	-4.9m 8°02'17	minimum elong	8775 Oct 27 04:17 8775 Oct 27 06:20 8775 Nov 12 10:28 8775 Dec 02 23:40	9°M57'14 10°M03'35 0°⊀ 25°⊀19'35	1°25'01
greatest brilliancy retrograde evening set inferior conj minimum elong	8773 Mar 31 16:36 8773 May 04 16:52 8773 May 14 11:54 8773 May 31 20:17 8773 Jun 04 05:50 8773 Jun 04 15:23	0°П 24°П30'47 26°П19'41 20°П33'09 18°П28'54 18°П14'08	-4.9m 8°02'17 8°00'34	minimum elong max. Earth dist. evening rise	8775 Oct 27 04:17 8775 Oct 27 06:20 8775 Nov 12 10:28 8775 Dec 02 23:40 8775 Dec 06 18:45	9°N.57'14 10°N.03'35 0°メ 25°メ19'35 0°る	1°25'01
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	8773 Mar 31 16:36 8773 May 04 16:52 8773 May 14 11:54 8773 May 31 20:17 8773 Jun 04 05:50 8773 Jun 04 15:23 8773 Jun 04 08:31	0°П 24°П30'47 26°П19'41 20°П33'09 18°П28'54 18°П14'08 18°П24'45	-4.9m 8°02'17	minimum elong max. Earth dist.	8775 Oct 27 04:17 8775 Oct 27 06:20 8775 Nov 12 10:28 8775 Dec 02 23:40 8775 Dec 06 18:45 8775 Dec 27 21:54	9°肌57'14 10°肌03'35 0°メ 25°メ19'35 0°る 26°る00'21	1°25'01
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8773 Mar 31 16:36 8773 May 04 16:52 8773 May 14 11:54 8773 May 31 20:17 8773 Jun 04 05:50 8773 Jun 04 05:23 8773 Jun 04 08:31 8773 Jun 08 10:34	0°П 24°П30'47 26°П19'41 20°П33'09 18°П28'54 18°П14'08 18°П24'45 15°П56'34	-4.9m 8°02'17 8°00'34	minimum elong max. Earth dist. evening rise	8775 Oct 27 04:17 8775 Oct 27 06:20 8775 Nov 12 10:28 8775 Dec 02 23:40 8775 Dec 06 18:45 8775 Dec 27 21:54 8775 Dec 31 03:50	9°M57'14 10°M03'35 0° ₹ 25° ₹19'35 0° ₹ 26° ₹00'21 0° ≈	1°25'01
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8773 Mar 31 16:36 8773 May 04 16:52 8773 May 14 11:54 8773 May 31 20:17 8773 Jun 04 05:50 8773 Jun 04 08:31 8773 Jun 04 08:31 8773 Jun 08 10:34 8773 Jun 24 22:16	0°П 24°П30'47 26°П19'41 20°П33'09 18°П28'54 18°П14'08 18°П24'45 15°П56'34 10°П41'02	-4.9m 8°02'17 8°00'34 0.27195 AU	minimum elong max. Earth dist. evening rise	8775 Oct 27 04:17 8775 Oct 27 06:20 8775 Nov 12 10:28 8775 Dec 02 23:40 8775 Dec 06 18:45 8775 Dec 27 21:54 8775 Dec 31 03:50 8776 Jan 24 13:31	9°M57'14 10°M03'35 0°₹ 25°₹19'35 0°℧ 26°℧00'21 0°≈ 0°ዢ	1°25'01
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8773 Mar 31 16:36 8773 May 04 16:52 8773 May 14 11:54 8773 May 31 20:17 8773 Jun 04 05:50 8773 Jun 04 05:23 8773 Jun 04 08:31 8773 Jun 08 10:34	0°П 24°П30'47 26°П19'41 20°П33'09 18°П28'54 18°П14'08 18°П24'45 15°П56'34	-4.9m 8°02'17 8°00'34 0.27195 AU	minimum elong max. Earth dist. evening rise	8775 Oct 27 04:17 8775 Oct 27 06:20 8775 Nov 12 10:28 8775 Dec 02 23:40 8775 Dec 06 18:45 8775 Dec 27 21:54 8775 Dec 31 03:50	9°M57'14 10°M03'35 0° ₹ 25° ₹19'35 0° ₹ 26° ₹00'21 0° ≈	1°25'01
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8773 Mar 31 16:36 8773 May 04 16:52 8773 May 14 11:54 8773 May 31 20:17 8773 Jun 04 05:50 8773 Jun 04 08:31 8773 Jun 04 08:31 8773 Jun 08 10:34 8773 Jun 24 22:16	0°П 24°П30'47 26°П19'41 20°П33'09 18°П28'54 18°П14'08 18°П24'45 15°П56'34 10°П41'02	-4.9m 8°02'17 8°00'34 0.27195 AU	minimum elong max. Earth dist. evening rise	8775 Oct 27 04:17 8775 Oct 27 06:20 8775 Nov 12 10:28 8775 Dec 02 23:40 8775 Dec 06 18:45 8775 Dec 27 21:54 8775 Dec 31 03:50 8776 Jan 24 13:31	9°M57'14 10°M03'35 0°₹ 25°₹19'35 0°℧ 26°℧00'21 0°≈ 0°ዢ	1°25'01
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8773 Mar 31 16:36 8773 May 04 16:52 8773 May 14 11:54 8773 May 31 20:17 8773 Jun 04 05:50 8773 Jun 04 08:31 8773 Jun 04 08:31 8773 Jun 08 10:34 8773 Jun 24 22:16 8773 Jul 04 17:01	0°П 24°П30'47 26°П19'41 20°П33'09 18°П28'54 18°П14'08 18°П24'45 15°П56'34 10°П41'02 12°П27'49	-4.9m 8°02'17 8°00'34 0.27195 AU	minimum elong max. Earth dist. evening rise	8775 Oct 27 04:17 8775 Oct 27 06:20 8775 Nov 12 10:28 8775 Dec 02 23:40 8775 Dec 06 18:45 8775 Dec 27 21:54 8775 Dec 31 03:50 8776 Jan 24 13:31 8776 Feb 17 23:49	9°M57'14 10°M03'35 0° 25° 19'35 0° 26° 300'21 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°	1°25'01
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8773 Mar 31 16:36 8773 May 04 16:52 8773 May 14 11:54 8773 May 31 20:17 8773 Jun 04 05:50 8773 Jun 04 05:53 8773 Jun 04 08:31 8773 Jun 08 10:34 8773 Jun 24 22:16 8773 Jul 04 17:01 8773 Jul 12 05:04	0°П 24°П30'47 26°П19'41 20°П33'09 18°П28'54 18°П14'08 18°П24'45 15°П56'34 10°П41'02 12°П27'49 15°П53'18	-4.9m 8°02'17 8°00'34 0.27195 AU -4.8m	minimum elong max. Earth dist. evening rise	8775 Oct 27 04:17 8775 Oct 27 06:20 8775 Nov 12 10:28 8775 Dec 02 23:40 8775 Dec 06 18:45 8775 Dec 27 21:54 8775 Dec 31 03:50 8776 Jan 24 13:31 8776 Feb 17 23:49 8776 Mar 13 12:19	9°M57'14 10°M03'35 0°ズ 25°ズ19'35 0°云 26°云00'21 0°≈ 0°升 0°Y 0°Y	1°25'01
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8773 Mar 31 16:36 8773 May 04 16:52 8773 May 14 11:54 8773 May 31 20:17 8773 Jun 04 05:50 8773 Jun 04 05:50 8773 Jun 04 08:31 8773 Jun 08 10:34 8773 Jun 04 17:01 8773 Jul 04 17:01 8773 Jul 12 05:04 8773 Jul 31 12:29	0°П 24°П30'47 26°П19'41 20°П33'09 18°П28'54 18°П14'08 18°П24'45 15°П56'34 10°П41'02 12°П27'49 15°П53'18 0°©	-4.9m 8°02'17 8°00'34 0.27195 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node	8775 Oct 27 04:17 8775 Oct 27 06:20 8775 Nov 12 10:28 8775 Dec 02 23:40 8775 Dec 06 18:45 8775 Dec 27 21:54 8775 Dec 31 03:50 8776 Jan 24 13:31 8776 Feb 17 23:49 8776 Mar 13 12:19 8776 Apr 07 07:44	9°M57'14 10°M03'35 0°ズ 25°ズ19'35 0°云 26°云00'21 0°≈ 0°升 0°升 0°円	1°25'01
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8773 Mar 31 16:36 8773 May 04 16:52 8773 May 14 11:54 8773 May 31 20:17 8773 Jun 04 05:50 8773 Jun 04 05:50 8773 Jun 04 08:31 8773 Jun 08 10:34 8773 Jun 24 22:16 8773 Jul 04 17:01 8773 Jul 12 05:04 8773 Jul 31 12:29 8773 Aug 13 16:31 8773 Aug 31 00:14	0° II 24° II 30'47 26° II 19'41 20° II 33'09 18° II 28'54 18° II 14'08 18° II 24'45 15° II 56'34 10° II 41'02 12° II 27'49 15° II 53'18 0° € 12° € 13'11	-4.9m 8°02'17 8°00'34 0.27195 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node	8775 Oct 27 04:17 8775 Oct 27 06:20 8775 Nov 12 10:28 8775 Dec 02 23:40 8775 Dec 06 18:45 8775 Dec 27 21:54 8775 Dec 31 03:50 8776 Jan 24 13:31 8776 Feb 17 23:49 8776 Mar 13 12:19 8776 Apr 07 07:44 8776 Apr 18 20:52 8776 May 02 19:57	9°M57'14 10°M03'35 0° ₹ 25° ₹19'35 0° ₹ 26° ₹00'21 0° ≈ 0° ¥ 0° Υ 0° ¥ 0° Υ	1°25'01
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8773 Mar 31 16:36 8773 May 04 16:52 8773 May 14 11:54 8773 May 31 20:17 8773 Jun 04 05:50 8773 Jun 04 05:50 8773 Jun 04 08:31 8773 Jun 08 10:34 8773 Jun 04 17:01 8773 Jul 04 17:01 8773 Jul 12 05:04 8773 Jul 31 12:29 8773 Aug 13 16:31 8773 Aug 31 00:14 8773 Sep 27 04:11	0°Π 24°Π30'47 26°Π19'41 20°Π33'09 18°Π28'54 18°Π14'08 18°Π24'45 15°Π56'34 10°Π41'02 12°Π27'49 15°Π53'18 0°Φ 12°Φ13'11 0°Ω 0°M	-4.9m 8°02'17 8°00'34 0.27195 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node	8775 Oct 27 04:17 8775 Oct 27 06:20 8775 Nov 12 10:28 8775 Dec 02 23:40 8775 Dec 06 18:45 8775 Dec 27 21:54 8775 Dec 31 03:50 8776 Jan 24 13:31 8776 Feb 17 23:49 8776 Mar 13 12:19 8776 Apr 07 07:44 8776 Apr 18 20:52 8776 May 02 19:57 8776 May 30 00:24	9°M57'14 10°M03'35 0° ₹ 25° ₹19'35 0° ₹ 26° ₹00'21 0° ≈ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° \$ 0° \$ 0° \$ 0° \$ 0° \$ 0° \$ 0° \$ 0° \$	1°25'01 1.73296 AU
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	8773 Mar 31 16:36 8773 May 04 16:52 8773 May 14 11:54 8773 May 31 20:17 8773 Jun 04 05:50 8773 Jun 04 05:31 8773 Jun 04 08:31 8773 Jun 08 10:34 8773 Jun 04 17:01 8773 Jul 04 17:01 8773 Jul 12 05:04 8773 Jul 31 12:29 8773 Aug 13 16:31 8773 Aug 31 00:14 8773 Sep 27 04:11 8773 Oct 23 03:20	0° Π 24° Π30'47 26° Π19'41 20° Π33'09 18° Π28'54 18° Π14'08 18° Π24'45 15° Π56'34 10° Π41'02 12° Π27'49 15° Π53'18 0° © 12° © 13'11 0° Ω 0° M 0° M	-4.9m 8°02'17 8°00'34 0.27195 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node	8775 Oct 27 04:17 8775 Oct 27 06:20 8775 Nov 12 10:28 8775 Dec 02 23:40 8775 Dec 06 18:45 8775 Dec 27 21:54 8775 Dec 31 03:50 8776 Jan 24 13:31 8776 Feb 17 23:49 8776 Apr 07 07:44 8776 Apr 18 20:52 8776 May 02 19:57 8776 May 30 00:24 8776 Jun 05 09:08	9°M57'14 10°M03'35 0° ₹ 25° ₹19'35 0° ₹ 26° ₹00'21 0° ≈ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° \$ 0° \$ 0° \$ 0° \$ 0° \$ 0° \$ 0° \$ 0° \$	1°25'01
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greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	8773 Mar 31 16:36 8773 May 04 16:52 8773 May 14 11:54 8773 May 31 20:17 8773 Jun 04 05:50 8773 Jun 04 05:50 8773 Jun 04 08:31 8773 Jun 08 10:34 8773 Jun 08 10:34 8773 Jul 04 17:01 8773 Jul 12 05:04 8773 Jul 31 12:29 8773 Aug 13 16:31 8773 Aug 31 00:14 8773 Sep 27 04:11 8773 Oct 23 03:20 8773 Nov 02 03:31 8773 Nov 17 10:09	0° II 24° II 30'47 26° II 19'41 20° II 33'09 18° II 28'54 18° II 14'08 18° II 24'45 15° II 56'34 10° II 41'02 12° II 27'49 15° II 53'18 0° II 0° Ω 0° II 0° Ω 0° II 11° Δ47'34 0° III 0° III	-4.9m 8°02'17 8°00'34 0.27195 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node asc. node evening max el greatest brilliancy	8775 Oct 27 04:17 8775 Oct 27 06:20 8775 Nov 12 10:28 8775 Dec 02 23:40 8775 Dec 06 18:45 8775 Dec 27 21:54 8775 Dec 31 03:50 8776 Jan 24 13:31 8776 Feb 17 23:49 8776 Apr 07 07:44 8776 Apr 18 20:52 8776 May 02 19:57 8776 May 30 00:24 8776 Jun 05 09:08 8776 Jul 02 09:30 8776 Jul 14 14:49	9°M57'14 10°M03'35 0° ₹ 25° ₹19'35 0° ₹ 26° ₹300'21 0° ≈ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° \$ 0° \$ 0° \$ 0° \$ 0° \$ 0° \$ 0° \$ 0° \$	1°25'01 1.73296 AU
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greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	8773 Mar 31 16:36 8773 May 04 16:52 8773 May 14 11:54 8773 May 31 20:17 8773 Jun 04 05:50 8773 Jun 04 05:50 8773 Jun 04 08:31 8773 Jun 08 10:34 8773 Jun 08 10:34 8773 Jul 04 17:01 8773 Jul 12 05:04 8773 Jul 31 12:29 8773 Aug 13 16:31 8773 Aug 31 00:14 8773 Sep 27 04:11 8773 Oct 23 03:20 8773 Nov 02 03:31 8773 Nov 17 10:09 8773 Dec 12 05:46 8774 Jan 05 17:35	0°用 24°用30'47 26°用19'41 20°用33'09 18°用28'54 18°用14'08 18°用24'45 15°用56'34 10°用41'02 12°用27'49 15°用53'18 0°ឆ 12°ឆ13'11 0°凡 0°™ 0°ឆ 11°ឆ47'34 0°™	-4.9m 8°02'17 8°00'34 0.27195 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node asc. node evening max el greatest brilliancy retrograde desc. node	8775 Oct 27 04:17 8775 Oct 27 06:20 8775 Nov 12 10:28 8775 Dec 02 23:40 8775 Dec 06 18:45 8775 Dec 27 21:54 8775 Dec 31 03:50 8776 Jan 24 13:31 8776 Feb 17 23:49 8776 Apr 07 07:44 8776 Apr 18 20:52 8776 May 02 19:57 8776 May 30 00:24 8776 Jun 05 09:08 8776 Jul 02 09:30 8776 Jul 14 14:49 8776 Jul 25 15:19 8776 Aug 08 16:35	9° M.57'14 10° M.03'35 0° ₹ 25° ₹ 19'35 0° ₹ 26° ₹ 00'21 0° ≈ 0° ¥ 0° Y 0° ₹ 0° ¶ 13° M.43'26 0° \$ 0° \$ 0° \$ 0° \$ 6° \$\Oxed{3}30'57 0° \$ 6° \$\Oxed{4}40'49 8° \$\Oxed{4}56'04 5° \$\Oxed{4}00'37	1°25'01 1.73296 AU 46°42'58
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greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	8773 Mar 31 16:36 8773 May 04 16:52 8773 May 14 11:54 8773 May 31 20:17 8773 Jun 04 05:50 8773 Jun 04 05:50 8773 Jun 04 08:31 8773 Jun 08 10:34 8773 Jun 24 22:16 8773 Jul 04 17:01 8773 Jul 12 05:04 8773 Jul 12 05:04 8773 Jul 31 12:29 8773 Aug 13 16:31 8773 Aug 31 00:14 8773 Sep 27 04:11 8773 Oct 23 03:20 8773 Nov 02 03:31 8773 Nov 17 10:09 8773 Dec 12 05:46 8774 Jan 05 17:35 8774 Jan 30 00:06	0° H 24° H30'47 26° H19'41 20° H33'09 18° H28'54 18° H14'08 18° H24'45 15° H56'34 10° H41'02 12° H27'49 15° H53'18 0° © 12° © 13'11 0° Ω 0° M 0° Ω 11° Ω47'34 0° M 0° ズ 0° ズ 0° ズ 11° ≈39'35 28° ≈24'40	-4.9m 8°02'17 8°00'34 0.27195 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set min. Earth dist. inferior conj	8775 Oct 27 04:17 8775 Oct 27 06:20 8775 Nov 12 10:28 8775 Dec 02 23:40 8775 Dec 06 18:45 8775 Dec 27 21:54 8775 Dec 31 03:50 8776 Jan 24 13:31 8776 Feb 17 23:49 8776 Mar 13 12:19 8776 Apr 07 07:44 8776 Apr 18 20:52 8776 May 02 19:57 8776 May 30 00:24 8776 Jul 02 09:30 8776 Jul 02 09:30 8776 Jul 14 14:49 8776 Aug 08 16:35 8776 Aug 09 11:09 8776 Aug 15 04:50 8776 Aug 15 19:38	9° M.57'14 10° M.03'35 0° ₹ 25° ₹ 19'35 0° ₹ 26° ₹ 00'21 0° ≈ 0° ¥ 0° ¥ 0° ¥ 0° ¶ 13° ∏43'26 0° © 0° Ω 6° £ 30'57 0° № 6° M 40'49 8° M 56'04 5° M 00'37 4° M 35'46 1° M 11'56 0° M 49'01	1°25'01 1.73296 AU 46°42'58 -4.8m 0.28001 AU -1°45'52
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### 8778 Jul 26 07:10 0°을	desc. node	8778 Jun 13 19:28	11° 8 32'17			8781 Mar 02 17:24	9° 8	
8778 Aug 20 13:11 0°Ω greatest brilliancy 8781 May 20 20:00 22°Π0728 4.9m 8778 Oct 04 17:03 24° \$\bar{\text{P}}28'3 \text{ retrograde} 8781 May 20 20:00 22° \$\bar{\text{L}}07'28 \text{ 4.9m} 8778 Nov 20 90:09 0°\$\text{ evening set} 8781 May 20 10:05 23° \$\bar{\text{L}}67'04'28 \text{ 1.6° } \text{ 3.878 Nov 20 90:09 0°\$\text{ evening set} 8781 May 20 10:05 23° \$\bar{\text{L}}67'04'28 \text{ 1.6° } \text{ 1.6° } \text{ 5.2° \$\bar{\text{L}}67'18 Nov 20 90:09 0°\$\text{ evening set} 8781 May 20 10:05 23° \$\bar{\text{L}}67'05'27 813'27		8778 Jun 30 10:05	$\Pi^{\circ}0$		asc. node	8781 Mar 21 11:41	19° 8 56'17	
8778 Sep 1 4 12:06 0° № greatest brilliancy 8781 May 02 07:00 22° Π0728 4.9m asc. node 8778 Oct 04 17:03 24° № 28'31 retrograde 8781 May 12 01:05 23° Д56'03 retrograde 8781 May 29 12:55 18° Д04'28 retrograde 8781 May 20 12:55 16° Д04'28 retrograde 8781 May 10 12:57 13° Д3'39 retrograde 8781 May 11 07:05 19:27 13° Д3'39 retrograde 8781 May 11 07:05 19:27 13° Д3'39 retrograde 8781 May 11 07:05 14° Д2'47 retrograde 8781 May 11 07:05 14° Д2'47 retrograde 8781 May 11 06:32 10° Д04'51 12:50 10° Д04'51 12:		8778 Jul 26 07:10	0 \circ \odot		evening max el	8781 Mar 22 12:47	20° 8 59'42	46°55'48
asc. node 8778 Oct 04 17:03 24°№28'31 retrograde 8781 May 12 01:05 23° Д56'03 evening set 8778 Nov 02 19:49 0° № evening set 8781 May 29 12:55 18° Д04'28 18'78 Nov 02 19:49 0° № minimum elong 8781 Jun 01 19:07 16° Д05'27 8'13'27 8'78 Nov 28 00:23 0° № minimum elong 8781 Jun 01 19:07 16° Д05'27 8'13'27 minimum elong 8778 Nov 28 00:23 0° № minimum elong 8781 Jun 01 19:07 16° Д05'27 8'13'27 18' Д10 10 10 10 10 10 10 10 10 10 10 10 10 1		8778 Aug 20 13:11	$0^{\circ}\Omega$			8781 Mar 31 18:58	$\Pi^{\circ}0$	
asc. node 8778 Oct 04 17:03 24°№28'31 retrograde 8781 May 12 01:05 23° Д56'03 evening set 8778 Nov 02 19:49 0° № evening set 8781 May 29 12:55 18° Д04'28 18'78 Nov 02 19:49 0° № minimum elong 8781 Jun 01 19:07 16° Д05'27 8'13'27 8'78 Nov 28 00:23 0° № minimum elong 8781 Jun 01 19:07 16° Д05'27 8'13'27 minimum elong 8778 Nov 28 00:23 0° № minimum elong 8781 Jun 01 19:07 16° Д05'17 18' Д190 AU 0.7190 AU		•			greatest brilliancy	8781 May 02 07:00		-4.9m
8778 Nov 02 19:49 0°Φ 0°Φ inferior conj 8781 May 29 12:55 18°Π04'28 18°104'28 1878 Nov 02 19:49 0°M inferior conj 8781 Jun 01 19:07 16°Π05'27 8713'27 8718 Nov 27 05:45 0°\$\$\frac{1}{2}\$ 0°\$\$	asc. node	•				•	23°∏56'03	
8778 Nov 02 19:49 0°M inferior conj 8781 Jun 01 19:07 16°M527 8713'27 8778 Nov 27 05:45 0°\$\frac{\pi}{\pi} \ 0°\$\fra					•	•		
Morning set 8778 Nov 27 05:45 0°\$\frac{1}{8} 0°					•	•		8°13'27
morning set 8778 Nov 28 00:23 0° x 57′22 / 3° 57′22 / 3° 57′22 / 3° 16° 10′10′4 min. Earth dist. 8781 Jun 01 21:57 16° 10′10′4 0.27190 AU max. Earth dist. 8779 Dac 21 13:00 0° 8 morning rise 8781 Jun 05 19:27 13° 139′39 13° 139′39 4.9m superior conj 8779 Jan 04 00:36 16° 541′19 0° 46′45 desc. node 8781 Jul 11 07:05 14° 122′47 10° 10′45′1 4.9m superior conj 8779 Jan 04 00:36 16° 541′19 0° 46′45 desc. node 8781 Jul 31 18:08 0° 9° 0° 14° 122′47 minimum elong 8779 Jan 14 18:23 0° ∞ morning max el 8781 Jul 31 18:08 0° 9° 0° 9° desc. node 8779 Jan 24 09:57 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈58′27 11° ≈ ∞20°20 11° ≈20°20 11° ≈20°20 11° ≈20°20 11° ≈20°20								
8778 Dec 21 13:00	marning ast				•			
max. Earth dist. 8779 Jan 01 20:14 13°S59'11 1.72750 AU direct 8781 Jun 22 10:53 8°∏17'20 4°9m superior conj 8779 Jan 04 00:36 16°S41'19 0°46'45 desc. node 8781 Jul 10 00:05 14°Щ22'47 4.9m minimum elong 8779 Jan 14 18:23 0°∞ morning max el 8781 Jul 10 00:32 9°©53'34 46°20'45 desc. node 8779 Jan 24 09:57 11°∞58'27 morning max el 8781 Aug 30 17:58 0°Ω 0°Ω evening rise 8779 Feb 07 22:09 0°H 8781 Nov 01 00:22 18:24 0°M evening rise 8779 Mar 04 00:16 0°Y asc. node 8781 Nov 01 05:23 11°£17'05 8779 Mar 28 01:27 0°B 8781 Nov 01 05:23 11°£17'05 11°£17'05 8779 May 15 10:34 0°G 8781 Nov 01 05:23 11°£17'05 10°M asc. node 8782 Jan 05 04:29 0°T 8782 Jan 05 04:29 0°T 8779 May 17 08:18 2°©20'18 morning set 8782 Jan 29 10:52 0°S	morning set							0.27190 AU
superior conj 8779 Jan 04 00:36 16°石41'19 0°46'45 desc. node 8781 Jul 02 06:23 10°田04'51 -4.9m minimum elong 8779 Jan 04 09:40 17°石09'22 0°46'35 8781 Jul 1 07:05 14°田22'47 8781 Jul 1 07:05 14°E2'47	P 4 F 4			1 70750 111	•			
superior conj 8779 Jan 04 00:36 16°₹41'19 0°46'45 desc. node 8781 Jul 11 07:05 14° I 22'47 minimum elong 8779 Jan 04 09:40 17°₹09'22 0°46'35 8781 Jul 31 18:08 0°5 8781 Jul 31 18:08 10:04 9°5 8781 Jul 31 18:08 0°5 8781 Jul 31 18:08 10:04 9°5 9°5 8781 Jul 31 18:08 10:04 9°5 9°5 8781 Jul 31 18:08 10:04 9°5 9	max. Earth dist.	8//9 Jan 01 20:14	13° 6 39'11	1./2/50 AU				
Minimum elong 8779 Jan 04 09:40 17° ₹09′22 0°46′35 8781 Jul 31 18:08 0°€ 8779 Jan 14 18:23 0°≈ morning max el 8781 Aug 11 06:32 9°€53′34 46°20′45 desc. node 8779 Jan 24 09:57 11°≈58′27 8781 Aug 30 17:58 0°Ω 8779 Feb 07 22:09 0° ★ 8781 Sep 26 18:24 0° № evening rise 8779 Feb 11 15:56 4° ★39′12 8781 Oct 22 15:55 0°Ω 8779 Mar 04 00:16 0° ♥ asc. node 8781 Nov 01 05:23 11°Ω1′05 8779 Mar 28 01:27 0° ♥ 8781 Dec 11 16:57 0° № 8779 May 15 10:34 0° № 8782 Jan 05 04:29 0° ₹ asc. node 8779 May 17 08:18 2°©20′18 8782 Jan 29 10:52 0° ≈ 8779 Jun 09 02:35 0° Ω morning set 8782 Feb 05 23:20 9°≈20′08			_		-			-4.9m
8779 Jan 14 18:23 0°≈ morning max el 8781 Aug 11 06:32 9°≅53'34 46°20'45 desc. node 8779 Jan 24 09:57 11°≈58'27 8781 Aug 30 17:58 0°Ω evening rise 8779 Feb 07 22:09 0°					desc. node			
desc. node 8779 Jan 24 09:57 11°≈58'27 8781 Aug 30 17:58 0° Ω 8781 Sep 26 18:24 0° № evening rise 8779 Feb 07 22:09 0° ¥ 8781 Oct 22 15:55 0° Ω 8781 Oct 22 15:55 0° Ω 8781 Nov 01 05:23 11° Ω17'05 8779 Mar 04 00:16 0° Υ 8779 Mar 28 01:27 0° ௧ 8781 Nov 16 21:50 0° № 8779 Apr 21 03:46 0° Ⅲ 8779 May 15 10:34 0° ⑤ 8782 Jan 05 04:29 0° ௧ 8782 Jan 29 10:52 0° ೩ 8782 Jan 29 10:52 0° ೩ 8782 Jan 29 10:52 0° ೩	minimum elong			0°46'35				
8779 Feb 07 22:09 0° H 8781 Sep 26 18:24 0° M 9 15:56 4° H 39'12 8781 Nov 01 05:23 11° Ω17'05 8779 Mar 04 00:16 0° Y asc. node 8781 Nov 16 21:55 0° M 10' Ω1' Ω1' Ω1' Ω1' Ω1' Ω1' Ω1' Ω1' Ω1' Ω1					morning max el	8781 Aug 11 06:32		46°20'45
evening rise 8779 Feb 11 15:56 4° ★39'12 8781 Oct 22 15:55 0° £ 8779 Mar 04 00:16 0° Ŷ asc. node 8781 Nov 01 05:23 11° £17'05 8779 Mar 28 01:27 0° ₺ 8779 Apr 21 03:46 0° 耳 8781 Dec 11 16:57 0° ₺ 8781 Dec 11 16:57 0° ₺ 8782 Jan 05 04:29 0° ₺ 8882 Jan 05 04:29 0° ₺	desc. node	8779 Jan 24 09:57	11° ≈ 58′27			8781 Aug 30 17:58	0 $^{\circ}$ Ω	
8779 Mar 04 00:16 0°° Asc. node 8781 Nov 01 05:23 11° \(\omega\) 17'05 8779 Mar 28 01:27 0° \(\omega\) 8781 Nov 16 21:50 0° \(\omega\) 8781 Nov 16 21:50 0° \(\omega\) 8779 Apr 21 03:46 0° \(\omega\) 8779 May 15 10:34 0° \(\omega\) 8782 Jan 05 04:29 0° \(\omega\) 8782 Jan 05 04:29 0° \(\omega\) asc. node 8779 May 17 08:18 2° \(\omega\) 20'18 8782 Jan 29 10:52 0° \(\omega\) 8779 Jun 09 02:35 0° \(\omega\) morning set 8782 Feb 05 23:20 9° \(\omega\) 20'08		8779 Feb 07 22:09	0° ∀			8781 Sep 26 18:24	0° ™	
8779 Mar 04 00:16 0°Y asc. node 8781 Nov 01 05:23 11°£17'05 8779 Mar 28 01:27 0°₺ 8781 Nov 16 21:50 0°™ 8779 Apr 21 03:46 0°Ⅲ 8781 Dec 11 16:57 0°⊀ 8779 May 15 10:34 0°⑤ 8782 Jan 05 04:29 0°♂ asc. node 8779 May 17 08:18 2°⑤20'18 8782 Jan 29 10:52 0°≈ 8779 Jun 09 02:35 0°№ morning set 8782 Feb 05 23:20 9°≈20'08	evening rise	8779 Feb 11 15:56	4°) €39'12			8781 Oct 22 15:55	0∘ ⊽	
8779 Mar 28 01:27 0°8 8781 Nov 16 21:50 0°M 87879 Apr 21 03:46 0°M 8781 Dec 11 16:57 0°₹ 8779 May 15 10:34 0°5 8782 Jan 05 04:29 0°₹ asc. node 8779 May 17 08:18 2°520'18 8782 Jan 29 10:52 0°≈ 8779 Jun 09 02:35 0°Ω morning set 8782 Feb 05 23:20 9°≈20'08	-	8779 Mar 04 00:16	$0^{\circ}\mathbf{\Upsilon}$		asc. node	8781 Nov 01 05:23	11° ≏ 17'05	
8779 Apr 21 03:46 0° Π 8781 Dec 11 16:57 0° ₹ 8779 May 15 10:34 0° ⑤ 88782 Jan 05 04:29 0° ₹ 88782 Jan 05 04:29 0° ₹ 88782 Jan 05 04:29 0° ₹ 8882 Jan 29 10:52 0° ≈ 8882 Jan 29 10:52 0° ≈ 8882 Jan 29 10:52 0° ≈			0°8					
8779 May 15 10:34 0°5 8782 Jan 05 04:29 0° 5 asc. node 8779 May 17 08:18 2°520'18 8782 Jan 29 10:52 0°≈ 8779 Jun 09 02:35 0°Ω morning set 8782 Feb 05 23:20 9°≈20'08								
asc. node 8779 May 17 08:18 2°520'18 8782 Jan 29 10:52 0°≈ 8779 Jun 09 02:35 0°Ω morning set 8782 Feb 05 23:20 9°≈20'08		•						
8779 Jun 09 02:35 0° Ω morning set 8782 Feb 05 23:20 9° ≈ 20'08	asc node	•						
·	use. Houe	•			morning set			
6//9 Jul 04 11.20 0 mg desc. node 8/82 Feb 20 22:15 2/°≈5/25					•			
		0//9 Jul U4 11:20	עוו ט		uese. Houe	6762 Feb 20 22:13	∠1 ≈ 31723	

	9792 E-L 22 12.22	001			0704 A 12 07-14	200 0 2015 1	1000127
D. d. F.	8782 Feb 22 13:33	0° ₩	1.71562.444	minimum elong	8784 Aug 13 07:14	28° Ω 38'51	1°23'37
max. Earth dist.	8782 Mar 15 00:13	25°π33'21	1.71563 AU	min. Earth dist.	8784 Aug 12 19:55	28° Ω 56'24	0.27951 AU
	9792 Mar. 17, 10.55	200 1 05122	0055150	morning rise	8784 Aug 19 13:12	24° £ 56'40	
superior conj	8782 Mar 17 19:55	29° H 05'32 28° H 29'51		direct	8784 Sep 03 12:48	20° Ω 36'30	4.0
minimum elong	8782 Mar 17 08:32	28°π29'51 0° Υ	0°55'31	greatest brilliancy	8784 Sep 13 04:59	22° Ω 19'13	-4.8m
	8782 Mar 18 13:18				8784 Sep 27 20:47	0°M)	45042150
	8782 Apr 11 10:58	0° 8		morning max el	8784 Oct 22 08:25	20° m/30'38	45°43'58
evening rise	8782 Apr 27 02:20	19° 8 39'08		,	8784 Oct 31 23:16	0° ⊽	
	8782 May 05 08:09	0°II		asc. node	8784 Nov 28 17:32	29° £ 48'32	
	8782 May 29 07:03	0°9			8784 Nov 28 21:38	0°M	
asc. node	8782 Jun 13 19:58	19° 5 21'09			8784 Dec 24 23:27	0° ∡ ¹	
	8782 Jun 22 10:05	0 $^{\circ}$ Ω			8785 Jan 19 02:59	0°る	
	8782 Jul 16 19:39	0° m p			8785 Feb 12 17:46	0° ≈	
	8782 Aug 10 15:03	0∘ 亚			8785 Mar 09 00:43	0° ∀	
	8782 Sep 05 02:30	0°M₊		desc. node	8785 Mar 20 10:39	14°) 11′54	
	8782 Oct 01 19:41	0° ∡ ¹			8785 Apr 02 02:28	$0^{\circ}\mathbf{\Upsilon}$	
desc. node	8782 Oct 03 15:10	1° ≯ 757'21		morning set	8785 Apr 22 01:09	24° Y 59'48	
evening max el	8782 Oct 26 07:21	25° ₹ 08'44	45°43'31		8785 Apr 26 00:48	9° 8	
	8782 Oct 31 11:49	0°ಕ			8785 May 19 21:43	Π $^{\circ}0$	
greatest brilliancy	8782 Dec 04 12:42	23° る 17'27	-4.7m				
retrograde	8782 Dec 14 01:35	24° る 56'53		superior conj	8785 Jun 01 12:11	15° Ⅱ 49'42	-1°18'29
evening set	8782 Dec 30 00:14	20° පි 03'50		minimum elong	8785 Jun 01 21:39	16° Ⅱ 19'25	1°18'30
inferior conj	8783 Jan 04 05:25	16° ප් 55'27	-4°47'17	max. Earth dist.	8785 Jun 03 22:37	18° Ⅱ 53′06	1.71424 AU
minimum elong	8783 Jan 04 14:40	16° ප් 41'04	4°44'40		8785 Jun 12 19:18	0 \circ \odot	
min. Earth dist.	8783 Jan 05 01:05	16° පි 24'53	0.28225 AU		8785 Jul 06 19:21	$0^{\circ}\Omega$	
morning rise	8783 Jan 10 04:29	13° る 20'45		asc. node	8785 Jul 11 07:59	5° Ω 38'23	
asc. node	8783 Jan 24 14:58	8° る 45'55		evening rise	8785 Jul 11 13:33	5° Ω 55'41	
direct	8783 Jan 25 11:26	8° පි 45'02			8785 Jul 30 22:57	0° m	
greatest brilliancy	8783 Feb 05 15:08	11° る 03'38	-4.8m		8785 Aug 24 07:01	0∘ ত	
	8783 Mar 05 00:42	0° ≈			8785 Sep 17 21:09	0°M,	
morning max el	8783 Mar 16 17:45	11° ≈ 11'55	46°39'37		8785 Oct 12 20:11	0° ⊼ ¹	
C	8783 Apr 03 13:14	0° ∀		desc. node	8785 Oct 31 02:25	21° ₹ ³33'05	
	8783 Apr 29 20:57	$_0$ ° $\boldsymbol{\gamma}$			8785 Nov 07 08:30	0°⋜	
desc. node	8783 May 16 09:24	19° Ƴ 35'35			8785 Dec 03 17:48	0° ≈	
	8783 May 25 01:01	0°8			8785 Dec 31 21:17	0°) €	
	8783 Jun 18 16:32	0°II		evening max el	8786 Jan 06 07:47	5°) €23'42	46°15'08
	8783 Jul 13 02:46	0°ಅ			8786 Feb 05 02:00	0°Υ	
	8783 Aug 06 11:32	0°N		greatest brilliancy	8786 Feb 15 01:21	4°Υ52'32	-4.8m
	8783 Aug 30 20:16	0° m		asc. node	8786 Feb 21 02:27	6° Υ 23'58	1.0111
asc. node	8783 Sep 06 06:33	7° m) 54'58		retrograde	8786 Feb 24 22:04	6° Y 40'57	
morning set	8783 Sep 18 03:11	22° m)31'16		evening set	8786 Mar 12 00:57	2° Υ 12'31	
morning sec	8783 Sep 24 04:52	0° ⊽		evening sec	8786 Mar 15 19:32	30° ₹	
	8783 Oct 18 13:01	0° ™		inferior conj	8786 Mar 17 14:28	28°) 54'03	5°50'43
	0703 OCt 10 13.01	O IIG		minimum elong	8786 Mar 17 03:41	29° H 10'40	
superior conj	8783 Oct 25 00:58	8° M .00'44	1°24'19	min. Earth dist.	8786 Mar 17 11:45	28° H 58'13	0.27100 AU
minimum elong	8783 Oct 24 21:15	7°M49'16		morning rise	8786 Mar 22 06:18	26° H 05'46	0.27100 AC
max. Earth dist.	8783 Oct 25 03:35	8°M08'49		direct	8786 Apr 07 08:15	21°) 03'47	
max. Lartii dist.	8783 Nov 11 20:57	0°×7	1.73277 AU	greatest brilliancy	8786 Apr 17 05:45	22° H 54'46	-4.9m
evening rise	8783 Nov 30 16:20	23° х 10'32		greatest offinality	8786 Apr 30 10:31	0° Υ	- 4 .7III
evening rise	8783 Dec 06 05:21	0°る		morning max el	8786 May 27 19:29	23° Υ 54'14	46°58'12
dasa nada		0 ප 25° ප 33'10		morning max er	8786 Jun 02 18:15	0° 8	40 36 12
desc. node	8783 Dec 26 23:51 8783 Dec 30 14:39	23 ⊘ 33 10 0° ≈		desc. node	8786 Jun 12 21:31	10° 8 48'41	
		0 ≈		desc. node		0° Ⅱ	
	8784 Jan 24 00:39	0° Υ			8786 Jun 30 01:35	0°©	
	8784 Feb 17 11:23				8786 Jul 25 20:31		
	8784 Mar 13 00:31	0° B			8786 Aug 20 01:22	$\Omega^{\circ}\Omega$	
1	8784 Apr 06 20:58	0°II		1	8786 Sep 13 23:31	0° Mp	
asc. node	8784 Apr 17 22:46	13° Ⅱ 07'55		asc. node	8786 Oct 03 18:56	24° Mp 00'49	
	8784 May 02 11:09	0° ©			8786 Oct 08 17:04	0∘ 亚	
	8784 May 29 20:30	0° Ω	4604491		8786 Nov 02 06:27	0°M	
evening max el	8784 Jun 03 01:07	4° Ω 15'56	46~44'21	morning set	8786 Nov 25 17:40	28°M50'25	
	8784 Jul 03 12:40	0° m)			8786 Nov 26 16:15	0° ∡	
greatest brilliancy	8784 Jul 12 06:29	4° m 25'24	-4.8m		8786 Dec 20 23:28	0° ろ	
retrograde	8784 Jul 23 07:00	6° m/40'15		max. Earth dist.	8786 Dec 30 12:22	11° る 48'04	1.72789 AU
evening set	8784 Aug 07 02:05	2° m/20'42					00.40:
desc. node	8784 Aug 07 18:37	1° m 57'49		superior conj	8787 Jan 01 16:28	14° ろ 29'20	0°49'36
	8784 Aug 11 02:36	30°R Ω		minimum elong	8787 Jan 02 01:48	14° る 58'12	0°49'26
inferior conj	8784 Aug 13 10:26	28° Ω 33'55	-1°24'28		8787 Jan 14 04:56	0° ≈	

desc. node	8787 Jan 23 12:01	11° ≈ 31'57		greatest brilliancy	8789 Jun 29 18:53	7° Ⅱ 40'06	4.0m
desc. node	8787 Feb 07 08:50	0° \		desc. node	8789 Jul 10 09:07	12° I I54'52	-4.9111
evening rise	8787 Feb 07 08:50 8787 Feb 09 05:54	2° ∺ 20'06		desc. flode	8789 Jul 31 22:00	0°95	
evening rise	8787 Mar 03 11:07	2 π 2006 0° Υ		morning max el	8789 Aug 08 21:00	0 € 7°€34'54	46022120
	8787 Mar 27 12:32	0°8		morning max er	-)°Ω	40 22 30
		0°U			8789 Aug 30 11:17		
	8787 Apr 20 15:08				8789 Sep 26 08:24	0° ™	
,	8787 May 14 22:23	0°95		,	8789 Oct 22 04:22	0° ™	
asc. node	8787 May 16 10:15	1°549'54		asc. node	8789 Oct 31 07:18	10° £ 46'59	
	8787 Jun 08 15:09	0° N			8789 Nov 16 09:27	0° M	
	8787 Jul 04 01:21	0° Mp			8789 Dec 11 04:05	0° ⊼	
	8787 Jul 30 23:15	0° ™	46000106		8790 Jan 04 15:20	5°0	
evening max el	8787 Aug 13 22:13	14° £ 18'09	46°00'06	. ,	8790 Jan 28 21:37	0°≈	
	8787 Aug 31 07:46	0°M		morning set	8790 Feb 03 13:39	7°≈02'12	
desc. node	8787 Sep 05 06:01	3°M47'40	4.7	desc. node	8790 Feb 20 00:10	27°≈29'57	
greatest brilliancy	8787 Sep 21 16:13	13°ML08'40	-4.7m	no at the	8790 Feb 22 00:17	0° ∀	1.71/01.411
retrograde	8787 Oct 02 05:35	15°M10'29		max. Earth dist.	8790 Mar 12 13:17	23° H 10'20	1.71601 AU
evening set	8787 Oct 20 03:11	9°M09'41					
inferior conj	8787 Oct 23 19:36	6°M52'29		superior conj	8790 Mar 15 07:51	26°) 38'46	
minimum elong	8787 Oct 23 15:16	6°M59'18		minimum elong	8790 Mar 14 20:46	26°) €04'03	0°52'28
min. Earth dist.	8787 Oct 23 14:26	7°M00'37	0.29133 AU		8790 Mar 18 00:05	0° Υ	
morning rise	8787 Oct 27 03:22	4°M48'14			8790 Apr 10 21:50	0° 8	
	8787 Nov 05 22:23	30° ₹		evening rise	8790 Apr 24 13:20	17° 8 08'41	
direct	8787 Nov 14 07:48	28° ≙ 36'16			8790 May 04 19:06	$\Pi^{\circ}0$	
	8787 Nov 23 01:40	0° M			8790 May 28 18:08	0ංම	
greatest brilliancy	8787 Nov 24 14:52	0°M30'52	-4.7m	asc. node	8790 Jun 12 22:00	18° © 52'39	
asc. node	8787 Dec 27 05:24	23°ML11'07			8790 Jun 21 21:22	$0 ^{\circ} \Omega$	
morning max el	8788 Jan 02 09:58	29°MJ04'01	45°53'44		8790 Jul 16 07:17	0° m y	
	8788 Jan 03 08:51	0° ∡ ¹			8790 Aug 10 03:19	0∘ ⊽	
	8788 Jan 31 15:57	0°ಕ			8790 Sep 04 16:01	0°M₊	
	8788 Feb 26 15:45	0° ≈			8790 Oct 01 12:02	0° ∡ ¹	
	8788 Mar 22 15:51	0° ∀		desc. node	8790 Oct 02 17:03	1° ⊀ 17'49	
	8788 Apr 16 03:28	$0^{\circ}\mathbf{\Upsilon}$		evening max el	8790 Oct 23 23:06	22° ≯ 57'56	45°43'16
desc. node	8788 Apr 16 23:02	1° Y ′00′22			8790 Oct 31 13:28	0°ಕ	
	8788 May 10 08:02	0°B		greatest brilliancy	8790 Dec 02 02:45	21° る 03'23	-4.7m
	8788 Jun 03 09:09	$\Pi^{\circ}0$		retrograde	8790 Dec 11 16:42	22° る 43'08	
	8788 Jun 27 09:35	0ංම		evening set	8790 Dec 27 18:00	17° る 45'57	
morning set	8788 Jul 06 00:58	10°546'56		inferior conj	8791 Jan 01 20:31	14° る 40'52	
	8788 Jul 21 11:15	0°N		minimum elong	8791 Jan 02 06:05	14° る 25'59	
asc. node	8788 Aug 07 20:06	21° Ω 35′03		min. Earth dist.	8791 Jan 02 15:52		0.28279 AU
	0700 4 10 17 06	200 0 5211 7	001.411.2	morning rise	8791 Jan 07 17:39	11° ⋜ 08'50	
superior conj	8788 Aug 13 17:06	28° Ω 52'17		direct	8791 Jan 23 03:36	6° る 30'02	
minimum elong	8788 Aug 13 13:54	28° Ω 42'22	0°13'55	asc. node	8791 Jan 23 16:56	6° る 30'25	
behind sun begin	8788 Aug 13 01:56	28° Ω 05'18		greatest brilliancy	8791 Feb 03 06:09	8° る 47'44	-4.8m
behind sun end	8788 Aug 14 01:51	29° Ω 19'25			8791 Mar 05 03:43	0° ≈	4.602.010.77
	8788 Aug 14 14:57	0° m)		morning max el	8791 Mar 14 09:21	8°≈55'54	46°38'07
max. Earth dist.	8788 Aug 16 05:23	-	1.72627 AU		8791 Apr 03 06:21	0°) (
	8788 Sep 07 20:45	0∘ ⊽			8791 Apr 29 11:07	0°Υ	
evening rise	8788 Sep 20 00:37	15° Ω 00'17		desc. node	8791 May 15 11:27	19° Y 02'15	
	8788 Oct 02 04:54	0° M			8791 May 24 13:50	0°8	
	8788 Oct 26 16:11	0° ∡			8791 Jun 18 04:35	0°Щ	
	8788 Nov 20 07:48	0°る			8791 Jul 12 14:19	0°©	
desc. node	8788 Nov 27 14:04	8° ප් 47'11			8791 Aug 05 22:44	0° N	
	8788 Dec 15 04:46	0° ≈			8791 Aug 30 07:12	0° m)	
	8789 Jan 09 08:15	0° ∀		asc. node	8791 Sep 05 08:25	7° m)27'17	
	8789 Feb 03 22:04	0° Υ		morning set	8791 Sep 15 19:42	20° m/21'08	
	8789 Mar 02 11:00	0° 8			8791 Sep 23 15:37	0° ™	
evening max el	8789 Mar 20 01:42	18° 8 34'31	46°55'04		8791 Oct 17 23:40	0°M₊	
asc. node	8789 Mar 20 13:31	19° 8 04'12			0001.0	#61M #	1000:0
	8789 Mar 31 23:05	0°II	4.0	superior conj	8791 Oct 22 18:29	5°M53'55	1°23'36
greatest brilliancy	8789 Apr 29 20:13	19° Ⅱ 42'13	-4.9m	minimum elong	8791 Oct 22 14:07	5°M40'30	
retrograde	8789 May 09 14:26	21° II 31'11		max. Earth dist.	8791 Oct 23 00:36		1.73292 AU
evening set	8789 May 27 05:07	15° Ⅱ 34'30	0000:-		8791 Nov 11 07:37	0° ∡ 7	
inferior conj	8789 May 30 08:02	13° Ⅱ 40'34		evening rise	8791 Nov 28 09:02	21° ₹ 00'58	
minimum elong	8789 May 30 16:30	13° Ⅱ 27'34			8791 Dec 05 16:10	0°る	
min. Earth dist.	8789 May 30 10:40		0.27184 AU	desc. node	8791 Dec 26 01:52	25° る 05'32	
morning rise	8789 Jun 03 03:54	11° II 21'34			8791 Dec 30 01:42	0° ≈	
direct	8789 Jun 19 23:41	5° Ⅱ 52'17			8792 Jan 23 12:02	0° ∺	

	9702 Eab 16 22:12	$_{0^{\circ}}\!\mathbf{\gamma}$			8794 Jul 25 10:01	0°ಅ	
	8792 Feb 16 23:12						
	8792 Mar 12 12:57	0° B			8794 Aug 19 13:44	0° N	
	8792 Apr 06 10:28	0° П		,	8794 Sep 13 11:12	0° Mp	
asc. node	8792 Apr 17 00:45	12° Ⅱ 31'58		asc. node	8794 Oct 02 20:52	23° m 32'17	
	8792 May 02 02:46	0°€			8794 Oct 08 04:18	0∘ ⊽	
	8792 May 29 17:35	0 $^{\circ}\Omega$			8794 Nov 01 17:25	0°ML	
evening max el	8792 May 31 16:32	1° Ω 58'37	46°45'26	morning set	8794 Nov 23 10:51	26°M42'07	
	8792 Jul 05 04:46	0° m p			8794 Nov 26 03:05	0° ⊼	
greatest brilliancy	8792 Jul 09 22:38	2°Mp09'15	-4.8m		8794 Dec 20 10:17	0°₹	
retrograde	8792 Jul 20 22:07	4° Mp 22'48		max. Earth dist.	8794 Dec 28 06:33	9° る 42'20	1.72826 AU
evening set	8792 Aug 04 17:05	0° Mp 03′55					
	8792 Aug 04 19:57	30° R Ω		superior conj	8794 Dec 30 08:19	12° る 16'21	0°52'21
desc. node	8792 Aug 06 20:34	28° Ω 50'44		minimum elong	8794 Dec 30 17:51	12° る 45'53	0°52'12
min. Earth dist.	8792 Aug 10 11:13	26° Ω 38'52	0.27902 AU		8795 Jan 13 15:48	0° ≈	
inferior conj	8792 Aug 11 01:06	26° Ω 17'20	-1°02'46	desc. node	8795 Jan 22 13:51	11° ≈ 03'46	
minimum elong	8792 Aug 10 22:43	26° Ω 21'02	1°02'09	evening rise	8795 Feb 06 20:00	0° ₩ 00'36	
morning rise	8792 Aug 17 05:11	22° Ω 38'16		Č	8795 Feb 06 19:49	0° ∀	
direct	8792 Sep 01 03:27	18° Ω 20'50			8795 Mar 02 22:18	$0^{\circ}\mathbf{\Upsilon}$	
greatest brilliancy	8792 Sep 10 19:01	20°Ω03'02	-4 8m		8795 Mar 26 23:58	0°8	
greatest offinaley	8792 Sep 28 15:51	0° m	1.0111		8795 Apr 20 02:53	0°II	
morning max el	8792 Oct 19 22:32	18° Mp 15'12	45°44'30		8795 May 14 10:35	0ංම ග	
morning max cr	8792 Oct 31 18:30	0° ∿	45 44 50	asc. node	8795 May 15 12:19	1° 9 18'48	
aga mada	8792 Nov 27 19:39			asc. noue	•		
asc. node		29° Ω 13'17			8795 Jun 08 04:05	0° Ω	
	8792 Nov 28 12:16	0°M			8795 Jul 03 15:48	0° m/y	
	8792 Dec 24 12:15	0° ∡ 7			8795 Jul 30 17:23	0∘ ⊽	
	8793 Jan 18 14:55	0°ප		evening max el	8795 Aug 11 12:48	12° ⊆ 02'34	46°01'29
	8793 Feb 12 05:16	0° ≈			8795 Aug 31 18:21	0° M ₊	
	8793 Mar 08 11:59	0° ∀		desc. node	8795 Sep 04 07:53	2°M38'06	
desc. node	8793 Mar 19 12:31	13°) 42′55		greatest brilliancy	8795 Sep 19 07:08	10°M57'27	-4.7m
	8793 Apr 01 13:33	0 ° \mathbf{Y}		retrograde	8795 Sep 29 22:01	13°ML01'06	
morning set	8793 Apr 19 11:55	22° Y 28'25		evening set	8795 Oct 17 16:58	7° M 03'39	
	8793 Apr 25 11:47	$8^{\circ 0}$		inferior conj	8795 Oct 21 11:57	4°M42'49	-8°21'28
	8793 May 19 08:38	Π $^{\circ}0$		minimum elong	8795 Oct 21 06:56	4° M 50'43	8°20'58
				min. Earth dist.	8795 Oct 21 05:41	4° ጤ 52'41	0.29124 AU
superior conj	8793 May 30 00:07	13° Ⅱ 22'19	-1°20'09	morning rise	8795 Oct 24 20:56	2°M36'59	
minimum elong	8793 May 30 08:57	13° Ⅲ 50′03	1°20'12		8795 Oct 29 12:29	30° ₹ Ω	
max. Earth dist.	8793 Jun 01 07:44	16° Ⅱ 16′50	1.71393 AU	direct	8795 Nov 11 23:41	26° £ 26'46	
	8793 Jun 12 06:13	0°€		greatest brilliancy	8795 Nov 22 06:40	28° ≏ 21'17	-4.7m
	8793 Jul 06 06:17	$0^{\circ}\Omega$			8795 Nov 26 06:38	0° M .	
evening rise	8793 Jul 09 02:57	3° Ω 33'57		asc. node	8795 Dec 26 07:19	22°M18'46	
asc. node	8793 Jul 10 09:56	5° Ω 10′23		morning max el	8795 Dec 31 01:33	26°M51'24	45°52'38
	8793 Jul 30 09:57	0° m		C	8796 Jan 03 06:07	0° ≯ ¹	
	8793 Aug 23 18:11	0∘ <u>v</u>			8796 Jan 31 07:23	0°ರ	
	8793 Sep 17 08:40	0°M			8796 Feb 26 05:06	0° ≈	
	8793 Oct 12 08:21	0° ∡ 7			8796 Mar 22 04:13	0°) €	
desc. node	8793 Oct 30 04:28	21° х *01'21			8796 Apr 15 15:18	0° Υ	
desc. flode	8793 Nov 06 21:51	0°る		desc. node	8796 Apr 16 01:02	0° Υ 30'03	
	8793 Dec 03 09:30	0°≈		desc. node	8796 May 09 19:33	0° 8	
	8793 Dec 31 18:57	0 ∞			8796 Jun 02 20:26	0°II	
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evening max el	8794 Jan 03 20:45	3° 米 01'35 0° Υ	46°13'29		8796 Jun 26 20:41		
4 41 711	8794 Feb 06 21:32		4.0	morning set	8796 Jul 03 14:38	8°525'23	
greatest brilliancy	8794 Feb 12 15:07	2° Υ 29'14	-4.8m		8796 Jul 20 22:11	0°N	
asc. node	8794 Feb 20 04:21	4° Υ 10'46		asc. node	8796 Aug 06 21:59	21° Ω 07'11	
retrograde	8794 Feb 22 10:26	4° Υ 16'45					
evening set	8794 Mar 09 11:11	29° ¥ 52′08		superior conj	8796 Aug 11 08:26	26° Ω 37'27	0°10'45
	8794 Mar 09 05:25	30° ₹		minimum elong	8796 Aug 11 06:00	26° Ω 29'52	0°10'29
inferior conj	8794 Mar 15 03:39	26° ∺ 29'53	5°31'52	behind sun begin	8796 Aug 10 11:41	25° Ω 33'05	
minimum elong	8794 Mar 14 17:07	26°) (46′07	5°29'09	behind sun end	8796 Aug 12 00:18	27° Ω 26′38	
min. Earth dist.	8794 Mar 15 01:57	26°) 32′30	0.27111 AU	max. Earth dist.	8796 Aug 13 21:16	29° Ω 46′02	1.72586 AU
morning rise	8794 Mar 19 22:49	23°) ₹36′39			8796 Aug 14 01:46	0° m y	
direct	8794 Apr 04 21:01	18°) 39′00			8796 Sep 07 07:33	0∘ ⊽	
greatest brilliancy	8794 Apr 14 20:55	20°) €31'42	-4.9m	evening rise	8796 Sep 17 18:01	12° ≙ 52'45	
-	8794 May 01 08:43	$0^{\circ}\Upsilon$			8796 Oct 01 15:46	0°ML	
morning max el	8794 May 25 08:01	21° Y 27'29	46°58'46		8796 Oct 26 03:16	0° ∡ ¹	
	8794 Jun 02 14:41	0°8			8796 Nov 19 19:16	0°ರ	
desc. node	8794 Jun 11 23:30	10° 8 04'41		desc. node	8796 Nov 26 16:03	8° ප 18'06	
	8794 Jun 29 17:08	Π°			8796 Dec 14 16:50	0° ≈	

	8797 Jan 08 21:19	0°) €		asc. node	8799 Sep 04 10:24	6° m 59'51	
	8797 Feb 03 12:48	0° Υ		morning set	8799 Sep 04 10:24 8799 Sep 13 12:07	18° Mp 10'37	
	8797 Mar 02 05:16	%8 0°8		morning set	8799 Sep 23 02:22	0° ⊡	
evening max el	8797 Mar 17 15:30	16° 8 10'58	46°54'21		8799 Oct 17 10:19	0° M ₊	
asc. node	8797 Mar 19 15:34	18° 8 10'58	.0 5.21		0,7,7 000 1, 10.17	5 HZ	
use. Houe	8797 Apr 01 05:29	0° I		superior conj	8799 Oct 20 12:06	3°M47'26	1°22'48
greatest brilliancy	8797 Apr 27 08:55	17° I I15'46	-4.9m	minimum elong	8799 Oct 20 07:07	3°M32'05	1°22'50
retrograde	8797 May 07 04:06	19° Ⅱ 05'25	.,,	max. Earth dist.	8799 Oct 20 19:44	4°ML11'00	1.73282 AU
evening set	8797 May 24 21:08	13° Ⅱ 03'53			8799 Nov 10 18:16	0° ∡ 7	
inferior conj	8797 May 27 20:53	11° Ⅱ 14'42	8°33'17	evening rise	8799 Nov 26 01:54	18° ≯ 52'06	
minimum elong	8797 May 28 04:41	11° II 02'43	8°32'08	8 44	8799 Dec 05 02:55	0°ಕ	
min. Earth dist.	8797 May 27 22:56	11° Ⅱ 11'33	0.27179 AU	desc. node	8799 Dec 25 03:46	24° る 37'45	
morning rise	8797 May 31 12:17	9° Ⅱ 02'29			8799 Dec 29 12:42	0° ≈	
direct	8797 Jun 17 12:55	3° Ⅱ 26′29			8800 Jan 22 23:23	0° ∀	
greatest brilliancy	8797 Jun 27 06:46	5° Ⅱ 13'43	-4.9m		8800 Feb 16 11:01	0°Υ	
desc. node	8797 Jul 09 11:02	11° Ⅲ 29'01			8800 Mar 12 01:28	0°8	
	8797 Aug 01 00:34	0°ಅ			8800 Apr 06 00:08	$\Pi^{\circ}0$	
morning max el	8797 Aug 06 11:48	5° © 16'15	46°24'16	asc. node	8800 Apr 16 02:48	11° Ⅲ 55'50	
	8797 Aug 30 04:28	$0^{\circ}\Omega$			8800 May 01 18:41	0°€	
	8797 Sep 25 22:27	0° m p		evening max el	8800 May 29 06:51	29° 5 38'21	46°46'37
	8797 Oct 21 16:53	0∘ ⊽			8800 May 29 15:28	$0 {\circ} \Omega$	
asc. node	8797 Oct 30 09:23	10° ≙ 17'05		greatest brilliancy	8800 Jul 07 15:14	29° Ω 53'29	-4.8m
	8797 Nov 15 21:08	0° M .			8800 Jul 07 22:05	0° m	
	8797 Dec 10 15:18	0° ∡ ¹		retrograde	8800 Jul 18 12:45	2° Mp 05'12	
	8798 Jan 04 02:21	8°0			8800 Jul 28 16:50	30° ₹Ω	
	8798 Jan 28 08:32	0° ≈		evening set	8800 Aug 02 08:10	27° Ω 46'38	
morning set	8798 Feb 01 04:03	4° ≈ 43'58		desc. node	8800 Aug 05 22:32	25° Ω 41'15	
desc. node	8798 Feb 19 02:06	27° ≈ 01'54		min. Earth dist.	8800 Aug 08 02:46	24° Ω 20'47	0.27854 AU
	8798 Feb 21 11:12	0° ∀		inferior conj	8800 Aug 08 15:41	24° Ω 00'43	-0°40'46
max. Earth dist.	8798 Mar 10 00:23	20°) 40′38	1.71636 AU	minimum elong	8800 Aug 08 14:08	24° Ω 03'08	0°40'26
				morning rise	8800 Aug 14 20:52	20° Ω 19'53	
superior conj	8798 Mar 12 19:44	24° ∺ 11′24		direct	8800 Aug 29 17:23	16° Ω 04'57	
minimum elong	8798 Mar 12 09:02	23°) ₹37'55	0°49'19	greatest brilliancy	8800 Sep 08 09:30	17° Ω 47'12	-4.8m
	8798 Mar 17 11:02	0 ° $\mathbf{\Upsilon}$			8800 Sep 29 05:57	0° m	
	8798 Apr 10 08:49	9° 8		morning max el	8800 Oct 17 12:05	15° m 58'29	45°45'11
evening rise	8798 Apr 22 00:15	14° 8 37'34			8800 Oct 31 13:03	0∘ ত	
	8798 May 04 06:10	$\Pi^{\circ}0$		asc. node	8800 Nov 26 21:28	28° ≙ 37'56	
	8798 May 28 05:20	0°€			8800 Nov 28 02:34	0° M .	
asc. node	8798 Jun 11 23:56	18° 5 23'26			8800 Dec 24 00:49	0° ∡ ¹	
	8798 Jun 21 08:48	$0 ^{\circ} \Omega$			8801 Jan 18 02:38	0° ප	
	8798 Jul 15 19:05	0° т р			8801 Feb 11 16:33	0° ≈	
	8798 Aug 09 15:47	0∘ ⊽			8801 Mar 07 23:01	0° ∀	
	8798 Sep 04 05:46	0° M		desc. node	8801 Mar 18 14:34	13° ¥ 15′05	
	8798 Oct 01 04:46	0°⊀			8801 Apr 01 00:28	0° Y	
desc. node	8798 Oct 01 19:10	0° ≯ 38'22		morning set	8801 Apr 16 22:21	19° Y 56′25	
evening max el	8798 Oct 21 14:44	20° х 46′49	45°43'02		8801 Apr 24 22:39	0°8	
	8798 Oct 31 16:37	0°₹			8801 May 18 19:28	$\Pi^{\circ}0$	
greatest brilliancy	8798 Nov 29 17:23	18° ප් 50'17	-4.7m	_			
retrograde	8798 Dec 09 07:27	20°る29'42		superior conj	8801 May 27 11:35	10° I 53'43	
evening set	8798 Dec 25 11:57	15° ⋜ 28'32		minimum elong	8801 May 27 19:41	11° Ⅱ 19'10	
inferior conj	8798 Dec 30 11:47	12° ろ 26'50		max. Earth dist.	8801 May 29 12:22		1.71365 AU
minimum elong	8798 Dec 30 21:34	12° る 11'33			8801 Jun 11 17:01	0° ©	
min. Earth dist.	8798 Dec 31 06:57		0.28334 AU		8801 Jul 05 17:04	0°N	
morning rise	8799 Jan 05 06:44	8° 궁 57'27		evening rise	8801 Jul 06 15:43	1° Ω 10'35	
direct	8799 Jan 20 19:39	4°る15'34		asc. node	8801 Jul 09 11:48	4° Ω 42'35	
asc. node	8799 Jan 22 18:51	4° る 20'10	4.0		8801 Jul 29 20:47	0° m	
greatest brilliancy	8799 Jan 31 21:23	6°₹32'11	-4.8M		8801 Aug 23 05:11	0° ™	
	8799 Mar 05 05:22	0° ≈	46026127		8801 Sep 16 20:02	0° M 0°. ₹	
morning max el	8799 Mar 12 00:11	6°≈37'42	46°36'27	dogo	8801 Oct 11 20:24	0°⊀ ⁷ 20°∗ 7 20'51	
	8799 Apr 02 23:16	0° ℋ 0° Ƴ		desc. node	8801 Oct 29 06:27	20° ₹ 29'51	
J 1	8799 Apr 29 01:16				8801 Nov 06 11:07	5°0	
desc. node	8799 May 14 13:28	18° Y 28'40			8801 Dec 03 01:11	0° ≈	
	8799 May 24 02:38	0° Β		avanis 1	8801 Dec 31 17:04	0° ∀	46012101
	8799 Jun 17 16:37	0° I I		evening max el	8802 Jan 01 09:36	0°) 40′18 0° Υ	46°12'01
	8799 Jul 12 01:51	0.ಲ			8802 Feb 09 20:51		4.0.
	8799 Aug 05 09:55	0° N		greatest brilliancy	8802 Feb 10 04:29	0° Υ 06'47 1° Υ 53'33	-4.8m
	8799 Aug 29 18:08	0° т р		asc. node	8802 Feb 19 06:21	1 1 33 33	

Second S		9903 E-L 10 22.14	1° Y 54'09			0004 A 00 22-26	249 (22)25	0007114
owner or control or	retrograde					•		
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mm math and morning rise of 1900 May 17 1 504 2479678 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 571978 5719788 5719788 571978 571978 571978 571978 571978 571978 5719788 571978 571	inferior conj	8802 Mar 12 16:54				-		
Montaing Sent 19.522 1940911 Sent		8802 Mar 12 06:42		5°09'44	max. Earth dist.	8804 Aug 11 13:53	27° Ω 36′09	1.72550 AU
gine of preases beling preases beling to general beling to g	min. Earth dist.	8802 Mar 12 16:04	24°) €08'18	0.27128 AU		8804 Aug 13 12:17	0° m y	
Personal polition Second 2 of 2 of 2 of 2 of 3 of 3 of 3 of 3 of	morning rise	8802 Mar 17 15:22	21°)(09'11			8804 Sep 06 18:03	0∘ ⊽	
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Moning man Mo	groutest orimane)	•		,				
Section Sec	mamina may al	•		46950102				
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ase. nede 8802 Sep 12 22:36 branches o"by "1905 Sep 12 23:36 branches" ass. nede 8805 May 13:34 branches 13:38 179:38 sep 12 23:36 branches 48:53 May 13:34 branches 48:53 May 13:34 branches 78:53 May 13:34 branches 48:53 May 13:34 branches		8802 Jul 24 23:14	0			8805 Feb 03 03:25	0 ° Υ	
Second		8802 Aug 19 01:51	$\mathfrak{O}^{\circ} \mathfrak{O}$			8805 Mar 01 23:37	9° 8	
Second		8802 Sep 12 22:36	0° m)		evening max el	8805 Mar 15 06:14	13° 8 51'03	46°53'41
Moniming set So 2 Oct 0 1 5.15 0°A 19.15 0°B 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.15 19.1	asc node	*			•	8805 Mar 18 17:38		
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Max Sequence Se	. ,					*		-4.7111
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superior conj 8802 Dec 28 00-14 10°80428 0°5504 morning rise 8805 May 25 01-16 8°£14845 0.27108 AU minimum clong 8802 Dec 28 00-57 10°83470 0°5433 direct 8805 Jun 15 02-22 1710257 1710257 desc. node 8803 Jun 13 02-22 0°54330 desc. node 8805 Jul 08 130 01 001 0°95 4-m evening rise 8803 Feb 06 06-29 0°H morning max el 8805 Aug 01 0100 0°95 46°2546 8803 Mar 26 11-02 0°P morning max el 8805 Aug 04 02:17 0°£1 6°21 6°21 6°25 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 6°21 <		8802 Dec 19 20:49	0°ಕ		inferior conj	8805 May 25 09:56	8° Ⅱ 50'47	8°41'49
Superior conj S802 Dec 28 00:14 10°E0428 0°5502 moming rise S805 May 28 20:57 16°E4540 0°6453 direct S805 May 18 20:25 11E457 4.9mm minum mome S805 Dec 28 09:57 10°E3470 0°6453 direct S805 May 18 15 02:25 12E4573 4.9mm moming max el S805 May 21 15:49 10°E3676 desc. node S805 May 21 15:49 0°E3676 desc. node S805 May 10 10 110759 12E4576 S805 May 21 15:49 0°E3676 desc. node S805 May 20 10 10 13:03 0°E3676 desc. node S805 May 20 10 117 2°E35816 desc. node S805 May 20 10:10 0°E3676 desc. node S805 May 20 10:10 0°E3676 desc. node S805 May 20 20:51 0°E3676 desc. node S805 May 10 14:17 0°E3676 desc. node S805 May 13 2:227 0°E3676 desc. node S805 May 13 2:227 0°E35816 desc. node S805 May 13 2:227 0°E35816 desc. node S805 May 14 14:12 0°E36810 0°E36810 desc. node S805 May 14 14:12 desc. node S806 May 10 14:10	max. Earth dist.	8802 Dec 26 01:45	7° る 40'38	1.72858 AU	minimum elong	8805 May 25 17:02	8° Ⅲ 39'53	8°40'51
minimum elong 8802 Dec 28 09-73 10°G34'30 0'54'33 greatest brilliancy 8805 Jun 1 5 02-25 2"H20'25" 10°836'56 6820 3 lun 21 15-49 10°836'56 8803 Feb 06 06-29 0°9'					min. Earth dist.	8805 May 25 11:16	8° Ⅱ 48'45	0.27168 AU
minimum elong 8802 Dec ≥8 9.573 10°63430 0°5453 greatest brillianey 8805 Jun 15 02.25 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257 1°10.0257	superior conj	8802 Dec 28 00:14	10°る04'28	0°55'02	morning rise	8805 May 28 20:57	6° Ⅱ 45'04	
desc. node 8803 Jan 3 02:22 0°se greatest brilliancy 8805 Jan 24 18:26 2°148°53 49m				0°54'53	=	-	1°∏02'57	
desc. node 8803 Jan 2l 15-02 10°8a3656 desc. node 8805 Jul 0l 10:10 0°9° "Total 10°8a3656 evening rise 8803 Feb 0l 60 6c29 27°8a4302 morning max el 8805 Aug 0l 10:10 0°9° "Total 20°8" 0°9° 180 8805 Aug 2l 20:51 0°9° 10°9° 180 8805 Aug 2l 20:51 0°9° 10°9° 180 8805 Aug 2l 20:51 0°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°9° 10°8° 10°9° 10°8° 10°9° 10°8° 10°8° 10°8° 10°8° 10°8° 10°8° 10°8° 10°8° 10°8° 10°8° 10°8° 10°8° 10°8° 10°8° 10°8° 10°8° 10°8° 10°8° 10°8° 10°8° 10°8° 10°8°	8							-4 9m
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S803 May 13 12:17 0°H S805 May 13 12:27 0°G S805 May 13 12:27 0°G S805 May 14 14:17 0°G S805 May 16 18:18 0°G S805 May 17 19:09 0°G S805 May 18 19:09 0°G 0		8803 Mar 02 09:08				8805 Aug 29 20:51	$0 { m ^{\circ}} \Omega$	
asc. node		8803 Mar 26 11:02	9° 8			8805 Sep 25 12:00	0° m y	
Seconde Sec		8803 Apr 19 14:17	$\Pi^{\circ}0$			8805 Oct 21 05:03	0∘ ত	
Seconde Se		8803 May 13 22:27	0°ಲಾ		asc. node	8805 Oct 29 11:14	9° -4 7′27	
8803 Jul 03 16:48 0° Ω 16:48 0° Ω 8805 Jul 03 13:03 0° ₹ 16:48 8805 Jul 03 12:18:25 2° ≈ 26'38 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 16:48 1	asc. node	•	0°\$48'09			8805 Nov 15 08:31	0°M	
8803 Jul 03 06-09 0°m 9°m 8806 Jan 03 13-03 0°m 9°m 8806 Jan 27 19-09 0°m 9°m 9°m 9°m 9°m 8806 Jan 29 18-25 2°m 27 19-09 0°m 9°m 9		•						
Sevening max el 8803 Jul 30 11:44 0°\$\tau\$ 6°02'59 morning set 8806 Jan 27 19:09 0°\$\tau\$ 2°\$\tau\$26'38 2°\$								
Pevening max el 8803 Aug 9 04:09 9 04:09 9 04:09 07 08 09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:09 08:			-					
desc. node 8803 Sep 01 08:19 0°IL 26'esc. node 8806 Feb 18 04:06 26'esc 35'01 26'esc. node 8803 Sep 03 10:00 1°IL 27'29 28806 Feb 20 21:50 0°FL 27'14 27'16'T2 27								
desc. node 8803 Sep 03 10:00 1°M.27'29	evening max el	0		46°02'59	•			
Pare latest brilliancy 8803 Sep 16 21:34 8°M.46'05 4.7m max. Earth dist. 8806 Mar 07 08:57 18°M.04'01 1.71672 AU Pare latest brilliancy 8803 Sep 16 21:34 10°M.51'52 Pare latest brilliancy 8803 Sep 16 21:34 10°M.51'52 Pare latest brilliancy 8803 Sep 16 21:34 10°M.51'52 Pare latest brilliancy 8803 Oct 18 20:27 2°M.45'18 0.29110 AU Pare latest brilliancy 8803 Oct 18 20:27 2°M.45'18 0.29110 AU Pare latest brilliancy 8803 Oct 21 21:32 21°M.25'18 0.29110 AU Pare latest brilliancy 8803 Nov 20 21:35 26°Δ.11'22 4.7m Pare latest brilliancy 8803 Nov 20:31 0°M. Pare latest brilliancy 8803 Nov 20:31 0°M. Pare latest brilliancy 8803 Nov 28 02:31 0°M. Pare latest brilliancy 8803 Nov 21:35 26°Δ.11'22 4.7m Pare latest brilliancy 8803 Nov 20:31 0°M. Pare latest brilliancy 8803 Nov 28 02:31 0°M. Pare latest brilliancy 8803 Nov 28 02:31 0°M. Pare latest brilliancy 8804 Jan 30 22:16 0°M. Pare latest brilliancy 8804 Jan 30 22:16 0°M. Pare latest brilliancy 8804 Hap 15 03:01 0°M. Pare latest brilliancy 8806 Hap 09 03:35 0°M. Pare latest brilliancy 8806 Hap 09 03:35 0°M. Pare latest brilliancy 8806 Hap 09 03:35 0°M. Pare latest brilliancy 8806 H		8803 Sep 01 08:19	0°M₊		desc. node	8806 Feb 18 04:06	26° ≈ 35′01	
Pettograde 8803 Sep 27 14:47 10° IL-51'52 Superior conj 8806 Mar 10 07:42 21° H45'19 -0°46'34 Inferior conj 8803 Oct 19 04:06 2° IL-33'17 -8°16'06 minimum elong 8806 Mar 10 07:42 21° H45'19 -0°46'05 Inferior conj 8803 Oct 18 22:25 2° IL-31'17 -8°16'06 minimum elong 8806 Mar 16 21:42 0° Ψ Inferior conj 8803 Oct 18 22:25 2° IL-34'12 8°15'30 8806 Mar 16 21:42 0° Ψ Inferior conj 8803 Oct 18 20:27 2° IL-34'18 0.29110 AU 8806 Mar 16 21:42 0° Ψ Inferior conj 8803 Oct 22 14:32 2° IL-34'18 0.29110 AU 8806 Mar 16 21:42 0° Ψ Inferior conj 8806 Dec 28 03:08 10° Ξ13'16 0° Ξ13'16 Inferior conj 8806 Dec 28 03:08 10° Ξ13'16 0° Ξ13'16 Inferior conj 8806 Dec 28 03:08 10° Ξ13'16 0° Ξ13'16 Inferior conj 8806 Dec 28 03:08 10° Ξ13'16 0° Ξ13'16 Inferior conj 8806 Dec 28 03:08 10° Ξ13'16 0° Ξ13'16 Inferior conj 8806 Dec 28 03:08 10° Ξ13'16 0° Ξ13'16 Inferior conj 8806 Dec 28 03:08 10° Ξ13'16 0° Ξ13'16 Inferior conj 8806 Dec 28 03:08 10° Ξ13'16 0° Ξ13'16 Inferior conj 8806 Dec 28 03:08 10° Ξ13'16 0° Ξ13'16 Inferior conj 8806 Dec 28 03:08 10° Ξ13'16 0° Ξ13'16 Inferior conj 8806 Dec 28 03:08 10° Ξ13'16 0° Ξ13'16 Inferior conj 88	desc. node	8803 Sep 03 10:00	1° M 27'29			8806 Feb 20 21:50	0° ∀	
Sevening set Sev	greatest brilliancy	8803 Sep 16 21:34	8°M46'05	-4.7m	max. Earth dist.	8806 Mar 07 08:57	18° ¥ 04'01	1.71672 AU
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asc. node oou+ Aug 00 00.01 20 66+0.46 monning rise 880/ Jan 02 19:45 0 04/ 10	asa nada							0.20309 AU
	asc. Hour	0004 Aug 00 00.01	40 66 4048		morning rise	0007 Jan 02 19.43	0 04/10	

direct	8807 Jan 18 11:17	2° ප 01'56			8809 Aug 22 16:16	0∘ ত	
asc. node	8807 Jan 21 20:54	2°る15'29			8809 Sep 16 07:28	0° m .	
greatest brilliancy	8807 Jan 29 13:04	4°る17'58	-4.8m		8809 Oct 11 08:30	0° ⊼ ″	
greatest similare	8807 Mar 05 05:29	0°≈		desc. node	8809 Oct 28 08:21	19° ₹ 58'00	
morning max el	8807 Mar 09 14:16	4°≈18'19	46°34'48		8809 Nov 06 00:30	0°ਰ	
5 5	8807 Apr 02 15:38	0°) €			8809 Dec 02 17:13	0°≈	
	8807 Apr 28 15:03	$0^{\circ}\mathbf{\Upsilon}$		evening max el	8809 Dec 29 23:17	28° ≈ 20'54	46°10'26
desc. node	8807 May 13 15:17	17° Y 55'16		C	8809 Dec 31 16:20	0° ℋ	
	8807 May 23 15:09	9° 8		greatest brilliancy	8810 Feb 07 17:23	27°)(43'14	-4.8m
	8807 Jun 17 04:23	$\Pi^{\circ}0$		retrograde	8810 Feb 17 12:31	29°) (30′58	
	8807 Jul 11 13:07	0 \circ \odot		asc. node	8810 Feb 18 08:24	29°) 30′08	
	8807 Aug 04 20:50	$0^{\circ}\Omega$		evening set	8810 Mar 04 08:29	25° ℋ 12'04	
	8807 Aug 29 04:47	O° Mp		inferior conj	8810 Mar 10 06:07	21°) 43′25	4°52'15
asc. node	8807 Sep 03 12:22	6° Mp33′14		minimum elong	8810 Mar 09 20:19	21° 升 58′28	4°49'37
morning set	8807 Sep 11 04:49	16° Mp 01'42		min. Earth dist.	8810 Mar 10 05:57	21°)(43'40	0.27146 AU
	8807 Sep 22 12:51	0∘ ⊽		morning rise	8810 Mar 15 07:51	18°) 41′15	
	8807 Oct 16 20:44	0°M₊		direct	8810 Mar 30 23:32	13° 米 51′07	
				greatest brilliancy	8810 Apr 10 02:52	15°) 47′16	-4.9m
superior conj	8807 Oct 18 05:55	1°M42'15			8810 May 02 12:55	0° Υ	
minimum elong	8807 Oct 18 00:20	1°M25'03	1°21'53	morning max el	8810 May 20 12:03	16° Y 42'37	46°59'17
max. Earth dist.	8807 Oct 18 13:50	2°M06'40	1.73278 AU		8810 Jun 02 05:26	0° 8	
	8807 Nov 10 04:45	0° ∡ 7		desc. node	8810 Jun 10 03:28	8° 8 39'03	
evening rise	8807 Nov 23 18:51	16° ₹ 44'02			8810 Jun 28 23:24	0°Ⅱ	
	8807 Dec 04 13:34	0°る			8810 Jul 24 12:32	0°9	
desc. node	8807 Dec 24 05:44	24° る 10'29			8810 Aug 18 14:06	0° N	
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	8808 Mar 11 13:57	0°8			8810 Oct 31 14:57	0°M	
	8808 Apr 05 13:51	0°II		morning set	8810 Nov 18 21:28	22°M27'30	
asc. node	8808 Apr 15 04:40	0 H 11°H19'11		morning set	8810 Nov 18 21:28 8810 Nov 25 00:22	0° × ⁷	
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evening max el	8808 May 26 20:35	27° © 16'49	46°47'49	max. Earth dist.	8810 Dec 23 22:35		1.72891 AU
e vennig max er	8808 May 29 14:09	0°Ω	10 17 15	max. Dartii dist.	0010 BCC 25 22.55	3 0 1321	1.72071710
greatest brilliancy	8808 Jul 05 08:04	27° Ω 38'15	-4.8m	superior conj	8810 Dec 25 16:35	7° る 53'21	0°57'36
retrograde	8808 Jul 16 03:21	29° Ω 48'21		minimum elong	8810 Dec 26 02:22	8° る 23'38	0°57'28
					0010 Dec 20 02.22	0 02330	0 3/40
evening set	8808 Jul 30 23:30			minimum ciong	8811 Jan 12 13:09	0°≈	0 37 28
evening set desc. node	8808 Jul 30 23:30	25° £ 29'32		desc. node			0 37 28
•			-0°18'43	C	8811 Jan 12 13:09	0° ≈	0 37 28
desc. node	8808 Jul 30 23:30 8808 Aug 05 00:35	25°\O29'32 22°\O31'06		desc. node	8811 Jan 12 13:09 8811 Jan 20 17:53	0° ≈ 10° ≈ 09'42	0 37 28
desc. node inferior conj	8808 Jul 30 23:30 8808 Aug 05 00:35 8808 Aug 06 06:25	25°Ω29'32 22°Ω31'06 21°Ω44'51	0°18'39	desc. node	8811 Jan 12 13:09 8811 Jan 20 17:53 8811 Feb 02 00:59	0°≈ 10°≈09'42 25°≈25'24	0 37 28
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desc. node inferior conj minimum elong min. Earth dist. morning rise	8808 Jul 30 23:30 8808 Aug 05 00:35 8808 Aug 06 06:25 8808 Aug 06 05:41 8808 Aug 05 18:39 8808 Aug 12 12:31	25°N29'32 22°N31'06 21°N44'51 21°N45'58 22°N03'06 18°N02'33	0°18'39 0.27805 AU	desc. node	8811 Jan 12 13:09 8811 Jan 20 17:53 8811 Feb 02 00:59 8811 Feb 05 17:26 8811 Mar 01 20:18 8811 Mar 25 22:27	0°≈ 10°≈09'42 25°≈25'24 0°¥ 0°Υ 0°8	0 3728
desc. node inferior conj minimum elong min. Earth dist. morning rise direct	8808 Jul 30 23:30 8808 Aug 05 00:35 8808 Aug 06 06:25 8808 Aug 06 05:41 8808 Aug 05 18:39 8808 Aug 12 12:31 8808 Aug 27 07:03	25°N29'32 22°N31'06 21°N44'51 21°N45'58 22°N03'06 18°N02'33 13°N49'37	0°18'39 0.27805 AU	desc. node	8811 Jan 12 13:09 8811 Jan 20 17:53 8811 Feb 02 00:59 8811 Feb 05 17:26 8811 Mar 01 20:18 8811 Mar 25 22:27 8811 Apr 19 02:02	0°≈ 10°≈09'42 25°≈25'24 0°₩ 0°Ψ 0°₩ 0°₩	0 3728
desc. node inferior conj minimum elong min. Earth dist. morning rise direct	8808 Jul 30 23:30 8808 Aug 05 00:35 8808 Aug 06 06:25 8808 Aug 06 05:41 8808 Aug 05 18:39 8808 Aug 12 12:31 8808 Aug 27 07:03 8808 Sep 06 00:28 8808 Sep 29 16:05 8808 Oct 15 01:54	25°N29'32 22°N31'06 21°N44'51 21°N45'58 22°N03'06 18°N02'33 13°N49'37 15°N32'36 0°M	0°18'39 0.27805 AU -4.8m	desc. node evening rise	8811 Jan 12 13:09 8811 Jan 20 17:53 8811 Feb 02 00:59 8811 Feb 05 17:26 8811 Mar 01 20:18 8811 Mar 25 22:27 8811 Apr 19 02:02 8811 May 13 10:43 8811 May 13 16:10 8811 Jun 07 05:57	0°≈ 10°≈09'42 25°≈25'24 0° ℋ 0° Ƴ 0° ℧ 0° ℿ 0° ℱ 0° ℱ 16'39 0° Ω	0 3728
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desc. node inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node desc. node morning set	8808 Jul 30 23:30 8808 Aug 05 00:35 8808 Aug 06 06:25 8808 Aug 06 05:41 8808 Aug 05 18:39 8808 Aug 12 12:31 8808 Aug 27 07:03 8808 Sep 06 00:28 8808 Sep 29 16:05 8808 Oct 15 01:54 8808 Oct 31 06:55 8808 Nov 25 23:27 8808 Nov 27 16:35 8808 Dec 23 13:16 8809 Jan 17 14:19 8809 Feb 11 03:50 8809 Mar 07 10:05 8809 Mar 17 16:30 8809 Mar 31 11:25 8809 Apr 14 08:44 8809 Apr 24 09:31 8809 May 18 06:19	25° \$\Pi 29'32\) 22° \$\Pi 31'06\) 21° \$\Pi 44'51\) 21° \$\Pi 45'58\) 22° \$\Pi 30'06\) 18° \$\Pi 02'33\) 13° \$\Pi 49'37\) 15° \$\Pi 32'36\) 0° \$\Pi \) 28° \$\Pi 03'36\) 0° \$\Pi \) 0° \$\Pi \) 0° \$\Pi \) 12° \$\Pi 46'48\) 0° \$\Pi \) 17° \$\Pi 24'09\) 0° \$\Pi \) 0° \$\Pi \) 0° \$\Pi \)	0°18'39 0.27805 AU -4.8m 45°45'58	desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8811 Jan 12 13:09 8811 Jan 20 17:53 8811 Feb 02 00:59 8811 Feb 05 17:26 8811 Mar 01 20:18 8811 Mar 25 22:27 8811 Apr 19 02:02 8811 May 13 10:43 8811 May 13 16:10 8811 Jun 07 05:57 8811 Jul 02 21:03 8811 Jul 02 21:03 8811 Jul 30 07:01 8811 Aug 06 20:31 8811 Sep 02 11:59 8811 Sep 02 03:47 8811 Sep 14 12:16 8811 Sep 14 12:16 8811 Sep 25 07:44 8811 Oct 16 20:19 8811 Oct 16 14:01 8811 Oct 16 11:11 8811 Oct 17 11:00 8811 Oct 20 08:25	0°≈ 10°≈09'42 25°≈25'24 0° H 0°° 0° B 0° II 0°© 0° II 0°© 0° II 0°© 0° II 13'37 0° II 18° III 18° I	46°04'29 -4.8m -8°09'59 8°09'17
desc. node inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node desc. node morning set	8808 Jul 30 23:30 8808 Aug 05 00:35 8808 Aug 06 06:25 8808 Aug 06 05:41 8808 Aug 05 18:39 8808 Aug 12 12:31 8808 Aug 27 07:03 8808 Sep 06 00:28 8808 Sep 29 16:05 8808 Oct 15 01:54 8808 Oct 31 06:55 8808 Nov 25 23:27 8808 Nov 25 23:27 8808 Nov 27 16:35 8808 Dec 23 13:16 8809 Jan 17 14:19 8809 Feb 11 03:50 8809 Mar 07 10:05 8809 Mar 17 16:30 8809 Mar 31 11:25 8809 Apr 14 08:44 8809 Apr 24 09:31 8809 May 18 06:19	25°A29'32 22°A31'06 21°A44'51 21°A45'58 22°A03'06 18°A02'33 13°A49'37 15°A32'36 0°M 13°M42'55 0°亞 28°亞03'36 0°M 0°ズ 0°ズ 0°ズ 0°ズ 0°ズ 0°ズ 0°ズ 12°Y46'48 0°Y 17°Y24'09 0°B 0°II	0°18'39 0.27805 AU -4.8m 45°45'58	desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8811 Jan 12 13:09 8811 Jan 20 17:53 8811 Feb 02 00:59 8811 Feb 05 17:26 8811 Mar 01 20:18 8811 Mar 25 22:27 8811 Apr 19 02:02 8811 May 13 10:43 8811 May 13 16:10 8811 Jun 07 05:57 8811 Jul 02 21:03 8811 Jul 02 21:03 8811 Jul 30 07:01 8811 Aug 06 20:31 8811 Sep 02 11:59 8811 Sep 02 03:47 8811 Sep 14 12:16 8811 Sep 14 12:16 8811 Sep 25 07:44 8811 Oct 12 19:45 8811 Oct 16 14:01 8811 Oct 16 11:11 8811 Oct 17 11:00 8811 Oct 20 08:25 8811 Nov 07 08:08	0°≈ 10°≈09'42 25°≈25'24 0° H 0°° 0° B 0° II 0°© 0° 16'39 0° A 0° M 0° A 7° A37'50 0° M 13'37 0° M 6° M 34'11 8° M 41'42 2° M 52'06 0° M 23'02 0° M 32'55 0° M 37'21 30° R A 28° A 12'55 22° A 07'52	46°04'29 -4.8m -8°09'59 8°09'17 0.29087 AU
desc. node inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node desc. node morning set	8808 Jul 30 23:30 8808 Aug 05 00:35 8808 Aug 06 06:25 8808 Aug 06 05:41 8808 Aug 05 18:39 8808 Aug 12 12:31 8808 Aug 27 07:03 8808 Sep 06 00:28 8808 Sep 29 16:05 8808 Oct 15 01:54 8808 Oct 31 06:55 8808 Nov 25 23:27 8808 Nov 25 23:27 8808 Nov 27 16:35 8808 Dec 23 13:16 8809 Jan 17 14:19 8809 Feb 11 03:50 8809 Mar 07 10:05 8809 Mar 17 16:30 8809 Mar 31 11:25 8809 Apr 14 08:44 8809 Apr 24 09:31 8809 May 18 06:19	25°A29'32 22°A31'06 21°A44'51 21°A45'58 22°A03'06 18°A02'33 13°A49'37 15°A32'36 0°M 13°M42'55 0°至 28°至03'36 0°M 0°ズ 0°ズ 0°ズ 0°ズ 0°ズ 12°Y46'48 0°Y 17°Y24'09 0°B 0°I 8°I24'43 8°I47'41	0°18'39 0.27805 AU -4.8m 45°45'58	desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8811 Jan 12 13:09 8811 Jan 20 17:53 8811 Feb 02 00:59 8811 Feb 05 17:26 8811 Mar 01 20:18 8811 Mar 25 22:27 8811 Apr 19 02:02 8811 May 13 10:43 8811 May 13 16:10 8811 Jun 07 05:57 8811 Jul 02 21:03 8811 Jul 02 21:03 8811 Jul 30 07:01 8811 Aug 06 20:31 8811 Sep 02 11:59 8811 Sep 02 03:47 8811 Sep 14 12:16 8811 Sep 14 12:16 8811 Sep 25 07:44 8811 Oct 16 20:19 8811 Oct 16 14:01 8811 Oct 16 11:11 8811 Oct 17 11:00 8811 Oct 20 08:25	0°≈ 10°≈09'42 25°≈25'24 0° H 0°° 0° B 0° II 0°© 0° II 0°© 0° II 0°© 0° II 13'37 0° II 18° III 18° I	46°04'29 -4.8m -8°09'59 8°09'17 0.29087 AU
desc. node inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj minimum elong	8808 Jul 30 23:30 8808 Aug 05 00:35 8808 Aug 06 06:25 8808 Aug 06 05:41 8808 Aug 05 18:39 8808 Aug 12 12:31 8808 Aug 27 07:03 8808 Sep 06 00:28 8808 Sep 29 16:05 8808 Oct 15 01:54 8808 Oct 31 06:55 8808 Nov 25 23:27 8808 Nov 25 23:27 8808 Nov 27 16:35 8808 Dec 23 13:16 8809 Jan 17 14:19 8809 Feb 11 03:50 8809 Mar 07 10:05 8809 Mar 17 16:30 8809 Mar 31 11:25 8809 Apr 14 08:44 8809 Apr 24 09:31 8809 May 18 06:19	25°A29'32 22°A31'06 21°A44'51 21°A45'58 22°A03'06 18°A02'33 13°A49'37 15°A32'36 0°M 13°M42'55 0°至 28°至03'36 0°M 0°ズ 0°ズ 0°ズ 0°ズ 0°ズ 12°Y46'48 0°Y 17°Y24'09 0°B 0°I 8°I24'43 8°I47'41	0°18'39 0.27805 AU -4.8m 45°45'58 -1°23'02 1°23'07	desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8811 Jan 12 13:09 8811 Jan 20 17:53 8811 Feb 02 00:59 8811 Feb 05 17:26 8811 Mar 01 20:18 8811 Mar 25 22:27 8811 Apr 19 02:02 8811 May 13 10:43 8811 May 13 16:10 8811 Jun 07 05:57 8811 Jul 02 21:03 8811 Jul 02 21:03 8811 Jul 30 07:01 8811 Aug 06 20:31 8811 Sep 02 11:59 8811 Sep 02 03:47 8811 Sep 14 12:16 8811 Sep 14 12:16 8811 Sep 25 07:44 8811 Oct 12 19:45 8811 Oct 16 10:11 8811 Oct 16 11:11 8811 Oct 17 11:00 8811 Oct 20 08:25 8811 Nov 07 08:08 8811 Nov 17 11:58	0°≈ 10°≈09'42 25°≈25'24 0°)	46°04'29 -4.8m -8°09'59 8°09'17 0.29087 AU
desc. node inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj minimum elong	8808 Jul 30 23:30 8808 Aug 05 00:35 8808 Aug 06 06:25 8808 Aug 06 05:41 8808 Aug 05 18:39 8808 Aug 12 12:31 8808 Aug 27 07:03 8808 Sep 06 00:28 8808 Sep 29 16:05 8808 Oct 15 01:54 8808 Oct 31 06:55 8808 Nov 25 23:27 8808 Nov 25 23:27 8808 Nov 27 16:35 8808 Dec 23 13:16 8809 Jan 17 14:19 8809 Feb 11 03:50 8809 Mar 07 10:05 8809 Mar 17 16:30 8809 Mar 31 11:25 8809 Apr 14 08:44 8809 Apr 24 09:31 8809 May 18 06:19 8809 May 24 22:58 8809 May 25 06:17 8809 May 26 15:47	25°A29'32 22°A31'06 21°A44'51 21°A45'58 22°A03'06 18°A02'33 13°A49'37 15°A32'36 0°M 13°M42'55 0°至 28°至03'36 0°M 0°ズ 0°ズ 0°ズ 0°ズ 0°ズ 0°ズ 0°ズ 12°Y46'48 0°Y 17°Y24'09 0°出 8°用24'43 8°用47'41 10°用32'52	0°18'39 0.27805 AU -4.8m 45°45'58 -1°23'02 1°23'07	desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8811 Jan 12 13:09 8811 Jan 20 17:53 8811 Feb 02 00:59 8811 Feb 05 17:26 8811 Mar 01 20:18 8811 Mar 25 22:27 8811 Apr 19 02:02 8811 May 13 10:43 8811 May 13 16:10 8811 Jun 07 05:57 8811 Jul 02 21:03 8811 Jul 02 21:03 8811 Jul 30 07:01 8811 Aug 06 20:31 8811 Sep 02 11:59 8811 Sep 02 03:47 8811 Sep 14 12:16 8811 Sep 14 12:16 8811 Sep 25 07:44 8811 Oct 12 19:45 8811 Oct 16 10:11 8811 Oct 16 11:11 8811 Oct 17 11:00 8811 Oct 20 08:25 8811 Nov 07 08:08 8811 Nov 17 11:58 8811 Nov 29 08:35	0°≈ 10°≈09'42 25°≈25'24 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 13'37 0° \(\) 6° \(\) 13'37 0° \(\) 6° \(\) 13'37 0° \(\) 0° \(\) 13'37 0° \(\) 0° \(\) 13'21 20° \(\) 30° \(\) 28° \(\) 28° \(\) 21'55 22° \(\) 20'7'52 24° \(\) 20'14 0° \(\)	46°04'29 -4.8m -8°09'59 8°09'17 0.29087 AU
desc. node inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj minimum elong max. Earth dist.	8808 Jul 30 23:30 8808 Aug 05 00:35 8808 Aug 06 06:25 8808 Aug 06 05:41 8808 Aug 05 18:39 8808 Aug 12 12:31 8808 Aug 27 07:03 8808 Sep 06 00:28 8808 Sep 29 16:05 8808 Oct 15 01:54 8808 Oct 31 06:55 8808 Nov 25 23:27 8808 Nov 25 23:27 8808 Dec 23 13:16 8809 Jan 17 14:19 8809 Feb 11 03:50 8809 Mar 07 10:05 8809 Mar 17 16:30 8809 Mar 31 11:25 8809 Mar 31 11:25 8809 Apr 14 08:44 8809 Apr 24 09:31 8809 May 18 06:19 8809 May 24 22:58 8809 May 25 06:17 8809 May 26 15:47 8809 Jun 11 03:52	25°A29'32 22°A31'06 21°A44'51 21°A45'58 22°A03'06 18°A02'33 13°A49'37 15°A32'36 0°M 13°M42'55 0°丘 28°丘03'36 0°M 0°ズ 0°云 0°ズ 0°ゴ 0°ズ 0°ゴ 0°ゴ 0°ゴ 0°ゴ 0°ゴ 12°¥46'48 0°Y 17°Y24'09 0°Ы 8°用24'43 8°用47'41 10°用32'52	0°18'39 0.27805 AU -4.8m 45°45'58 -1°23'02 1°23'07	desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8811 Jan 12 13:09 8811 Jan 20 17:53 8811 Feb 02 00:59 8811 Feb 05 17:26 8811 Mar 01 20:18 8811 Mar 25 22:27 8811 Apr 19 02:02 8811 May 13 10:43 8811 May 13 16:10 8811 Jun 07 05:57 8811 Jul 02 21:03 8811 Jul 02 21:03 8811 Jul 30 07:01 8811 Aug 06 20:31 8811 Sep 02 11:59 8811 Sep 02 03:47 8811 Sep 14 12:16 8811 Sep 14 12:16 8811 Sep 25 07:44 8811 Oct 12 19:45 8811 Oct 16 20:19 8811 Oct 16 14:01 8811 Oct 16 11:11 8811 Oct 17 11:00 8811 Oct 20 08:25 8811 Nov 07 08:08 8811 Nov 17 11:58 8811 Nov 29 08:35 8811 Dec 24 11:20	0°≈ 10°≈09'42 25°≈25'24 0° H 0° Y 0° B 0° II 0° © 0° I6'39 0° M	46°04'29 -4.8m -8°09'59 8°09'17 0.29087 AU -4.7m
desc. node inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj minimum elong max. Earth dist.	8808 Jul 30 23:30 8808 Aug 05 00:35 8808 Aug 06 06:25 8808 Aug 06 05:41 8808 Aug 05 18:39 8808 Aug 12 12:31 8808 Aug 27 07:03 8808 Sep 06 00:28 8808 Sep 29 16:05 8808 Oct 15 01:54 8808 Oct 31 06:55 8808 Nov 25 23:27 8808 Nov 25 23:27 8808 Dec 23 13:16 8809 Jan 17 14:19 8809 Feb 11 03:50 8809 Mar 07 10:05 8809 Mar 17 16:30 8809 Mar 31 11:25 8809 Mar 31 11:25 8809 Apr 14 08:44 8809 Apr 24 09:31 8809 May 18 06:19 8809 May 24 22:58 8809 May 25 06:17 8809 May 26 15:47 8809 Jun 11 03:52 8809 Jul 04 04:27	25° \$\Pi 29'32 22° \$\Pi 31'06 21° \$\Pi 44'51 21° \$\Pi 45'58 22° \$\Pi 03'06 18° \$\Pi 02'33 13° \$\Pi 49'37 15° \$\Pi 32'36 0° \$\Pi 28° \$\Pi 03'36 0° \$\Pi 0° \$\Pi 0° \$\Pi 12° \$\Pi 46'48 0° \$\Pi 12° \$\Pi 24'09 0° \$\Pi 0° \$\Pi 8° \$\Pi 24'43 8° \$\Pi 47'41 10° \$\Pi 32'52 0° \$\Pi 28° \$\Pi 46'50	0°18'39 0.27805 AU -4.8m 45°45'58 -1°23'02 1°23'07	desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8811 Jan 12 13:09 8811 Jan 20 17:53 8811 Feb 02 00:59 8811 Feb 05 17:26 8811 Mar 01 20:18 8811 Mar 25 22:27 8811 Apr 19 02:02 8811 May 13 10:43 8811 May 13 16:10 8811 Jun 07 05:57 8811 Jul 02 21:03 8811 Jul 02 21:03 8811 Jul 30 07:01 8811 Sep 02 11:59 8811 Sep 02 11:59 8811 Sep 02 03:47 8811 Sep 14 12:16 8811 Sep 25 07:44 8811 Oct 12 19:45 8811 Oct 16 20:19 8811 Oct 16 14:01 8811 Oct 16 11:11 8811 Oct 17 11:00 8811 Oct 20 08:25 8811 Nov 07 08:08 8811 Nov 17 11:58 8811 Nov 29 08:35 8811 Dec 24 11:20 8811 Dec 26 10:06	0°≈ 10°≈09'42 25°≈25'24 0° H 0° Y 0° B 0° II 0° © 0° I6'39 0° M	46°04'29 -4.8m -8°09'59 8°09'17 0.29087 AU -4.7m
desc. node inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node desc. node morning set superior conj minimum elong max. Earth dist. evening rise	8808 Jul 30 23:30 8808 Aug 05 00:35 8808 Aug 06 06:25 8808 Aug 06 05:41 8808 Aug 05 18:39 8808 Aug 12 12:31 8808 Aug 27 07:03 8808 Sep 06 00:28 8808 Sep 29 16:05 8808 Oct 15 01:54 8808 Oct 31 06:55 8808 Nov 25 23:27 8808 Nov 27 16:35 8808 Dec 23 13:16 8809 Jan 17 14:19 8809 Feb 11 03:50 8809 Mar 07 10:05 8809 Mar 17 16:30 8809 Mar 31 11:25 8809 Mar 31 11:25 8809 Apr 14 08:44 8809 Apr 24 09:31 8809 May 18 06:19 8809 May 24 22:58 8809 May 25 06:17 8809 May 26 15:47 8809 Jun 11 03:52 8809 Jul 04 04:27 8809 Jul 05 03:56	25° \$\Pi 29'32 22° \$\Pi 31'06 21° \$\Pi 44'51 21° \$\Pi 45'58 22° \$\Pi 03'06 18° \$\Pi 02'33 13° \$\Pi 49'37 15° \$\Pi 32'36 0° \$\Pi 13° \$\Pi 42'55 0° \$\Pi 28° \$\Pi 03'36 0° \$\Pi 12° \$\Pi 46'48 0° \$\Pi 12° \$\Pi 46'48 0° \$\Pi 17° \$\Pi 24'09 0° \$\Pi 8° \$\Pi 24'43 8° \$\Pi 47'41 10° \$\Pi 32'52 0° \$\Pi 28° \$\Pi 46'50 0° \$\Pi 28° \$\Pi 46'50 0° \$\Pi	0°18'39 0.27805 AU -4.8m 45°45'58 -1°23'02 1°23'07	desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8811 Jan 12 13:09 8811 Jan 20 17:53 8811 Feb 02 00:59 8811 Feb 05 17:26 8811 Mar 01 20:18 8811 Mar 25 22:27 8811 Apr 19 02:02 8811 May 13 10:43 8811 May 13 16:10 8811 Jun 07 05:57 8811 Jul 02 21:03 8811 Jul 02 21:03 8811 Jul 30 07:01 8811 Sep 02 11:59 8811 Sep 02 11:59 8811 Sep 02 03:47 8811 Sep 14 12:16 8811 Sep 25 07:44 8811 Oct 12 19:45 8811 Oct 16 20:19 8811 Oct 16 14:01 8811 Oct 16 11:11 8811 Oct 17 11:00 8811 Oct 20 08:25 8811 Nov 17 08:08 8811 Nov 17 11:58 8811 Nov 29 08:35 8811 Dec 24 11:20 8811 Dec 26 10:06 8812 Jan 02 22:04	0°≈ 10°≈09'42 25°≈25'24 0° H 0° Y 0° S 0° II 0° © 0° I6'39 0° M	46°04'29 -4.8m -8°09'59 8°09'17 0.29087 AU -4.7m

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	8812 Mar 21 04:25	0°) €			8814 Sep 03 09:30	0°M	
desc. node	8812 Apr 14 04:54	29°) 30'19		desc. node	8814 Sep 29 23:02	29° M .17'19	
dese. Hode	8812 Apr 14 14:30	0°Υ		dese. Hode	8814 Sep 30 15:15	0° ⊼	
	-	0°8		avanina may al	8814 Oct 16 20:01	16° х 19'33	45942122
	8812 May 08 18:08			evening max el			43 42 33
	8812 Jun 01 18:33	0° I I			8814 Nov 01 04:44	0°る	
	8812 Jun 25 18:27	0 \circ \odot		greatest brilliancy	8814 Nov 24 23:57	14° る 25'36	-4.7m
morning set	8812 Jun 28 17:35	3°5642'04		retrograde	8814 Dec 04 12:00	16° る 03'44	
	8812 Jul 19 19:43	$0 {\circ} \Omega$		evening set	8814 Dec 21 00:05	10°る53'59	
asc. node	8812 Aug 05 01:57	20° Ω 12'51		inferior conj	8814 Dec 25 18:31	7° る 59'47	-5°53'15
				minimum elong	8814 Dec 26 04:35	7° る 44'01	5°50'45
superior conj	8812 Aug 06 14:09	22° Ω 05'14	0°03'42	min. Earth dist.	8814 Dec 26 14:07	7° る 29'07	0.28440 AU
minimum elong	8812 Aug 06 13:19	22° Ω 02'38	0°03'30	morning rise	8814 Dec 31 08:35	4° る 36'22	
behind sun begin	8812 Aug 05 13:43	20° Ω 49'24		5 2	8815 Jan 12 20:27	30°R. ✓	
behind sun end	8812 Aug 07 12:54	23°Ω15'52		direct	8815 Jan 16 02:33	29° ×7 47'15	
max. Earth dist.	8812 Aug 09 08:11		1.72510 AU	direct	8815 Jan 19 09:51	0°る	
max. Earth dist.	-		1.72310 AU	1-		0°る14'24	
	8812 Aug 12 23:11	0° Mp		asc. node	8815 Jan 20 22:52		4.0
	8812 Sep 06 04:58	0∘ ত		greatest brilliancy	8815 Jan 27 05:18	2°る03'35	-4.8m
evening rise	8812 Sep 13 04:01	8° ≏ 35'33			8815 Mar 05 04:49	0° ≈	
	8812 Sep 30 13:20	0° M		morning max el	8815 Mar 07 04:18	1° ≈ 58′01	46°33'25
	8812 Oct 25 01:14	0°⊀			8815 Apr 02 07:55	0° ℋ	
	8812 Nov 18 18:00	0°ප			8815 Apr 28 04:55	0 ° $\mathbf{\Upsilon}$	
desc. node	8812 Nov 24 20:00	7° る 20'35		desc. node	8815 May 12 17:22	17° Ƴ 22'08	
	8812 Dec 13 16:51	0° ≈			8815 May 23 03:51	8°	
	8813 Jan 07 23:23	0° ∀			8815 Jun 16 16:24	$\Pi^{\circ}0$	
	8813 Feb 02 18:31	$_0$ $^{\circ}$ \mathbf{Y}			8815 Jul 11 00:43	0°ಅ	
	8813 Mar 01 18:51	0°8			8815 Aug 04 08:08	$0^{\circ}\Omega$	
evening max el	8813 Mar 12 20:41	11° 8 29'09	46°52'35		8815 Aug 28 15:50	0° m	
asc. node	8813 Mar 17 19:29	16° 8 22'06	.0 0230	asc. node	8815 Sep 02 14:15	6° Mp 05'07	
ase. Houe	8813 Apr 02 01:36	0°II		morning set	8815 Sep 08 20:58	13° m 49'48	
areatast brillianas	8813 Apr 22 11:10	12° II 25'30	4 000	morning set		0° ت	
greatest brilliancy			-4.9111		8815 Sep 21 23:43	0 ==	
retrograde	8813 May 02 07:12	14° Ⅱ 14'51			0015 0 + 15 22 20	200 0 2 4145	1020147
evening set	8813 May 20 04:47	8° I 05'38	0040117	superior conj	8815 Oct 15 23:20		1°20'47
inferior conj	8813 May 22 22:48	6° Ⅱ 24'42		minimum elong	8815 Oct 15 17:12		1°20'48
minimum elong	8813 May 23 05:07	6° Ⅱ 14'59			8815 Oct 16 07:32	0°M	
min. Earth dist.	8813 May 22 23:43	6° Ⅱ 23'17	0.27162 AU	max. Earth dist.	8815 Oct 16 07:11		1.73271 AU
morning rise	8813 May 26 05:32	4° Ⅱ 25'06			8815 Nov 09 15:35	0°⊀	
	8813 Jun 04 10:04	30° ₹ 8		evening rise	8815 Nov 21 11:40	14° ≯ ³34'33	
direct	8813 Jun 12 15:34	28° 8 37'10			8815 Dec 04 00:33	0°ප	
	8813 Jun 21 03:49	Π $^{\circ}0$		desc. node	8815 Dec 23 07:47	23° ප් 42'31	
greatest brilliancy	8813 Jun 22 06:28	0° Ⅲ 22'04	-4.9m		8815 Dec 28 10:49	0° ≈	
desc. node	8813 Jul 07 15:05	8° Ⅱ 47'36			8816 Jan 21 22:11	0° ∀	
	8813 Aug 01 01:13	0°ಅ			8816 Feb 15 10:46	$0^{\circ}\mathbf{\Upsilon}$	
morning max el	8813 Aug 01 15:43	0°935'42	46°27'20		8816 Mar 11 02:41	0°8	
•	8813 Aug 29 13:29	$0^{\circ}\Omega$			8816 Apr 05 03:49	$\Pi^{\circ}0$	
	8813 Sep 25 01:55	0° m)		asc. node	8816 Apr 14 06:43	10° Ⅱ 42'27	
	8813 Oct 20 17:35	0∘ <u>⊽</u>			8816 May 01 03:17	0°€	
asc. node	8813 Oct 28 13:10	9° ≏ 16'47		evening max el	8816 May 24 09:55	24° © 53'49	46°48'51
use. Houe	8813 Nov 14 20:16	0°M₁		evening max er	8816 May 29 14:02	0°Ω	10 1021
	8813 Dec 09 13:32	0° ∡ 7		greatest brilliancy	8816 Jul 03 00:07	25° Ω 20'59	-4.8m
	8814 Jan 03 00:06	0°ਤ		•	8816 Jul 13 17:56	27° Ω 30'19	-4.0111
				retrograde			
morning set	8814 Jan 27 09:19	0°≈09'55		evening set	8816 Jul 28 14:48	23° Ω 10'32	0002121
	8814 Jan 27 06:07	0° ≈		inferior conj	8816 Aug 03 20:56	19° Ω 27'26	
desc. node	8814 Feb 17 06:02	26°≈06'54		minimum elong	8816 Aug 03 21:04	19° Ω 27'14	
	8814 Feb 20 08:47	0° ∀		transit middle	8816 Aug 03 21:04	19° Ω 27'14	0°03'19
max. Earth dist.	8814 Mar 04 17:46	15° ∺ 27'17	1.71711 AU	transit begin	8816 Aug 03 17:05	19° Ω 33'24	
				transit end	8816 Aug 04 01:02	19° Ω 21'04	
superior conj	8814 Mar 07 20:13	19°) €20'04	-0°43'18	min. Earth dist.	8816 Aug 03 10:17	19° Ω 43'56	0.27767 AU
minimum elong	8814 Mar 07 10:31	18°) 49'44	0°42'49	desc. node	8816 Aug 04 02:32	19° Ω 18'45	
	8814 Mar 16 08:42	0 ° $\mathbf{\gamma}$		morning rise	8816 Aug 10 03:52	15° Ω 44′05	
	8814 Apr 09 06:36	0°8		direct	8816 Aug 24 20:31	11° Ω 32′26	
evening rise	8814 Apr 16 22:32	9° 8 37'25		greatest brilliancy	8816 Sep 03 15:31	13° Ω 16′39	-4.8m
-	8814 May 03 04:07	0° I I		-	8816 Sep 30 00:01	0° m)	
	8814 May 27 03:34	0°ಅ		morning max el	8816 Oct 12 16:31	11° m)28'01	45°46'48
asc. node	8814 Jun 10 03:54	17° 5 26'02			8816 Oct 31 00:46	0° ರ	
200. 11000	8814 Jun 20 07:29	0°Ω		asc. node	8816 Nov 25 01:32	0 — 27° ≏ 28'54	
	8814 Jul 14 18:33	0° m		use. Houc	8816 Nov 27 06:46	0°M	
	8814 Aug 08 16:39	0∘ ʊ			8816 Dec 23 01:53	0° ⊼ 1	
	0014 Aug 00 10.39	· ==			0010 DCC 23 01.33	O X.	

	8817 Jan 17 02:10	0°₹			8819 Sep 03 05:47	0°M	
	8817 Feb 10 15:16	0°≈		greatest brilliancy	8819 Sep 12 03:14	4°M23'31	-4.8m
	8817 Mar 06 21:16	0 ≈ 0° ∀		retrograde	8819 Sep 23 00:16	6°M32'08	-4.0111
desc. node	8817 Mar 16 18:23	12°) 17'59		evening set	8819 Oct 10 08:59	0°M47'10	
dese. Hode	8817 Mar 30 22:27	0°Υ		evening set	8819 Oct 11 16:09	30°R ≏	
morning set	8817 Apr 11 19:25	14° Υ 52'36		min. Earth dist.	8819 Oct 14 02:00	28° ₽ 29'59	0.29066 AU
morning sec	8817 Apr 23 20:28	0°8		inferior conj	8819 Oct 14 12:30	28° ₽ 13'30	
	8817 May 17 17:12	0° I		minimum elong	8819 Oct 14 05:37	28° £ 24'19	
		-		morning rise	8819 Oct 18 02:25	26° ♀ 00'39	
superior conj	8817 May 22 10:41	5° Ⅱ 56'35	-1°24'12	direct	8819 Nov 05 00:45	19° ≙ 59'00	
minimum elong	8817 May 22 17:09	6° Ⅱ 16'56	1°24'20	greatest brilliancy	8819 Nov 15 02:15	21° ≏ 49'31	-4.7m
max. Earth dist.	8817 May 23 22:26	7° Ⅱ 48'54	1.71321 AU		8819 Nov 30 05:56	0° M	
	8817 Jun 10 14:43	0ಂತ		asc. node	8819 Dec 23 13:15	19° M 49'30	
evening rise	8817 Jul 01 17:27	26° © 23'55		morning max el	8819 Dec 24 01:49	20° ™ 19'57	45°49'25
	8817 Jul 04 14:47	$0^{\circ}\Omega$		-	8820 Jan 02 17:06	0° ∡ ¹	
asc. node	8817 Jul 07 15:47	3° Ω 47'17			8820 Jan 30 03:45	8°0	
	8817 Jul 28 18:39	0° ™			8820 Feb 24 19:56	0° ≈	
	8817 Aug 22 03:27	0∘ ⊽			8820 Mar 20 16:23	0°) €	
	8817 Sep 15 19:03	0°M		desc. node	8820 Apr 13 06:56	29° ₭ 01'02	
	8817 Oct 10 20:49	0° ∡ ″			8820 Apr 14 02:00	0° Ƴ	
desc. node	8817 Oct 27 10:25	19° х 26′00			8820 May 08 05:19	0°B	
	8817 Nov 05 14:09	0°ප			8820 Jun 01 05:31	Π $^{\circ}0$	
	8817 Dec 02 09:40	0° ≈			8820 Jun 25 05:14	0 \circ \odot	
evening max el	8817 Dec 27 13:45	26° ≈ 03′22	46°09'00	morning set	8820 Jun 26 06:55	1° 5 20'13	
	8817 Dec 31 16:48	0° ∀			8820 Jul 19 06:22	0 $^{\circ}$ Ω	
greatest brilliancy	8818 Feb 05 05:50	25° ∺ 19'18	-4.8m				
retrograde	8818 Feb 15 02:04	27° ∺ 07'39		superior conj	8820 Aug 04 05:02	19° Ω 49'34	0°00'07
asc. node	8818 Feb 17 10:18	27° ∺ 00′59		minimum elong	8820 Aug 04 05:01	19° Ω 49'32	0°00'03
evening set	8818 Mar 01 19:31	22° 米 51'18		behind sun begin	8820 Aug 03 06:04	18° Ω 38'14	
inferior conj	8818 Mar 07 19:17	19° 米 19'41	4°31'38	behind sun end	8820 Aug 05 03:58	21° Ω 00′50	
minimum elong	8818 Mar 07 09:57	19°) 33′59	4°29'04	asc. node	8820 Aug 04 03:53	19° Ω 45'59	
min. Earth dist.	8818 Mar 07 19:31	19° ∺ 19'18	0.27163 AU	max. Earth dist.	8820 Aug 07 03:07	23° Ω 27′12	1.72464 AU
morning rise	8818 Mar 13 00:07	16° 米 13′22			8820 Aug 12 09:44	0° m)	
direct	8818 Mar 28 13:29	11° ∺ 26'57			8820 Sep 05 15:30	0∘ ⊽	
greatest brilliancy	8818 Apr 07 17:06	13°) €23'53	-4.9m	evening rise	8820 Sep 10 21:10	6° Ω 27'53	
	8818 May 02 21:55	0°Υ	46050100		8820 Sep 29 23:57	0° ™	
morning max el	8818 May 18 03:03	14° Υ 22'45	46°59'33		8820 Oct 24 12:05	0° ∡ ¹	
	8818 Jun 02 00:01	0°8			8820 Nov 18 05:16	0°る	
desc. node	8818 Jun 09 05:26	7° 8 57'03		desc. node	8820 Nov 23 21:58	6°る52'08	
	8818 Jun 28 14:09	0°© 0°∏			8820 Dec 13 04:49 8821 Jan 07 12:29	0° ₩	
	8818 Jul 24 01:32 8818 Aug 18 02:06	0° U			8821 Feb 02 09:34	0 K 0°Υ	
	8818 Sep 11 21:33	0° m			8821 Mar 01 14:21	0°8	
asc. node	8818 Sep 30 02:44	22° Mp 08'35		evening max el	8821 Mar 10 10:17	9° 8 05'54	46°51'34
asc. node	8818 Oct 06 13:23	ე∘ ი		asc. node	8821 Mar 16 21:33	15° 8 26'26	40 31 34
	8818 Oct 31 01:44	0° m		asc. node	8821 Apr 02 17:01	0°Ⅱ	
morning set	8818 Nov 16 14:43	20°M19'57		greatest brilliancy	8821 Apr 20 00:55	10° Ⅱ 01'09	-4.9m
morning sec	8818 Nov 24 11:02	0° %		retrograde	8821 Apr 29 19:46	11° ∏ 49'24	,
	8818 Dec 18 18:10	0°ප		evening set	8821 May 17 20:06	5° Ⅱ 37'14	
max. Earth dist.	8818 Dec 21 17:42	3° ⋜ 41′09	1.72920 AU	inferior conj	8821 May 20 11:43	3° П 59'48	8°55'52
				minimum elong	8821 May 20 17:09	3° Ⅱ 51'24	
superior conj	8818 Dec 23 08:37	5°₹41′28	1°00'05	min. Earth dist.	8821 May 20 12:29	3° Ⅱ 58'36	0.27153 AU
minimum elong	8818 Dec 23 18:25	6° ට 11'48	0°59'58	morning rise	8821 May 23 14:16	2° Ⅱ 06'08	
	8819 Jan 11 23:51	0°≈		•	8821 May 27 08:08	30° ₹ 8	
desc. node	8819 Jan 19 19:43	9° ≈ 42'04		direct	8821 Jun 10 04:16	26° 8 12'26	
evening rise	8819 Jan 30 15:16	23° ≈ 07'08		greatest brilliancy	8821 Jun 19 19:07	27° 8 56'59	-4.9m
	8819 Feb 05 04:16	0°) €			8821 Jun 24 16:06	$\Pi^{\circ}0$	
	8819 Mar 01 07:21	$0^{\circ}\Upsilon$		desc. node	8821 Jul 06 17:01	7° Ⅱ 30'39	
	8819 Mar 25 09:45	9° 8		morning max el	8821 Jul 30 04:24	28° Ⅲ 12′13	46°29'01
	8819 Apr 18 13:40	$\Pi^{\circ}0$			8821 Jul 31 23:49	0 \circ \odot	
asc. node	8819 May 12 18:13	29° Ⅱ 45'53			8821 Aug 29 05:23	$0^{\circ}\Omega$	
	8819 May 12 22:50	0°©			8821 Sep 24 15:14	0° m	
	8819 Jun 06 18:57	$0^{\circ}\Omega$			8821 Oct 20 05:35	0∘ ⊽	
	8819 Jul 02 11:50	0° m		asc. node	8821 Oct 27 15:15	8° ≏ 48'03	
	8819 Jul 30 02:28	0∘ ত			8821 Nov 14 07:32	0° M	
evening max el	8819 Aug 04 13:10	5° £ 27'49	46°05'55		8821 Dec 09 00:24	0° ∡	
desc. node	8819 Sep 01 13:52	28° ≏ 58'20			8822 Jan 02 10:47	0°ಕ	

. ,	0022 1 25 00 01	270752120			0024 1 1 26 06 00	200 0 5 1122	
morning set	8822 Jan 25 00:01	27° る 53'38		evening set	8824 Jul 26 06:09	20° Ω 51'33	0005155
11-	8822 Jan 26 16:45	0° ≈ 25° ≈ 39'45		inferior conj	8824 Aug 01 11:18	17° Ω 10'16 17° Ω 08'45	0°25'55 0°25'26
desc. node	8822 Feb 16 07:58 8822 Feb 19 19:26	23 ≈ 3943 0°) (minimum elong min. Earth dist.	8824 Aug 01 12:17 8824 Aug 01 01:29	$17^{\circ} \Omega 25'28$	0.27726 AU
max. Earth dist.	8822 Mar 02 02:37		1.71754 AU	desc. node	8824 Aug 03 04:30	1/ δι 25 28 16° Ω 06'48	0.27720 AU
max. Earth dist.	8622 Wai 02 02.37	12 /(313/	1./1/34 AU	morning rise	8824 Aug 07 18:56	13°Ω26'22	
superior conj	8822 Mar 05 08:26	16° ¥ 54'49	-0°39'55	direct	8824 Aug 22 10:10	9°Ω15'33	
minimum elong	8822 Mar 04 23:20	16° X 26'23		greatest brilliancy	8824 Sep 01 06:03	11° Ω 00'49	-4 8m
minimum ciong	8822 Mar 15 19:23	0°Υ	0 37 21	greatest orimaney	8824 Sep 30 05:12	0° m)	1.0111
	8822 Apr 08 17:21	0°8		morning max el	8824 Oct 10 07:54	9° m) 15'58	45°47'45
evening rise	8822 Apr 14 09:30	7° 8 07'22		morning must be	8824 Oct 30 17:49	0∘ ⊽	,
	8822 May 02 14:57	0°II		asc. node	8824 Nov 24 03:21	26° ♀ 54'43	
	8822 May 26 14:33	0°©			8824 Nov 26 20:26	0°M	
asc. node	8822 Jun 09 05:48	16°957'32			8824 Dec 22 14:03	0° ∡ ⊓	
	8822 Jun 19 18:43	$0^{\circ}\Omega$			8825 Jan 16 13:36	0°ප	
	8822 Jul 14 06:11	0° m)			8825 Feb 10 02:19	0° ≈	
	8822 Aug 08 05:02	0∘ <u>v</u>			8825 Mar 06 08:08	0°) €	
	8822 Sep 02 23:22	0°M		desc. node	8825 Mar 15 20:25	11°) 50'34	
desc. node	8822 Sep 29 01:09	28° M 37'22			8825 Mar 30 09:13	0° Y	
	8822 Sep 30 08:47	0° ∡ ¹		morning set	8825 Apr 09 06:00	12° Y ′21'30	
evening max el	8822 Oct 14 09:49	14° ∡ °04'52	45°42'33		8825 Apr 23 07:13	0°8	
	8822 Nov 01 14:02	o°ප			8825 May 17 03:57	Π°	
greatest brilliancy	8822 Nov 22 14:51	12° る 14'15	-4.7m				
retrograde	8822 Dec 02 02:43	13° る 52'42		superior conj	8825 May 19 21:51	3° Ⅲ 27′05	-1°25'14
evening set	8822 Dec 18 18:18	8° ප 38'03		minimum elong	8825 May 20 03:24	3° Ⅱ 44'34	1°25'23
inferior conj	8822 Dec 23 10:06	5° る 47'51	-6°08'01	max. Earth dist.	8825 May 21 06:02	5° Ⅱ 08'15	1.71305 AU
minimum elong	8822 Dec 23 20:12	5° る 32'02	6°05'36		8825 Jun 10 01:27	0 \circ \odot	
min. Earth dist.	8822 Dec 24 05:49	5°る17'00	0.28497 AU	evening rise	8825 Jun 29 05:48	23° © 59'21	
morning rise	8822 Dec 28 21:34	2° る 28'00			8825 Jul 04 01:31	$0^{\circ}\Omega$	
	8823 Jan 02 18:19	30°R ✓		asc. node	8825 Jul 06 17:39	3° Ω 19'40	
direct	8823 Jan 13 18:01	27° ∡ ³34′26			8825 Jul 28 05:27	0° ™	
asc. node	8823 Jan 20 00:48	28° ∡ 19'32			8825 Aug 21 14:27	0∘ ⊽	
greatest brilliancy	8823 Jan 24 22:04	29° ∡ ′51'38	-4.8m		8825 Sep 15 06:29	0° M	
	8823 Jan 25 06:31	8°0			8825 Oct 10 08:58	0° ∡ ¹	
morning max el	8823 Mar 04 19:01	29° る 40'32	46°31'48	desc. node	8825 Oct 26 12:23	18° ₹ ′54'14	
	8823 Mar 05 02:47	0° ≈			8825 Nov 05 03:41	0°ප	
	8823 Apr 01 23:40	0° ∀			8825 Dec 02 02:07	0° ≈	
	8823 Apr 27 18:24	0° Υ		evening max el	8825 Dec 25 05:00	23° ≈ 48'53	46°07'37
desc. node	8823 May 11 19:20	16° Y 49'35			8825 Dec 31 18:06	0° ₩	
	8823 May 22 16:11	0° 8		greatest brilliancy	8826 Feb 02 18:36	22°) 57′23	-4.8m
	8823 Jun 16 04:04	0° П		retrograde	8826 Feb 12 15:43	24°) (45'57	
	8823 Jul 10 11:56	0° ©		asc. node	8826 Feb 16 12:19	24°) €27'51	
	8823 Aug 03 19:01	0° N		evening set	8826 Feb 27 07:08	20°) € 32'05	4010145
	8823 Aug 28 02:29	0°M)		inferior conj	8826 Mar 05 08:41	16° ¥ 57'39	4°10'45
asc. node	8823 Sep 01 16:14	5° Mp 38'29		minimum elong	8826 Mar 04 23:55	17°) 11'07 16°) 56'44	4°08'17 0.27184 AU
morning set	8823 Sep 06 13:12 8823 Sep 21 10:12	11° ™ 39'15 0° ₽		min. Earth dist.	8826 Mar 05 09:17	13° X 36'44	0.27184 AU
	8823 Sep 21 10.12	0 ==		morning rise direct	8826 Mar 10 16:30 8826 Mar 26 03:58	9° X 04'39	
superior conj	8823 Oct 13 17:01	27° ≏ 29'11	1°10'37	greatest brilliancy	8826 Apr 05 07:18	11° X 01'42	-4 9m
minimum elong	8823 Oct 13 17:01 8823 Oct 13 10:20	27° ⊆ 2911 27° ⊆ 08'35		51 carest of fillancy	8826 May 03 04:06	0°Υ	7.7111
max. Earth dist.	8823 Oct 14 01:16	27° ⊆ 54'37		morning max el	8826 May 15 17:36	12° Υ '02'18	46°59'23
max. Earth dist.	8823 Oct 15 17:56	0° m	1.73201710	morning max or	8826 Jun 01 18:02	0°8	10 37 23
	8823 Nov 09 02:00	0° ⊼ 7		desc. node	8826 Jun 08 07:19	7° 8 15'27	
evening rise	8823 Nov 19 04:54	12° ₹ 27'43			8826 Jun 28 04:43	0°II	
	8823 Dec 03 11:07	0°る			8826 Jul 23 14:28	0°©	
desc. node	8823 Dec 22 09:39	23° る 15'19			8826 Aug 17 14:05	0°N	
	8823 Dec 27 21:38	0° ≈			8826 Sep 11 08:54	0° m)	
	8824 Jan 21 09:22	0°) €		asc. node	8826 Sep 29 04:45	21° m)41'04	
	8824 Feb 14 22:30	0° Υ			8826 Oct 06 00:19	0∘ <u>⊽</u>	
	8824 Mar 10 15:15	0°8			8826 Oct 30 12:26	0° M	
	8824 Apr 04 17:43	$\Pi^{\circ}0$		morning set	8826 Nov 14 08:00	18°M12'52	
asc. node	8824 Apr 13 08:44	10° Ⅱ 05'53			8826 Nov 23 21:37	0° ∡ ¹	
	8824 Apr 30 19:55	0 \circ \odot			8826 Dec 18 04:43	ರ∘ರ	
evening max el	8824 May 21 23:43	22° © 32'31	46°50'03	max. Earth dist.	8826 Dec 19 11:14	1° る 34'18	1.72946 AU
	8824 May 29 14:53	0 ° Ω					
greatest brilliancy	8824 Jun 30 15:33	23° Ω 03′24	-4.8m	superior conj	8826 Dec 21 00:59	3°₹30'58	1°02'27
retrograde	8824 Jul 11 08:55	25° Ω 12'41		minimum elong	8826 Dec 21 10:45	4° る 01'11	1°02'22

	8827 Jan 11 10:29	0° ≈			9920 May 20 14:40	30° R ႘	
JJ.				1: 4	8829 May 20 14:49	23° 8 47'38	
desc. node	8827 Jan 18 21:42	9°≈15'08		direct	8829 Jun 07 16:39	_	4.0
evening rise	8827 Jan 28 05:56	20°≈50'24		greatest brilliancy	8829 Jun 17 08:18	25° 8 32'28	-4.9m
	8827 Feb 04 15:02	0° ∀			8829 Jun 26 15:33	0° Π	
	8827 Feb 28 18:18	0° Υ		desc. node	8829 Jul 05 19:01	6° Ⅱ 15'57	
	8827 Mar 24 20:58	0° 8		morning max el	8829 Jul 27 16:55	25° ∏ 47'45	46°30'37
	8827 Apr 18 01:14	$\Pi^{\circ}0$			8829 Jul 31 21:41	0ංම	
asc. node	8827 May 11 20:06	29° Ⅱ 14'36			8829 Aug 28 21:14	0 $^{\circ}$ Ω	
	8827 May 12 10:59	0 \circ			8829 Sep 24 04:44	0° m	
	8827 Jun 06 08:06	0 $^{\circ}$ Ω			8829 Oct 19 17:51	0∘ ত	
	8827 Jul 02 02:58	0° m y		asc. node	8829 Oct 26 17:04	8° ≏ 17'38	
	8827 Jul 29 22:46	0० ऌ			8829 Nov 13 19:05	0° M	
evening max el	8827 Aug 02 05:20	3° ₽ 15'49	46°07'19		8829 Dec 08 11:32	0° ∡ 7	
desc. node	8827 Aug 31 15:59	27° ♀ 40'19			8830 Jan 01 21:43	0°ප	
	8827 Sep 04 19:41	0°M		morning set	8830 Jan 22 14:48	25° る 36'54	
greatest brilliancy	8827 Sep 09 18:58	2°M12'56	-4.8m	•	8830 Jan 26 03:37	0° ≈	
retrograde	8827 Sep 20 16:21	4° ጤ 21'47		desc. node	8830 Feb 15 09:58	25°≈12'05	
Č	8827 Oct 05 15:33	30° ŖΩ			8830 Feb 19 06:19	0°) €	
evening set	8827 Oct 07 22:08	28° £ 41'48		max. Earth dist.	8830 Feb 27 14:33		1.71799 AU
min. Earth dist.	8827 Oct 11 17:06		0.29037 AU	mun. Burun dige.	0000100 27 11.55	10 /(2.00	1.71799110
inferior conj	8827 Oct 12 04:38	26° £ 03′28		superior conj	8830 Mar 02 20:48	14°) 29′25	-0°36'29
minimum elong	8827 Oct 11 21:12	26° ⊆ 15'09		minimum elong	8830 Mar 02 12:21	14°) (23'23	0°36'01
-		20 ≅ 13 09 23° £ 47'34	/ 34 31	minimum ciong		0° Υ	0 3001
morning rise	8827 Oct 15 20:29				8830 Mar 15 06:19	0°8	
direct	8827 Nov 02 17:01	17° £ 49'45	4.7		8830 Apr 08 04:21	_	
greatest brilliancy	8827 Nov 12 16:41	19° ≏ 38'33	-4.7m	evening rise	8830 Apr 11 20:51	4° 8 37'42	
	8827 Nov 30 21:47	0°M			8830 May 02 02:03	0° I I	
morning max el	8827 Dec 21 16:31	18° M ₊06'10	45°48'24		8830 May 26 01:48	0ಂ ತಾ	
asc. node	8827 Dec 22 15:14	19° M .01'27		asc. node	8830 Jun 08 07:44	16°528'21	
	8828 Jan 02 11:38	0° ∡ ¹			8830 Jun 19 06:12	$0^{\circ}\Omega$	
	8828 Jan 29 18:09	0° ರ			8830 Jul 13 18:05	O° My	
	8828 Feb 24 08:42	0° ≈			8830 Aug 07 17:44	0∘ ⊽	
	8828 Mar 20 04:20	0° ℋ			8830 Sep 02 13:44	0°M	
desc. node	8828 Apr 12 08:53	28°) 31′26		desc. node	8830 Sep 28 03:04	27°M55'08	
	8828 Apr 13 13:29	0 ° Υ			8830 Sep 30 03:14	0° ∡ ¹	
	8828 May 07 16:31	$_{0\circ}$ 8		evening max el	8830 Oct 11 23:56	11° √ 49'44	45°42'33
	8828 May 31 16:30	$\Pi^{\circ}0$			8830 Nov 02 03:29	o°ප	
morning set	8828 Jun 23 20:17	28° Ⅱ 58'05		greatest brilliancy	8830 Nov 20 05:08	10° ට 00'50	-4.7m
	8828 Jun 24 16:06	0ංම		retrograde	8830 Nov 29 17:53	11° る 40'15	
	8828 Jul 18 17:09	$0^{\circ}\Omega$		evening set	8830 Dec 16 12:26	6° る 20'34	
				inferior conj	8830 Dec 21 01:34	3°₹34'24	-6°22'17
superior conj	8828 Aug 01 19:40	17° Ω 32'35	-0°03'30	minimum elong	8830 Dec 21 11:40	3° る 18'37	
minimum elong	8828 Aug 01 20:31	17° Ω 35'15		min. Earth dist.	8830 Dec 21 21:04	3°₹03'55	0.28552 AU
behind sun begin	8828 Jul 31 20:51	16° Ω 21'44	0 0337	morning rise	8830 Dec 26 10:22	0°る18'32	0.20332 710
behind sun end	8828 Aug 02 20:11	18° Ω 48'45		morning risc	8830 Dec 26 23:27	30°R. ✓	
asc. node	8828 Aug 03 05:53	19° Ω 18'53		direct	8831 Jan 11 09:38	25° ₹ 20'11	
	8828 Aug 04 20:23	21°Ω18'26	1.72422 AU	asc. node		26° x 2011	
max. Earth dist.	8828 Aug 11 20:29	0° m)	1.72422 AU		8831 Jan 19 02:50 8831 Jan 22 14:22	20 x ·2/3/ 27° x 38'07	4.0
	8828 Sep 05 02:15	0∘ ⊽		greatest brilliancy	8831 Jan 27 17:10	27 メ ・3807	-4.8m
	*	0 로 4° 요 18'10					46920115
evening rise	8828 Sep 08 13:53			morning max el	8831 Mar 02 10:27	27° පි 24'01	46°30'15
	8828 Sep 29 10:47	0° M ₊			8831 Mar 05 00:19	0° ≈	
	8828 Oct 23 23:08	0° ∡ ¹			8831 Apr 01 15:28	0° ∀	
	8828 Nov 17 16:46	0° ਰ			8831 Apr 27 08:03	0° Υ	
desc. node	8828 Nov 22 23:51	6° පි 22'51		desc. node	8831 May 10 21:09	16° Ƴ 15'46	
	8828 Dec 12 17:02	0° ≈			8831 May 22 04:46	9° 8	
	8829 Jan 07 01:51	0° ℋ			8831 Jun 15 16:01	Π $\circ 0$	
	8829 Feb 02 01:01	$0^{\circ}\Upsilon$			8831 Jul 09 23:27	0 \circ \odot	
	8829 Mar 01 10:37	8°			8831 Aug 03 06:12	$0 {\circ} \Omega$	
evening max el	8829 Mar 07 23:05	6° 8 40'13	46°50'32		8831 Aug 27 13:25	0° m	
asc. node	8829 Mar 15 23:36	14° 8 29'04		asc. node	8831 Aug 31 18:12	5° Mp 10′55	
	8829 Apr 03 13:56	$\Pi^{\circ}0$		morning set	8831 Sep 04 05:31	9° m 27′57	
greatest brilliancy	8829 Apr 17 14:58	7° Ⅱ 36'56	-4.9m	-	8831 Sep 20 20:59	0∘ <u>⊽</u>	
retrograde	8829 Apr 27 08:17	9° Ⅱ 24'11					
evening set	8829 May 15 11:08	3° Ⅱ 09'29		superior conj	8831 Oct 11 10:35	25° ≏ 22'11	1°18'20
inferior conj	8829 May 18 00:46	1° ∏ 35'02	9°01'22	minimum elong	8831 Oct 11 03:23	25° ♀ 00'01	1°18'16
minimum elong	8829 May 18 05:19	1° Ⅱ 28'01	9°00'52	max. Earth dist.	8831 Oct 11 20:57	25° ⊆ 54'11	1.73257 AU
min. Earth dist.	8829 May 18 01:34	1° I I33'48	0.27146 AU	Darui dist.	8831 Oct 11 20:37	0°M	1.,525, 110
morning rise	8829 May 20 23:32	29° 8 46'55	5.2,170 AU		8831 Nov 08 12:50	0° ⊼ ¹	
	3027 111ay 20 23.32	27 0-10 33			30311101 00 12.30	~ ^	

arranina riaa	8831 Nov 16 22:01	10° √ 19'17			8834 Jun 27 19:22	0° I I	
evening rise						0°9	
	8831 Dec 02 22:07	0°る			8834 Jul 23 03:33		
desc. node	8831 Dec 21 11:38	22° ප් 47'10			8834 Aug 17 02:15	$\Omega^{\circ}\Omega$	
	8831 Dec 27 08:53	0° ≈			8834 Sep 10 20:28	0° т р	
	8832 Jan 20 20:59	0° ∀		asc. node	8834 Sep 28 06:36	21° Mp 12'23	
	8832 Feb 14 10:40	0° Υ			8834 Oct 05 11:29	0ಂ ರ	
	8832 Mar 10 04:15	9° 8			8834 Oct 29 23:20	0° M ₊	
	8832 Apr 04 08:09	Π °0		morning set	8834 Nov 12 01:28	16°M05'39	
asc. node	8832 Apr 12 10:36	9° Ⅱ 27'29			8834 Nov 23 08:23	0°⊀	
	8832 Apr 30 13:17	0°ಲ		max. Earth dist.	8834 Dec 17 04:10	29° ∡¹ 25'02	1.72975 AU
evening max el	8832 May 19 14:29	20°512'36	46°51'11		8834 Dec 17 15:29	0°ರ	
	8832 May 29 17:35	$0^{\circ}\Omega$					
greatest brilliancy	8832 Jun 28 06:34	20° Ω 44'13	-4.8m	superior conj	8834 Dec 18 17:35	1°る20'38	1°04'44
retrograde	8832 Jul 09 00:15	22° Ω 53'46		minimum elong	8834 Dec 19 03:15	1°る50'30	1°04'38
evening set	8832 Jul 23 21:42	18° Ω 31'12		_	8835 Jan 10 21:21	0° ≈	
min. Earth dist.	8832 Jul 29 16:18	15° Ω 06′10	0.27685 AU	desc. node	8835 Jan 17 23:45	8° ≈ 47'40	
inferior conj	8832 Jul 30 01:36	14° Ω 51'48	0°48'26	evening rise	8835 Jan 25 20:37	18° ≈ 32'58	
minimum elong	8832 Jul 30 03:27	14° Ω 48'57	0°47'41	Č	8835 Feb 04 02:05	0°) €	
desc. node	8832 Aug 02 06:33	12° £ 54'34			8835 Feb 28 05:34	0°Υ	
morning rise	8832 Aug 05 09:45	11° Ω 07'43			8835 Mar 24 08:30	0°8	
direct	8832 Aug 20 00:23	6° Ω 57'34			8835 Apr 17 13:07	0°II	
greatest brilliancy	8832 Aug 29 19:56	8° Ω 43'14	1 9m	asc. node	8835 May 10 22:04	28° ∏ 42'44	
greatest offinality	8832 Sep 30 08:55	0°M)	-4.0111	asc. Houc	8835 May 10 22:04 8835 May 11 23:26	0°9	
	=		45040120		•	0° U	
morning max el	8832 Oct 07 23:30	7° m 03'37	45*48*38		8835 Jun 05 21:33		
,	8832 Oct 30 10:50	0∘ ⊽			8835 Jul 01 18:30	0° Mp	
asc. node	8832 Nov 23 05:22	26° £ 20'15			8835 Jul 29 19:59	0∘ ⊽	4.000.014.5
	8832 Nov 26 10:19	0° M		evening max el	8835 Jul 30 20:31	1° ⊆ 00'44	46°08'45
	8832 Dec 22 02:35	0° ∡		desc. node	8835 Aug 30 17:55	26° ≙ 19'02	
	8833 Jan 16 01:26	0°ಕ			8835 Sep 07 08:45	0°M₊	
	8833 Feb 09 13:46	0° ≈		greatest brilliancy	8835 Sep 07 11:11	0°Mo2'18	-4.8m
	8833 Mar 05 19:22	0° ∀		retrograde	8835 Sep 18 08:10	2°M11'02	
desc. node	8833 Mar 14 22:21	11° ¥ 21'38			8835 Sep 28 19:52	30° ₹ Ω	
	8833 Mar 29 20:21	0 ° $\mathbf{\Upsilon}$		evening set	8835 Oct 05 11:11	26° ≏ 36′09	
morning set	8833 Apr 06 16:35	9° Ƴ 49'27		inferior conj	8835 Oct 09 20:47	23° ≏ 53'07	-7°47'37
	8833 Apr 22 18:18	$8^{\circ 0}$		minimum elong	8835 Oct 09 12:52	24° £ 05'35	7°46'31
	8833 May 16 15:00	$\Pi^{\circ}0$		min. Earth dist.	8835 Oct 09 08:36	24° ≏ 12'18	0.29006 AU
				morning rise	8835 Oct 13 14:45	21° ≙ 33'55	
superior conj	8833 May 17 08:57	0° Ⅱ 56'25	-1°26'06	direct	8835 Oct 31 08:46	15° ≏ 40'07	
minimum elong	8833 May 17 13:32	1° Ⅱ 10'47	1°26'15	greatest brilliancy	8835 Nov 10 07:44	17° £ 27'51	-4.7m
max. Earth dist.	8833 May 18 15:45	2° Ⅱ 33'11	1.71289 AU	,	8835 Dec 01 09:41	0° M .	
	8833 Jun 09 12:30	0°ಅ		morning max el	8835 Dec 19 06:26	15°M50'12	45°47'33
evening rise	8833 Jun 26 18:06	21°533'29		asc. node	8835 Dec 21 17:16	18°ML14'00	
	8833 Jul 03 12:36	0°N			8836 Jan 02 05:46	0° ∡ 7	
asc. node	8833 Jul 05 19:44	2° Ω 51'39			8836 Jan 29 08:27	0°ਰ	
use. Houe	8833 Jul 27 16:37	0° my			8836 Feb 23 21:29	0° ≈	
	8833 Aug 21 01:49	0∘ ʊ ი ო			8836 Mar 19 16:23	0° ∀	
	8833 Sep 14 18:14	0° m.		desc. node	8836 Apr 11 10:46	28° ₩ 01'13	
	8833 Oct 09 21:29	0° ⊼		desc. Hode	8836 Apr 13 01:07	26 γ 0113	
desc. node	8833 Oct 09 21:29 8833 Oct 25 14:18	18° ₹ 21'17			8836 May 07 03:52	0°8	
desc. node		18 メ・2117 0°る			•	0°II	
	8833 Nov 04 17:40	0° ≈		. ,	8836 May 31 03:38	0°П 26°П33'57	
	8833 Dec 01 19:19		46005150	morning set	8836 Jun 21 09:08		
evening max el	8833 Dec 22 20:04	21°≈32'46	46°05'59		8836 Jun 24 03:04	0°9	
	8833 Dec 31 21:28	0° ∀			8836 Jul 18 04:00	0 ° Ω	
greatest brilliancy	8834 Jan 31 07:49	20°) 34′27	-4.8m				
retrograde	8834 Feb 10 04:48	22° H 22'22		superior conj	8836 Jul 30 10:03	15° Ω 14'39	
asc. node	8834 Feb 15 14:20	21°) 47'00		minimum elong	8836 Jul 30 11:45	15° Ω 19'58	0°07'10
evening set	8834 Feb 24 18:49	18° ∺ 11'00		behind sun begin	8836 Jul 29 13:51	14° Ω 11'53	
inferior conj	8834 Mar 02 21:57	14°) 34′00	3°49'14	behind sun end	8836 Jul 31 09:40	16° Ω 28'02	
minimum elong	8834 Mar 02 13:47	14°) (46′33	3°46'54	asc. node	8836 Aug 02 07:46	18° Ω 51'14	
min. Earth dist.	8834 Mar 02 23:14	14°) 32′01	0.27203 AU	max. Earth dist.	8836 Aug 02 12:15	19° Ω 05′08	1.72376 AU
morning rise	8834 Mar 08 08:33	11° ∺ 19′28			8836 Aug 11 07:16	0° m	
direct	8834 Mar 23 18:01	6°) 40′50			8836 Sep 04 13:02	0∘ ⊽	
greatest brilliancy	8834 Apr 02 21:36	8°) 38′02	-4.9m	evening rise	8836 Sep 06 06:31	2° ≏ 08'04	
,	8834 May 03 08:47	$0^{\circ}\Upsilon$			8836 Sep 28 21:40	0°M₊	
morning max el	8834 May 13 06:57	9° Y 37'40	46°59'17		8836 Oct 23 10:15	0° ∡ ¹	
-	8834 Jun 01 11:57	0°8			8836 Nov 17 04:18	0°ರ	
desc. node	8834 Jun 07 09:25	6° 8 33'59		desc. node	8836 Nov 22 01:55	5°る54'00	

	8836 Dec 12 05:17	0° ≈			8839 May 21 16:58	0°B	
	8837 Jan 06 15:17	0 ≈ 0° ∀			8839 Jun 15 03:37	0°U	
	8837 Feb 01 16:39	0° Υ			8839 Jul 09 10:40	0°€	
	8837 Mar 01 07:35	0°8			8839 Aug 02 17:07	0°Ω	
evening max el	8837 Mar 05 11:01	4° 8 12'25	46°49'18		8839 Aug 27 00:05	0° m)	
asc. node	8837 Mar 15 01:26	13° 8 29'40	40 47 10	asc. node	8839 Aug 30 20:04	بران و 4° m 43'49	
use. Houe	8837 Apr 04 18:57	0°Ⅱ		morning set	8839 Sep 01 21:34	7° Mp 16'32	
greatest brilliancy	8837 Apr 15 04:28	5° Ⅱ 11'20	-4.9m	morning set	8839 Sep 20 07:30	0° <u>م</u>	
retrograde	8837 Apr 24 20:45	6° П 58'08	1.7111		0037 Sep 20 07.50	~ —	
evening set	8837 May 13 01:25	0° П 41'17		superior conj	8839 Oct 09 03:54	23° ≙ 15'17	1°16'55
evening see	8837 May 14 04:35	30°R ∀		minimum elong	8839 Oct 08 20:15	22° £ 51'41	1°16'50
inferior conj	8837 May 15 13:35	29° 8 09'14	9°05'47	max. Earth dist.	8839 Oct 09 17:56	23° £ 58'32	1.73246 AU
minimum elong	8837 May 15 17:12	29° 8 03'39	9°05'24	man. Bartii dige.	8839 Oct 14 15:08	0°M	1.732.0110
min. Earth dist.	8837 May 15 14:24	29° 8 07'58	0.27142 AU		8839 Nov 07 23:20	0° ⊼ ¹	
morning rise	8837 May 18 08:59	27° 8 26'11	0.271.2110	evening rise	8839 Nov 14 15:08	8° √ 11'52	
direct	8837 Jun 05 04:45	21° 8 21'32			8839 Dec 02 08:47	0°る	
greatest brilliancy	8837 Jun 14 21:27	23° 8 07'10	-4.9m	desc. node	8839 Dec 20 13:39	22° る 20'07	
8	8837 Jun 27 23:55	0°II	11,5 222		8839 Dec 26 19:49	0° ≈	
desc. node	8837 Jul 04 21:02	5° Ⅱ 02'57			8840 Jan 20 08:18	0°) €	
morning max el	8837 Jul 25 05:52	23° I I23'57	46°32'22		8840 Feb 13 22:32	0°Υ	
morning man vi	8837 Jul 31 18:50	0°9	.0 32 22		8840 Mar 09 16:56	0°8	
	8837 Aug 28 12:50	$0^{\circ}\Omega$			8840 Apr 03 22:16	0°II	
	8837 Sep 23 18:01	0° m)		asc. node	8840 Apr 11 12:41	8°∏50'46	
	8837 Oct 19 05:55	0∘ ⊽		use. Houe	8840 Apr 30 06:29	0°95	
asc. node	8837 Oct 25 19:02	ი — 7° ჲ 48'05		evening max el	8840 May 17 05:51	17° © 55'36	46°52'08
use. Houe	8837 Nov 13 06:28	0°M		ovening man or	8840 May 29 21:16	0° Ω	.0 02 00
	8837 Dec 07 22:32	0° ⊼ 7		greatest brilliancy	8840 Jun 25 21:39	18° Ω 26'26	-4.9m
	8838 Jan 01 08:31	ਰ ਹ°ਰ		retrograde	8840 Jul 06 15:34	20° Ω 35'48	,
morning set	8838 Jan 20 06:04	23° る 22'09		evening set	8840 Jul 21 13:29	16° Ω 11'51	
	8838 Jan 25 14:21	0°≈		inferior conj	8840 Jul 27 15:54	12° Ω 34'18	1°10'55
desc. node	8838 Feb 14 11:52	24° ≈ 44'41		minimum elong	8840 Jul 27 18:36	12°Ω30'08	1°09'53
dese. node	8838 Feb 18 17:02	0° ∀		min. Earth dist.	8840 Jul 27 06:58	12°Ω48'04	0.27647 AU
max. Earth dist.	8838 Feb 25 05:42		1.71841 AU	desc. node	8840 Aug 01 08:29	9° Ω 45'18	0.27017110
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		morning rise	8840 Aug 03 00:22	8° Ω 50'11	
superior conj	8838 Feb 28 09:34	12°) €05'49	-0°33'01	direct	8840 Aug 17 14:57	4°Ω40'44	
minimum elong	8838 Feb 28 01:49	11°) €41'35		greatest brilliancy	8840 Aug 27 09:28	6° Ω 26'02	-4.8m
	8838 Mar 14 17:04	0° Υ		8	8840 Sep 30 10:40	0° m)	
	8838 Apr 07 15:11	0°8		morning max el	8840 Oct 05 14:57	4° m 51'43	45°49'29
evening rise	00001-p- 0, 1011-	. •					
	8838 Apr 09 08:30	2° 8 09'39			8840 Oct 30 03:10	0∘ ত	
Č	8838 Apr 09 08:30 8838 May 01 13:01	2° ႘ 09'39 0° Ⅱ		asc. node			
Ü	8838 May 01 13:01	0° II		asc. node	8840 Nov 22 07:25	25° ≏ 47'12	
ū	8838 May 01 13:01 8838 May 25 12:57	0°© 10°0 10°0		asc. node	8840 Nov 22 07:25 8840 Nov 25 23:41	25° £ 47'12 0° ™	
asc. node	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47	0°Ⅱ 0°໑ 15°໑59'48		asc. node	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37	25° Ω 47'12 0° M 0° ⊀	
ū	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36	0°Ⅱ 0°ᢒ 15°ᢒ59'48 0°Ω		asc. node	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48	25° £ 47'12 0° ™	
ū	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55	0°Ⅱ 0°໑ 15°໑59'48		asc. node	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47	25° ♀ 47'12 0°ጤ 0°♂ 0°♂ 0°♂	
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asc. node	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22	0°II 0°© 15°©59'48 0°I 0°I 0°I 0°I			8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14	25° 亞 47'12 0° 爪 0° ズ 0° ठ 0°≈ 0°¥ 10° 米 53'51	
asc. node	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01	0° II 0° © 15° © 59'48 0° Ω 0° ID 0° ID 27° IL 13'05	45°42'44	desc. node	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05	25° ♀ 47'12 0°M 0°♂ 0°♂ 0°अ 0°₩ 10°¥53'51 0° Υ	
asc. node	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01 8838 Sep 29 21:55	0° ∏ 0° © 15° © 59'48 0° Ω 0° ™ 0° Ω 27° ™ 13'05 0° ~	45°42'44	desc. node	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05 8841 Apr 04 03:30	25°至47'12 0°肌 0°♂ 0°♂ 0°≈ 0°¥ 10°¥53'51 0°Υ 7°Υ19'42	
asc. node	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01 8838 Sep 29 21:55 8838 Oct 09 14:46	0° II 0° S 15° S 59'48 0° A 0° M 0° A 0° M 27° M 13'05 0° ₹' 9° ₹'37'08	45°42'44 -4.7m	desc. node	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05 8841 Apr 04 03:30	25°至47'12 0°肌 0°♂ 0°♂ 0°≈ 0°¥ 10°¥53'51 0°Υ 7°Υ19'42	-1°26'46
asc. node desc. node evening max el	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01 8838 Sep 29 21:55 8838 Oct 09 14:46 8838 Nov 02 21:02	0° II 0°의 15°의59'48 0° IQ 0° ID 0° ID 0° ID 27° ID 13'05 0° IZ 9° IZ 13'108 0° IZ 9° IZ 13'108		desc. node morning set	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05 8841 Apr 04 03:30 8841 Apr 22 04:58	25° 2 47'12 0° M 0° x ' 0° 3 0° 8 0° 9 10° 9 53'51 0° 9 7° 9 19'42 0° 8	
asc. node desc. node evening max el greatest brilliancy	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01 8838 Sep 29 21:55 8838 Oct 09 14:46 8838 Nov 02 21:02 8838 Nov 17 19:06	0° II 0° 약 15° 약59'48 0° A 0° ID 0° ID 0° IL 27° IL 13'05 0° * 7' 37'08 0° 당 7° 당 48'13		desc. node morning set superior conj	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05 8841 Apr 04 03:30 8841 Apr 22 04:58	25°至47'12 0°M 0°ズ 0°る 0°る 0°米 10°升53'51 0°Y 7°Y19'42 0°8 28°828'13 28°839'25	
asc. node desc. node evening max el greatest brilliancy retrograde evening set	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01 8838 Sep 29 21:55 8838 Oct 09 14:46 8838 Nov 02 21:02 8838 Nov 17 19:06 8838 Nov 27 09:36	0°用 0°9 15°959'48 0°れ 0°m 0°血 0°m 27°m13'05 0°メ 9°メ37'08 0°式 7°式48'13 9°式28'56	-4.7m	desc. node morning set superior conj minimum elong	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05 8841 Apr 04 03:30 8841 Apr 22 04:58 8841 May 14 20:25 8841 May 14 23:59 8841 May 16 01:14	25°至47'12 0°M 0°ズ 0°る 0°る 0°米 10°升53'51 0°Y 7°Y19'42 0°8 28°828'13 28°839'25	1°26'57
asc. node desc. node evening max el greatest brilliancy retrograde	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01 8838 Sep 29 21:55 8838 Oct 09 14:46 8838 Nov 02 21:02 8838 Nov 17 19:06 8838 Nov 27 09:36 8838 Dec 14 06:44	0°用 0°多 15°多59'48 0°の 0°m 0°m 0°m 27°m13'05 0°水 9°水37'08 0°उ 7°उ48'13 9°उ28'56 4°उ04'16 1°उ22'02	-4.7m	desc. node morning set superior conj minimum elong	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05 8841 Apr 04 03:30 8841 Apr 22 04:58 8841 May 14 20:25 8841 May 14 23:59	25°至47'12 0°M 0°メ 0°る 0°る 0°% 0°分 10°升53'51 0°Y 7°Y19'42 0°8 28°828'13 28°839'25 29°858'47	1°26'57
asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01 8838 Sep 29 21:55 8838 Oct 09 14:46 8838 Nov 02 21:02 8838 Nov 17 19:06 8838 Nov 27 09:36 8838 Dec 14 06:44 8838 Dec 18 17:07	0°用 0°多 15°多59'48 0°れ 0°順 0°順 27°肌13'05 0°ダ 9°ダ37'08 0°℧ 7°♂48'13 9°♂28'56 4°♂04'16 1°♂22'02	-4.7m -6°35'55	desc. node morning set superior conj minimum elong	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05 8841 Apr 04 03:30 8841 Apr 22 04:58 8841 May 14 20:25 8841 May 14 23:59 8841 May 16 01:14 8841 May 16 01:37	25°至47'12 0°M 0°ズ 0°る 0°る 0°米 10°米53'51 0°Y 7°Y19'42 0°8 28°828'13 28°839'25 29°858'47 0°用	1°26'57
asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01 8838 Sep 29 21:55 8838 Oct 09 14:46 8838 Nov 02 21:02 8838 Nov 17 19:06 8838 Nov 27 09:36 8838 Dec 14 06:44 8838 Dec 18 17:07 8838 Dec 19 03:10	0°用 0°9 15°959'48 0°Ω 0°m 0°m 0°m 27°m13'05 0°% 9°¾37'08 0°♂ 7°♂48'13 9°♂28'56 4°♂04'16 1°♂22'02 1°♂06'21	-4.7m -6°35'55 6°33'42	desc. node morning set superior conj minimum elong max. Earth dist.	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05 8841 Apr 04 03:30 8841 Apr 22 04:58 8841 May 14 20:25 8841 May 14 23:59 8841 May 16 01:14 8841 May 16 01:37 8841 Jun 08 23:05	25°至47'12 0°M 0°ズ 0°芯 0°芯 0°※ 0°光 10°光53'51 0°Ƴ 7°Ƴ19'42 0°엉 28°♂28'13 28°♂39'25 29°♂58'47 0°Ⅲ 0°延	1°26'57
asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01 8838 Sep 29 21:55 8838 Oct 09 14:46 8838 Nov 02 21:02 8838 Nov 17 19:06 8838 Dec 14 06:44 8838 Dec 18 17:07 8838 Dec 19 03:10 8838 Dec 19 12:03	0°用 0°多 15°至59'48 0°れ 0°m 0°m 27°m13'05 0°メ 9°メ37'08 0°उ 7°उ48'13 9°उ28'56 4°उ04'16 1°उ22'02 1°उ06'21 0°उ52'29	-4.7m -6°35'55 6°33'42	desc. node morning set superior conj minimum elong max. Earth dist.	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05 8841 Apr 04 03:30 8841 Apr 22 04:58 8841 May 14 20:25 8841 May 14 20:25 8841 May 16 01:14 8841 May 16 01:37 8841 Jun 08 23:05 8841 Jun 24 06:36	25° \$\alpha 47'12 0° \mathbb{\text{\text{\$\pi}\$}} 0° \neq \text{\text{\$\pi\$}} 0° \neq \text{\$\pi\$} 0° \neq \text{\$\pi\$} 0° \neq \text{\$\pi\$} 10° \neq \text{\$\pi\$}53'51 0° \neq \text{\$\pi\$} 7° \neq \text{\$\pi\$}19'42 0° \neq \text{\$\pi\$} 28° \neq 28'13 28° \neq 38'25 29° \neq 58'47 0° \mathbb{\text{\$\pi\$}} 0° \neq \text{\$\pi\$} 19° \neq 09'35	1°26'57
asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01 8838 Sep 29 21:55 8838 Oct 09 14:46 8838 Nov 02 21:02 8838 Nov 17 19:06 8838 Nov 27 09:36 8838 Dec 14 06:44 8838 Dec 18 17:07 8838 Dec 19 03:10 8838 Dec 19 12:03 8838 Dec 20 21:52	0°用 0°9 15°959'48 0°0 0°m 0°m 0°m 27°m13'05 0°メ 9°メ37'08 0°3 7°348'13 9°328'56 4°304'16 1°322'02 1°306'21 0°352'29 30°8メ	-4.7m -6°35'55 6°33'42	desc. node morning set superior conj minimum elong max. Earth dist.	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05 8841 Apr 04 03:30 8841 Apr 22 04:58 8841 May 14 20:25 8841 May 14 20:25 8841 May 16 01:14 8841 May 16 01:37 8841 Jun 08 23:05 8841 Jun 02 23:12	25° \$\alpha 47'12 0° M. 0° \$\tilde{\pi}\$ 0° \$\tilde{\pi}\$ 0° \$\tilde{\pi}\$ 0° \$\tilde{\pi}\$ 10° \$\tilde{\pi}\$53'51 0° \$\tilde{\pi}\$ 7° \$\tilde{\pi}\$19'42 0° \$\tilde{\pi}\$ 28° \$\tilde{\pi}\$39'25 29° \$\tilde{\pi}\$58'47 0° \$\tilde{\pi}\$ 19° \$\tilde{\pi}\$09'35 0° \$\tilde{\Omega}\$	1°26'57
asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01 8838 Sep 29 21:55 8838 Oct 09 14:46 8838 Nov 02 21:02 8838 Nov 17 19:06 8838 Nov 27 09:36 8838 Dec 14 06:44 8838 Dec 18 17:07 8838 Dec 19 03:10 8838 Dec 19 03:10 8838 Dec 20 21:52 8838 Dec 23 23:09	0°用 0°多 15°多59'48 0°和 0°聊 0°配 27°№13'05 0°¾ 9°¾37'08 0°♂ 7°♂48'13 9°♂28'56 4°♂04'16 1°♂22'02 1°♂06'21 0°♂552'29 30°₹¾ 28°¾10'24	-4.7m -6°35'55 6°33'42	desc. node morning set superior conj minimum elong max. Earth dist.	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05 8841 Apr 04 03:30 8841 Apr 22 04:58 8841 May 14 20:25 8841 May 14 23:59 8841 May 16 01:14 8841 May 16 01:14 8841 Jun 08 23:05 8841 Jun 02 23:12 8841 Jul 04 21:38	25° \$\alpha 47'12 0° \$\mathbb{\text{\text{\$\pi}\$}}\$ 0° \$\mathbb{\text{\$\pi\$}}\$ 0° \$\mathbb{\text{\$\pi\$}}\$ 0° \$\mathbb{\text{\$\pi\$}}\$ 0° \$\mathbb{\text{\$\pi\$}}\$ 10° \$\mathbb{\text{\$\pi\$}}\$53'51 0° \$\mathbb{\text{\$\pi\$}}\$ 7° \$\mathbb{\text{\$\pi\$}}\$19'42 0° \$\mathbb{\text{\$\pi\$}}\$ 28° \$\mathbb{\text{\$\pi\$}}\$28'13 28° \$\mathbb{\text{\$\pi\$}}\$39'25 29° \$\mathbb{\text{\$\pi\$}}\$58'47 0° \$\mathbb{\text{\$\pi\$}}\$ 19° \$\mathbb{\text{\$\pi\$}}\$09'35 0° \$\mathbb{\text{\$\pi\$}}\$ 2° \$\mathbb{\text{\$\pi\$}}\$24'33	1°26'57
asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01 8838 Sep 29 21:55 8838 Oct 09 14:46 8838 Nov 02 21:02 8838 Nov 17 19:06 8838 Nov 27 09:36 8838 Dec 14 06:44 8838 Dec 14 06:44 8838 Dec 18 17:07 8838 Dec 19 03:10 8838 Dec 19 12:03 8838 Dec 20 21:52 8838 Dec 23 23:09 8839 Jan 09 01:50	0°用 0°多 15°多59'48 0°和 0°m 0°m 27°m13'05 0°ぶ 9°ぶ37'08 0°उ 7°उ48'13 9°उ28'56 4°उ04'16 1°उ22'02 1°उ6'21 0°उ52'29 30°8ぶ 28°ぷ10'24 23°ぷ07'11	-4.7m -6°35'55 6°33'42	desc. node morning set superior conj minimum elong max. Earth dist.	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05 8841 Apr 04 03:30 8841 Apr 22 04:58 8841 May 14 20:25 8841 May 14 23:59 8841 May 16 01:14 8841 May 16 01:14 8841 Jun 08 23:05 8841 Jun 24 06:36 8841 Jul 02 23:12 8841 Jul 04 21:38 8841 Jul 07 03:20	25°至47'12 0°M 0°ズ 0°T 0°T 0°N 10°X53'51 0°Y 7°Y19'42 0°Y 28°Y28'13 28°Y39'25 29°Y58'47 0°II 0°5 19°509'35 0°A 2°A24'33 0°M	1°26'57
asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node	8838 May 01 13:01 8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01 8838 Sep 29 21:55 8838 Oct 09 14:46 8838 Nov 02 21:02 8838 Nov 17 19:06 8838 Nov 27 09:36 8838 Dec 14 06:44 8838 Dec 14 06:44 8838 Dec 18 17:07 8838 Dec 19 03:10 8838 Dec 19 03:10 8838 Dec 20 21:52 8838 Dec 23 23:09 8839 Jan 09 01:50 8839 Jan 18 04:48	0°川 0°9 15°959'48 0°れ 0°か 0°か 0°か 27°加13'05 0°ポ 9°ポ37'08 0°℧ 7°℧48'13 9°℧28'56 4°℧04'16 1°℧22'02 1°℧06'21 0°℧52'29 30°ペポ 28°ポ10'24 23°ポ07'11 24°ポ40'43	-4.7m -6°35'55 6°33'42 0.28605 AU	desc. node morning set superior conj minimum elong max. Earth dist.	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05 8841 Apr 04 03:30 8841 Apr 04 03:30 8841 Apr 22 04:58 8841 May 14 20:25 8841 May 14 23:59 8841 May 16 01:14 8841 May 16 01:14 8841 Jun 08 23:05 8841 Jun 24 06:36 8841 Jul 02 23:12 8841 Jul 04 21:38 8841 Jul 27 03:20 8841 Aug 20 12:47	25°至47'12 0°肌 0°水 0°る 0°% 0°% 0°% 10°升53'51 0°Y 7°Y19'42 0°8 28°828'13 28°839'25 29°858'47 0°Ⅱ 0°% 19°©09'35 0°ん 2°ん24'33 0°順 0°요	1°26'57
asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node	8838 May 01 13:01 8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01 8838 Sep 29 21:55 8838 Oct 09 14:46 8838 Nov 02 21:02 8838 Nov 17 19:06 8838 Nov 27 09:36 8838 Dec 14 06:44 8838 Dec 18 17:07 8838 Dec 19 03:10 8838 Dec 19 12:03 8838 Dec 20 21:52 8838 Dec 23 23:09 8839 Jan 09 01:50 8839 Jan 18 04:48 8839 Jan 20 06:06	0°川 0°9 15°959'48 0°れ 0°順 0°9 0°៣ 27°៣13'05 0°ポ 9°ポ37'08 0°उ 7°उ48'13 9°उ28'56 4°उ04'16 1°उ22'02 1°उ06'21 0°उ52'29 30°ペポ 28°ポ10'24 23°ポ07'11 24°ポ40'43 25°ポ25'05	-4.7m -6°35'55 6°33'42 0.28605 AU	desc. node morning set superior conj minimum elong max. Earth dist.	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05 8841 Apr 04 03:30 8841 Apr 22 04:58 8841 May 14 20:25 8841 May 14 23:59 8841 May 16 01:14 8841 May 16 01:14 8841 May 16 01:37 8841 Jun 08 23:05 8841 Jun 24 06:36 8841 Jul 02 23:12 8841 Jul 04 21:38 8841 Jul 27 03:20 8841 Aug 20 12:47 8841 Sep 14 05:38	25° 年47'12 0° M. 0° ズ 0° で 0° で 0° で 0° が 10° 升53'51 0° か 7° か19'42 0° と 28° と28'13 28° と39'25 29° と58'47 0° II 0° で 19° で09'35 0° ん 2° ん24'33 0° M 0° 丘 0° M.	1°26'57
asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01 8838 Sep 29 21:55 8838 Oct 09 14:46 8838 Nov 02 21:02 8838 Nov 17 19:06 8838 Nov 27 09:36 8838 Dec 14 06:44 8838 Dec 18 17:07 8838 Dec 19 03:10 8838 Dec 19 12:03 8838 Dec 20 21:52 8838 Dec 20 21:52 8838 Dec 23 23:09 8839 Jan 09 01:50 8839 Jan 18 04:48 8839 Jan 20 06:06 8839 Jan 29 05:42	0°用 0°多 15°多59'48 0°れ 0°m 0°m 27°m13'05 0°ボ 9°ボ37'08 0°℧ 7°℧48'13 9°℧28'56 4°℧04'16 1°℧22'02 1°℧06'21 0°℧52'29 30°кボ 28°ボ10'24 23°ボ07'11 24°ボ40'43 25°ボ25'05 0°℧	-4.7m -6°35'55 6°33'42 0.28605 AU	desc. node morning set superior conj minimum elong max. Earth dist. evening rise asc. node	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05 8841 Apr 04 03:30 8841 Apr 22 04:58 8841 May 14 20:25 8841 May 14 23:59 8841 May 16 01:14 8841 May 16 01:14 8841 May 16 01:37 8841 Jun 08 23:05 8841 Jun 24 06:36 8841 Jul 02 23:12 8841 Jul 04 21:38 8841 Jul 27 03:20 8841 Aug 20 12:47 8841 Sep 14 05:38 8841 Oct 09 09:40	25° \$\alpha 47'12 0° \$\mathbb{\text{\text{\$\pi}\$}}\$ 0° \$\mathbb{\text{\$\pi\$}}\$ 0° \$\mathbb{\text{\$\pi\$}}\$ 0° \$\mathbb{\text{\$\pi\$}}\$ 0° \$\mathbb{\text{\$\pi\$}}\$ 10° \$\mathbb{\text{\$\pi\$}}\$53'51 0° \$\mathbb{\text{\$\pi\$}}\$ 28° \$\mathbb{\text{\$\pi\$}}\$28'13 28° \$\mathbb{\text{\$\pi\$}}\$28'47 0° \$\mathbb{\text{\$\pi\$}}\$ 19° \$\mathbb{\text{\$\pi\$}}\$09'35 0° \$\mathbb{\text{\$\pi\$}}\$ 2° \$\mathbb{\text{\$\pi\$}}\$24'33 0° \$\mathbb{\text{\$\pi\$}}\$	1°26'57
asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01 8838 Sep 29 21:55 8838 Oct 09 14:46 8838 Nov 02 21:02 8838 Nov 17 19:06 8838 Nov 27 09:36 8838 Dec 14 06:44 8838 Dec 18 17:07 8838 Dec 19 03:10 8838 Dec 19 03:10 8838 Dec 20 21:52 8838 Dec 20 21:52 8838 Dec 23 23:09 8839 Jan 09 01:50 8839 Jan 18 04:48 8839 Jan 20 06:06 8839 Jan 29 05:42 8839 Feb 28 02:43	0°用 0°9 15°959'48 0°0 0°m 0°m 0°m 27°m13'05 0°が 9°が37'08 0°び 7°び48'13 9°び28'56 4°び04'16 1°び22'02 1°び06'21 0°び52'29 30°Rボ 28°ボ10'24 23°ボ07'11 24°ボ40'43 25°ボ25'05 0°び 25°び10'47	-4.7m -6°35'55 6°33'42 0.28605 AU	desc. node morning set superior conj minimum elong max. Earth dist. evening rise asc. node	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05 8841 Apr 04 03:30 8841 Apr 22 04:58 8841 May 14 20:25 8841 May 14 23:59 8841 May 16 01:14 8841 May 16 01:14 8841 May 16 01:37 8841 Jun 08 23:05 8841 Jun 02 23:12 8841 Jul 04 21:38 8841 Jul 04 21:38 8841 Jul 27 03:20 8841 Aug 20 12:47 8841 Sep 14 05:38 8841 Oct 09 09:40 8841 Oct 24 16:22	25° \$\alpha 47'12 0° \$\mathbb{\pi}\$ 0° \$\mathbb{\pi}\$ 0° \$\mathbb{\pi}\$ 0° \$\mathbb{\pi}\$ 10° \$\mathbb{\pi}\$53'51 0° \$\mathbb{\pi}\$ 7° \$\mathbb{\pi}\$19'42 0° \$\mathbb{\pi}\$ 28° \$\mathbb{\pi}\$28'13 28° \$\mathbb{\pi}\$28'47 0° \$\mathbb{\pi}\$ 19° \$\mathbb{\pi}\$09'35 0° \$\mathbb{\pi}\$ 2° \$\mathbb{\pi}\$24'33 0° \$\mathbb{\pi}\$ 0° \$\mathbb{\pi}\$ 0° \$\mathbb{\pi}\$ 17° \$\mathbb{\pi}\$49'44	1°26'57
asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01 8838 Sep 29 21:55 8838 Oct 09 14:46 8838 Nov 02 21:02 8838 Nov 17 19:06 8838 Nov 27 09:36 8838 Dec 14 06:44 8838 Dec 18 17:07 8838 Dec 19 03:10 8838 Dec 19 03:10 8838 Dec 20 21:52 8838 Dec 20 21:52 8838 Dec 23 23:09 8839 Jan 09 01:50 8839 Jan 18 04:48 8839 Jan 20 06:06 8839 Jan 29 05:42 8839 Feb 28 02:43 8839 Mar 04 20:43	0°用 0°9 15°959'48 0°0 0°m 0°m 0°m 27°m13'05 0°% 9°%3'37'08 0°% 7°♂48'13 9°♂28'56 4°♂04'16 1°♂22'02 1°♂06'21 0°♂52'29 30°8% 28°% 10'24 23°% 07'11 24°% 40'43 25°% 25'05 0°%	-4.7m -6°35'55 6°33'42 0.28605 AU	desc. node morning set superior conj minimum elong max. Earth dist. evening rise asc. node	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05 8841 Apr 04 03:30 8841 Apr 22 04:58 8841 May 14 20:25 8841 May 14 23:59 8841 May 16 01:14 8841 May 16 01:14 8841 May 16 01:37 8841 Jun 08 23:05 8841 Jun 24 06:36 8841 Jul 02 23:12 8841 Jul 04 21:38 8841 Jul 04 21:38 8841 Jul 27 03:20 8841 Aug 20 12:47 8841 Sep 14 05:38 8841 Oct 09 09:40 8841 Oct 24 16:22 8841 Nov 04 07:23	25° 年47'12 0° M. 0° ズ 0° で 0° ズ 0° で 0° ※ 0° 米 10° 米53'51 0° Y 7° Y19'42 0° と 28° と28'13 28° と39'25 29° と58'47 0° 川 0° で 19° © 09'35 0° の 2° の24'33 0° M 0° エ 0° M 0° ズ 17° ズ 49'44 0° こ	1°26'57
asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy	8838 May 01 13:01 8838 May 25 12:57 8838 Jun 07 09:47 8838 Jun 18 17:36 8838 Jul 13 05:55 8838 Aug 07 06:22 8838 Sep 02 04:05 8838 Sep 27 05:01 8838 Sep 29 21:55 8838 Oct 09 14:46 8838 Nov 02 21:02 8838 Nov 17 19:06 8838 Nov 27 09:36 8838 Dec 14 06:44 8838 Dec 18 17:07 8838 Dec 19 03:10 8838 Dec 19 12:03 8838 Dec 20 21:52 8838 Dec 20 21:52 8838 Dec 23 23:09 8839 Jan 09 01:50 8839 Jan 18 04:48 8839 Jan 20 06:06 8839 Jan 29 05:42 8839 Feb 28 02:43 8839 Mar 04 20:43 8839 Apr 01 06:39	0°用 0°野 15°野59'48 0°Ω 0°™ 0°™ 0°™ 27°™13'05 0°¾ 9°¾37'08 0°♂ 7°♂48'13 9°♂28'56 4°♂04'16 1°♂22'02 1°♂06'21 0°♂52'29 30°₹¾ 28°¾10'24 23°¾07'11 24°¾40'43 25°¾25'05 0°♂ 25°♂10'47 0°≈ 0°∺	-4.7m -6°35'55 6°33'42 0.28605 AU	desc. node morning set superior conj minimum elong max. Earth dist. evening rise asc. node desc. node	8840 Nov 22 07:25 8840 Nov 25 23:41 8840 Dec 21 14:37 8841 Jan 15 12:48 8841 Feb 09 00:47 8841 Mar 05 06:11 8841 Mar 14 00:14 8841 Mar 29 07:05 8841 Apr 04 03:30 8841 Apr 22 04:58 8841 May 14 20:25 8841 May 14 23:59 8841 May 16 01:14 8841 May 16 01:37 8841 Jun 08 23:05 8841 Jun 24 06:36 8841 Jul 02 23:12 8841 Jul 04 21:38 8841 Jul 04 21:38 8841 Jul 27 03:20 8841 Aug 20 12:47 8841 Sep 14 05:38 8841 Oct 09 09:40 8841 Oct 24 16:22 8841 Nov 04 07:23 8841 Dec 01 12:25	25° 年47'12 0° M. 0° ズ 0° T 10° H53'51 0° Y 7° Y19'42 0° B 28° B28'13 28° B39'25 29° B58'47 0° H 0° T 0° T 0° T 0° T 0° T 10°	1°26'57 1.71270 AU

greatest brilliancy retrograde asc. node	8842 Jan 28 21:46 8842 Feb 07 17:34 8842 Feb 14 16:14	18°¥14'10 20°¥00'47 19°¥02'30	-4.8m	superior conj minimum elong behind sun begin	8844 Jul 28 00:31 8844 Jul 28 03:04 8844 Jul 27 08:43	12° Ω 57'30 13° Ω 05'27 12° Ω 08'26	
evening set inferior conj minimum elong	8842 Feb 22 06:56 8842 Feb 28 11:24 8842 Feb 28 03:55		3°25'18	behind sun end max. Earth dist. asc. node	8844 Jul 28 21:25 8844 Jul 31 01:44 8844 Aug 01 09:42	14° Ω 02'29 16° Ω 45'04 18° Ω 24'20	1.72327 AU
min. Earth dist. morning rise direct	8842 Feb 28 13:44 8842 Mar 06 00:36 8842 Mar 21 07:38	12° 光 08'51 8° 光 53'51 4° 光 18'50	0.27225 AU	evening rise	8844 Aug 10 17:50 8844 Sep 03 23:20 8844 Sep 03 23:35	0° m/ 29° m/59'13 0° <u>Ω</u>	
greatest brilliancy morning max el	8842 Mar 31 12:39 8842 May 03 11:13 8842 May 10 19:47	6°¥16'46 0° Υ 7° Υ 12'59			8844 Sep 28 08:19 8844 Oct 22 21:10 8844 Nov 16 15:42	∭°0 マ°0 でる	
desc. node	8842 Jun 01 05:01 8842 Jun 06 11:21	0°8 5°853'50	40 39 13	desc. node	8844 Nov 21 03:54 8844 Dec 11 17:27	5°る25'24 0°≈	
	8842 Jun 27 09:24 8842 Jul 22 16:05 8842 Aug 16 13:53	0°Ω 0°© 0°∏			8845 Jan 06 04:42 8845 Feb 01 08:24 8845 Mar 01 05:08	0° ႘ 0° Ƴ 0°₩	
asc. node	8842 Sep 10 07:34 8842 Sep 27 08:34	0° m/ 20° m/45'21		evening max el asc. node	8845 Mar 02 23:35 8845 Mar 14 03:32	1° 8 46'53 12° 8 29'59	46°48'16
morning set	8842 Oct 04 22:13 8842 Oct 29 09:52 8842 Nov 09 18:51	0° 丘 0° ጤ 13° ጤ 59'17		greatest brilliancy retrograde	8845 Apr 06 12:25 8845 Apr 12 17:26 8845 Apr 22 09:47	0°П 2°П45'48 4°П33'01	-4.9m
max. Earth dist.	8842 Nov 22 18:49 8842 Dec 14 20:22	0° ∡	1.73002 AU	evening set	8845 May 07 14:33 8845 May 10 15:15	30°R 8 28° 8 14'30	
superior conj minimum elong	8842 Dec 16 10:13 8842 Dec 16 19:44	29° х 11'32 29° х 40'55	1°06'53 1°06'49	inferior conj minimum elong min. Earth dist.	8845 May 13 02:29 8845 May 13 05:08 8845 May 13 02:55	26°844'01 26°839'56 26°843'20	9°09'05 9°08'48 0.27141 AU
desc. node	8842 Dec 17 01:54 8843 Jan 10 07:52 8843 Jan 17 01:35	0°る 0°≈ 8°≈20'43		morning rise direct greatest brilliancy	8845 May 15 19:02 8845 Jun 02 17:21 8845 Jun 12 10:16	25°805'26 18°856'00 20°842'07	4.0
evening rise	8843 Jan 23 11:21 8843 Feb 03 12:46	16°≈17'01 0°) €		desc. node	8845 Jun 28 22:59 8845 Jul 03 22:59	0°П 3°П52'14	- -
	8843 Feb 27 16:29 8843 Mar 23 19:42 8843 Apr 17 00:42	0°Β 0°Υ		morning max el	8845 Jul 22 19:56 8845 Jul 31 15:11 8845 Aug 28 04:07	21°∏03'09 0°© 0°Ω	46°34'03
asc. node	8843 May 10 00:07 8843 May 11 11:37	28°Ⅱ11'57 0°©			8845 Sep 23 07:09 8845 Oct 18 17:53	0 ்⊽ 0∘₥	
evening max el	8843 Jun 05 10:47 8843 Jul 01 09:52 8843 Jul 28 11:01	0° Ω 0° m 28° m 45'09	46°10'17	asc. node	8845 Oct 24 21:06 8845 Nov 12 17:45 8845 Dec 07 09:27	7° Ω 19'06 0°ጤ 0° <i>ጃ</i>	
desc. node greatest brilliancy	8843 Jul 29 17:28 8843 Aug 29 19:51 8843 Sep 05 03:19	0° ჲ 24° ჲ 56'30 27° ჲ 52'51	-4.8m	morning set	8845 Dec 31 19:17 8846 Jan 17 21:26 8846 Jan 25 01:05	0°る 21°る07'49 0°≈	
retrograde	8843 Sep 14 17:16 8843 Sep 16 00:03	0° ጤ 0° ጤ 01'55	-4.0III	desc. node	8846 Feb 13 13:51 8846 Feb 18 03:48	24°≈17'24 0° 米	
evening set min. Earth dist.	8843 Sep 17 06:38 8843 Oct 03 00:16 8843 Oct 07 00:22	30°R Ω 24° Ω 31'53 22° Ω 04'17	0.28977 AU	max. Earth dist.	8846 Feb 22 20:47 8846 Feb 25 22:11	5° ¥ 52'28 9° ¥ 41'38	1.71884 AU -0°29'28
inferior conj minimum elong	8843 Oct 07 13:05 8843 Oct 07 04:41	21° £ 44'17 21° £ 57'29	-7°38'44	minimum elong	8846 Feb 25 15:12 8846 Mar 14 03:52	9° ℋ 19'47 0° Ƴ	
morning rise direct greatest brilliancy	8843 Oct 11 09:16 8843 Oct 29 00:16 8843 Nov 07 23:26	19° £ 21'39 13° £ 31'44 15° £ 19'07	-4.7m	evening rise	8846 Apr 06 20:00 8846 Apr 07 02:04 8846 May 01 00:02	29° Y 40'55 0° ႘ 0° Ⅱ	
morning max el asc. node	8843 Dec 01 17:58 8843 Dec 16 20:43 8843 Dec 20 19:10	0°M 13°M36'02 17°M27'49	45°46'43	asc. node	8846 May 25 00:09 8846 Jun 06 11:41 8846 Jun 18 05:06	0° Ω 15° © 30'35 0° Ω	
	8844 Jan 01 23:10 8844 Jan 28 22:22 8844 Feb 23 09:57	⊼°0 る°0 š0			8846 Jul 12 17:53 8846 Aug 06 19:14 8846 Sep 01 18:45	0° ™ 0°™	
desc. node	8844 Mar 19 04:07 8844 Apr 10 12:49 8844 Apr 12 12:27	0°₩ 27°₩32'28 0° Υ		desc. node evening max el	8846 Sep 26 07:09 8846 Sep 29 17:17 8846 Oct 07 06:32	26° M 30'38 0° ✓ 7° ✓ 26'35	45°43'02
	8844 May 06 14:55 8844 May 30 14:32	0°B 8°0		greatest brilliancy	8846 Nov 03 21:03 8846 Nov 15 09:02	0° ਰ 5° ਰ 35'41	-4.7m
morning set	8844 Jun 18 21:52 8844 Jun 23 13:49 8844 Jul 17 14:39	24°∏09'57 0°© 0°Ω		retrograde evening set	8846 Nov 25 01:23 8846 Dec 12 01:05 8846 Dec 15 00:28	7°る17'32 1°る48'13 30°Rメ	

inforior coni	8846 Dec 16 08:45	29° ₹ 09'42	6040147		8849 Jun 08 10:07	0°ಅ	
inferior conj		29 x ·0942 28° x 54'14	6°46'42		8849 Jun 21 18:26	0 €5 16°€542'02	
minimum elong min. Earth dist.	8846 Dec 16 18:39	28° 🖈 41'33	0.28654 AU	evening rise	8849 Jul 02 10:16	10 €942 02 0°Ω	
morning rise	8846 Dec 17 02:46 8846 Dec 21 11:52	26° ₹ 02'21	0.28034 AU	asc. node	8849 Jul 02 10.16 8849 Jul 03 23:32	1° Ω 55'58	
direct	8847 Jan 06 18:24	20° x 54'29		asc. node	8849 Jul 26 14:32	0° m)	
asc. node	8847 Jan 17 06:44	20 x ·34 29 22° x 57'32			8849 Aug 20 00:13	0∘ ⊽	
	8847 Jan 17 00:44	22 x ·3/32 23° x ⁷ 11'18	1 9			0° M	
greatest brilliancy	8847 Jan 30 07:23	23 x・11 18 0°る	-4.0111		8849 Sep 13 17:31 8849 Oct 08 22:25	0° ∤ 7	
morning max el	8847 Feb 25 18:58	0 3 22° る 57'09	46°27'03	desc. node	8849 Oct 08 22:23 8849 Oct 23 18:19	0 x ⁴ 17° x ⁴16'11	
morning max er	8847 Mar 04 16:39	0°≈	40 27 03	desc. Hode	8849 Nov 03 21:46	17 メ 1011	
	8847 Mar 31 21:52	0 ≈			8849 Dec 01 06:26	0°≈	
	8847 Apr 26 10:36	0°Υ		evening max el	8849 Dec 01 00:20	0 ∞ 16°≈57'17	46°03'03
desc. node	8847 May 09 01:13	15° Υ 11'11		evening max er	8850 Jan 01 09:07	10 ≈3/1/ 0° H	40 03 03
desc. Hode	•			arantaat brillianav			1 0
	8847 May 21 05:21	0° Ⅱ		greatest brilliancy	8850 Jan 26 12:12	15°) 53'34 17°) 38'51	-4.8m
	8847 Jun 14 15:25	0°e 0 π		retrograde	8850 Feb 05 06:16	16° H 11'54	
	8847 Jul 08 22:04			asc. node	8850 Feb 13 18:17		
	8847 Aug 02 04:13	0° N		evening set	8850 Feb 19 19:24	13° ¥ 30′56	2005122
1	8847 Aug 26 10:58	0° Mp		inferior conj	8850 Feb 26 01:03	9° ¥ 50'31	3°05'32
asc. node	8847 Aug 29 22:05	4° Mp 16'29		minimum elong	8850 Feb 25 18:15	10°) €01'01	3°03'33
morning set	8847 Aug 30 13:30	5° Mp 04'05		min. Earth dist.	8850 Feb 26 04:39	9°) 44′56	0.27248 AU
	8847 Sep 19 18:16	0∘ ⊽		morning rise	8850 Mar 03 16:39	6° ∺ 28′08	
				direct	8850 Mar 18 21:01	1° ¥ 56′15	
superior conj	8847 Oct 06 21:12	21° ≏ 07'28		greatest brilliancy	8850 Mar 29 04:18	3° ¥ 55'42	-4.9m
minimum elong	8847 Oct 06 13:08	20° £ 42'37			8850 May 03 12:37	0° Υ	
max. Earth dist.	8847 Oct 07 14:49	22° ჲ 01'49	1.73232 AU	morning max el	8850 May 08 08:27	4° Ƴ 46'48	46°59'01
	8847 Oct 14 01:52	0°M₊			8850 May 31 22:08	0° 8	
	8847 Nov 07 10:06	0° ∡ 7		desc. node	8850 Jun 05 13:17	5° 8 12'52	
evening rise	8847 Nov 12 08:19	6° ₰ 03'51			8850 Jun 26 23:43	Π $^{\circ}0$	
	8847 Dec 01 19:41	o°ප			8850 Jul 22 05:01	0 \circ \odot	
desc. node	8847 Dec 19 15:33	21° る 51'58			8850 Aug 16 02:00	0 ° Ω	
	8847 Dec 26 06:59	0° ≈			8850 Sep 09 19:07	0° m p	
	8848 Jan 19 19:53	0° ℋ		asc. node	8850 Sep 26 10:36	20° m 17'07	
	8848 Feb 13 10:43	0 ° Υ			8850 Oct 04 09:25	0∘ ত	
	8848 Mar 09 06:02	0°8			8850 Oct 28 20:49	0° M.	
	8848 Apr 03 12:56	Π $^{\circ}0$		morning set	8850 Nov 07 11:58	11° M 50'40	
asc. node	8848 Apr 10 14:39	8° Ⅲ 12'11			8850 Nov 22 05:40	0° ∡ ¹	
	8848 Apr 30 00:33	0° ©		max. Earth dist.	8850 Dec 12 13:17	25° ₹ '05'00	1.73031 AU
evening max el	8848 May 14 21:08	15° © 36'55	46°53'02				
	8848 May 30 03:34	$0^{\circ}\Omega$		superior conj	8850 Dec 14 02:47	27° ҂ ¹00′52	1°08'56
greatest brilliancy	8848 Jun 23 13:13	16° Ω 07'33	-4.9m	minimum elong	8850 Dec 14 12:06	27° ₹ ¹29'38	1°08'55
retrograde	8848 Jul 04 06:26	18° Ω 15'43		•	8850 Dec 16 12:47	0°రె	
evening set	8848 Jul 19 05:17	13° Ω 50′29			8851 Jan 09 18:50	0° ≈	
inferior conj	8848 Jul 25 06:00		1°33'24	desc. node	8851 Jan 16 03:35	7°≈52'53	
minimum elong	8848 Jul 25 09:32	10° Ω 09'28	1°32'06	evening rise	8851 Jan 21 02:12	14° ≈ 00'08	
min. Earth dist.	8848 Jul 24 21:39	10° Ω 27'49	0.27608 AU	Z .	8851 Feb 02 23:53	0°) €	
desc. node	8848 Jul 31 10:28	6° Ω 36'14			8851 Feb 27 03:47	$0^{\circ}\Upsilon$	
morning rise	8848 Jul 31 14:30	6° Ω 30'50			8851 Mar 23 07:15	0°8	
direct	8848 Aug 15 05:11	2° Ω 22'09			8851 Apr 16 12:38	0° I I	
greatest brilliancy	8848 Aug 24 22:46	4° Ω 06'49	-4.8m	asc. node	8851 May 09 02:00	27° Ⅱ 39'33	
· ·	8848 Sep 30 11:37	0° m)			8851 May 11 00:12	0ಂತ	
morning max el	8848 Oct 03 05:23	2° m 36'04	45°50'22		8851 Jun 05 00:31	$0^{\circ}\Omega$	
	8848 Oct 29 19:38	0 o $\overline{\mathbf{v}}$			8851 Jul 01 01:59	0°m	
asc. node							
use. Houe	8848 Nov 21 09:14			evening max el		26° m 27'24	46°11'46
	8848 Nov 21 09:14	25° ≙ 12'33		evening max el	8851 Jul 26 01:19	26° Mp 27′24 0° Ω	46°11'46
	8848 Nov 25 13:21	25° £ 12'33 0° M			8851 Jul 26 01:19 8851 Jul 29 16:32	0∘ ⊽	46°11'46
	8848 Nov 25 13:21 8848 Dec 21 02:59	25° £ 12'33 0° M 0° ⊀		desc. node	8851 Jul 26 01:19 8851 Jul 29 16:32 8851 Aug 28 21:58	0° ჲ 23° ჲ 29'30	
	8848 Nov 25 13:21 8848 Dec 21 02:59 8849 Jan 15 00:29	25° 丘 12'33 0° 瓜 0° ズ 0° ろ		desc. node greatest brilliancy	8851 Jul 26 01:19 8851 Jul 29 16:32 8851 Aug 28 21:58 8851 Sep 02 18:55	0° ჲ 23° ჲ 29'30 25° ჲ 40'37	46°11'46 -4.8m
	8848 Nov 25 13:21 8848 Dec 21 02:59 8849 Jan 15 00:29 8849 Feb 08 12:05	25°≗12'33 0°ጤ 0°♂ 0°♂ 0°♂		desc. node greatest brilliancy retrograde	8851 Jul 26 01:19 8851 Jul 29 16:32 8851 Aug 28 21:58 8851 Sep 02 18:55 8851 Sep 13 16:03	0° <u>Ω</u> 23° <u>Ω</u> 29'30 25° <u>Ω</u> 40'37 27° <u>Ω</u> 50'42	
desc node	8848 Nov 25 13:21 8848 Dec 21 02:59 8849 Jan 15 00:29 8849 Feb 08 12:05 8849 Mar 04 17:19	25° 亞 12'33 0°肌 0°ズ 0°云 0°≈ 0°米		desc. node greatest brilliancy retrograde evening set	8851 Jul 26 01:19 8851 Jul 29 16:32 8851 Aug 28 21:58 8851 Sep 02 18:55 8851 Sep 13 16:03 8851 Sep 30 13:04	0°Ω 23°Ω29'30 25°Ω40'37 27°Ω50'42 22°Ω25'17	-4.8m
desc. node	8848 Nov 25 13:21 8848 Dec 21 02:59 8849 Jan 15 00:29 8849 Feb 08 12:05 8849 Mar 04 17:19 8849 Mar 13 02:18	25° Ω 12'33 0° M 0° ズ 0° ぢ 0° ॐ 0° 米 10° 米 25'43		desc. node greatest brilliancy retrograde evening set min. Earth dist.	8851 Jul 26 01:19 8851 Jul 29 16:32 8851 Aug 28 21:58 8851 Sep 02 18:55 8851 Sep 13 16:03 8851 Sep 30 13:04 8851 Oct 04 15:50	0° \Omega 23° \Omega 29'30 25° \Omega 40'37 27° \Omega 50'42 22° \Omega 25'17 19° \Omega 54'07	-4.8m 0.28947 AU
	8848 Nov 25 13:21 8848 Dec 21 02:59 8849 Jan 15 00:29 8849 Feb 08 12:05 8849 Mar 04 17:19 8849 Mar 13 02:18 8849 Mar 28 18:09	25° \Lambda 12'33 0° \mathbb{M} 0° A 0° M 0° M 10° M 25'43 0° Y		desc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj	8851 Jul 26 01:19 8851 Jul 29 16:32 8851 Aug 28 21:58 8851 Sep 02 18:55 8851 Sep 13 16:03 8851 Sep 30 13:04 8851 Oct 04 15:50 8851 Oct 05 05:08	0° \Omega 23° \Omega 29'30 25° \Omega 40'37 27° \Omega 50'42 22° \Omega 25'17 19° \Omega 54'07 19° \Omega 33'15	-4.8m 0.28947 AU -7°29'08
desc. node morning set	8848 Nov 25 13:21 8848 Dec 21 02:59 8849 Jan 15 00:29 8849 Feb 08 12:05 8849 Mar 04 17:19 8849 Mar 13 02:18 8849 Mar 28 18:09 8849 Apr 01 14:23	25° £ 12'33 0° M 0° % 0° 8 0° 8 0° 9 10° 1 25'43 0° 9 4° 9 48'49		desc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong	8851 Jul 26 01:19 8851 Jul 29 16:32 8851 Aug 28 21:58 8851 Sep 02 18:55 8851 Sep 13 16:03 8851 Sep 30 13:04 8851 Oct 04 15:50 8851 Oct 05 05:08 8851 Oct 04 20:19	0° \(\Omega\) 23° \(\Omega\)29'30 25° \(\Omega\)40'37 27° \(\Omega\)50'42 22° \(\Omega\)25'17 19° \(\Omega\)54'07 19° \(\Omega\)33'15 19° \(\Omega\)47'06	-4.8m 0.28947 AU -7°29'08
	8848 Nov 25 13:21 8848 Dec 21 02:59 8849 Jan 15 00:29 8849 Feb 08 12:05 8849 Mar 04 17:19 8849 Mar 13 02:18 8849 Mar 28 18:09	25° \Lambda 12'33 0° \mathbb{M} 0° A 0° M 0° M 10° M 25'43 0° Y		desc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8851 Jul 26 01:19 8851 Jul 29 16:32 8851 Aug 28 21:58 8851 Sep 02 18:55 8851 Sep 13 16:03 8851 Sep 30 13:04 8851 Oct 04 15:50 8851 Oct 05 05:08 8851 Oct 04 20:19 8851 Oct 09 03:43	0° \(\Omega\) 23° \(\Omega\)29'30 25° \(\Omega\)40'37 27° \(\Omega\)50'42 22° \(\Omega\)25'17 19° \(\Omega\)33'15 19° \(\Omega\)47'06 17° \(\Omega\)07'11	-4.8m 0.28947 AU -7°29'08
morning set	8848 Nov 25 13:21 8848 Dec 21 02:59 8849 Jan 15 00:29 8849 Feb 08 12:05 8849 Mar 04 17:19 8849 Mar 13 02:18 8849 Mar 28 18:09 8849 Apr 01 14:23 8849 Apr 21 16:01	25°至12'33 0°肌 0°水 0°云 0°云 0°米 10°光25'43 0°Y 4°Y48'49 0°엉	1977114	desc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8851 Jul 26 01:19 8851 Jul 29 16:32 8851 Aug 28 21:58 8851 Sep 02 18:55 8851 Sep 13 16:03 8851 Sep 30 13:04 8851 Oct 04 15:50 8851 Oct 05 05:08 8851 Oct 04 20:19 8851 Oct 09 03:43 8851 Oct 26 15:22	0° \(\Omega\) 23° \(\Omega\)29'30 25° \(\Omega\)40'37 27° \(\Omega\)50'42 22° \(\Omega\)25'17 19° \(\Omega\)54'07 19° \(\Omega\)47'06 17° \(\Omega\)07'11 11° \(\Omega\)21'04	-4.8m 0.28947 AU -7°29'08 7°27'45
morning set	8848 Nov 25 13:21 8848 Dec 21 02:59 8849 Jan 15 00:29 8849 Feb 08 12:05 8849 Mar 04 17:19 8849 Mar 13 02:18 8849 Mar 28 18:09 8849 Apr 01 14:23 8849 Apr 21 16:01 8849 May 12 07:36	25°至12'33 0°M 0°ズ 0°云 0°云 0°云 0°H 10°光25'43 0°Y 4°Y48'49 0°엉		desc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8851 Jul 26 01:19 8851 Jul 29 16:32 8851 Aug 28 21:58 8851 Sep 02 18:55 8851 Sep 13 16:03 8851 Sep 30 13:04 8851 Oct 04 15:50 8851 Oct 05 05:08 8851 Oct 04 20:19 8851 Oct 09 03:43 8851 Oct 26 15:22 8851 Nov 05 15:01	0° \(\Omega\) 23° \(\Omega\)29'30 25° \(\Omega\)40'37 27° \(\Omega\)50'42 22° \(\Omega\)25'17 19° \(\Omega\)54'07 19° \(\Omega\)47'06 17° \(\Omega\)07'11 11° \(\Omega\)21'04 13° \(\Omega\)8'34	-4.8m 0.28947 AU -7°29'08
morning set superior conj minimum elong	8848 Nov 25 13:21 8848 Dec 21 02:59 8849 Jan 15 00:29 8849 Feb 08 12:05 8849 Mar 04 17:19 8849 Mar 13 02:18 8849 Mar 28 18:09 8849 Apr 01 14:23 8849 Apr 21 16:01 8849 May 12 07:36 8849 May 12 10:06	25°至12'33 0°肌 0°ポ 0°ጜ 0°ጜ 0°ጜ 10°₩25'43 0°Υ 4°Υ48'49 0°℧ 25°℧57'46 26°℧05'40	1°27'28	desc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	8851 Jul 26 01:19 8851 Jul 29 16:32 8851 Aug 28 21:58 8851 Sep 02 18:55 8851 Sep 13 16:03 8851 Sep 30 13:04 8851 Oct 04 15:50 8851 Oct 05 05:08 8851 Oct 04 20:19 8851 Oct 09 03:43 8851 Oct 26 15:22 8851 Nov 05 15:01 8851 Dec 02 00:29	0° Ω 23° Ω 29'30 25° Ω 40'37 27° Ω 50'42 22° Ω 25'17 19° Ω 53'07 19° Ω 47'06 17° Ω 07'11 11° Ω 21'04 13° Ω 08'34 0° M.	-4.8m 0.28947 AU -7°29'08 7°27'45 -4.7m
morning set	8848 Nov 25 13:21 8848 Dec 21 02:59 8849 Jan 15 00:29 8849 Feb 08 12:05 8849 Mar 04 17:19 8849 Mar 13 02:18 8849 Mar 28 18:09 8849 Apr 01 14:23 8849 Apr 21 16:01 8849 May 12 07:36	25°至12'33 0°肌 0°ポ 0°ጜ 0°ጜ 0°ጜ 10°₩25'43 0°Υ 4°Υ48'49 0°℧ 25°℧57'46 26°℧05'40		desc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8851 Jul 26 01:19 8851 Jul 29 16:32 8851 Aug 28 21:58 8851 Sep 02 18:55 8851 Sep 13 16:03 8851 Sep 30 13:04 8851 Oct 04 15:50 8851 Oct 05 05:08 8851 Oct 04 20:19 8851 Oct 09 03:43 8851 Oct 26 15:22 8851 Nov 05 15:01	0° \(\Omega\) 23° \(\Omega\)29'30 25° \(\Omega\)40'37 27° \(\Omega\)50'42 22° \(\Omega\)25'17 19° \(\Omega\)54'07 19° \(\Omega\)47'06 17° \(\Omega\)07'11 11° \(\Omega\)21'04 13° \(\Omega\)8'34	-4.8m 0.28947 AU -7°29'08 7°27'45

	8852 Jan 01 16:40	0° ⊼ ¹			8854 Jun 17 16:38	$0^{\circ}\Omega$	
	8852 Jan 28 12:32	0°ਤ			8854 Jul 12 05:52	0° m)	
	8852 Feb 22 22:44	0° ≈			8854 Aug 06 08:07	0∘ ত	
	8852 Mar 18 16:11	0°) €			8854 Sep 01 09:35	0°M	
desc. node	8852 Apr 09 14:44	27°) 02'19		desc. node	8854 Sep 25 09:02	25°M46'59	
	8852 Apr 12 00:03	$0^{\circ}\mathbf{\Upsilon}$			8854 Sep 29 13:15	0° ∡ ″	
	8852 May 06 02:14	9° 8		evening max el	8854 Oct 04 22:47	5° ҂ 17'05	45°43'08
	8852 May 30 01:38	$\Pi^{\circ}0$			8854 Nov 05 06:56	8°0	
morning set	8852 Jun 16 10:47	21° Ⅱ 45'44		greatest brilliancy	8854 Nov 12 23:27	3° る 23'42	-4.7m
	8852 Jun 23 00:48	0 \circ \odot		retrograde	8854 Nov 22 16:54	5° る 05'59	
	8852 Jul 17 01:33	0 $^{\circ}$ Ω			8854 Dec 09 00:33	30°₹ ৴	
		_		evening set	8854 Dec 09 19:30	29° ⋌ 32'23	
superior conj	8852 Jul 25 14:56	10° Ω 39'18		inferior conj	8854 Dec 14 00:26	26° ₹ 57'29	
minimum elong	8852 Jul 25 18:20	10° Ω 49'53	0°14'14	minimum elong	8854 Dec 14 10:08	26° √ 42'19	
behind sun begin	8852 Jul 25 06:51	10° Ω 14'10		min. Earth dist.	8854 Dec 14 17:36	26° ₹ 30'37	0.28703 AU
behind sun end max. Earth dist.	8852 Jul 26 05:49 8852 Jul 28 14:40	11° Ω 25'37 14° Ω 22'20	1.72287 AU	morning rise direct	8854 Dec 19 00:30 8855 Jan 04 10:58	23° 尽 54'21 18° 尽 42'03	
asc. node	8852 Jul 31 11:44	14 δ2 22 20	1.72267 AU	greatest brilliancy	8855 Jan 15 12:03	20° × 57'14	1 8m
asc. Houe	8852 Aug 10 04:42	0° m)		asc. node	8855 Jan 16 08:46	20 x 37 14 21° x 18'01	-4.0111
evening rise	8852 Sep 01 15:58	27° Mp 48'49		asc. node	8855 Jan 31 02:11	0°る	
evening rise	8852 Sep 03 10:28	0∘ ರ		morning max el	8855 Feb 23 10:35	20°る42'00	46°25'15
	8852 Sep 27 19:19	0°M		<i>5</i>	8855 Mar 04 11:59	0° ≈	
	8852 Oct 22 08:26	0° ∡ 7			8855 Mar 31 12:51	0°) €	
	8852 Nov 16 03:27	ರ°0			8855 Apr 25 23:48	$0^{\circ}\mathbf{\Upsilon}$	
desc. node	8852 Nov 20 05:46	4° る 55'27		desc. node	8855 May 08 03:03	14° Y 38'12	
	8852 Dec 11 06:00	0° ≈			8855 May 20 17:38	0° 8	
	8853 Jan 05 18:35	0°) €			8855 Jun 14 03:09	$\Pi^{\circ}0$	
	8853 Feb 01 00:46	0° Υ			8855 Jul 08 09:22	0∘ ©	
evening max el	8853 Feb 28 13:16	29° Y 23′22	46°47'14		8855 Aug 01 15:11	$0^{\circ}\Omega$	
	8853 Mar 01 03:56	0°8			8855 Aug 25 21:42	0° m/y	
asc. node	8853 Mar 13 05:34	11° 8 27'47		morning set	8855 Aug 28 05:51	2° Mp 53'23	
	8853 Apr 09 09:09	0°耳 0°耳19'10	4.0	asc. node	8855 Aug 29 00:02	3° ™ 49'28 0° ⊆	
greatest brilliancy retrograde	8853 Apr 10 05:57 8853 Apr 19 23:23	0 П 1910 2° П 07'17	-4.9111		8855 Sep 19 04:51	0 ==	
retrograde	8853 Apr 30 03:24	2 H0/1/ 30°R 8		superior conj	8855 Oct 04 14:49	19° ഫ 01'13	1°13'47
evening set	8853 May 08 04:35	25° 8 47'55		minimum elong	8855 Oct 04 14:49	18° ≏ 35'14	
inferior conj	8853 May 10 15:22	24° 8 18'13	9°11'30	max. Earth dist.	8855 Oct 05 12:01	20° ⊆ 06'37	1.73218 AU
minimum elong	8853 May 10 17:03	24° 8 15'38		man. Barur diov.	8855 Oct 13 12:25	0°M	1.75210110
min. Earth dist.	8853 May 10 15:06		0.27134 AU		8855 Nov 06 20:44	0° ∡ 7	
morning rise	8853 May 13 05:32	22° 8 43'24		evening rise	8855 Nov 10 01:43	3° ∡ 56'54	
direct		160 420112					
direct	8853 May 31 06:24	16° 8 30'12			8855 Dec 01 06:29	0°ಕ	
greatest brilliancy	8853 May 31 06:24 8853 Jun 09 22:25	18° 8 16'02	-4.9m	desc. node	8855 Dec 01 06:29 8855 Dec 18 17:33	0°ರ 21° ರ 24'27	
	8853 Jun 09 22:25 8853 Jun 29 16:08	18° ႘ 16′02 0°Ⅲ	-4.9m	desc. node		21° පි 24'27 0°≈	
greatest brilliancy desc. node	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59	18° 8 16'02 0°П 2°П43'29		desc. node	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23	21° ට 24'27 0° ≈ 0° 光	
greatest brilliancy	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40	18° 8 16'02 0° П 2° П 43'29 18° П 43'54		desc. node	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50	21° පි 24'27 0° ≈ 0° 米 0° ⋎	
greatest brilliancy desc. node	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57	18°816'02 0°Ⅲ 2°Ⅲ43'29 18°Ⅲ43'54 0°©		desc. node	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06	21°る24'27 0°≈ 0°升 0°Υ 0°Υ	
greatest brilliancy desc. node	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16	18°႘16'02 0°Щ 2°Щ43'29 18°Щ43'54 0°ᢒ 0°Ω			8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39	21°♂24'27 0°≈ 0°升 0°升 0°份 0°出	
greatest brilliancy desc. node	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16 8853 Sep 22 20:18	18°816'02 0°∏ 2°∏43'29 18°∏43'54 0°© 0°Ω 0°™		desc. node	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39 8856 Apr 09 16:33	21°₹24'27 0°≈ 0°升 0°Υ 0°Υ 0°Β 0°Π 7°¶33'22	
desc. node morning max el	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16 8853 Sep 22 20:18 8853 Oct 18 05:57	18°816'02 0° II 2° II 43'29 18° II 43'54 0° II 0° II 0° II 0° II		asc. node	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39 8856 Apr 09 16:33 8856 Apr 29 18:56	21°♂24'27 0°≈ 0°升 0°升 0°升 0°出 7°用33'22 0°©	46°53'46
greatest brilliancy desc. node	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16 8853 Sep 22 20:18 8853 Oct 18 05:57 8853 Oct 23 22:55	18°816'02 0° II 2° II 43'29 18° II 43'54 0° II 0° II 0° II 0° II 0° II 0° II 0° II 0° II 0° II			8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39 8856 Apr 09 16:33 8856 Apr 29 18:56 8856 May 12 11:51	21°♂24'27 0°≈ 0°升 0°升 0°Y 0°B 0°I 7°I33'22 0°© 13°©17'01	46°53'46
desc. node morning max el	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16 8853 Sep 22 20:18 8853 Oct 18 05:57 8853 Oct 23 22:55 8853 Nov 12 05:11	18° 日 16'02 0°用 2°用43'29 18°用43'54 0°の 0°の 0°肌 0°配 6° <u>乒</u> 48'56 0°肌		asc. node evening max el	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39 8856 Apr 09 16:33 8856 Apr 29 18:56 8856 May 12 11:51 8856 May 30 12:05	21°♂24'27 0°≈ 0°升 0°쒸 0°Ч 0°Ⅱ 7°Ⅲ33'22 0°ॐ 13°ॐ17'01 0°ብ	
desc. node morning max el	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16 8853 Sep 22 20:18 8853 Oct 18 05:57 8853 Oct 23 22:55 8853 Nov 12 05:11 8853 Dec 06 20:32	18° 816'02 0° II 2° II 43'29 18° II 43'54 0° II 0° I		asc. node evening max el greatest brilliancy	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39 8856 Apr 09 16:33 8856 Apr 29 18:56 8856 May 12 11:51 8856 May 30 12:05 8856 Jun 21 05:27	21°♂24'27 0°≈ 0°升 0°↑ 0°↑ 0°Н 7°П33'22 0°© 13°©17'01 0°Ω 13°Ω49'45	
desc. node morning max el asc. node	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16 8853 Sep 22 20:18 8853 Oct 18 05:57 8853 Oct 23 22:55 8853 Nov 12 05:11 8853 Dec 06 20:32 8853 Dec 31 06:13	18° 816'02 0° II 2° II 43'29 18° II 43'54 0° I 0° I 0° I 0° I 0° I 0° I 0° I 0° I		asc. node evening max el greatest brilliancy retrograde	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39 8856 Apr 09 16:33 8856 Apr 29 18:56 8856 May 12 11:51 8856 May 30 12:05 8856 Jun 21 05:27 8856 Jul 01 20:51	21°♂24'27 0°≈ 0°升 0°↑ 0°↑ 0°Л 7°П33'22 0°© 13°©17'01 0°Л 13°Л49'45 15°Л55'59	
desc. node morning max el	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16 8853 Sep 22 20:18 8853 Oct 18 05:57 8853 Oct 23 22:55 8853 Nov 12 05:11 8853 Dec 06 20:32	18° 816'02 0° II 2° II 43'29 18° II 43'54 0° II 0° I		asc. node evening max el greatest brilliancy	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39 8856 Apr 09 16:33 8856 Apr 29 18:56 8856 May 12 11:51 8856 May 30 12:05 8856 Jun 21 05:27	21°♂24'27 0°≈ 0°升 0°↑ 0°↑ 0°Н 7°П33'22 0°© 13°©17'01 0°Ω 13°Ω49'45	-4.9m
desc. node morning max el asc. node	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16 8853 Sep 22 20:18 8853 Oct 18 05:57 8853 Oct 23 22:55 8853 Nov 12 05:11 8853 Dec 06 20:32 8853 Dec 31 06:13 8854 Jan 15 12:44	18°816'02 0°用 2°用43'29 18°用43'54 0°の 0°和 0°平 0°平 0°平 0°ボ 0°ボ 0°ボ		asc. node evening max el greatest brilliancy retrograde evening set	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39 8856 Apr 09 16:33 8856 Apr 29 18:56 8856 May 12 11:51 8856 May 30 12:05 8856 Jun 21 05:27 8856 Jul 01 20:51 8856 Jul 16 21:14	21°♂24'27 0°≈ 0° H 0°Y 0°B 0°I 7°I33'22 0°© 13°©17'01 0°A 13°A49'45 15°A55'59 11°A29'22	-4.9m
desc. node morning max el asc. node morning set	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16 8853 Sep 22 20:18 8853 Oct 18 05:57 8853 Oct 23 22:55 8853 Oct 23 22:55 8853 Dec 06 20:32 8853 Dec 31 06:13 8854 Jan 15 12:44 8854 Jan 24 11:57	18° 816'02 0° II 2° II 43'29 18° II 43'54 0° II 0° I		asc. node evening max el greatest brilliancy retrograde evening set inferior conj	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39 8856 Apr 09 16:33 8856 Apr 29 18:56 8856 May 12 11:51 8856 May 30 12:05 8856 Jun 21 05:27 8856 Jul 01 20:51 8856 Jul 16 21:14 8856 Jul 22 20:07	21° 3 24'27 0° 8 0° Η 0° Υ 0° Β 0° Π 7° Π 33'22 0° 9 13° 9 17'01 0° Ω 13° Ω 49'45 15° Ω 55'59 11° Ω 29'22 7° Ω 56'12 7° Ω 49'28	-4.9m 1°55'53
desc. node morning max el asc. node morning set	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16 8853 Sep 22 20:18 8853 Oct 18 05:57 8853 Oct 23 22:55 8853 Nov 12 05:11 8853 Dec 06 20:32 8853 Dec 31 06:13 8854 Jan 15 12:44 8854 Jan 24 11:57 8854 Feb 12 15:50	18° 816'02 0° II 2° II 43'29 18° II 43'54 0° II 0° I		asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39 8856 Apr 09 16:33 8856 Apr 29 18:56 8856 May 12 11:51 8856 May 30 12:05 8856 Jun 21 05:27 8856 Jul 01 20:51 8856 Jul 16 21:14 8856 Jul 22 20:07 8856 Jul 23 00:28 8856 Jul 29 04:23	21°524'27 0° & 0° H 0° Y 0° B 0° II 7° II 33'22 0° © 13° © 17'01 0° \lambda 13° \lambda 49'45 15° \lambda 55'59 11° \lambda 29'22 7° \lambda 56'12 7° \lambda 49'28 8° \lambda 07'38 4° \lambda 12'12	-4.9m 1°55'53 1°54'19
desc. node morning max el asc. node morning set desc. node max. Earth dist.	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16 8853 Sep 22 20:18 8853 Oct 18 05:57 8853 Oct 23 22:55 8853 Nov 12 05:11 8853 Dec 06 20:32 8853 Dec 31 06:13 8854 Jan 15 12:44 8854 Jan 24 11:57 8854 Feb 12 15:50 8854 Feb 17 14:41 8854 Feb 20 10:30	18°816'02 0°用 2°用43'29 18°用43'54 0°® 0°和 0°m 0°亞 6°亞48'56 0°M 0°ズ 0°중 18°중52'54 0°≈ 23°≈49'43 0°升 3°升31'28	46°35'40 1.71926 AU	asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39 8856 Apr 09 16:33 8856 Apr 29 18:56 8856 May 12 11:51 8856 May 30 12:05 8856 Jun 21 05:27 8856 Jul 01 20:51 8856 Jul 16 21:14 8856 Jul 22 20:07 8856 Jul 23 00:28 8856 Jul 29 04:23 8856 Jul 30 12:31	21° 524'27 0° 8 0° 7 0° 8 0° 11 7° 1133'22 0° 9 13° 917'01 0° 10 13° 149'45 15° 155'59 11° 129'22 7° 156'12 7° 149'28 8° 107'38 4° 112'12 3° 130'47	-4.9m 1°55'53 1°54'19
desc. node morning max el asc. node morning set desc. node max. Earth dist. superior conj	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16 8853 Sep 22 20:18 8853 Oct 18 05:57 8853 Oct 23 22:55 8853 Nov 12 05:11 8853 Dec 06 20:32 8853 Dec 31 06:13 8854 Jan 15 12:44 8854 Feb 12 15:50 8854 Feb 17 14:41 8854 Feb 20 10:30	18°816'02 0°用 2°用43'29 18°用43'54 0°® 0°和 0°m 0°亞 6°亞48'56 0°M 0°ズ 0°式 18°552'54 0°無 23°無49'43 0°升 3°升31'28	46°35'40 1.71926 AU -0°25'53	asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39 8856 Apr 09 16:33 8856 Apr 29 18:56 8856 May 12 11:51 8856 May 30 12:05 8856 Jul 21 05:27 8856 Jul 01 20:51 8856 Jul 16 21:14 8856 Jul 22 20:07 8856 Jul 23 00:28 8856 Jul 29 04:23 8856 Jul 30 12:31 8856 Aug 12 18:55	21° 524'27 0° 8 0° 7 0° 8 0° 11 7° 1133'22 0° 9 13° 917'01 0° 10 13° 12'9'22 7° 12'9'22 7° 12'9'22 7° 12'12 3° 12'12 3° 130'47 0° 104'11	-4.9m 1°55'53 1°54'19 0.27566 AU
desc. node morning max el asc. node morning set desc. node max. Earth dist.	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16 8853 Sep 22 20:18 8853 Oct 18 05:57 8853 Oct 23 22:55 8853 Nov 12 05:11 8853 Dec 06 20:32 8853 Dec 31 06:13 8854 Jan 15 12:44 8854 Jan 24 11:57 8854 Feb 12 15:50 8854 Feb 17 14:41 8854 Feb 20 10:30 8854 Feb 23 10:44 8854 Feb 23 04:33	18°816'02 0°II 2°II43'29 18°II43'54 0°© 0°I 0°I 0°I 0°I 0°I 18°I52'54 0°I 18°I52'54 0°I 23° 49'43 0°H 3°H31'28	46°35'40 1.71926 AU -0°25'53	asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39 8856 Apr 09 16:33 8856 Apr 29 18:56 8856 May 12 11:51 8856 May 30 12:05 8856 Jun 21 05:27 8856 Jul 01 20:51 8856 Jul 16 21:14 8856 Jul 22 20:07 8856 Jul 22 00:07 8856 Jul 23 00:28 8856 Jul 29 04:23 8856 Jul 30 12:31 8856 Aug 12 18:55 8856 Aug 22 12:29	21° ₹24'27 0° ≈ 0° ¥ 0° ¥ 0° ¶ 7° ¶33'22 0° © 13° № 17'01 0° Ω 13° Ω49'45 15° Ω55'59 11° Ω29'22 7° Ω56'12 7° Ω49'28 8° Ω07'38 4° Ω12'12 3° Ω30'47 0° Ω04'11 1° Ω48'35	-4.9m 1°55'53 1°54'19 0.27566 AU
desc. node morning max el asc. node morning set desc. node max. Earth dist. superior conj minimum elong	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16 8853 Sep 22 20:18 8853 Oct 18 05:57 8853 Oct 23 22:55 8853 Nov 12 05:11 8853 Dec 06 20:32 8853 Dec 31 06:13 8854 Jan 15 12:44 8854 Jan 24 11:57 8854 Feb 12 15:50 8854 Feb 17 14:41 8854 Feb 20 10:30 8854 Feb 23 10:44 8854 Feb 23 04:33 8854 Mar 13 14:49	18°816'02 0°II 2°II43'29 18°II43'54 0°© 0°I 0°I 0°I 0°I 0°I 18°I52'54 0°I 18°I52'54 0°I 23°≈49'43 0°H 3°H31'28 7°H16'53 6°H57'34 0°Y	46°35'40 1.71926 AU -0°25'53	asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct greatest brilliancy	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39 8856 Apr 09 16:33 8856 Apr 29 18:56 8856 May 12 11:51 8856 May 30 12:05 8856 Jun 21 05:27 8856 Jul 01 20:51 8856 Jul 01 20:51 8856 Jul 16 21:14 8856 Jul 22 20:07 8856 Jul 22 20:07 8856 Jul 22 12:44 8856 Jul 29 04:23 8856 Jul 30 12:31 8856 Aug 12 18:55 8856 Aug 22 12:29 8856 Sep 30 10:59	21° ₹24'27 0° ≈ 0° 升 0° ↑ 0° ↑ 0° ¶ 7° ∏33'22 0° ∞ 13° ©17'01 0° Ω 13° Ω49'45 15° Ω55'59 11° Ω29'22 7° Ω56'12 7° Ω49'28 8° Ω07'38 4° Ω12'12 3° Ω30'47 0° Ω04'11 1° Ω48'35 0° ዀ	-4.9m 1°55'53 1°54'19 0.27566 AU -4.8m
desc. node morning max el asc. node morning set desc. node max. Earth dist. superior conj	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16 8853 Sep 22 20:18 8853 Oct 18 05:57 8853 Oct 23 22:55 8853 Nov 12 05:11 8853 Dec 06 20:32 8853 Dec 31 06:13 8854 Jan 15 12:44 8854 Jan 24 11:57 8854 Feb 12 15:50 8854 Feb 17 14:41 8854 Feb 20 10:30 8854 Feb 23 10:44 8854 Feb 23 10:44 8854 Feb 23 04:33 8854 Mar 13 14:49 8854 Apr 04 07:29	18°816'02 0°用 2°用43'29 18°用43'54 0°⑤ 0°凡 0°卟 0°乒 6°乒48'56 0° 18°♂552'54 0°≈ 23°≈49'43 0° + 3° + 31'28 7° + 16'53 6° + 57'34 0° 27° + 11'45	46°35'40 1.71926 AU -0°25'53	asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39 8856 Apr 09 16:33 8856 Apr 29 18:56 8856 May 12 11:51 8856 May 30 12:05 8856 Jun 21 05:27 8856 Jul 01 20:51 8856 Jul 16 21:14 8856 Jul 22 20:07 8856 Jul 23 00:28 8856 Jul 22 12:44 8856 Jul 29 04:23 8856 Jul 30 12:31 8856 Aug 12 18:55 8856 Aug 22 12:29 8856 Sep 30 10:59 8856 Sep 30 19:06	21° 524'27 0° \$\infty\$ 0° \$\mathcal{H}\$ 0° \$\mathcal{H}\$ 0° \$\mathcal{H}\$ 0° \$\mathcal{H}\$ 0° \$\mathcal{H}\$ 13° \$\mathcal{H}\$3'22 0° \$\mathcal{G}\$ 13° \$\mathcal{G}\$17'01 0° \$\mathcal{H}\$ 15° \$\mathcal{H}\$5'559 11° \$\mathcal{H}\$29'22 7° \$\mathcal{H}\$56'12 7° \$\mathcal{H}\$49'28 8° \$\mathcal{H}\$07'38 4° \$\mathcal{H}\$12'12 3° \$\mathcal{H}\$30'47 0° \$\mathcal{H}\$0° \$\mathcal{H}\$04'8'35 0° \$\mathcal{H}\$ 0° \$\mathcal{H}\$19'26	-4.9m 1°55'53 1°54'19 0.27566 AU -4.8m
desc. node morning max el asc. node morning set desc. node max. Earth dist. superior conj minimum elong	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16 8853 Sep 22 20:18 8853 Oct 18 05:57 8853 Oct 23 22:55 8853 Nov 12 05:11 8853 Dec 06 20:32 8853 Dec 31 06:13 8854 Jan 15 12:44 8854 Jan 24 11:57 8854 Feb 12 15:50 8854 Feb 12 15:50 8854 Feb 17 14:41 8854 Feb 20 10:30 8854 Feb 23 10:44 8854 Feb 23 10:44 8854 Feb 23 04:33 8854 Mar 13 14:49 8854 Apr 04 07:29 8854 Apr 06 13:07	18°816'02 0°用 2°用43'29 18°用43'54 0°\$ 0°\$ 0°\$ 0°\$ 6°\$ 48'56 0°\$ 18°\$552'54 0°\$ 23°\$ 49'43 0°\$ 3°\$ 13'28 7°\$16'53 6°\$57'34 0°\$ 27°\$11'45	46°35'40 1.71926 AU -0°25'53	asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct greatest brilliancy morning max el	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39 8856 Apr 09 16:33 8856 Apr 29 18:56 8856 May 12 11:51 8856 May 30 12:05 8856 Jun 21 05:27 8856 Jul 01 20:51 8856 Jul 16 21:14 8856 Jul 22 20:07 8856 Jul 23 00:28 8856 Jul 22 12:44 8856 Jul 29 04:23 8856 Jul 29 04:23 8856 Aug 12 18:55 8856 Aug 22 12:29 8856 Sep 30 10:59 8856 Sep 30 19:06 8856 Oct 29 11:26	21° 524'27 0° \$\infty\$ 0° \$\mathcal{H}\$ 0° \$\mathcal{H}\$ 0° \$\mathcal{H}\$ 0° \$\mathcal{H}\$ 0° \$\mathcal{H}\$ 13° \$\mathcal{H}\$3'22 0° \$\mathcal{G}\$ 13° \$\mathcal{G}\$17'01 0° \$\mathcal{H}\$ 15° \$\mathcal{H}\$5'55'59 11° \$\mathcal{H}\$29'22 7° \$\mathcal{H}\$56'12 7° \$\mathcal{H}\$49'28 8° \$\mathcal{H}\$07'38 4° \$\mathcal{H}\$12'12 3° \$\mathcal{H}\$30'47 0° \$\mathcal{H}\$04'43'35 0° \$\mathcal{H}\$ 0° \$\mathcal{H}\$19'26 0° \$\mathcal{G}\$	-4.9m 1°55'53 1°54'19 0.27566 AU -4.8m
desc. node morning max el asc. node morning set desc. node max. Earth dist. superior conj minimum elong	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16 8853 Sep 22 20:18 8853 Oct 18 05:57 8853 Oct 23 22:55 8853 Nov 12 05:11 8853 Dec 06 20:32 8853 Dec 31 06:13 8854 Jan 15 12:44 8854 Jan 24 11:57 8854 Feb 12 15:50 8854 Feb 12 15:50 8854 Feb 17 14:41 8854 Feb 20 10:30 8854 Feb 23 10:44 8854 Feb 23 04:33 8854 Mar 13 14:49 8854 Apr 04 07:29 8854 Apr 06 13:07 8854 Apr 30 11:12	18°816'02 0°用 2°用43'29 18°用43'54 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 18°\$552'54 0°\$ 23°\$49'43 0°\$ 3°\$H31'28 7°\$16'53 6°\$57'34 0°\$ 27°\$11'45 0°\$ 0°\$ 18°\$30'8	46°35'40 1.71926 AU -0°25'53	asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct greatest brilliancy	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39 8856 Apr 09 16:33 8856 Apr 29 18:56 8856 May 12 11:51 8856 May 30 12:05 8856 Jul 21 05:27 8856 Jul 01 20:51 8856 Jul 16 21:14 8856 Jul 22 20:07 8856 Jul 23 00:28 8856 Jul 23 00:28 8856 Jul 29 04:23 8856 Jul 29 04:23 8856 Aug 22 12:44 8856 Aug 12 18:55 8856 Aug 22 12:29 8856 Sep 30 10:59 8856 Sep 30 19:06 8856 Oct 29 11:26 8856 Nov 20 11:16	21° 524'27 0° \$\infty\$ 0° \$\text{H}\$ 0° \$\text{V}\$ 0° \$\text{H}\$ 0° \$\text{U}\$ 0° \$\text{U}\$ 0° \$\text{U}\$ 13° \$\text{U}\$49'45 15° \$\text{U}\$5'55'59 11° \$\text{U}\$29'22 7° \$\text{U}\$56'12 7° \$\text{U}\$49'28 8° \$\text{U}\$07'38 4° \$\text{U}\$12'12 3° \$\text{U}\$30'47 0° \$\text{U}\$0* \$\text{U}\$0 \$\text{U}\$11 1° \$\text{U}\$48'35 0° \$\text{U}\$ 0° \$\text{U}\$19'26 0° \$\text{L}\$ 24° \$\text{L}\$39'41	-4.9m 1°55'53 1°54'19 0.27566 AU -4.8m
desc. node morning max el asc. node morning set desc. node max. Earth dist. superior conj minimum elong	8853 Jun 09 22:25 8853 Jun 29 16:08 8853 Jul 03 00:59 8853 Jul 20 10:40 8853 Jul 31 10:57 8853 Aug 27 19:16 8853 Sep 22 20:18 8853 Oct 18 05:57 8853 Oct 23 22:55 8853 Nov 12 05:11 8853 Dec 06 20:32 8853 Dec 31 06:13 8854 Jan 15 12:44 8854 Jan 24 11:57 8854 Feb 12 15:50 8854 Feb 12 15:50 8854 Feb 17 14:41 8854 Feb 20 10:30 8854 Feb 23 10:44 8854 Feb 23 10:44 8854 Feb 23 04:33 8854 Mar 13 14:49 8854 Apr 04 07:29 8854 Apr 06 13:07	18°816'02 0°用 2°用43'29 18°用43'54 0°\$ 0°\$ 0°\$ 0°\$ 6°\$ 48'56 0°\$ 18°\$552'54 0°\$ 23°\$ 49'43 0°\$ 3°\$ 13'28 7°\$16'53 6°\$57'34 0°\$ 27°\$11'45	46°35'40 1.71926 AU -0°25'53	asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct greatest brilliancy morning max el	8855 Dec 18 17:33 8855 Dec 25 18:03 8856 Jan 19 07:23 8856 Feb 12 22:50 8856 Mar 08 19:06 8856 Apr 03 03:39 8856 Apr 09 16:33 8856 Apr 29 18:56 8856 May 12 11:51 8856 May 30 12:05 8856 Jun 21 05:27 8856 Jul 01 20:51 8856 Jul 16 21:14 8856 Jul 22 20:07 8856 Jul 23 00:28 8856 Jul 22 12:44 8856 Jul 29 04:23 8856 Jul 29 04:23 8856 Aug 12 18:55 8856 Aug 22 12:29 8856 Sep 30 10:59 8856 Sep 30 19:06 8856 Oct 29 11:26	21° 524'27 0° \$\infty\$ 0° \$\mathcal{H}\$ 0° \$\mathcal{H}\$ 0° \$\mathcal{H}\$ 0° \$\mathcal{H}\$ 0° \$\mathcal{H}\$ 13° \$\mathcal{H}\$3'22 0° \$\mathcal{G}\$ 13° \$\mathcal{G}\$17'01 0° \$\mathcal{H}\$ 15° \$\mathcal{H}\$5'55'59 11° \$\mathcal{H}\$29'22 7° \$\mathcal{H}\$56'12 7° \$\mathcal{H}\$49'28 8° \$\mathcal{H}\$07'38 4° \$\mathcal{H}\$12'12 3° \$\mathcal{H}\$30'47 0° \$\mathcal{H}\$04'43'35 0° \$\mathcal{H}\$ 0° \$\mathcal{H}\$19'26 0° \$\mathcal{G}\$	-4.9m 1°55'53 1°54'19 0.27566 AU -4.8m

	8857 Jan 14 11:53	0°る			8859 Jul 29 16:11	0∘ ट	
	8857 Feb 07 23:10	0° ≈		desc. node	8859 Aug 27 23:52	22° ഫ 00'23	
	8857 Mar 04 04:15	0° ∀		greatest brilliancy	8859 Aug 31 09:58	23° ≏ 28'47	-4.8m
desc. node	8857 Mar 12 04:11	9° ⊁ 57'41		retrograde	8859 Sep 11 08:31	25° ≏ 40'32	
	8857 Mar 28 04:59	$0^{\circ}\mathbf{\Upsilon}$		evening set	8859 Sep 28 01:51	20° ₽ 19'33	
morning set	8857 Mar 30 01:06	2° Y 18'10		inferior conj	8859 Oct 02 21:07	17° ≏ 23'10	-7°18'48
Ü	8857 Apr 21 02:49	0°8		minimum elong	8859 Oct 02 11:57	17° ≏ 37'33	7°17'17
				min. Earth dist.	8859 Oct 02 07:04	17° £ 45'11	0.28911 AU
superior conj	8857 May 09 18:40	23° 8 27'53	-1°27'37	morning rise	8859 Oct 06 22:14	14° £ 53'39	0.20711710
	•			e	8859 Oct 24 06:46		
minimum elong	8857 May 09 20:06	23° 8 32'21		direct		9° £ 11'25	4.7
max. Earth dist.	8857 May 10 10:53		1.71247 AU	greatest brilliancy	8859 Nov 03 06:16	10° ⊆ 58'57	-4.7m
	8857 May 14 23:26	0°П			8859 Dec 02 04:19	0° M ₊	
	8857 Jun 07 20:54	$0 {\circ} {f \widehat{o}}$		morning max el	8859 Dec 12 03:26	9°M11'56	45°45'27
evening rise	8857 Jun 19 06:08	14° © 14'52		asc. node	8859 Dec 18 23:11	15°M56'53	
	8857 Jul 01 21:06	$0 {\circ} \Omega$			8860 Jan 01 09:13	0° ∡ ¹	
asc. node	8857 Jul 03 01:36	1° Ω 28'43			8860 Jan 28 02:03	0°ರ	
	8857 Jul 26 01:28	0° mp			8860 Feb 22 10:58	0° ≈	
	8857 Aug 19 11:22	0∘ ⊽			8860 Mar 18 03:46	0° ∀	
	8857 Sep 13 05:05	0°M		desc. node	8860 Apr 08 16:38	26°) 33′18	
	8857 Oct 08 10:48	0° ⊼ 7		dese. node	8860 Apr 11 11:18	0°Υ	
desc. node	8857 Oct 22 20:15	16° ∡ 743'44			8860 May 05 13:15	0°8	
desc. Hode		0°중			•	0°II	
	8857 Nov 03 11:49				8860 May 29 12:29		
	8857 Dec 01 00:25	0° ≈		morning set	8860 Jun 13 23:10	19° Ⅱ 20'33	
evening max el	8857 Dec 15 13:23	14° ≈ 38′18	46°01'33		8860 Jun 22 11:31	0ංම	
	8858 Jan 01 18:22	0° ∺			8860 Jul 16 12:10	$0 {\circ} \Omega$	
greatest brilliancy	8858 Jan 24 02:15	13°) €33'32	-4.8m				
retrograde	8858 Feb 02 19:02	15° ∺ 18′06		superior conj	8860 Jul 23 04:49	8° Ω 20′13	-0°17'49
asc. node	8858 Feb 12 20:17	13°) 16′59		minimum elong	8860 Jul 23 09:03	8° £ 33′26	0°17'47
evening set	8858 Feb 17 08:02	11° ∺ 10'49		max. Earth dist.	8860 Jul 26 04:37	12° Ω 03'36	1.72243 AU
inferior conj	8858 Feb 23 14:40	7° ¥ 29'27	2°43'11	asc. node	8860 Jul 30 13:37	17° Ω 30′00	
minimum elong	8858 Feb 23 08:37	7°) (38'47			8860 Aug 09 15:16	0° m)	
min. Earth dist.	8858 Feb 23 19:37		0.27280 AU	evening rise	8860 Aug 30 08:21	25° m/38'36	
morning rise	8858 Mar 01 08:37	4°) €03'40	0.27200710	evening rise	8860 Sep 02 21:02	0ಂ ರ	
morning risc	8858 Mar 11 20:25	30°R≈			•	0° ™	
1:4		30 k∞ 29°≈34'15			8860 Sep 27 06:00	0° ∡ 7	
direct	8858 Mar 16 10:27				8860 Oct 21 19:24		
	8858 Mar 21 02:58	0° ∀	4.0		8860 Nov 15 14:53	0°る	
greatest brilliancy	8858 Mar 26 20:20	1°) ₹35'53	-4.9m	desc. node	8860 Nov 19 07:50	4° る 27'05	
	8858 May 03 12:31	0° Υ			8860 Dec 10 18:12	0° ≈	
morning max el	8858 May 05 21:50	2° Y 23'11	46°58'49		8861 Jan 05 08:06	0° ∀	
	8858 May 31 14:37	9° 8			8861 Jan 31 16:54	0 ° Υ	
desc. node	8858 Jun 04 15:20	4° 8 33'35		evening max el	8861 Feb 26 03:39	27° Ƴ 03′05	46°45'57
	8858 Jun 26 13:34	$\Pi^{\circ}0$			8861 Mar 01 03:11	$_{0\circ}$ 8	
	8858 Jul 21 17:32	0 \circ \mathfrak{S}		asc. node	8861 Mar 12 07:24	10° 8 24'50	
	8858 Aug 15 13:43	$0^{\circ}\Omega$		greatest brilliancy	8861 Apr 07 18:00	27° 8 52'52	-4.9m
	8858 Sep 09 06:18	0° m/		retrograde	8861 Apr 17 12:50	29° 8 41'46	
asc. node	8858 Sep 25 12:26	19° m) 49'26		evening set	8861 May 05 17:07	23° 8 22'40	
use. Houe	8858 Oct 03 20:13	0° <u>م</u>		inferior conj	8861 May 08 04:06	21° 8 52'37	9°12'46
	8858 Oct 03 20:13 8858 Oct 28 07:22	0° m .			•	21° 8 51'32	9°12'34
morning ast	8858 Nov 05 05:24	9°M44'19		minimum elong min. Earth dist.	8861 May 08 04:48 8861 May 08 03:00	21° 8 54'18	9°12'34 0.27133 AU
morning set					•		0.2/133 AU
	8858 Nov 21 16:05	0° ∡		morning rise	8861 May 10 16:32	20° 8 20'29	
max. Earth dist.	8858 Dec 10 09:04	23° ∡ 05′39	1.73058 AU	direct	8861 May 28 19:44	14° 8 04'40	
				greatest brilliancy	8861 Jun 07 10:17	15° 8 49'40	-4.9m
superior conj	8858 Dec 11 19:46	24° ∡ 52′50	1°10'53		8861 Jun 30 04:51	Π $\circ 0$	
minimum elong	8858 Dec 12 04:50	25° ∡ ¹20'51	1°10'51	desc. node	8861 Jul 02 03:00	1° Ⅱ 36'49	
	8858 Dec 15 23:12	8°0		morning max el	8861 Jul 18 01:10	16° Ⅲ 24'15	46°37'10
	8859 Jan 09 05:22	0° ≈			8861 Jul 31 06:02	0°ಅ	
desc. node	8859 Jan 15 05:37	7° ≈ 26′26			8861 Aug 27 10:03	$0^{\circ}\Omega$	
evening rise	8859 Jan 18 17:26	11° ≈ 45'52			8861 Sep 22 09:08	0°mp	
	8859 Feb 02 10:36	0° ∀			8861 Oct 17 17:43	0∘ ರ್ ೧.11%	
	8859 Feb 26 14:45	0°Υ		asc. node	8861 Oct 23 00:54	6° ≏ 20'10	
	8859 Mar 22 18:31	0° 8		use. Houe	8861 Nov 11 16:20	0°M	
1	8859 Apr 16 00:20	0°П 27°Посиз			8861 Dec 06 07:21	0°⊀ 0°=	
asc. node	8859 May 08 04:00	27° Ⅱ 08'13			8861 Dec 30 16:51	0°る	
	8859 May 10 12:34	0° ©		morning set	8862 Jan 13 04:27	16°る40'15	
	8859 Jun 04 14:04	0 $^{\circ}$ Ω			8862 Jan 23 22:31	0° ≈	
	8859 Jun 30 18:01	0° ™		desc. node	8862 Feb 11 17:43	23° ≈ 22'48	
evening max el	8859 Jul 23 16:12	24° m 12'08	46°13'25		8862 Feb 17 01:14	0° ∀	

max. Earth dist.	8862 Feb 17 23:07	1° ₩ 08'15	1.71964 AU	morning rise	8864 Jul 26 18:03	1° Ω 53'56	
				desc. node	8864 Jul 29 14:26	0° Ω 29'22	
superior conj	8862 Feb 20 23:54	4° ₩ 55'12	-0°22'17		8864 Jul 30 17:34	30° ₹	
minimum elong	8862 Feb 20 18:33	4°) 38′30	0°21'54	direct	8864 Aug 10 08:17	27° 5 946'02	
	8862 Mar 13 01:25	$0^{\circ}\mathbf{\Upsilon}$		greatest brilliancy	8864 Aug 20 02:56	29° 5 30'57	-4.8m
evening rise	8862 Apr 01 19:27	24° Y 45'10			8864 Aug 21 10:54	$0^{\circ}\Omega$	
	8862 Apr 05 23:50	$_{0\circ}$ 8		morning max el	8864 Sep 28 08:38	28° Ω 01'50	45°52'31
	8862 Apr 29 22:05	Π $\circ 0$			8864 Sep 30 09:31	0° m)	
	8862 May 23 22:33	0 \circ \odot			8864 Oct 29 03:07	0∘ ত	
asc. node	8862 Jun 04 15:40	14° © 32'52		asc. node	8864 Nov 19 13:18	24° ≏ 06'40	
	8862 Jun 17 04:01	$0^{\circ}\Omega$			8864 Nov 24 15:47	0° M	
	8862 Jul 11 17:47	0° m			8864 Dec 20 03:02	0° ∡	
	8862 Aug 05 21:01	0∘ ⊽			8865 Jan 13 23:19	0°ಕ	
	8862 Sep 01 00:31	0°M			8865 Feb 07 10:17	0° ≈	
desc. node	8862 Sep 24 11:00	25°M03'12			8865 Mar 03 15:13	0°) {	
	8862 Sep 29 09:47	0° ⊀ 7	45042122	desc. node	8865 Mar 11 06:05	9°) (29′29	
evening max el	8862 Oct 02 14:21	3° ∡ 706′09	45°43'22	morning set	8865 Mar 27 11:58	29°) (47'44	
1 '11'	8862 Nov 07 10:20	0°る	4.7		8865 Mar 27 15:53	0°Υ •••	
greatest brilliancy	8862 Nov 10 14:25	1°る12'41	-4.7m		8865 Apr 20 13:39	0°8	
retrograde	8862 Nov 20 07:49	2°る54'48 30°Rメ		aumariar aani	9965 May 07 06:02	2008 50145	1027145
	8862 Dec 02 12:15	•		superior conj	8865 May 07 06:02	20° 8 58'45	
evening set inferior conj	8862 Dec 07 13:52	27° ₹ 17'03 24° ₹ 45'49	7012142	minimum elong max. Earth dist.	8865 May 07 06:21	20° 8 59'46 21° 8 23'59	1.71236 AU
minimum elong	8862 Dec 11 16:07 8862 Dec 12 01:33	24 x 43 49 24° x 31'01	7°10'54	max. Earm dist.	8865 May 07 14:03 8865 May 14 10:13	0° Ⅱ	1./1230 AU
min. Earth dist.	8862 Dec 12 01:33	24 × 31 01 24° × 19'48	0.28745 AU		8865 Jun 07 07:41	0°©	
morning rise	8862 Dec 16 12:59	21° * 46'55	0.28743 AU	evening rise	8865 Jun 16 18:07	11° © 48'30	
direct	8863 Jan 02 03:10	16° × 30'06		evening rise	8865 Jul 01 07:56	0°Ω	
greatest brilliancy	8863 Jan 13 03:12	18° ∡ 43'55	-4 8m	asc. node	8865 Jul 02 03:28	1° Ω 00'49	
asc. node	8863 Jan 15 10:45	19° х 43'33	4.0111	use. Hode	8865 Jul 25 12:27	0° m)	
use. Houe	8863 Jan 31 15:54	0°ਰ			8865 Aug 18 22:37	0∘ ত مسم	
morning max el	8863 Feb 21 01:20	18° る 25'20	46°23'41		8865 Sep 12 16:51	o° m	
morning max or	8863 Mar 04 06:32	0°≈	10 23 11		8865 Oct 07 23:29	0° ⊼ 7	
	8863 Mar 31 03:22	0°) €		desc. node	8865 Oct 21 22:18	16° ∡ 10'42	
	8863 Apr 25 12:40	$0^{\circ}\mathbf{\Upsilon}$			8865 Nov 03 02:20	ರ°0	
desc. node	8863 May 07 05:09	14° Ƴ 07'00			8865 Nov 30 19:11	0° ≈	
	8863 May 20 05:38	0°8		evening max el	8865 Dec 13 02:42	12° ≈ 18'59	46°00'15
	8863 Jun 13 14:38	$\Pi^{\circ}0$		-	8866 Jan 02 07:18	0° ∀	
	8863 Jul 07 20:30	0ಂತ		greatest brilliancy	8866 Jan 21 15:41	11°) 12′13	-4.8m
	8863 Aug 01 02:04	$0^{\circ}\Omega$		retrograde	8866 Jan 31 08:15	12°) 56′50	
	8863 Aug 25 08:24	O° mp		asc. node	8866 Feb 11 22:11	10° ¥ 16'33	
morning set	8863 Aug 25 21:39	0° ™ 40'57		evening set	8866 Feb 14 20:50	8° ¥ 49'37	
asc. node	8863 Aug 28 01:55	3° Mg 22′20		inferior conj	8866 Feb 21 04:11	5° ∺ 07'34	2°20'30
	8863 Sep 18 15:26	0∘ ত		minimum elong	8866 Feb 20 22:55	5°) 15'41	2°18'58
				min. Earth dist.	8866 Feb 21 10:11	4° ¥ 58'19	0.27312 AU
superior conj	8863 Oct 02 07:53	16° £ 53′20	1°12'01	morning rise	8866 Feb 27 00:23	1° ¥ 38′52	
minimum elong	8863 Oct 01 23:09	16° ≏ 26'21	1°11'50		8866 Mar 02 05:57	30° ₹ ≈	
max. Earth dist.	8863 Oct 03 07:01	18° ≙ 04'40	1.73199 AU	direct	8866 Mar 14 00:09	27° ≈ 11'25	
	8863 Oct 12 22:58	0° M		greatest brilliancy	8866 Mar 24 11:59	29°≈15'05	-4.9m
	8863 Nov 06 07:20	0° ∡			8866 Mar 26 08:34	0°) €	
evening rise	8863 Nov 07 18:41	1° ≯ 48'46			8866 May 03 11:34	0° γ	46050140
1 1	8863 Nov 30 17:15	0°る 200 ろ 56154		morning max el	8866 May 03 12:14	0° Υ 01'39	46°58'40
desc. node	8863 Dec 17 19:32	20°₹56'54		11-	8866 May 31 06:58	0°8	
	8863 Dec 25 05:08	0° ≈ 0° ∀		desc. node	8866 Jun 03 17:16	3° 8 53'51 0° Ⅱ	
	8864 Jan 18 18:54	0° Υ			8866 Jun 26 03:25	0. 0. П	
	8864 Feb 12 10:58 8864 Mar 08 08:10	0° 8			8866 Jul 21 06:06	0°€ 0°€	
	8864 Apr 02 18:24	0°U			8866 Aug 15 01:30 8866 Sep 08 17:36	0° m)	
asc. node	8864 Apr 08 18:38	6° Ⅱ 55'14		asc. node	8866 Sep 24 14:26	0 ly 19°Mg21'47	
asc. Houc	8864 Apr 29 13:34	0°9		ase. mode	8866 Oct 03 07:11	0° ⊽	
evening max el	8864 May 10 01:31	10°954'55	46°54'27		8866 Oct 27 18:09	0° ™	
Tronning max of	8864 May 30 23:22	0°Ω	10 512/	morning set	8866 Nov 02 22:39	7°M36'35	
greatest brilliancy	8864 Jun 18 21:45	11° Ω 32'19	-4.9m		8866 Nov 21 02:48	0° ⊼ ¹	
retrograde	8864 Jun 29 10:45	13° Ω 36'36		max. Earth dist.	8866 Dec 08 05:04	21° × ⁷ 05'59	1.73084 AU
evening set	8864 Jul 14 13:20	9° Ω 08'01					
inferior conj	8864 Jul 20 10:16	5° Ω 37'42	2°18'10	superior conj	8866 Dec 09 12:28	22° ∡ ¹43'00	1°12'43
minimum elong	8864 Jul 20 15:25	5° Ω 29'43		minimum elong	8866 Dec 09 21:13	23° ∡ 10′01	1°12'43
min. Earth dist.	8864 Jul 20 04:05		0.27534 AU	3	8866 Dec 15 09:57	ರ°0	

	0067 I 00 16.12	0° ≈			8869 Jul 31 00:57	0°9	
1 1	8867 Jan 08 16:13						
desc. node	8867 Jan 14 07:27	6°≈58'24			8869 Aug 27 00:58	Ω° 0	
evening rise	8867 Jan 16 08:23	9°≈29'52			8869 Sep 21 22:11	0° Mp	
	8867 Feb 01 21:39	0°) €			8869 Oct 17 05:44	0∘ ত	
	8867 Feb 26 02:01	0° Υ		asc. node	8869 Oct 22 02:56	5° ≙ 50'39	
	8867 Mar 22 06:06	0°B			8869 Nov 11 03:45	0° M ₅	
	8867 Apr 15 12:22	0° Ⅱ			8869 Dec 05 18:27	0° ∡	
asc. node	8867 May 07 06:01	26° Ⅱ 35'57			8869 Dec 30 03:49	0° ठ	
	8867 May 10 01:17	0 \circ \odot		morning set	8870 Jan 10 20:13	14° る 26'40	
	8867 Jun 04 03:59	0 ° Ω			8870 Jan 23 09:27	0° ≈	
	8867 Jun 30 10:34	O° m y		desc. node	8870 Feb 10 19:42	22° ≈ 54'47	
evening max el	8867 Jul 21 08:04	21° m 58'49	46°15'11	max. Earth dist.	8870 Feb 15 09:19		1.72010 AU
	8867 Jul 29 17:13	0∘ ⊽			8870 Feb 16 12:13	0° ℋ	
desc. node	8867 Aug 27 01:50	20° £ 27'58					
greatest brilliancy	8867 Aug 29 00:41	21° ≙ 16′15	-4.8m	superior conj	8870 Feb 18 12:58	2°) €31'58	-0°18'38
retrograde	8867 Sep 09 01:22	23° ₽ 29'57		minimum elong	8870 Feb 18 08:28	2° 升 17'58	0°18'18
evening set	8867 Sep 25 14:47	18° ≏ 13'23			8870 Mar 12 12:30	0 ° Υ	
min. Earth dist.	8867 Sep 29 22:04	15° ≏ 36'15	0.28878 AU	evening rise	8870 Mar 30 07:04	22° Ƴ 16′07	
inferior conj	8867 Sep 30 13:12	15° ≙ 12'35	-7°07'46		8870 Apr 05 11:01	9° 8	
minimum elong	8867 Sep 30 03:44	15° ≏ 27'24	7°06'08		8870 Apr 29 09:22	Π $^{\circ}0$	
morning rise	8867 Oct 04 16:56	12° ₽ 39'32			8870 May 23 10:01	0° ©	
direct	8867 Oct 21 22:47	7° ჲ 01'23		asc. node	8870 Jun 03 17:33	14° © 02'44	
greatest brilliancy	8867 Oct 31 21:04	8° ≏ 48'16	-4.7m		8870 Jun 16 15:48	$0^{\circ}\Omega$	
· ·	8867 Dec 02 06:54	0°M			8870 Jul 11 06:06	0° m)	
morning max el	8867 Dec 09 19:50	7° ጤ 02'17	45°44'40		8870 Aug 05 10:21	0∘ <u>⊽</u>	
asc. node	8867 Dec 18 01:06	15°M11'50			8870 Aug 31 16:00	0° M	
use. Hous	8868 Jan 01 01:55	0° √		desc. node	8870 Sep 23 13:07	24°ML18'29	
	8868 Jan 27 15:54	ੈ°ਤ ਹ°ਤ		dese. Hode	8870 Sep 29 07:22	0° %	
	8868 Feb 21 23:34	0° ≈		evening max el	8870 Sep 30 05:19	0° ∡ 152'58	45°43'44
	8868 Mar 17 15:43	0° ∀		greatest brilliancy	8870 Nov 08 05:51	29° × ⁷ 02'02	
desc. node	8868 Apr 07 18:42	26°) €03'48		greatest offinaley	8870 Nov 11 15:46	0°중	-4.7111
desc. flode	8868 Apr 10 22:51	0°Υ		retrograde	8870 Nov 17 13:40	0° る 43'59	
	8868 May 05 00:33	0°8		retrograde	8870 Nov 24 01:19	30°R. ✓	
	8868 May 28 23:38	0°U		evening set	8870 Dec 05 08:24	25° ₹ 02'06	
mamina aat		16° Ⅱ 54'15		•	8870 Dec 03 08:24 8870 Dec 09 08:07		7022126
morning set	8868 Jun 11 11:31 8868 Jun 21 22:34	0°9		inferior conj		22° 尽 34'29 22° 尽 20'11	7°21'46
	8868 Jul 15 23:07	0°Ω 0 €3		minimum elong min. Earth dist.	8870 Dec 09 17:13	22°×2011 22°×709'08	0.28789 AU
	8808 Jul 13 23.07	0 86			8870 Dec 10 00:15		0.26769 AU
	0060 1 1 20 10 12	60 0 0000	0021122	morning rise	8870 Dec 14 01:47	19° 🖈 39'54	
superior conj	8868 Jul 20 18:43	6° Ω 00'07		direct	8870 Dec 30 19:14	14° 🖈 18'26	4.0
minimum elong	8868 Jul 20 23:48	6° Ω 15'54		greatest brilliancy	8871 Jan 10 19:05	16° 🗷 31'28	-4.8m
max. Earth dist.	8868 Jul 23 20:10	9° Ω 48'43	1.72198 AU	asc. node	8871 Jan 14 12:39	18° ₹ 09'40	
asc. node	8868 Jul 29 15:32	17° Ω 02'07			8871 Feb 01 02:15	0°る	
	8868 Aug 09 02:08	0° m/y		morning max el	8871 Feb 18 15:30	16° පි 06'28	46°21'53
evening rise	8868 Aug 28 00:52	23° Tp 27'50			8871 Mar 04 00:56	0° ≈	
	8868 Sep 02 07:53	0∘ ⊽			8871 Mar 30 18:07	0° ∀	
	8868 Sep 26 16:59	0°M			8871 Apr 25 01:52	0° Υ	
	8868 Oct 21 06:41	0° ∡		desc. node	8871 May 06 07:04	13° Ƴ 34'03	
	8868 Nov 15 02:42	0° ප			8871 May 19 18:00	0° 8	
desc. node	8868 Nov 18 09:48	3° る 57'12			8871 Jun 13 02:28	Π $^{\circ}0$	
	8868 Dec 10 06:53	0° ≈			8871 Jul 07 07:57	0ංම	
	8869 Jan 04 22:15	0° ∀			8871 Jul 31 13:13	$0^{\circ}\Omega$	
	8869 Jan 31 09:55	0° Υ		morning set	8871 Aug 23 13:22	28° Ω 27'24	
evening max el	8869 Feb 23 18:19	24° Ƴ 41'59	46°44'38		8871 Aug 24 19:21	0° m ∕	
	8869 Mar 01 04:14	9° 8		asc. node	8871 Aug 27 03:55	2° Mp 54'45	
asc. node	8869 Mar 11 09:31	9° 8 19'20			8871 Sep 18 02:16	0∘ ⊽	
greatest brilliancy	8869 Apr 05 06:21	25° 8 25'35	-4.9m				
retrograde	8869 Apr 15 01:56	27° 8 14'38		superior conj	8871 Sep 30 01:09	14° ≙ 45'15	1°10'10
evening set	8869 May 03 05:00	20° 8 57'08		minimum elong	8871 Sep 29 16:09	14° ≙ 17'29	1°09'57
inferior conj	8869 May 05 16:47		9°13'01	max. Earth dist.	8871 Oct 01 00:25	15° ≏ 57'00	1.73179 AU
minimum elong	8869 May 05 16:30	19° 8 26'11	9°12'51		8871 Oct 12 09:45	0°M₊	
min. Earth dist.	8869 May 05 14:58	19° 8 28'32	0.27126 AU	evening rise	8871 Nov 05 12:03	29°M41'11	
morning rise	8869 May 08 04:02	17° 8 55'17			8871 Nov 05 18:10	0° ∡ ¹	
direct	8869 May 26 09:00	11° 8 38'03			8871 Nov 30 04:14	0°ರ	
greatest brilliancy	8869 Jun 04 22:10	13° 8 22'01	-4.9m	desc. node	8871 Dec 16 21:26	20° る 28'33	
	8869 Jun 30 14:45	$\Pi^{\circ}0$			8871 Dec 24 16:24	0° ≈	
desc. node	8869 Jul 01 04:56	0°Ⅱ30′42			8872 Jan 18 06:37	0°) €	
morning max el	8869 Jul 15 14:49	14° Ⅱ 01'18	46°38'38		8872 Feb 11 23:22	$0^{\circ}\mathbf{\Upsilon}$	

	9972 M 07 21-26	ر. د			0074 A 14 12-10	000	
	8872 Mar 07 21:36	0° 8			8874 Aug 14 13:19	0° N	
	8872 Apr 02 09:41	0°II			8874 Sep 08 04:53	0° m	
asc. node	8872 Apr 07 20:35	6° Ⅱ 15′18		asc. node	8874 Sep 23 16:26	18° m 54'14	
	8872 Apr 29 09:12	0			8874 Oct 02 18:06	0∘ ত	
evening max el	8872 May 07 14:30	8° © 29'46	46°55'06		8874 Oct 27 04:51	0°M₊	
	8872 May 31 15:18	$0 {\circ} \Omega$		morning set	8874 Oct 31 15:51	5° ™ 29'01	
greatest brilliancy	8872 Jun 16 13:49	9° Ω 13'01	-4.9m		8874 Nov 20 13:24	0° ∡	
retrograde	8872 Jun 27 00:35	11° Ω 15'50		max. Earth dist.	8874 Dec 06 01:36	19° ∡ 08′23	1.73106 AU
evening set	8872 Jul 12 05:25	6° Ω 44'45					
inferior conj	8872 Jul 18 00:16	3° Ω 17'44	2°40'16	superior conj	8874 Dec 07 05:20	20° ∡ ³34′00	1°14'26
minimum elong	8872 Jul 18 06:11	3° Ω 08'34	2°38'15	minimum elong	8874 Dec 07 13:43	20° ∡ 59'55	1°14'29
min. Earth dist.	8872 Jul 17 19:21	3° Ω 25′20	0.27500 AU	Ü	8874 Dec 14 20:34	8°0	
	8872 Jul 23 12:50	30°Rூ			8875 Jan 08 02:58	0°≈	
morning rise	8872 Jul 24 07:24	29° © 34'43		desc. node	8875 Jan 13 09:29	6° ≈ 31'25	
desc. node	8872 Jul 28 16:26	27° © 30'40		evening rise	8875 Jan 13 23:40	7°≈15'18	
direct		27 \$3040 25°\$26'17		evening rise	8875 Feb 01 08:32	0° ∺	
	8872 Aug 07 21:16	23 3 2017 27° 3 12'24	-4.8m			0°Υ	
greatest brilliancy	8872 Aug 17 17:31		-4.6111		8875 Feb 25 13:06		
	8872 Aug 24 03:32	0°N	45052145		8875 Mar 21 17:28	0° 8	
morning max el	8872 Sep 25 22:29	25° Ω 44'17	45°53'45		8875 Apr 15 00:11	0°II	
	8872 Sep 30 07:23	0° m		asc. node	8875 May 06 07:55	26° ∏ 03'57	
	8872 Oct 28 18:42	0∘ ত			8875 May 09 13:50	0°€	
asc. node	8872 Nov 18 15:06	23° £ 32′50			8875 Jun 03 17:52	$0 {\circ} \mathcal{N}$	
	8872 Nov 24 05:00	0°M			8875 Jun 30 03:19	0° m	
	8872 Dec 19 15:07	0° ∡ ¹		evening max el	8875 Jul 19 00:30	19° ™ 46'54	46°16'41
	8873 Jan 13 10:47	5°0			8875 Jul 29 19:38	0∘ ⊽	
	8873 Feb 06 21:27	0° ≈		desc. node	8875 Aug 26 03:57	18° ≏ 52'13	
	8873 Mar 03 02:14	0° ∀		greatest brilliancy	8875 Aug 26 15:43	19° ≏ 03'46	-4.8m
desc. node	8873 Mar 10 08:09	9°)(01'43		retrograde	8875 Sep 06 18:03	21° ≏ 18'38	
morning set	8873 Mar 24 23:11	27°) 18'15		evening set	8875 Sep 23 03:36	16° ≏ 06'52	
morning sec	8873 Mar 27 02:51	0°Υ		min. Earth dist.	8875 Sep 27 12:52	13° Ω 26'51	0.28838 AU
	8873 Apr 20 00:36	0°8		inferior conj	8875 Sep 28 05:03	13° ⊆ 2031	
	8873 Apr 20 00.30	00		,	•	13° 2 01'33	6°54'19
	0072 M 04 17-14	100 🗸 20127	1027142	minimum elong	8875 Sep 27 19:21		0 34 19
superior conj	8873 May 04 17:14	18° 8 28'37		morning rise	8875 Oct 02 11:26	10° £ 24'49	
minimum elong	8873 May 04 16:27	18° 8 26'12		direct	8875 Oct 19 14:52	4° Ω 51'11	
max. Earth dist.	8873 May 04 18:13		1.71237 AU	greatest brilliancy	8875 Oct 29 11:15	6° Ω 36'50	-4.7m
	8873 May 13 21:11	Π °0			8875 Dec 02 07:52	0°M₊	
	8873 Jun 06 18:39	0		morning max el	8875 Dec 07 11:38	4° ጤ 51'51	45°44'00
evening rise	8873 Jun 14 05:37	9° © 20'02		asc. node	8875 Dec 17 03:07	14°M28'22	
	8873 Jun 30 18:58	$0 {\circ} \Omega$			8875 Dec 31 18:01	0° ∡	
asc. node	8873 Jul 01 05:24	0° Ω 32'29			8876 Jan 27 05:20	8°0	
	8873 Jul 24 23:36	0° m			8876 Feb 21 11:48	0° ≈	
	8873 Aug 18 10:01	0∘ ⊽			8876 Mar 17 03:19	0°) €	
	8873 Sep 12 04:44	0°M		desc. node	8876 Apr 06 20:35	25°) 34'47	
	8873 Oct 07 12:19	0° ∡ ″			8876 Apr 10 10:04	0° Y	
desc. node	8873 Oct 21 00:15	15° ∡ ³37'03			8876 May 04 11:31	0°8	
	8873 Nov 02 17:03	0°る			8876 May 28 10:26	0°П	
	8873 Nov 30 14:27	0° ≈		morning set	8876 Jun 09 00:09	14° ∏ 29'57	
evening max el	8873 Dec 10 17:04	10°≈02'43	45°59'08	morning sec	8876 Jun 21 09:15	0°95	
evening max er	8874 Jan 03 00:19	0°) €	43 37 00		8876 Jul 15 09:44	$0^{\circ}\Omega$	
areatest brillians;	8874 Jan 19 04:57	8°) 51′51	-4.8m		8870 Jul 13 09.44	0 06	
greatest brilliancy		10°\(\frac{1}{36}\)'59	-4.0111		8876 Jul 18 08:39	20 0 40/57	0924152
retrograde	8874 Jan 28 22:17			superior conj		3° Ω 40'57	
asc. node	8874 Feb 11 00:14	7°) 13′26		minimum elong	8876 Jul 18 14:31	3° Ω 59'14	
evening set	8874 Feb 12 10:15	6°) €29'40		max. Earth dist.	8876 Jul 21 13:33		1.72158 AU
inferior conj	8874 Feb 18 18:01			asc. node	8876 Jul 28 17:36	16° Ω 35'37	
minimum elong	8874 Feb 18 13:33		1°56'36		8876 Aug 08 12:42	0° m y	
min. Earth dist.	8874 Feb 19 00:40	2° 升 36'48	0.27345 AU	evening rise	8876 Aug 25 17:10	21° Mp 17'05	
	8874 Feb 23 08:53	30°R ≈			8876 Sep 01 18:30	0∘ ⊽	
morning rise	8874 Feb 24 16:17	29° ≈ 15'49			8876 Sep 26 03:45	0°M	
direct	8874 Mar 11 14:41	24° ≈ 50′13			8876 Oct 20 17:45	0° ∡ ″	
greatest brilliancy	8874 Mar 22 03:16	26° ≈ 55'07	-4.9m		8876 Nov 14 14:16	ರ°ರ	
•	8874 Mar 28 16:43	0°)		desc. node	8876 Nov 17 11:42	3° ⋜ 28′01	
morning max el	8874 May 01 03:21	27°) 42'40	46°58'11		8876 Dec 09 19:18	0° ≈	
2	00/4 May 01 05.21						
	•	$_0$ ° γ			8877 Jan 04 12:10	0° ₩	
	8874 May 03 09:29	0° Y			8877 Jan 04 12:10 8877 Jan 31 02:50	0° Υ 0° Υ	
desc. node	8874 May 03 09:29 8874 May 30 22:56	0° Β 0° Υ		evening max el	8877 Jan 31 02:50	0 ° Υ	46°43'16
desc. node	8874 May 03 09:29 8874 May 30 22:56 8874 Jun 02 19:12	0°Υ 0°႘ 3°႘14'46		evening max el	8877 Jan 31 02:50 8877 Feb 21 08:27	0° Υ 22° Υ 20'48	46°43'16
desc. node	8874 May 03 09:29 8874 May 30 22:56	0° Β 0° Υ		evening max el	8877 Jan 31 02:50	0 ° Υ	46°43'16

greatest brilliancy	8877 Apr 02 19:30	23° 8 00'54	-4 9m	superior conj	8879 Sep 27 18:34	12° ≏ 38'55	1°08'14
retrograde	8877 Apr 12 14:45	24° 8 49'25	-4.7111	minimum elong	8879 Sep 27 18:34	12° ⊆ 10′26	1°07'59
evening set	8877 Apr 30 16:32	18° 8 34'41		max. Earth dist.	8879 Sep 28 17:58	13° ⊆ 51'04	1.73163 AU
inferior conj	8877 May 03 05:44	17° 8 00'59	9°12'17	max. Earth dist.	8879 Oct 11 20:09	0°M	1.75105710
minimum elong	8877 May 03 04:25	17° 8 03'00	9°12'06	evening rise	8879 Nov 03 05:32	27°MJ35'06	
min. Earth dist.	8877 May 03 03:28	17° 8 04'28	0.27116 AU	evening rise	8879 Nov 05 04:39	0° √	
morning rise	8877 May 05 05:28	15° 8 31'16	0.27110710		8879 Nov 29 14:55	0°ਤ	
direct	8877 May 23 22:02	9° 8 13'36		desc. node	8879 Dec 15 23:28	00 20° ろ 01'25	
greatest brilliancy	8877 Jun 02 10:45	10° 8 56'57	-4.9m	dese. Hode	8879 Dec 24 03:24	0° ≈	
desc. node	8877 Jun 30 06:57	29° 8 28'12	4.7111		8880 Jan 17 18:06	0° ₩	
dese. Hode	8877 Jun 30 21:15	0°II			8880 Feb 11 11:31	0° Υ	
morning max el	8877 Jul 13 03:29	11° I I37'26	46°40'03		8880 Mar 07 10:48	0°8	
morning max ci	8877 Jul 30 18:49	0°95	40 40 03		8880 Apr 02 00:49	0°II	
	8877 Aug 26 15:12	0°Ω		asc. node	8880 Apr 06 22:30	5° Ⅱ 35'57	
	8877 Sep 21 10:45	0°m)		asc. node	8880 Apr 29 05:00	ა π ააა/	
	8877 Oct 16 17:21	0∘ ত الله		evening max el	8880 May 05 03:29	6°905'47	16°55'16
asc. node	8877 Oct 21 04:45	ა = 5° ჲ 21'39		evening max ci	8880 Jun 01 12:06	0°Ω	40 33 40
asc. node		0°M		arrantant brillianas	8880 Jun 14 05:15	6° Ω 53'50	-4.9m
	8877 Nov 10 14:50	0°11℃ 0° √ 7		greatest brilliancy			-4.9m
	8877 Dec 05 05:13			retrograde	8880 Jun 24 14:46	8° Ω 56'04	
. ,	8877 Dec 29 14:25	0°る		evening set	8880 Jul 09 21:34	4° Ω 21'54	200211.5
morning set	8878 Jan 08 11:55	12° る 14'01		inferior conj	8880 Jul 15 14:11	0° Ω 58'25	3°02'15
	8878 Jan 22 20:00	0° ≈		minimum elong	8880 Jul 15 20:51	0° Ω 48'08	3°00'01
desc. node	8878 Feb 09 21:42	22°≈28'06	1 50055 1 11	min. Earth dist.	8880 Jul 15 10:16	1° Ω 04'28	0.27471 AU
max. Earth dist.	8878 Feb 12 20:46	26°≈09'23	1.72055 AU		8880 Jul 17 04:10	30°R≌	
	8878 Feb 15 22:47	0°) €		morning rise	8880 Jul 21 20:29	27°516'44	
				desc. node	8880 Jul 27 18:30	24° © 37'30	
superior conj	8878 Feb 16 02:08	0°) 10′28		direct	8880 Aug 05 10:22	23° © 07'04	
minimum elong	8878 Feb 15 22:32	29° ≈ 59'13	0°14'40	greatest brilliancy	8880 Aug 15 07:48	24°954'23	-4.8m
behind sun begin	8878 Feb 15 12:04	29° ≈ 26'36			8880 Aug 25 19:06	$0^{\circ}\Omega$	
behind sun end	8878 Feb 16 09:00	0°) 31′50		morning max el	8880 Sep 23 13:08	23° Ω 29'38	45°55'06
	8878 Mar 11 23:09	0° Υ			8880 Sep 30 04:02	0° ™	
evening rise	8878 Mar 27 18:55	19° Ƴ 49'07			8880 Oct 28 09:41	0∘ ಹ	
	8878 Apr 04 21:47	0°8		asc. node	8880 Nov 17 17:10	23° ♀ 00'57	
	8878 Apr 28 20:17	Π °0			8880 Nov 23 17:48	0° M	
	8878 May 22 21:05	0 \circ \odot			8880 Dec 19 02:53	0° ∡ ¹	
asc. node	8878 Jun 02 19:32	13° © 34'11			8881 Jan 12 22:02	0°ಕ	
	8878 Jun 16 03:10	$0 ^{\circ} \Omega$			8881 Feb 06 08:26	0° ≈	
	8878 Jul 10 18:01	0° m p			8881 Mar 02 13:05	0° ∀	
	8878 Aug 04 23:19	0∘ ত		desc. node	8881 Mar 09 10:02	8° ¥ 33'55	
	8878 Aug 31 07:16	0° M		morning set	8881 Mar 22 10:15	24° ∺ 48'58	
desc. node	8878 Sep 22 15:01	23°M33'38			8881 Mar 26 13:37	0° Y	
evening max el	8878 Sep 27 19:21	28°M38'31	45°43'56		8881 Apr 19 11:19	$_{0\circ}$ 8	
	8878 Sep 29 05:23	0° ∡ 7					
greatest brilliancy	8878 Nov 05 21:05	26° ₹ 51'43	-4.7m	superior conj	8881 May 02 04:11	15° 8 58'28	-1°27'31
retrograde	8878 Nov 15 13:42	28° ⋌ 33'53		minimum elong	8881 May 02 02:19	15° 8 52'36	1°27'41
evening set	8878 Dec 03 02:41	22° ∡ ⁴47'44		max. Earth dist.	8881 May 02 01:45	15° 8 50'48	1.71237 AU
inferior conj	8878 Dec 06 23:59	20° х 23′46	-7°33'31		8881 May 13 07:53	$\Pi^{\circ}0$	
minimum elong	8878 Dec 07 08:42	20° ∡ 10′04	7°32'01		8881 Jun 06 05:24	0ං ම	
min. Earth dist.	8878 Dec 07 15:47	19° ∡ 58'56	0.28832 AU	evening rise	8881 Jun 11 17:04	6° © 52'09	
morning rise	8878 Dec 11 14:26	17° ∡ ³33'44		asc. node	8881 Jun 30 07:27	0° Ω 05'11	
direct	8878 Dec 28 10:50	12° ∡ 07'13			8881 Jun 30 05:48	0 $^{\circ}$ Ω	
greatest brilliancy	8879 Jan 08 11:21	14° ∡ °20′16	-4.8m		8881 Jul 24 10:34	0° m y	
asc. node	8879 Jan 13 14:44	16° ∡ 741'04			8881 Aug 17 21:14	0∘ 亚	
	8879 Feb 01 09:26	0°ප			8881 Sep 11 16:26	0° M	
morning max el	8879 Feb 16 05:44	13° る 48'48	46°20'18		8881 Oct 07 00:59	0° ∡ ¹	
	8879 Mar 03 18:31	0° ≈		desc. node	8881 Oct 20 02:13	15° ∡ '03'59	
	8879 Mar 30 08:16	0°) €			8881 Nov 02 07:44	5°0	
	8879 Apr 24 14:34	$0^{\circ}\Upsilon$			8881 Nov 30 10:07	0° ≈	
desc. node	8879 May 05 08:57	13° Y 02'31		evening max el	8881 Dec 08 08:00	7° ≈ 48'27	45°57'50
	8879 May 19 05:54	9° 8			8882 Jan 03 23:15	0° ∀	
	8879 Jun 12 13:51	$\Pi^{\circ}0$		greatest brilliancy	8882 Jan 16 17:52	6° ∺ 31'13	-4.8m
	8879 Jul 06 18:57	0 \circ \odot		retrograde	8882 Jan 26 12:07	8° ¥ 16′38	
	8879 Jul 30 23:57	$0^{\circ}\Omega$		evening set	8882 Feb 09 23:43	4° ₩ 09'13	
morning set	8879 Aug 21 05:17	26° Ω 15'38		asc. node	8882 Feb 10 02:13	4° 米 05′52	
	8879 Aug 24 05:52	0° m		inferior conj	8882 Feb 16 07:37	0° ¥ 26′03	1°34'57
asc. node	8879 Aug 26 05:51	2°M 28'17		minimum elong	8882 Feb 16 04:00	0° ∺ 31'37	1°33'56
	8879 Sep 17 12:41	0∘ ⊽		min. Earth dist.	8882 Feb 16 14:48	0°) 14′58	0.27380 AU

	8882 Feb 17 00:32	30° ₹ ≈			8884 Sep 01 05:20	0∘ ত	
morning rise	8882 Feb 22 07:48	26°≈52'23			8884 Sep 25 14:44	0°M.	
direct	8882 Mar 09 05:23	20 ≈32 23 22°≈28'41			8884 Oct 20 05:03	0° ⊼ ¹	
greatest brilliancy	8882 Mar 19 17:55	24°≈34'00	-4.9m		8884 Nov 14 02:06	0°ਰ	
greatest orimancy	8882 Mar 30 05:04	0° ∺	- 4 .7III	desc. node	8884 Nov 16 13:46	2°る58'34	
morning max el	8882 Apr 28 18:22	25° ¥ 23'22	46°57'42	dese. Hode	8884 Dec 09 08:00	0° ≈	
morning max cr	8882 May 03 06:37	0°Υ	40 37 42		8885 Jan 04 02:25	0° ∀	
	8882 May 30 14:36	0°8			8885 Jan 30 20:20	0° Υ	
desc. node	8882 Jun 01 21:17	2° 8 36'40		evening max el	8885 Feb 18 21:26	19° Ƴ 56'11	46°41'46
***************************************	8882 Jun 25 06:37	0°II		* · · · · · · · · · · · · · · · · · · ·	8885 Mar 01 09:42	0°8	
	8882 Jul 20 06:59	0°©		asc. node	8885 Mar 09 13:22	7° 8 04'26	
	8882 Aug 14 00:58	$0^{\circ}\Omega$		greatest brilliancy	8885 Mar 31 08:53	20° 8 35'27	-4.9m
	8882 Sep 07 16:03	0° m/y		retrograde	8885 Apr 10 03:02	22° 8 23'04	
asc. node	8882 Sep 22 18:16	18° m) 26'24		evening set	8885 Apr 28 03:17	16° 8 11'57	
	8882 Oct 02 04:57	0∘ <u>v</u>		inferior conj	8885 Apr 30 18:35	14° 8 35'01	9°10'28
	8882 Oct 26 15:28	0°M		minimum elong	8885 Apr 30 16:17	14° 8 38'35	9°10'14
morning set	8882 Oct 29 09:15	3°M22'15		min. Earth dist.	8885 Apr 30 16:15	14° 8 38'37	0.27112 AU
	8882 Nov 19 23:57	0° ∡ ¹		morning rise	8885 May 03 05:18	13° 8 05'03	
max. Earth dist.	8882 Dec 03 21:56	17° ∡ 10′23	1.73124 AU	direct	8885 May 21 10:29	6° 8 47'33	
				greatest brilliancy	8885 May 30 23:59	8° 8 31'07	-4.9m
superior conj	8882 Dec 04 22:25	18° ∡ 25'59	1°16'03	desc. node	8885 Jun 29 08:58	28° 8 25'51	
minimum elong	8882 Dec 05 06:24	18° ∡ 50'38	1°16'06		8885 Jul 01 02:16	$\Pi^{\circ}0$	
C	8882 Dec 14 07:09	გ∘ე		morning max el	8885 Jul 10 15:34	9° Ⅱ 10′25	46°41'32
	8883 Jan 07 13:40	0° ≈		Č	8885 Jul 30 12:43	0°ಅ	
evening rise	8883 Jan 11 15:02	5° ≈ 01'08			8885 Aug 26 05:40	$\mathfrak{O}^{\circ} \mathfrak{O}$	
desc. node	8883 Jan 12 11:29	6°≈04'23			8885 Sep 20 23:33	0° m)	
	8883 Jan 31 19:26	0° ∀			8885 Oct 16 05:14	0∘ ⊽	
	8883 Feb 25 00:16	0 ° Υ		asc. node	8885 Oct 20 06:47	4° ♀ 52'27	
	8883 Mar 21 04:59	0°8			8885 Nov 10 02:11	0° M .	
	8883 Apr 14 12:10	$\Pi^{\circ}0$			8885 Dec 04 16:16	0° ∡ ¹	
asc. node	8883 May 05 09:55	25° Ⅲ 31'47			8885 Dec 29 01:19	0°ಕ	
	8883 May 09 02:34	0 \circ 20		morning set	8886 Jan 06 03:52	10° ට 01'14	
	8883 Jun 03 07:58	$\mathfrak{O}^{\circ}\mathfrak{O}$			8886 Jan 22 06:50	0° ≈	
	0000 X 00 00 00	00.00					
	8883 Jun 29 20:29	0° m y		desc. node	8886 Feb 08 23:35	22° ≈ 00'09	
evening max el	8883 Jun 29 20:29 8883 Jul 16 16:45	บ° แม 17° Mp 34'15	46°18'16	desc. node max. Earth dist.	8886 Feb 08 23:35 8886 Feb 10 10:43		1.72099 AU
evening max el			46°18'16				1.72099 AU
evening max el greatest brilliancy	8883 Jul 16 16:45	17° m 34'15	46°18'16 -4.8m				
-	8883 Jul 16 16:45 8883 Jul 29 23:47	17° ™ 34'15 0° ≏		max. Earth dist.	8886 Feb 10 10:43	23° ≈ 49'34	
greatest brilliancy	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23	17° № 34'15 0° <u>Ω</u> 16° <u>Ω</u> 51'46		max. Earth dist.	8886 Feb 10 10:43 8886 Feb 13 15:42	23°≈49'34 27°≈49'17	-0°11'21
greatest brilliancy desc. node	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50	17° № 34'15 0° Ω 16° Ω 51'46 17° Ω 12'39		max. Earth dist. superior conj minimum elong	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38	-0°11'21
greatest brilliancy desc. node retrograde	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19	17° ൂ 34'15 0° മ 16° മ 51'46 17° മ 12'39 19° മ 06'53 14° മ 00'02 11° മ 16'46	-4.8m 0.28794 AU	max. Earth dist. superior conj minimum elong behind sun begin	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° €	-0°11'21
greatest brilliancy desc. node retrograde evening set	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31	17° എ 34'15 0° ഇ 16° ഇ 51'46 17° ഇ 12'39 19° ഇ 06'53 14° ഇ 00'02	-4.8m 0.28794 AU	max. Earth dist. superior conj minimum elong behind sun begin behind sun end	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° 升 0° Υ′	-0°11'21
greatest brilliancy desc. node retrograde evening set min. Earth dist.	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56	17° ൂ 34'15 0° മ 16° മ 51'46 17° മ 12'39 19° മ 06'53 14° മ 00'02 11° മ 16'46	-4.8m 0.28794 AU -6°43'47	max. Earth dist. superior conj minimum elong behind sun begin	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° ¥ 0° ♀ 17°♀22'37	-0°11'21
greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 30 05:56	17° m 34'15 0° Ω 16° Ω 51'46 17° Ω 12'39 19° Ω 06'53 14° Ω 00'02 11° Ω 16'46 10° Ω 50'14 11° Ω 05'42 8° Ω 09'37	-4.8m 0.28794 AU -6°43'47	max. Earth dist. superior conj minimum elong behind sun begin behind sun end	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° ₩ 0° ₩ 17° ₩ 22'37 0° ₩	-0°11'21
greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 30 05:56 8883 Oct 17 06:58	17° \$\mathbb{n}\$34'15 0° \omega\$ 16° \omega 51'46 17° \omega 12'39 19° \omega 06'53 14° \omega 00'02 11° \omega 16'46 10° \omega 50'14 11° \omega 05'42	-4.8m 0.28794 AU -6°43'47 6°41'53	max. Earth dist. superior conj minimum elong behind sun begin behind sun end	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 28 07:30	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0°¥ 0°Y 17°Y22'37 0°B 0°II	-0°11'21
greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 30 05:56 8883 Oct 17 06:58 8883 Oct 27 01:24	17° \$\mathbb{n}\$34'15 0° \omega\$ 16° \omega 51'46 17° \omega 12'39 19° \omega 06'53 14° \omega 00'02 11° \omega 16'46 10° \omega 50'14 11° \omega 09'37 2° \omega 40'48 4° \omega 24'58	-4.8m 0.28794 AU -6°43'47	max. Earth dist. superior conj minimum elong behind sun begin behind sun end evening rise	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 28 07:30 8886 May 22 08:32	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0°¥ 0°Y 17°Y22'37 0°℧ 0°Ⅱ 0°巠	-0°11'21
greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 30 05:56 8883 Oct 17 06:58 8883 Oct 27 01:24 8883 Dec 02 07:44	17° \$\mathbb{n} 34'15 0° \oldsymbol{\Omega} 16° \oldsymbol{\Omega} 51'46 17° \oldsymbol{\Omega} 12'39 19° \oldsymbol{\Omega} 06'53 14° \oldsymbol{\Omega} 00'02 11° \oldsymbol{\Omega} 16'46 10° \oldsymbol{\Omega} 50'14 11° \oldsymbol{\Omega} 05'42 8° \oldsymbol{\Omega} 09'37 2° \oldsymbol{\Omega} 40'48 4° \oldsymbol{\Omega} 24'58 0° \$\mathbb{M}\$.	-4.8m 0.28794 AU -6°43'47 6°41'53 -4.7m	max. Earth dist. superior conj minimum elong behind sun begin behind sun end	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 28 07:30 8886 May 22 08:32 8886 Jun 01 21:34	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0°¥ 0°Y 17°Y22'37 0°℧ 0°Ⅱ 0°© 13°©04'34	-0°11'21
greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 30 05:56 8883 Oct 17 06:58 8883 Oct 27 01:24 8883 Dec 02 07:44 8883 Dec 05 02:35	17° \$\mathbb{n} 34'15 0° \omega\$ 16° \omega 51'46 17° \omega 12'39 19° \omega 06'53 14° \omega 00'02 11° \omega 16'46 10° \omega 50'14 11° \omega 05'42 8° \omega 09'37 2° \omega 40'48 4° \omega 24'58 0° \$\mathbb{m}\$ 2° \$\mathbb{m}\$ 39'10	-4.8m 0.28794 AU -6°43'47 6°41'53	max. Earth dist. superior conj minimum elong behind sun begin behind sun end evening rise	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 28 07:30 8886 May 22 08:32 8886 Jun 01 21:34 8886 Jun 15 14:58	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° ₩ 0° Ψ 17° Ψ22'37 0° ₩ 0° Ш 0° © 13° © 04'34 0° Ω	-0°11'21
greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 30 05:56 8883 Oct 17 06:58 8883 Oct 27 01:24 8883 Dec 02 07:44 8883 Dec 05 02:35 8883 Dec 16 05:07	17° \$\mathbb{n} 34'15 0° \omega\$ 16° \omega 51'46 17° \omega 12'39 19° \omega 06'53 14° \omega 00'02 11° \omega 16'46 10° \omega 50'14 11° \omega 05'42 8° \omega 09'37 2° \omega 40'48 4° \omega 24'58 0° \$\mathbb{m}\$ 2° \$\mathbb{m}\$ 39'10 13° \$\mathbb{m}\$ 45'13	-4.8m 0.28794 AU -6°43'47 6°41'53 -4.7m	max. Earth dist. superior conj minimum elong behind sun begin behind sun end evening rise	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 28 07:30 8886 May 22 08:32 8886 Jun 01 21:34 8886 Jun 15 14:58 8886 Jul 10 06:25	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° ¥ 0° ¥ 0° ¥ 13° \$\text{0}\$ 13° \$\text{0}\$ 0° \$\text{0}\$	-0°11'21
greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 30 05:56 8883 Oct 17 06:58 8883 Oct 27 01:24 8883 Dec 02 07:44 8883 Dec 05 02:35 8883 Dec 16 05:07 8883 Dec 31 09:56	17° M 34'15 0° Ω 16° Ω 51'46 17° Ω 12'39 19° Ω 06'53 14° Ω 00'02 11° Ω 16'46 10° Ω 50'14 11° Ω 05'42 8° Ω 09'37 2° Ω 40'48 4° Ω 24'58 0° M 2° M 39'10 13° M 45'13 0° ズ	-4.8m 0.28794 AU -6°43'47 6°41'53 -4.7m	max. Earth dist. superior conj minimum elong behind sun begin behind sun end evening rise	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 28 07:30 8886 May 22 08:32 8886 Jun 01 21:34 8886 Jun 15 14:58 8886 Jul 10 06:25 8886 Aug 04 12:51	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° ¥ 0° Y 17°Y'22'37 0° \$\mathred{\text{0}} 13°\$\mathred{\text{0}} 0°\$\mathred{\text{0}} 0°\$\mathred{\text{0}} 0°\$\mathred{\text{0}} 0°\$\mathred{\text{0}} 0°\$\mathred{\text{0}} 0°\$\mathred{\text{0}} 0°\$\mathred{\text{0}} 0°\$\mathred{\text{0}} 0°\$\mathred{\text{0}} 0°\$\mathred{\text{0}}	-0°11'21
greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 30 05:56 8883 Oct 17 06:58 8883 Oct 27 01:24 8883 Dec 02 07:44 8883 Dec 05 02:35 8883 Dec 16 05:07 8883 Dec 31 09:56 8884 Jan 26 18:44	17° ് 34'15 0° മ 16° മ51'46 17° മ12'39 19° മ06'53 14° മ00'02 11° മ16'46 10° മ50'14 11° മ05'42 8° മ09'37 2° മ40'48 4° മ24'58 0° ് M. 2° M.39'10 13° M.45'13 0° 🏅 0° 🕇	-4.8m 0.28794 AU -6°43'47 6°41'53 -4.7m	max. Earth dist. superior conj minimum elong behind sun begin behind sun end evening rise asc. node	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 28 07:30 8886 May 22 08:32 8886 Jun 01 21:34 8886 Jun 15 14:58 8886 Jul 10 06:25 8886 Aug 04 12:51 8886 Aug 30 23:14	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° ¥ 0° Y 17°Y'22'37 0° \$\mathred{\text{0}} 13°\$04'34 0°\$\mathred{\text{0}} 0°\$\mathred{\text{m}} 0°\$\mathred{\text{0}} 0°\$\mathred{\text{m}} 0°\$\mathred{\text{0}} 0°\$\mathred{\text{m}} 0°\$\mathred{\text{0}} 0°\$\mathred{\text{m}} 0°\$\mathred{\text{m}} 0°\$\mathred{\text{m}}	-0°11'21
greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 30 05:56 8883 Oct 17 06:58 8883 Oct 27 01:24 8883 Dec 02 07:44 8883 Dec 05 02:35 8883 Dec 16 05:07 8883 Dec 31 09:56 8884 Jan 26 18:44 8884 Feb 21 00:05	17° № 34'15 0° Ω 16° Ω 51'46 17° Ω 12'39 19° Ω 06'53 14° Ω 00'02 11° Ω 16'46 10° Ω 50'14 11° Ω 05'42 8° Ω 09'37 2° Ω 40'48 4° Ω 24'58 0° № 2° № 39'10 13° № 45'13 0° 🗷 0° 줍 0° 🌣	-4.8m 0.28794 AU -6°43'47 6°41'53 -4.7m	max. Earth dist. superior conj minimum elong behind sun begin behind sun end evening rise asc. node	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 28 07:30 8886 May 22 08:32 8886 Jun 01 21:34 8886 Jun 15 14:58 8886 Jul 10 06:25 8886 Aug 04 12:51 8886 Aug 30 23:14 8886 Sep 21 17:00	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° ¥ 0° Y 17° Y 22'37 0° S 0° II 0° © 13° © 04'34 0° Ω 0° M 0° Ω 0° M 22° M 47'12	-0°11'21 0°11'03
greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 30 05:56 8883 Oct 17 06:58 8883 Oct 27 01:24 8883 Dec 02 07:44 8883 Dec 02 07:44 8883 Dec 05 02:35 8883 Dec 16 05:07 8883 Dec 16 05:07 8883 Dec 31 09:56 8884 Jan 26 18:44 8884 Feb 21 00:05 8884 Mar 16 15:02	17° № 34'15 0° Ω 16° Ω 51'46 17° Ω 12'39 19° Ω 06'53 14° Ω 00'02 11° Ω 16'46 10° Ω 50'14 11° Ω 05'42 8° Ω 09'37 2° Ω 40'48 4° Ω 24'58 0° № 2° № 39'10 13° № 45'13 0° ズ 0° ♂ 0° ≈ 0° ★	-4.8m 0.28794 AU -6°43'47 6°41'53 -4.7m	max. Earth dist. superior conj minimum elong behind sun begin behind sun end evening rise asc. node	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 04 08:51 8886 Apr 28 07:30 8886 May 22 08:32 8886 Jun 01 21:34 8886 Jun 15 14:58 8886 Jul 10 06:25 8886 Aug 04 12:51 8886 Aug 04 12:51 8886 Aug 30 23:14 8886 Sep 21 17:00 8886 Sep 25 09:12	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° ¥ 0° Y 17° Y 22'37 0° S 0° II 0° © 13°©04'34 0° Ω 0° IN 0° Ω 0° IN 22° IL 47'12 26° IL 22'33	-0°11'21
greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 30 05:56 8883 Oct 17 06:58 8883 Oct 27 01:24 8883 Dec 02 07:44 8883 Dec 02 07:44 8883 Dec 05 02:35 8883 Dec 16 05:07 8883 Dec 16 05:07 8883 Dec 31 09:56 8884 Jan 26 18:44 8884 Feb 21 00:05 8884 Mar 16 15:02 8884 Apr 05 22:30	17° № 34'15 0° 亞 16° 亞 51'46 17° 亞 12'39 19° 亞 06'53 14° 亞 00'02 11° 亞 16'46 10° 亞 50'14 11° 亞 05'42 8° 亞 09'37 2° 亞 40'48 4° 亞 24'58 0° 肌 2° 肌 39'10 13° 肌 45'13 0° ズ 0° 云 0° ※ 0° 沃 25° 米 05'18	-4.8m 0.28794 AU -6°43'47 6°41'53 -4.7m	max. Earth dist. superior conj minimum elong behind sun begin behind sun end evening rise asc. node desc. node evening max el	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 28 07:30 8886 May 22 08:32 8886 Jun 01 21:34 8886 Jun 01 21:34 8886 Jun 15 14:58 8886 Jul 10 06:25 8886 Aug 04 12:51 8886 Aug 30 23:14 8886 Sep 21 17:00 8886 Sep 25 09:12 8886 Sep 29 04:50	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° ¥ 0° Y 17° Y 22'37 0° B 0° M 0° M 0° M 22° M 47'12 26° M 22'33 0° 7	-0°11'21 0°11'03 45°44'28
greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 25 11:00 8883 Sep 30 05:56 8883 Oct 17 06:58 8883 Oct 17 06:58 8883 Oct 27 01:24 8883 Dec 02 07:44 8883 Dec 02 07:44 8883 Dec 05 02:35 8883 Dec 16 05:07 8883 Dec 16 05:07 8883 Dec 31 09:56 8884 Jan 26 18:44 8884 Feb 21 00:05 8884 Mar 16 15:02 8884 Apr 05 22:30 8884 Apr 09 21:27	17° № 34'15 0° Ω 16° Ω 51'46 17° Ω 12'39 19° Ω 06'53 14° Ω 00'02 11° Ω 16'46 10° Ω 50'14 11° Ω 05'42 8° Ω 09'37 2° Ω 40'48 4° Ω 24'58 0° M 2° M 39'10 13° M 45'13 0° ズ 0° ℧ 0° ※ 0° ዢ 25° 升 05'18 0° Υ	-4.8m 0.28794 AU -6°43'47 6°41'53 -4.7m	max. Earth dist. superior conj minimum elong behind sun begin behind sun end evening rise asc. node desc. node evening max el greatest brilliancy	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 04 08:51 8886 Apr 28 07:30 8886 May 22 08:32 8886 Jun 01 21:34 8886 Jun 15 14:58 8886 Jul 10 06:25 8886 Aug 04 12:51 8886 Aug 30 23:14 8886 Sep 21 17:00 8886 Sep 25 09:12 8886 Sep 29 04:50 8886 Nov 03 11:54	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° ¥ 0° ¥ 0° ¶ 0° © 13° © 04'34 0° Ω 0° ¶ 0° Ω 0° ¶ 22° ¶ 47'12 26° ¶ 22'33 0° ₹ 24° ₹ 40'09	-0°11'21 0°11'03
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greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 25 11:00 8883 Sep 25 11:00 8883 Oct 17 06:58 8883 Oct 27 01:24 8883 Dec 02 07:44 8883 Dec 02 07:44 8883 Dec 05 02:35 8883 Dec 16 05:07 8883 Dec 16 05:07 8883 Dec 31 09:56 8884 Jan 26 18:44 8884 Feb 21 00:05 8884 Mar 16 15:02 8884 Apr 05 22:30 8884 Apr 09 21:27 8884 May 03 22:42 8884 May 27 21:29	17° m 34'15 0° 亞 16° 亞 51'46 17° 亞 12'39 19° 亞 06'53 14° 亞 00'02 11° 亞 16'46 10° 亞 50'14 11° 亞 05'42 8° 亞 09'37 2° 亞 40'48 4° 亞 24'58 0° m 2° m 39'10 13° m 45'13 0° ズ 0° 云 0° ズ	-4.8m 0.28794 AU -6°43'47 6°41'53 -4.7m	max. Earth dist. superior conj minimum elong behind sun begin behind sun end evening rise asc. node desc. node evening max el greatest brilliancy retrograde evening set	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 28 07:30 8886 May 22 08:32 8886 Jun 01 21:34 8886 Jun 15 14:58 8886 Jul 10 06:25 8886 Aug 04 12:51 8886 Aug 30 23:14 8886 Sep 21 17:00 8886 Sep 25 09:12 8886 Sep 29 04:50 8886 Nov 03 11:54 8886 Nov 13 05:11 8886 Nov 30 20:58	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° ¥ 0° ¥ 0° ¶ 0° © 13°©04'34 0° \$\Omega\$ 0° \$\Omega\$ 0° \$\Omega\$ 22° \$\Mathre{\Pi}\$47'12 26° \$\Mathre{\Pi}\$22'33 0° \$\omega\$ 24° \$\omega\$40'09 26° \$\omega\$23'16 20° \$\omega\$32'39	-0°11'21 0°11'03 45°44'28 -4.7m
greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 25 11:00 8883 Sep 25 11:00 8883 Oct 17 06:58 8883 Oct 27 01:24 8883 Dec 02 07:44 8883 Dec 02 07:44 8883 Dec 05 02:35 8883 Dec 16 05:07 8883 Dec 31 09:56 8884 Jan 26 18:44 8884 Feb 21 00:05 8884 Mar 16 15:02 8884 Apr 05 22:30 8884 Apr 09 21:27 8884 May 03 22:42 8884 May 27 21:29 8884 Jun 06 12:14	17° № 34'15 0° 亞 16° 亞 51'46 17° 亞 12'39 19° 亞 06'53 14° 亞 00'02 11° 亞 16'46 10° 亞 50'14 11° 亞 05'42 8° 亞 09'37 2° 亞 40'48 4° 亞 24'58 0° 肌 2° 肌 39'10 13° 肌 45'13 0° ズ 0° 云 0° ※ 0° 犬 25° 犬 05'18 0° ϒ 0° ႘ 0° Ⅱ 12° 耳 03'05	-4.8m 0.28794 AU -6°43'47 6°41'53 -4.7m	max. Earth dist. superior conj minimum elong behind sun begin behind sun end evening rise asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 28 07:30 8886 May 22 08:32 8886 Jun 01 21:34 8886 Jun 15 14:58 8886 Jul 10 06:25 8886 Aug 04 12:51 8886 Aug 30 23:14 8886 Sep 21 17:00 8886 Sep 25 09:12 8886 Sep 29 04:50 8886 Nov 03 11:54 8886 Nov 13 05:11 8886 Nov 30 20:58 8886 Dec 04 15:57	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° ¥ 0° ¥ 13° ¥ 0° B 0° B 0° B 0° B 0° M 22° M.47'12 26° M.22'33 0° 24° ₹40'09 26° ₹23'16 20° ₹32'39 18° ₹12'18	-0°11'21 0°11'03 45°44'28 -4.7m
greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 25 11:00 8883 Sep 25 11:00 8883 Sep 26 17 06:58 8883 Oct 17 06:58 8883 Oct 27 01:24 8883 Dec 02 07:44 8883 Dec 05 02:35 8883 Dec 16 05:07 8883 Dec 31 09:56 8884 Jan 26 18:44 8884 Feb 21 00:05 8884 Mar 16 15:02 8884 Apr 05 22:30 8884 Apr 09 21:27 8884 May 03 22:42 8884 May 03 12:42 8884 May 06 12:14 8884 Jun 06 12:14	17° M 34'15 0° 요 16° 요 51'46 17° 요 12'39 19° 요 06'53 14° 요 00'02 11° 요 16'46 10° 요 50'14 11° 요 05'42 8° 요 09'37 2° 요 40'48 4° 요 24'58 0° M 2° M 39'10 13° M 45'13 0° ズ 0° ズ 0° ※ 0° 光 25° 米 05'18 0° ϒ 0° ႘ 0° Ⅱ 12° Ⅱ 03'05 0° ⑤	-4.8m 0.28794 AU -6°43'47 6°41'53 -4.7m	max. Earth dist. superior conj minimum elong behind sun begin behind sun end evening rise asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 28 07:30 8886 May 22 08:32 8886 Jun 01 21:34 8886 Jun 15 14:58 8886 Jul 10 06:25 8886 Aug 04 12:51 8886 Aug 30 23:14 8886 Sep 21 17:00 8886 Sep 25 09:12 8886 Nov 03 11:54 8886 Nov 13 05:11 8886 Nov 30 20:58 8886 Dec 04 15:57 8886 Dec 05 00:14	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° ¥ 0° ¥ 0° ¥ 0° ■ 13° © 04'34 0° Ω 0° ™ 0° ■ 22° ™ 47'12 26° ™ 22'33 0° ¾ 24° ¾ 40'09 26° ¾ 23'16 20° ¾ 32'39 18° ¾ 12'18 17° ¾ 59'18	-0°11'21 0°11'03 45°44'28 -4.7m -7°42'58 7°41'36
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greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 25 11:00 8883 Sep 25 11:00 8883 Sep 26 07:44 8883 Dec 17 06:58 8883 Oct 27 01:24 8883 Dec 02 07:44 8883 Dec 05 02:35 8883 Dec 16 05:07 8883 Dec 16 05:07 8883 Dec 31 09:56 8884 Jan 26 18:44 8884 Feb 21 00:05 8884 Mar 16 15:02 8884 Apr 05 22:30 8884 Apr 09 21:27 8884 May 03 22:42 8884 May 27 21:29 8884 Jun 06 12:14 8884 Jun 06 12:14 8884 Jun 20 20:11 8884 Jul 15 22:11	17° № 34'15 0° Ω 16° Ω 51'46 17° Ω 12'39 19° Ω 06'53 14° Ω 00'02 11° Ω 16'46 10° Ω 50'14 11° Ω 05'42 8° Ω 09'37 2° Ω 40'48 4° Ω 24'58 0° № 2° № 39'10 13° № 45'13 0° 🛪 0° ♂ 0° ※ 0° ₭ 25° ₭ 05'18 0° ♈ 0° ੳ 0° № 12° № 30'05 0° № 11° № 103'05	-4.8m 0.28794 AU -6°43'47 6°41'53 -4.7m 45°43'27	max. Earth dist. superior conj minimum elong behind sun begin behind sun end evening rise asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 28 07:30 8886 May 22 08:32 8886 Jun 01 21:34 8886 Jun 15 14:58 8886 Jul 10 06:25 8886 Aug 04 12:51 8886 Aug 30 23:14 8886 Sep 21 17:00 8886 Sep 25 09:12 8886 Nov 03 11:54 8886 Nov 13 05:11 8886 Dec 04 15:57 8886 Dec 05 07:12 8886 Dec 05 07:12 8886 Dec 09 03:14 8886 Dec 26 02:32	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° ¥ 0° Y 17° Y 22'37 0° B 0° M 0° M 0° M 22° M 47'12 26° M 22'33 0° 24° 24° 24' 24' 24' 25' 21'18 17° 25' 21'18 17° 27' 25' 28' 27'00 9° 35' 38' 38' 39' 39' 39' 39' 39' 39' 39' 39	-0°11'21 0°11'03 45°44'28 -4.7m -7°42'58 7°41'36 0.28875 AU
greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj minimum elong	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 25 11:00 8883 Sep 25 11:00 8883 Sep 26 07:24 8883 Oct 17 06:58 8883 Oct 27 01:24 8883 Dec 02 07:44 8883 Dec 05 02:35 8883 Dec 16 05:07 8883 Dec 16 05:07 8883 Dec 31 09:56 8884 Jan 26 18:44 8884 Feb 21 00:05 8884 Mar 16 15:02 8884 Apr 05 22:30 8884 Apr 09 21:27 8884 May 27 21:29 8884 May 27 21:29 8884 Jun 06 12:14 8884 Jun 06 12:14 8884 Jun 120:33	17° № 34'15 0° 亞 16° 亞 51'46 17° 亞 12'39 19° 亞 06'53 14° 亞 00'02 11° 亞 16'46 10° 亞 50'14 11° 亞 05'42 8° 亞 09'37 2° 亞 40'48 4° 亞 24'58 0° 肌 2° 肌 39'10 13° 肌 45'13 0° ズ 0° 云 0° ズ 0° 云 0° ϒ 25° 升 05'18 0° ϒ 0° ϒ 0° ϒ 12°	-4.8m 0.28794 AU -6°43'47 6°41'53 -4.7m 45°43'27	max. Earth dist. superior conj minimum elong behind sun begin behind sun end evening rise asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 28 07:30 8886 May 22 08:32 8886 Jun 01 21:34 8886 Jun 15 14:58 8886 Jun 15 14:58 8886 Jul 10 06:25 8886 Aug 04 12:51 8886 Aug 30 23:14 8886 Sep 21 17:00 8886 Sep 25 09:12 8886 Sep 29 04:50 8886 Nov 03 11:54 8886 Nov 13 05:11 8886 Nov 13 05:11 8886 Nov 30 20:58 8886 Dec 04 15:57 8886 Dec 05 07:12 8886 Dec 09 03:14 8886 Dec 06 02:32 8887 Jan 06 03:43	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° ¥ 0° Y 17° Y 22'37 0° S 0° M 0° M 0° M 22° M.47'12 26° M.22'33 0° ¾ 24° ¾ 40'09 26° ¾ 23'16 20° ¾ 32'39 18° ¾ 12'18 17° ¾ 48'22 15° ¾ 27'00 9° ¾ 55'08 12° ¾ 08'32	-0°11'21 0°11'03 45°44'28 -4.7m -7°42'58 7°41'36
greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj minimum elong max. Earth dist.	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 25 11:00 8883 Sep 25 11:00 8883 Sep 26 17 06:58 8883 Oct 17 06:58 8883 Oct 27 01:24 8883 Dec 02 07:44 8883 Dec 02 07:44 8883 Dec 05 02:35 8883 Dec 16 05:07 8883 Dec 16 05:07 8883 Dec 16 05:07 8884 Jan 26 18:44 8884 Feb 21 00:05 8884 Mar 16 15:02 8884 Apr 05 22:30 8884 Apr 09 21:27 8884 May 03 22:42 8884 May 27 21:29 8884 Jun 06 12:14 8884 Jun 06 12:14 8884 Jun 120:33 8884 Jul 15 22:11 8884 Jul 15 22:11 8884 Jul 16 04:49 8884 Jul 19 06:28	17° № 34'15 0° 亞 16° 亞 51'46 17° 亞 12'39 19° 亞 06'53 14° 亞 00'02 11° 亞 16'46 10° 亞 50'14 11° 亞 05'42 8° 亞 09'37 2° 亞 40'48 4° 亞 24'58 0° 肌 2° 肌 39'10 13° 肌 45'13 0° ズ 0° 云 0° ズ 0° 云 0° 光 25° 米 05'18 0° Ƴ 0° H 12° 耳 03'05 0° 亞 0° ብ 1° ብ 19'52 1° ብ 40'32 5° ብ 29'58	-4.8m 0.28794 AU -6°43'47 6°41'53 -4.7m 45°43'27	max. Earth dist. superior conj minimum elong behind sun begin behind sun end evening rise asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 28 07:30 8886 May 22 08:32 8886 Jun 01 21:34 8886 Jun 15 14:58 8886 Jul 10 06:25 8886 Aug 04 12:51 8886 Aug 04 12:51 8886 Aug 30 23:14 8886 Sep 21 17:00 8886 Sep 25 09:12 8886 Sep 29 04:50 8886 Nov 03 11:54 8886 Nov 13 05:11 8886 Nov 13 05:11 8886 Nov 30 20:58 8886 Dec 04 15:57 8886 Dec 05 00:14 8886 Dec 05 07:12 8886 Dec 06 03:43 8887 Jan 06 03:43 8887 Jan 06 03:43	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° ¥ 0° Y° 17° Y 22'37 0° S 0° M 0° Ω 0° M 22° M.47'12 26° M.22'33 0° ¾ 24° ¾ 40'09 26° ¾ 23'16 20° ¾ 32'39 18° ¾ 12'18 17° ¾ 59'18 17° ¾ 59'18 17° ¾ 55'08 12° ¾ 08'32 15° ¾ 14'26	-0°11'21 0°11'03 45°44'28 -4.7m -7°42'58 7°41'36 0.28875 AU
greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj minimum elong	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 25 11:00 8883 Sep 20 05:56 8883 Oct 17 06:58 8883 Oct 27 01:24 8883 Dec 02 07:44 8883 Dec 02 07:44 8883 Dec 05 02:35 8883 Dec 16 05:07 8883 Dec 16 05:07 8883 Dec 16 05:07 8884 Jan 26 18:44 8884 Feb 21 00:05 8884 Mar 16 15:02 8884 Apr 05 22:30 8884 Apr 09 21:27 8884 May 03 22:42 8884 May 27 21:29 8884 Jun 06 12:14 8884 Jun 20 20:11 8884 Jul 15 22:11 8884 Jul 15 22:11 8884 Jul 16 04:49 8884 Jul 19 06:28 8884 Jul 19 06:28	17° \$\mathbb{n} 34'15 0° \omega 16° \omega 51'46 17° \omega 12'39 19° \omega 06'53 14° \omega 00'02 11° \omega 16'46 10° \omega 50'14 11° \omega 05'42 8° \omega 09'37 2° \omega 40'48 4° \omega 24'58 0° \$\mathbb{m}\$ 0° \$\mathbb{m}\$ 0° \$\mathbb{m}\$ 0° \$\mathbb{m}\$ 0° \$\mathbb{m}\$ 2° \$\mathbb{m} 39'10 13° \$\mathbb{m} 45'13 0° \$\mathbb{m}\$ 12° \$\mathbb{n} 03'05 0° \$\mathbb{m}\$ 0° \$\mathbb{m}\$ 1° \$\mathbb{n} 19'52 1° \$\mathbb{n} 40'32 5° \$\mathbb{n} 29'58 16° \$\mathbb{n} 07'51	-4.8m 0.28794 AU -6°43'47 6°41'53 -4.7m 45°43'27	max. Earth dist. superior conj minimum elong behind sun begin behind sun end evening rise asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 28 07:30 8886 Mar 25 07:10 8886 Apr 10 12:34 8886 Jun 10 12:34 8886 Jun 10 12:34 8886 Jun 10 12:34 8886 Jun 10 12:51 8886 Aug 04 12:51 8886 Aug 04 12:51 8886 Aug 04 12:51 8886 Sep 21 17:00 8886 Sep 25 09:12 8886 Sep 29 04:50 8886 Nov 03 11:54 8886 Nov 13 05:11 8886 Nov 13 05:11 8886 Nov 30 20:58 8886 Dec 04 15:57 8886 Dec 05 00:14 8886 Dec 05 07:12 8886 Dec 09 03:14 8886 Dec 09 03:14 8886 Dec 26 02:32 8887 Jan 06 03:43 8887 Jan 12 16:40 8887 Feb 01 14:49	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° ¥ 0° Y 17° Y'22'37 0° Ø 13° ©04'34 0° Ω 0° M 22° M.47'12 26° M.22'33 0° ¾ 24° ¾40'09 26° ¾23'16 20° ¾32'39 18° ¾12'18 17° ¾59'18 17° ¾59'18 17° ¾48'22 15° ¾27'00 9° ¾55'08 12° ¾08'32 15° ¾14'26 0° ♂	-0°11'21 0°11'03 45°44'28 -4.7m -7°42'58 7°41'36 0.28875 AU -4.8m
greatest brilliancy desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj minimum elong max. Earth dist.	8883 Jul 16 16:45 8883 Jul 29 23:47 8883 Aug 24 07:23 8883 Aug 25 05:50 8883 Sep 04 10:19 8883 Sep 20 16:31 8883 Sep 25 03:56 8883 Sep 25 20:53 8883 Sep 25 11:00 8883 Sep 25 11:00 8883 Sep 25 11:00 8883 Sep 26 17 06:58 8883 Oct 17 06:58 8883 Oct 27 01:24 8883 Dec 02 07:44 8883 Dec 02 07:44 8883 Dec 05 02:35 8883 Dec 16 05:07 8883 Dec 16 05:07 8883 Dec 16 05:07 8884 Jan 26 18:44 8884 Feb 21 00:05 8884 Mar 16 15:02 8884 Apr 05 22:30 8884 Apr 09 21:27 8884 May 03 22:42 8884 May 27 21:29 8884 Jun 06 12:14 8884 Jun 06 12:14 8884 Jun 120:33 8884 Jul 15 22:11 8884 Jul 15 22:11 8884 Jul 16 04:49 8884 Jul 19 06:28	17° № 34'15 0° 亞 16° 亞 51'46 17° 亞 12'39 19° 亞 06'53 14° 亞 00'02 11° 亞 16'46 10° 亞 50'14 11° 亞 05'42 8° 亞 09'37 2° 亞 40'48 4° 亞 24'58 0° 肌 2° 肌 39'10 13° 肌 45'13 0° ズ 0° 云 0° ズ 0° 云 0° 光 25° 米 05'18 0° Ƴ 0° H 12° 耳 03'05 0° 亞 0° ብ 1° ብ 19'52 1° ብ 40'32 5° ብ 29'58	-4.8m 0.28794 AU -6°43'47 6°41'53 -4.7m 45°43'27	max. Earth dist. superior conj minimum elong behind sun begin behind sun end evening rise asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8886 Feb 10 10:43 8886 Feb 13 15:42 8886 Feb 13 12:58 8886 Feb 12 18:43 8886 Feb 14 07:13 8886 Feb 15 09:39 8886 Mar 11 10:06 8886 Mar 25 07:10 8886 Apr 04 08:51 8886 Apr 28 07:30 8886 May 22 08:32 8886 Jun 01 21:34 8886 Jun 15 14:58 8886 Jul 10 06:25 8886 Aug 04 12:51 8886 Aug 04 12:51 8886 Aug 30 23:14 8886 Sep 21 17:00 8886 Sep 25 09:12 8886 Sep 29 04:50 8886 Nov 03 11:54 8886 Nov 13 05:11 8886 Nov 13 05:11 8886 Nov 30 20:58 8886 Dec 04 15:57 8886 Dec 05 00:14 8886 Dec 05 07:12 8886 Dec 06 03:43 8887 Jan 06 03:43 8887 Jan 06 03:43	23°≈49'34 27°≈49'17 27°≈40'47 26°≈43'57 28°≈37'38 0° ¥ 0° Y° 17° Y 22'37 0° S 0° M 0° Ω 0° M 22° M.47'12 26° M.22'33 0° ¾ 24° ¾ 40'09 26° ¾ 23'16 20° ¾ 32'39 18° ¾ 12'18 17° ¾ 59'18 17° ¾ 59'18 17° ¾ 55'08 12° ¾ 08'32 15° ¾ 14'26	-0°11'21 0°11'03 45°44'28 -4.7m -7°42'58 7°41'36 0.28875 AU -4.8m

	9997 Mar. 20, 22-27	0°){		J J.	0000 0-4 10 04-16	14° ∡ ³30'04	
	8887 Mar 29 22:37	0° Υ		desc. node	8889 Oct 19 04:16	14・×・30 04 0°る	
44-	8887 Apr 24 03:29	12° Υ 30'44			8889 Nov 01 22:57	0° ≈	
desc. node	8887 May 04 11:02 8887 May 18 18:03	0° 8		evening max el	8889 Nov 30 06:45 8889 Dec 05 23:28	0 ≈ 5°≈34'46	45°56'39
	8887 Jun 12 01:31	0°II		evening max er	8890 Jan 05 07:31	0°)	45 50 59
	8887 Jul 06 06:18	0°9		grantant brillianay	8890 Jan 03 07.31 8890 Jan 14 07:29	0 X 4° ¥ 11'18	-4.8m
	8887 Jul 30 11:03	0°Ω 0 €0		greatest brilliancy		5°) € 56'14	-4.6111
marning got		24° Ω 01'31		retrograde	8890 Jan 24 01:56	1°) 48'47	
morning set	8887 Aug 18 20:53			evening set asc. node	8890 Feb 07 13:41	0° ∺ 55'36	
1	8887 Aug 23 16:49	0°M)		asc. node	8890 Feb 09 04:07		
asc. node	8887 Aug 25 07:45	2° m/00'22			8890 Feb 10 18:12	30°R≈	1012102
	8887 Sep 16 23:30	0∘ ⊽		inferior conj	8890 Feb 13 21:28	28°≈05'14	1°12'02
	0007.0 05.11.20	100 0 20111	1007100	minimum elong	8890 Feb 13 18:42	28°≈09'29	1°11'18
superior conj	8887 Sep 25 11:39	10° £ 30'11	1°06'09	min. Earth dist.	8890 Feb 14 05:17	27°≈53'10	0.27416 AU
minimum elong	8887 Sep 25 02:14	10° Ω 01'07	1°05'53	morning rise	8890 Feb 19 23:17	24°≈29'10	
max. Earth dist.	8887 Sep 26 11:32	11° Ω 43'54	1.73144 AU	direct	8890 Mar 06 20:14	20°≈07'29	4.0
	8887 Oct 11 06:56	0°M		greatest brilliancy	8890 Mar 17 08:39	22°≈12'45	-4.9m
evening rise	8887 Oct 31 22:52	25°M27'28			8890 Mar 31 06:53	0°) {	
	8887 Nov 04 15:29	0° ⊼		morning max el	8890 Apr 26 08:56	23°) (02'26	46°57'01
	8887 Nov 29 01:57	0°る			8890 May 03 03:15	0° Υ	
desc. node	8887 Dec 15 01:25	19° る 32'58			8890 May 30 06:14	0°8	
	8887 Dec 23 14:47	0° ≈		desc. node	8890 May 31 23:10	1° 8 57'43	
	8888 Jan 17 05:58	0°)			8890 Jun 24 20:12	0°Щ	
	8888 Feb 11 00:06	0° Υ			8890 Jul 19 19:27	0ം ತಾ	
	8888 Mar 07 00:28	0°B			8890 Aug 13 12:43	0 \circ Ω	
	8888 Apr 01 16:30	Π $^{\circ}0$			8890 Sep 07 03:20	0° m ∌	
asc. node	8888 Apr 06 00:36	4° Ⅱ 55'52		asc. node	8890 Sep 21 20:17	17° m 58'46	
	8888 Apr 29 01:46	0			8890 Oct 01 15:54	0∘ ⊽	
evening max el	8888 May 02 17:14	3° 5 43'02	46°56'27		8890 Oct 26 02:15	0°M	
	8888 Jun 02 17:17	$0^{\circ}\Omega$		morning set	8890 Oct 27 02:41	1° M 15'07	
greatest brilliancy	8888 Jun 11 20:04	4° Ω 33'15	-4.9m		8890 Nov 19 10:40	0° ⊀ ¹	
retrograde	8888 Jun 22 05:31	6° Ω 35'32		max. Earth dist.	8890 Dec 01 16:12	15° ∡ 05'32	1.73143 AU
evening set	8888 Jul 07 13:54	1° Ω 57'59					
	8888 Jul 10 22:40	30° ₹ 5		superior conj	8890 Dec 02 15:33	16° ∡ 17'36	1°17'33
inferior conj	8888 Jul 13 04:07	28° © 38'07	3°23'57	minimum elong	8890 Dec 02 23:04	16° ₰ ¹40'48	1°17'36
minimum elong	8888 Jul 13 11:29	28° 5 26'46	3°21'31		8890 Dec 13 17:54	0°₹	
min. Earth dist.	8888 Jul 13 00:48	28° © 43'13	0.27445 AU		8891 Jan 07 00:32	0° ≈	
morning rise	8888 Jul 19 09:25	24°�58'13		evening rise	8891 Jan 09 06:18	2° ≈ 46′16	
desc. node	8888 Jul 26 20:22	21° © 48'57		desc. node	8891 Jan 11 13:19	5° ≈ 36′24	
direct	8888 Aug 03 00:01	20°5946'54			8891 Jan 31 06:28	0° ∀	
greatest brilliancy	8888 Aug 12 21:34	22° © 34'50	-4.8m		8891 Feb 24 11:33	0° Y	
	8888 Aug 26 23:09	$0 {\circ} \Omega$			8891 Mar 20 16:38	9° 8	
morning max el	8888 Sep 21 04:38	21° Ω 15′50	45°56'20		8891 Apr 14 00:21	Π $^{\circ}0$	
	8888 Sep 30 00:27	o° mp		asc. node	8891 May 04 11:56	24° Ⅱ 59'06	
	8888 Oct 28 00:52	0。 ত			8891 May 08 15:33	0 \circ \odot	
asc. node	8888 Nov 16 19:10	22° ₽ 27'53			8891 Jun 02 22:22	$0 {\circ} \Omega$	
	8888 Nov 23 06:54	0° M			8891 Jun 29 14:08	0° m ∕	
	8888 Dec 18 14:56	0°⊀		evening max el	8891 Jul 14 08:30	15° m 19'55	46°19'52
	8889 Jan 12 09:32	0°ප			8891 Jul 30 05:57	0∘ 亚	
	8889 Feb 05 19:40	0° ≈		greatest brilliancy	8891 Aug 21 23:45	14° ≏ 40'35	-4.8m
	8889 Mar 02 00:12	0° ∀		desc. node	8891 Aug 24 07:49	15° ≏ 29'41	
desc. node	8889 Mar 08 11:56	8° ₩ 05'17		retrograde	8891 Sep 02 02:18	16° ≙ 55'17	
morning set	8889 Mar 19 21:31	22° 升 19′30		evening set	8891 Sep 18 05:38	11° ≏ 53′20	
	8889 Mar 26 00:41	0 ° Υ		min. Earth dist.	8891 Sep 22 19:28	9° ഫ 06'30	0.28748 AU
	8889 Apr 18 22:20	0°B		inferior conj	8891 Sep 23 12:50	8° م 39'17	-6°30'51
				minimum elong	8891 Sep 23 02:51	8° ჲ 54'56	6°28'52
superior conj	8889 Apr 29 15:18	13° 8 27'47	-1°27'08	morning rise	8891 Sep 28 00:29	5° ≏ 54'42	
minimum elong	8889 Apr 29 12:20	13° 8 18'28	1°27'16	direct	8891 Oct 14 22:43	0° △ 30'50	
max. Earth dist.	8889 Apr 29 10:27	13° 8 12'34	1.71236 AU	greatest brilliancy	8891 Oct 24 16:02	2° ₽ 13'45	-4.7m
	8889 May 12 18:53	$\Pi^{\circ}0$			8891 Dec 02 06:33	0° M	
	8889 Jun 05 16:24	0 \circ \odot		morning max el	8891 Dec 02 16:53	0° M 24'51	45°42'52
evening rise	8889 Jun 09 04:42	4° 5 23'58		asc. node	8891 Dec 15 07:02	13°M02'25	
asc. node	8889 Jun 29 09:20	29° 5 36'37			8891 Dec 31 01:38	0° ∡ 7	
	8889 Jun 29 16:51	$0^{\circ}\Omega$			8892 Jan 26 08:05	ರ°0	
	8889 Jul 23 21:46	0° m			8892 Feb 20 12:21	0° ≈	
	8889 Aug 17 08:43	0∘ ⊽			8892 Mar 16 02:43	0°) €	
	8889 Sep 11 04:28	0° M		desc. node	8892 Apr 05 00:34	24°) ₹36′24	
	8889 Oct 06 14:04	0° ∡ ″			8892 Apr 09 08:47	0° Y	

	8892 May 03 09:51	0° ႘		retrograde	8894 Nov 10 21:11	24° ∡ 13'36	
	8892 May 27 08:30	0°II		evening set	8894 Nov 28 15:07	18° x 18'40	
morning sat	8892 Jun 04 00:08	9° П 35'37		inferior conj	8894 Dec 02 07:54	16° x 1040	7051126
morning set	8892 Jun 20 07:06	0°©		minimum elong	8894 Dec 02 07:34	15° × 749'30	
	8892 Juli 20 07.00	0 😊		min. Earth dist.		15° x '49'30' 15° x '39'18	0.28914 AU
:	0000 1-1 12 11-20	200550122	0021154		8894 Dec 02 22:14	13° x '39'18	0.28914 AU
superior conj	8892 Jul 13 11:39	28°958'32		morning rise	8894 Dec 06 16:05		
minimum elong	8892 Jul 13 19:01	29° © 21'28	0°31′46	direct	8894 Dec 23 18:36	7°×744'10	4.0
To all the	8892 Jul 14 07:23	0°N	1.720/1.411	greatest brilliancy	8895 Jan 03 19:30	9° ₹ 57'26	-4.8m
max. Earth dist.	8892 Jul 16 20:34	3° Ω 10'40	1.72061 AU	asc. node	8895 Jan 11 18:37	13° ∡ 751'44	
asc. node	8892 Jul 26 21:25	15° Ω 40′18			8895 Feb 01 17:54	0°る	
	8892 Aug 07 10:15	0° m)		morning max el	8895 Feb 11 12:58	9° ට 19'48	46°17'11
evening rise	8892 Aug 21 01:09	16° Mp 52'24			8895 Mar 03 04:53	0° ≈	
	8892 Aug 31 16:07	0∘ ⊽			8895 Mar 29 12:33	0° ∀	
	8892 Sep 25 01:40	0° M ₊			8895 Apr 23 16:07	0° Υ	
	8892 Oct 19 16:16	0° ∡		desc. node	8895 May 03 12:56	11° Y ′59'07	
	8892 Nov 13 13:52	0°₹			8895 May 18 05:57	0°8	
desc. node	8892 Nov 15 15:42	2° る 28'58			8895 Jun 11 12:56	Π $\circ 0$	
	8892 Dec 08 20:43	0° ≈			8895 Jul 05 17:22	0ං ව	
	8893 Jan 03 16:49	0° ∀			8895 Jul 29 21:52	$0^{\circ}\Omega$	
	8893 Jan 30 14:14	0 ° $\mathbf{\gamma}$		morning set	8895 Aug 16 12:14	21° Ω 47'25	
evening max el	8893 Feb 16 09:50	17° Ƴ 30'15	46°40'19		8895 Aug 23 03:28	0° m y	
	8893 Mar 01 15:11	9° 8		asc. node	8895 Aug 24 09:45	1° m 33'39	
asc. node	8893 Mar 08 15:29	5° 8 54'16			8895 Sep 16 10:04	0∘ ত	
greatest brilliancy	8893 Mar 28 22:15	18° 8 10'01	-4.9m				
retrograde	8893 Apr 07 15:20	19° 8 57'05		superior conj	8895 Sep 23 04:30	8° ≏ 21'32	1°03'58
evening set	8893 Apr 25 13:23	13° 8 50'14		minimum elong	8895 Sep 22 18:58	7° ≏ 52'06	1°03'41
inferior conj	8893 Apr 28 07:24	12° 8 09'18	9°07'29	max. Earth dist.	8895 Sep 24 06:18	9° ≙ 41'10	1.73125 AU
minimum elong	8893 Apr 28 04:08	12° 8 14'21	9°07'10		8895 Oct 10 17:28	0° M	
min. Earth dist.	8893 Apr 28 05:05	12° 8 12'53	0.27109 AU	evening rise	8895 Oct 29 16:13	23°M20'43	
morning rise	8893 Apr 30 18:53	10° 8 38'09		•	8895 Nov 04 02:05	0° ∡ ¹	
direct	8893 May 18 22:34	4° 8 21'32			8895 Nov 28 12:43	8°0	
greatest brilliancy	8893 May 28 13:26	6° 8 05'55	-4.9m	desc. node	8895 Dec 14 03:19	19° る 05'18	
desc. node	8893 Jun 28 10:54	27° 8 25'15			8895 Dec 23 01:52	0° ≈	
	8893 Jul 01 05:22	0°II			8896 Jan 16 17:32	0°) €	
morning max el	8893 Jul 08 04:05	6° Ⅱ 44'46	46°42'58		8896 Feb 10 12:23	0° Υ	
morning max or	8893 Jul 30 06:06	0°9	10 12 30		8896 Mar 06 13:54	0°8	
	8893 Aug 25 19:52	$0 {\circ} {\mathfrak O}$			8896 Apr 01 08:10	0°II	
	8893 Sep 20 12:10	o°mp		asc. node	8896 Apr 05 02:32	4° Ⅱ 15'39	
	8893 Oct 15 16:56	0∘ ⊽		asc. node	8896 Apr 28 23:05	0°95	
asc. node	8893 Oct 19 18:46	4° - 23'40		evening max el	8896 Apr 30 07:53	1° 9 23'02	46°56'58
asc. nouc	8893 Nov 09 13:19	4 <u>==</u> 23 40 0°M		evening max er	8896 Jun 04 11:37	0°Ω	40 30 38
	8893 Dec 04 03:06	0° ⊼ 7		areatest brillianas	8896 Jun 09 10:33	2° Ω 12'17	4.0
	8893 Dec 28 12:00	0°중		greatest brilliancy retrograde		4°Ω14'29	-4.9111
mamina aat	8894 Jan 03 19:56	0 3 7° る 49'28		retrograde	8896 Jun 19 20:13		
morning set		7 3 49 28 0° ≈		avanina aat	8896 Jul 04 10:57	30°₹©	
E d E d	8894 Jan 21 17:30		1 701 47 ATT	evening set	8896 Jul 05 06:10	29°533'36	2045127
max. Earth dist.	8894 Feb 08 02:25	21°≈35'36	1.72147 AU	inferior conj	8896 Jul 10 17:44	26°5017'24	
desc. node	8894 Feb 08 01:34	21° ≈ 33'00		minimum elong	8896 Jul 11 01:46	26°505'03	3°42'53
	0004E 1 11 05 11	25020125	0007140	min. Earth dist.	8896 Jul 10 14:48	26°521'55	0.27418 AU
superior conj	8894 Feb 11 05:11	25°≈28'25		morning rise	8896 Jul 16 21:47	22°539'38	
minimum elong	8894 Feb 11 03:21	25°≈22'42	0°07'26	desc. node	8896 Jul 25 22:24	19°505'17	
behind sun begin	8894 Feb 10 05:12	24°≈13'43		direct	8896 Jul 31 13:49	18°526'37	4.0-
behind sun end	8894 Feb 12 01:30	26°≈31'41		greatest brilliancy	8896 Aug 10 10:27	20°9514'23	-4.8m
	8894 Feb 14 20:22	0° ∀			8896 Aug 27 19:23	0°N	
	8894 Mar 10 20:55	0°Υ		morning max el	8896 Sep 18 19:54	19° Ω 02'16	45°57'34
evening rise	8894 Mar 22 19:16	14° Y 56′13			8896 Sep 29 19:53	0° m/	
	8894 Apr 03 19:46	0°8		_	8896 Oct 27 15:30	0∘ ⊽	
	8894 Apr 27 18:33	0° Ⅱ		asc. node	8896 Nov 15 20:59	21° ≏ 55'29	
_	8894 May 21 19:48	0°9			8896 Nov 22 19:33	0° ™	
asc. node	8894 May 31 23:26	12°535'02			8896 Dec 18 02:36	0° ∡ 7	
	8894 Jun 15 02:35	$0^{\circ}\Omega$			8897 Jan 11 20:40	0°る	
	8894 Jul 09 18:41	0° m ∕			8897 Feb 05 06:32	0° ≈	
	8894 Aug 04 02:17	0∘ 亚			8897 Mar 01 10:56	0° ∀	
	8894 Aug 30 15:15	0°M₊		desc. node	8897 Mar 07 13:59	7°) 38′17	
desc. node	8894 Sep 20 19:06	22°ML01'01		morning set	8897 Mar 17 09:10	19° ¥ 52'31	
evening max el	8894 Sep 22 23:54	24°M09'20	45°45'08		8897 Mar 25 11:21	0° Y	
	8894 Sep 29 05:07	0° ∡ ¹			8897 Apr 18 09:00	0° 8	
greatest brilliancy	8894 Nov 01 02:08	22° ∡ ¹28'51	-4.7m				

gunariar agni	8897 Apr 27 02:25	10° 8 58'13	1026124	morning rise	8899 Sep 25 18:56	3° ≏ 39'41	
superior conj minimum elong	8897 Apr 26 22:24	10° 8 45'37		morning rise	8899 Oct 03 09:20	30°RM)	
max. Earth dist.	8897 Apr 26 19:05		1.71241 AU	direct	8899 Oct 12 13:42	28° Mp 20'36	
max. Earth dist.	8897 May 12 05:34	0°Ⅱ	1./1241/10	direct	8899 Oct 22 03:28	0° Ω	
	8897 Jun 05 03:08	0°e ∘ π		greatest brilliancy	8899 Oct 22 07:12	ა _ 0° ჲ 03'07	-4.7m
evening rise	8897 Jun 06 15:55	1° © 55'12		morning max el	8899 Nov 30 06:42	28° ≏ 09'44	45°42'25
asc. node	8897 Jun 28 11:16	29°508'59		morning man vi	8899 Dec 02 04:16	0°M	22
use. Houe	8897 Jun 29 03:40	0°N		asc. node	8899 Dec 14 09:03	12° M 20'57	
	8897 Jul 23 08:42	0° m)			8899 Dec 30 16:54	0° ⊼	
	8897 Aug 16 19:56	0∘ ⊽			8900 Jan 25 21:08	0°る	
	8897 Sep 10 16:16	0°M			8900 Feb 20 00:22	0° ≈	
	8897 Oct 06 02:58	0° ∡ ¹			8900 Mar 16 14:10	0°) €	
desc. node	8897 Oct 18 06:11	13° ∡ 56'27		desc. node	8900 Apr 05 02:24	24°) 07'21	
	8897 Nov 01 14:06	გ∘ი			8900 Apr 09 19:55	$0^{\circ}\mathbf{Y}$	
	8897 Nov 30 03:47	0° ≈			8900 May 03 20:46	0°8	
evening max el	8897 Dec 03 14:37	3° ≈ 21'14	45°55'28		8900 May 27 19:16	Π $^{\circ}0$	
	8898 Jan 07 06:36	0°) €		morning set	8900 Jun 02 12:19	7° Ⅱ 09'47	
greatest brilliancy	8898 Jan 11 21:46	1°) 53′19	-4.8m		8900 Jun 20 17:44	0 \circ \odot	
retrograde	8898 Jan 21 15:18	3°) €37'03					
	8898 Feb 04 04:31	30° R ≈		superior conj	8900 Jul 12 01:24	26° © 38'47	-0°35'17
evening set	8898 Feb 05 03:54	29° ≈ 29'25		minimum elong	8900 Jul 12 09:26	27° © 03'51	0°35'09
asc. node	8898 Feb 08 06:12	27° ≈ 43'46			8900 Jul 14 17:56	$0^{\circ}\Omega$	
inferior conj	8898 Feb 11 11:22	25° ≈ 45'55	0°49'05	max. Earth dist.	8900 Jul 15 09:25	0° Ω 48'13	1.72016 AU
minimum elong	8898 Feb 11 09:29	25° ≈ 48'50	0°48'38	asc. node	8900 Jul 26 23:26	15° Ω 13'44	
min. Earth dist.	8898 Feb 11 20:09	25° ≈ 32′20	0.27449 AU		8900 Aug 07 20:48	0° ™	
morning rise	8898 Feb 17 14:35	22° ≈ 07'29		evening rise	8900 Aug 19 17:07	14° m 40'34	
direct	8898 Mar 04 10:39	17° ≈ 47'46			8900 Sep 01 02:45	0∘ ⊽	
greatest brilliancy	8898 Mar 14 23:45	19° ≈ 53'17	-4.9m		8900 Sep 25 12:28	0° M	
	8898 Apr 01 01:09	0° ∀			8900 Oct 20 03:24	0° ∡	
morning max el	8898 Apr 23 22:26	20°) 40′06	46°56'19		8900 Nov 14 01:35	8°0	
	8898 May 02 22:44	0° Y		desc. node	8900 Nov 15 17:37	1° る 59'30	
	8898 May 29 21:14	0°B			8900 Dec 09 09:25	0° ≈	
desc. node	8898 May 31 01:07	1° 8 20'30			8901 Jan 04 07:18	0° ∀	
	8898 Jun 24 09:20	Π °0			8901 Jan 31 08:31	0° Υ	
	8898 Jul 19 07:35	0ಂ ತಾ		evening max el	8901 Feb 14 22:17	15° Y ′04'49	46°38'54
	8898 Aug 13 00:13	0 \circ Ω			8901 Mar 02 22:53	0° 8	
	8898 Sep 06 14:21	0° m		asc. node	8901 Mar 08 17:28	4° 8 41'55	
asc. node	8898 Sep 20 22:15	17° m 31'39		greatest brilliancy	8901 Mar 27 11:13	15° 8 44'17	-4.9m
	8898 Oct 01 02:35	0∘ ⊽		retrograde	8901 Apr 06 04:00	17° 8 31'28	
morning set	8898 Oct 24 19:43	29° Ω 07'38		evening set	8901 Apr 23 22:56	11° 8 29'20	0000107
	8898 Oct 25 12:45	0°M		inferior conj	8901 Apr 26 20:12	9° 8 43'45	9°03'27
m at the	8898 Nov 18 21:06	0° ⊼	1 50161 177	minimum elong	8901 Apr 26 15:58	9° 8 50'17	9°03'04
max. Earth dist.	8898 Nov 29 09:12	12° ≯ 57'38	1.73161 AU	min. Earth dist.	8901 Apr 26 17:45	9° 8 47'32	0.27104 AU
	0000 N 20 00 22	1.40 7.00/20	1010155	morning rise	8901 Apr 29 08:59	8° 8 10'46	
superior conj	8898 Nov 30 08:33	14° 🗷 09'39		direct	8901 May 17 10:51	1° 8 55'36	4.0
minimum elong	8898 Nov 30 15:33 8898 Dec 13 04:24	14° ₹ 31'17	1-1901	greatest brilliancy desc. node	8901 May 27 02:43	3° 8 40'56	-4.9m
		0°る 0°≈		desc. node	8901 Jun 28 12:54 8901 Jul 02 06:45	26° 8 26'46 0° Ⅱ	
evening rise	8899 Jan 06 11:09 8899 Jan 06 21:34	0 ≈ 0°≈32'11		morning max el	8901 Jul 02 06.43 8901 Jul 06 17:36	0 П 4°П22'06	46°44'34
desc. node	8899 Jan 10 15:20	5°≈09'40		morning max ci	8901 Jul 30 22:53	0°95	40 44 34
desc. node	8899 Jan 30 17:16	0°)			8901 Aug 26 09:42	0°Ω	
	8899 Feb 23 22:36	0 γ 0°Υ			8901 Sep 21 00:33	0°m)	
	8899 Mar 20 04:00	0°8			8901 Oct 16 04:30	0∘ ত بابا	
	8899 Apr 13 12:12	0°II		asc. node	8901 Oct 10 04:30	ა 3° _ 54'36	
asc. node	8899 May 03 13:49	24° ∏ 27'07		asc. node	8901 Nov 10 00:25	0°M	
asc. Houc	8899 May 08 04:12	0°95			8901 Dec 04 13:55	0° ⊼ ¹	
	8899 Jun 02 12:32	0°N			8901 Dec 28 22:41	%ਰ	
	8899 Jun 29 07:52	0° m)		morning set	8902 Jan 02 12:01	5°る37'44	
evening max el	8899 Jul 11 23:18	13°Mp03'51	46°21'17	morning set	8902 Jan 22 04:09	0°≈	
Croning max of	8899 Jul 30 14:21	0∘ ⊽	10 2111	max. Earth dist.	8902 Feb 06 19:25	0 ∞ 19°≈25'48	1.72193 AU
greatest brilliancy	8899 Aug 19 16:19	0 = 12° £ 29'33	-4.8m	desc. node	8902 Feb 08 03:33	21°≈05'47	1.,21/3 AU
desc. node	8899 Aug 23 09:54	13° Ω 43'03		acce. node	2,02100 00 03.33		
retrograde	8899 Aug 30 17:52	14° - 43'38		superior conj	8902 Feb 09 18:38	23° ≈ 07'29	-0°03'59
evening set	8899 Sep 15 18:37	9° £ 46'19		minimum elong	8902 Feb 09 17:42	23°≈04'34	
min. Earth dist.	8899 Sep 20 11:15		0.28703 AU	behind sun begin	8902 Feb 08 17:38	21° ≈ 49'37	3 33 17
inferior conj	8899 Sep 21 04:37	6° £ 28′20		behind sun end	8902 Feb 10 17:46	24°≈19'32	
minimum elong	8899 Sep 20 18:34	6° Ω 44'06			8902 Feb 15 07:06	0° ∀	

	0002 Mar. 11 07.45	0°Υ			0004 C 17 10.46	160 0 4651	45050157
	8902 Mar 11 07:45	• •		morning max el	8904 Sep 17 10:46	16° Ω 46'51	45-58-57
evening rise	8902 Mar 21 07:30	12° Y 30'11			8904 Sep 30 15:01	0° m	
	8902 Apr 04 06:45	0°8			8904 Oct 28 06:08	0∘ ⊽	
	8902 Apr 28 05:41	0°Щ		asc. node	8904 Nov 15 23:03	21° Ω 23'21	
_	8902 May 22 07:08	0₀æ			8904 Nov 23 08:19	0°M	
asc. node	8902 Jun 01 01:25	12° © 05'46			8904 Dec 18 14:27	0° ∡	
	8902 Jun 15 14:15	0 \circ Ω			8905 Jan 12 08:04	8°0	
	8902 Jul 10 06:58	0° ™			8905 Feb 05 17:43	0° ≈	
	8902 Aug 04 15:46	0∘ ⊽			8905 Mar 01 22:01	0° ∀	
	8902 Aug 31 07:29	0° M		desc. node	8905 Mar 07 15:53	7°) €09'40	
desc. node	8902 Sep 20 20:58	21°M13'37		morning set	8905 Mar 15 20:44	17°) 24'12	
evening max el	8902 Sep 21 15:36	21°M58'42	45°45'42		8905 Mar 25 22:23	$0^{\circ}\Upsilon$	
	8902 Sep 30 06:38	0° ∡ 7			8905 Apr 18 20:00	0°8	
greatest brilliancy	8902 Oct 30 16:05	20° ∡ 17'24	-4.7m	max. Earth dist.	8905 Apr 25 01:36	7° 8 50'09	1.71244 AU
retrograde	8902 Nov 09 13:28	22° ∡ 03′53					
evening set	8902 Nov 27 09:14	16° ∡ ¹05'00		superior conj	8905 Apr 25 13:24	8° 8 27'14	-1°25'49
inferior conj	8902 Nov 30 23:57	13° ∡ 51′09	-7°59'27	minimum elong	8905 Apr 25 08:23	8° 8 11'28	1°25'55
minimum elong	8902 Dec 01 07:15	13° ∡ ³39'42	7°58'23		8905 May 12 16:35	$\Pi^{\circ}0$	
min. Earth dist.	8902 Dec 01 13:02	13° ∡ ′30′39	0.28953 AU	evening rise	8905 Jun 05 02:56	29° ∏ 24'41	
morning rise	8902 Dec 05 05:06	11° ∡ 15′21		C	8905 Jun 05 14:12	0ಂಣ	
direct	8902 Dec 22 11:17	5° ∡ ³33'16		asc. node	8905 Jun 28 13:19	28° © 40'38	
greatest brilliancy	8903 Jan 02 10:50	7° х ⁴45'39	-4.8m		8905 Jun 29 14:50	$0^{\circ}\Omega$	
asc. node	8903 Jan 11 20:39	12° ∡ 31'32			8905 Jul 23 20:01	0° m)	
use. Houe	8903 Feb 02 19:39	0°る			8905 Aug 17 07:33	0∘ ত 0°.	
morning max el	8903 Feb 10 05:37		46°15'31		8905 Sep 11 04:27	0° ™	
morning max cr	8903 Mar 03 21:34	0°≈	40 13 31		8905 Oct 06 16:16	0° ⊼ ¹	
	8903 Mar 30 02:30	0 ∞ 0° ∺		desc. node	8905 Oct 18 08:10	13° ∡ 22'01	
		0 K 0°Υ		desc. node		13 x·2201	
1 1-	8903 Apr 24 04:49	11° Υ 27'13			8905 Nov 02 05:45		
desc. node	8903 May 03 14:50				8905 Dec 01 01:55	0°≈	45054112
	8903 May 18 17:58	8°0		evening max el	8905 Dec 02 04:59	1°≈05'11	45°54'13
	8903 Jun 12 00:29	0°II		greatest brilliancy	8906 Jan 10 12:23	29°≈35'05	-4.8m
	8903 Jul 06 04:35	0°©			8906 Jan 11 19:36	0°) (
_	8903 Jul 30 08:50	0 ° Ω		retrograde	8906 Jan 20 04:14	1°) 17′28	
morning set	8903 Aug 15 03:54	19° ん 33'53			8906 Jan 28 05:22	30° ₹ ≈	
	8903 Aug 23 14:14	0° ™		evening set	8906 Feb 03 18:24	27° ≈ 09'03	
asc. node	8903 Aug 24 11:41	1°Mp06'19		asc. node	8906 Feb 08 08:08	24° ≈ 29'48	
	8903 Sep 16 20:43	0∘ ⊽		inferior conj	8906 Feb 10 01:26	23° ≈ 26′06	0°26'16
				minimum elong	8906 Feb 10 00:25	23° ≈ 27'40	0°26'06
superior conj	8903 Sep 21 21:38	6° ≙ 13'25	1°01'43	min. Earth dist.	8906 Feb 10 11:28	23° ≈ 10′33	0.27491 AU
minimum elong	8903 Sep 21 12:02	5° ≙ 43'48	1°01'24	morning rise	8906 Feb 16 05:51	19° ≈ 45′27	
max. Earth dist.	8903 Sep 23 03:39	7° ≏ 46'05	1.73104 AU	direct	8906 Mar 03 00:50	15° ≈ 27′09	
	8903 Oct 11 04:05	0° M		greatest brilliancy	8906 Mar 13 15:43	17° ≈ 33'47	-4.9m
evening rise	8903 Oct 28 09:55	21°M14'34			8906 Apr 02 15:22	0°) €	
	8903 Nov 04 12:48	0° ∡ ¹		morning max el	8906 Apr 22 11:35	18°) (15′20	46°55'34
	8903 Nov 28 23:40	0°ප			8906 May 03 18:12	0° Y	
desc. node	8903 Dec 14 05:22	18° る 37'26			8906 May 30 12:31	0°8	
	8903 Dec 23 13:12	0° ≈		desc. node	8906 May 31 03:12	0° 8 42'33	
	8904 Jan 17 05:24	0° ∀			8906 Jun 24 22:49	$\Pi^{\circ}0$	
	8904 Feb 11 00:59	$0^{\circ}\mathbf{\Upsilon}$			8906 Jul 19 20:04	0°ಅ	
	8904 Mar 07 03:44	0°8			8906 Aug 13 12:02	$0^{\circ}\Omega$	
	8904 Apr 02 00:22	0°II			8906 Sep 07 01:44	0° m/y	
asc. node	8904 Apr 05 04:27	3° Ⅱ 34'09		asc. node	8906 Sep 21 00:06	17° m 03'04	
evening max el	8904 Apr 28 23:04	29° Ⅲ 03'32	46°57'21	use. Hous	8906 Oct 01 13:39	0∘ ʊ	
e vennig max er	8904 Apr 29 21:33	0.20 7.32	10 37 21	morning set	8906 Oct 23 13:01	26° ≏ 59'43	
greatest brilliancy	8904 Jun 08 01:20	29° © 50'51	-4.9m	morning set	8906 Oct 25 23:37	0°M	
greatest orimaney	8904 Jun 08 11:20	0°Ω	- 4 .7III		8906 Nov 19 07:54	0° ⊼	
ratragrada	8904 Jun 18 10:45	1° Ω 52'18		max. Earth dist.	8906 Nov 28 02:36	0 ≯ 10° ≯ 49'58	1.73176 AU
retrograde		30°RS		max. Earth dist.	8900 NOV 28 02.30	10 8 49 36	1./31/0 AU
	8904 Jun 28 00:01				9006 N 20, 02-02	129.702115	1920100
evening set	8904 Jul 03 22:37	27°508'16	1006120	superior conj	8906 Nov 29 02:02	12° ₹ 02'15	1°20'09
inferior conj	8904 Jul 09 07:21	23°\$55'44	4°06'39	minimum elong	8906 Nov 29 08:31	12° ₹ 22'16	1°20'17
minimum elong	8904 Jul 09 15:59	23°5642'27	4°03'57		8906 Dec 13 15:14	0°る	
min. Earth dist.	8904 Jul 09 04:50	23°959'38	0.27389 AU	evening rise	8907 Jan 05 13:23	28° る 18'59	
morning rise	8904 Jul 15 09:50	20°520'14			8907 Jan 06 22:05	0° ≈	
desc. node	8904 Jul 26 00:27	16°9526'14		desc. node	8907 Jan 10 17:21	4°≈41'59	
direct	8904 Jul 30 03:42	16° © 05'33			8907 Jan 31 04:24	0° ∀	
greatest brilliancy	8904 Aug 08 23:08	17° © 52'36	-4.8m		8907 Feb 24 10:02	0° Υ	
	8904 Aug 29 10:47	0 \circ Ω			8907 Mar 20 15:50	9° 8	

asc. node	8907 Apr 14 00:35 8907 May 03 15:50 8907 May 08 17:27 8907 Jun 03 03:24	0°Ⅱ 23°Ⅱ53'53 0°ᢒ 0°ብ		asc. node	8909 Sep 20 13:12 8909 Oct 15 16:19 8909 Oct 18 12:39 8909 Nov 09 11:44	0°M 0°Ω 3°Ω25'30 0°M	
evening max el	8907 Jun 30 02:35 8907 Jul 10 13:28 8907 Aug 01 02:32	0° സു 10° സു 44'40 0° <u>ഫ</u>	46°22'52	morning set	8909 Dec 04 00:56 8909 Dec 28 09:34 8909 Dec 31 04:17	0°メ 0°る 3°る26'07	
greatest brilliancy desc. node retrograde	8907 Aug 18 08:30 8907 Aug 23 11:47 8907 Aug 29 09:24	10° ♀ 16'33 11° ♀ 50'53 12° ♀ 30'44	-4.8m	max. Earth dist.	8910 Jan 21 15:00 8910 Feb 04 12:00	0° ≈ 17° ≈ 14'20	1.72230 AU
evening set min. Earth dist.	8907 Sep 14 07:38 8907 Sep 19 03:05	7° ≙ 37'29 4° ≙ 43'05	0.28657 AU	superior conj minimum elong	8910 Feb 07 08:29 8910 Feb 07 08:27	20°≈47'22 20°≈47'17	-0°00'19 0°00'08
inferior conj minimum elong	8907 Sep 19 20:22 8907 Sep 19 10:19	4° £ 16′00 4° £ 31′46	-6°02'58 6°00'47	behind sun begin behind sun end	8910 Feb 06 08:10 8910 Feb 08 08:44	19°≈31'41 22°≈02'53	
morning rise	8907 Sep 24 13:21 8907 Sep 27 01:46	1° £ 23′27 30°R M)		desc. node	8910 Feb 07 05:27 8910 Feb 14 17:57	20°≈37'55 0°) €	
direct greatest brilliancy	8907 Oct 11 04:24 8907 Oct 20 22:48	26° Mp 08'47 27° Mp 51'41	-4 7m	evening rise	8910 Mar 10 18:41 8910 Mar 18 20:13	0°Υ 10°Υ05'29	
morning max el	8907 Oct 26 03:36 8907 Nov 28 21:07	0° Ω 25° Ω 55'02		evening rise	8910 Apr 03 17:47 8910 Apr 27 16:52	0°₩ 0°₩	
asc. node	8907 Dec 03 01:36 8907 Dec 14 11:02	0°M 11°M38'57	43 42 IO	asc. node	8910 May 21 18:35 8910 May 31 03:27	0°95 11°9536'14	
asc. node	8907 Dec 31 08:16 8908 Jan 26 10:22	11 IIC3837 0° 조 0°중		asc. node	8910 Jun 15 02:07 8910 Jul 09 19:32	0°Ω 0°m	
	8908 Feb 20 12:36 8908 Mar 16 01:53	0°≈ 0°¥			8910 Aug 04 05:39	0°₩ 0°₩	
desc. node	8908 Apr 04 04:23 8908 Apr 09 07:21	23°) 37'49 0° Υ		evening max el desc. node	8910 Aug 31 00:20 8910 Sep 19 07:43 8910 Sep 19 23:00	19°M48'14 20°M25'01	45°46'22
	8908 May 03 08:03	0° B 0° B			8910 Sep 30 10:02 8910 Oct 28 06:06	0° √ 18° √ 05'17	-4.7m
morning set	8908 May 27 06:26 8908 May 30 23:55	0 П 4°П40′38 0°©		greatest brilliancy retrograde	8910 Nov 07 05:29	19° ∡ ′53′04	-4. / III
	8908 Jun 20 04:48		0020141	evening set inferior conj	8910 Nov 25 03:06 8910 Nov 28 15:49	13° 🖈 50'46 11° 🖈 39'40 11° 🖈 29'07	
superior conj minimum elong	8908 Jul 09 14:31 8908 Jul 09 23:13	24°©15'45 24°©42'51 28°©16'08		minimum elong min. Earth dist.	8910 Nov 28 22:33 8910 Nov 29 03:32	11° ∡ ′21′18	8°05'51 0.28986 AU
max. Earth dist.	8908 Jul 12 19:36 8908 Jul 14 04:55	$0^{\circ}\Omega$	1./19/0 AU	morning rise direct	8910 Dec 02 17:54 8910 Dec 20 04:00	9° ₹ 08'27 3° ₹ 21'45	4.0
asc. node	8908 Jul 26 01:18 8908 Aug 07 07:45	14° Ω 45'26 0° m		greatest brilliancy asc. node	8910 Dec 31 01:30 8911 Jan 10 22:37	5° 🖈 32'30 11° 🖈 13'09	-4.8m
evening rise	8908 Aug 17 08:40 8908 Aug 31 13:46	12° Mp 26'13 0° <u>₽</u>		morning max el	8911 Feb 02 20:15 8911 Feb 07 21:46	0°る 4°る55'13	46°13'57
	8908 Sep 24 23:39 8908 Oct 19 14:55	0°M. 0°⊀			8911 Mar 03 13:59 8911 Mar 29 16:18	0° ∺	
desc. node	8908 Nov 13 13:40 8908 Nov 14 19:42	0° 궁 1° 궁 29'31		desc. node	8911 Apr 23 17:22 8911 May 02 16:55	0°Υ 10°Υ56'15	
	8908 Dec 08 22:30 8909 Jan 03 22:11	0° ∺			8911 May 18 05:48 8911 Jun 11 11:53	0°Д 8°0	
evening max el	8909 Jan 31 03:25 8909 Feb 12 11:37	0° Υ 12° Υ 41'35	46°37'33		8911 Jul 05 15:42 8911 Jul 29 19:45	0°€ 0°€	
asc. node	8909 Mar 03 09:29 8909 Mar 07 19:20	0°8 3°827'03		morning set	8911 Aug 12 19:19 8911 Aug 23 01:01	17° Ω 19'36 0° m	
greatest brilliancy retrograde	8909 Mar 24 23:28 8909 Apr 03 17:11	13° 8 17'42 15° 8 05'51	-4.9m	asc. node	8911 Aug 23 13:35 8911 Sep 16 07:23	0° ™ 38'54 0° ≏	
evening set inferior conj	8909 Apr 21 08:12 8909 Apr 24 09:06	9° と 08'42 7° と 17'54	8°58'24	superior conj	8911 Sep 19 14:20	4° ≙ 03'49	0°59'21
minimum elong min. Earth dist.	8909 Apr 24 03:57 8909 Apr 24 06:10	7° 呂 25'49 7° 呂 22'26		minimum elong max. Earth dist.	8911 Sep 19 04:44 8911 Sep 21 00:26	3° £ 34'10 5° £ 49'06	0°58'59 1.73081 AU
morning rise	8909 Apr 26 23:42 8909 May 10 00:40	5° 8 42′22 30° R Υ		evening rise	8911 Oct 10 14:44 8911 Oct 26 03:09	0° ጤ 19° ጤ 06'58	
direct	8909 May 14 23:57 8909 May 20 02:16	29° Y 29'25 0° と			8911 Nov 03 23:32 8911 Nov 28 10:38	0°♂ 0°♂	
greatest brilliancy desc. node	8909 May 24 15:46 8909 Jun 27 14:55	1° 8 15'13 25° 8 28'42	-4.9m	desc. node	8911 Dec 13 07:19 8911 Dec 23 00:31	18°පි09'20 0°≈	
morning max el	8909 Jul 02 07:16 8909 Jul 04 08:04	0°Ⅲ 2°Ⅲ00'51	46°45'51		8912 Jan 16 17:14 8912 Feb 10 13:35	0° ℋ 0° Ƴ	
	8909 Jul 30 15:44 8909 Aug 25 23:46	$0 {\circ} 0$			8912 Mar 06 17:34 8912 Apr 01 16:37	0°B 11°0	

asc. node	8912 Apr 04 06:34	2° ∏ 53'29			8914 Oct 01 00:15	0∘ ⊽	
evening max el	8912 Apr 26 13:58	26° I I44'06	16057118	morning set	8914 Oct 21 06:17	0 = 24° £ 52'56	
evening max er	8912 Apr 29 20:36	0°95	40 37 40	morning set	8914 Oct 25 10:05	0°M	
greatest brilliancy	8912 Jun 05 16:41	27° © 31'26	-4 9m		8914 Nov 18 18:21	0° ⊼ ¹	
retrograde	8912 Jun 16 01:01	29° © 31'27	1.5111	max. Earth dist.	8914 Nov 25 20:17		1.73198 AU
evening set	8912 Jul 01 15:23	24°9544'17		man. Darun dibu	0,111,0,120 20.17	0 %	1.,5150110
inferior conj	8912 Jul 06 21:12	21° © 35'35	4°27'19	superior conj	8914 Nov 26 19:22	9° √ 55'28	1°21'18
minimum elong	8912 Jul 07 06:22	21° © 21'27	4°24'30	minimum elong	8914 Nov 27 01:18		1°21'25
min. Earth dist.	8912 Jul 06 19:15	21° © 38'36	0.27364 AU		8914 Dec 13 01:43	0°る	
morning rise	8912 Jul 12 21:49	18° © 02'22		evening rise	8915 Jan 03 04:56	26° පි 06'04	
desc. node	8912 Jul 25 02:21	13° © 54'16		C	8915 Jan 06 08:42	0° ≈	
direct	8912 Jul 27 17:33	13° © 45'57		desc. node	8915 Jan 09 19:11	4°≈14'46	
greatest brilliancy	8912 Aug 06 12:23	15° © 32'24	-4.8m		8915 Jan 30 15:13	0° ∀	
	8912 Aug 29 21:52	$0^{\circ}\Omega$			8915 Feb 23 21:08	0° Υ	
morning max el	8912 Sep 15 00:52	14° Ω 30′05	46°00'05		8915 Mar 20 03:20	0°8	
	8912 Sep 30 09:25	0° m y			8915 Apr 13 12:38	$\Pi^{\circ}0$	
	8912 Oct 27 20:29	0∘ 亚		asc. node	8915 May 02 17:49	23° Ⅲ 21′36	
asc. node	8912 Nov 15 01:02	20° ჲ 51'25			8915 May 08 06:23	0 \circ \mathfrak{S}	
	8912 Nov 22 20:54	0° M ₊			8915 Jun 02 18:00	$\mathfrak{O}^{\circ}\mathfrak{O}$	
	8912 Dec 18 02:07	0° ∡			8915 Jun 29 21:17	0° m ∕	
	8913 Jan 11 19:16	8°0		evening max el	8915 Jul 08 03:54	8° Mp 27'36	46°24'38
	8913 Feb 05 04:41	0° ≈			8915 Aug 01 17:55	0∘ ರ	
	8913 Mar 01 08:51	0° ∀		greatest brilliancy	8915 Aug 16 00:11	8° ഫ 04'38	-4.8m
desc. node	8913 Mar 06 17:48	6°) (41′51		desc. node	8915 Aug 22 13:48	9° ჲ 56′25	
morning set	8913 Mar 13 08:16	14° ¥ 56′29		retrograde	8915 Aug 27 01:27	10° ≙ 19'49	
	8913 Mar 25 09:10	0 ° Υ		evening set	8915 Sep 11 20:52	5° ≙ 30'07	
	8913 Apr 18 06:45	$_{0\circ}$ 8		min. Earth dist.	8915 Sep 16 18:46	2° ≙ 32'43	0.28611 AU
max. Earth dist.	8913 Apr 22 04:42	4° 8 55'14	1.71247 AU	inferior conj	8915 Sep 17 12:13	2° ≙ 05'27	-5°48'07
				minimum elong	8915 Sep 17 02:12	2° ≏ 21'05	5°45'52
superior conj	8913 Apr 23 00:33	5° 8 57'35			8915 Sep 20 21:30	30°R, Mp	
minimum elong	8913 Apr 22 18:33	5° 8 38'46	1°24'58	morning rise	8915 Sep 22 07:54	29° Mp 09'15	
	8913 May 12 03:20	0°П		direct	8915 Oct 08 19:20	23° m 58'42	
evening rise	8913 Jun 02 14:07	26° ∏ 55'39		greatest brilliancy	8915 Oct 18 14:21	25° m 42'07	-4.7m
	8913 Jun 05 00:58	0ა ௐ			8915 Oct 27 21:12	0∘ ⊽	
asc. node	8913 Jun 27 15:11	28° © 12'50		morning max el	8915 Nov 26 12:25	23° △ 44'01	45°41'57
	8913 Jun 29 01:38	0° N			8915 Dec 02 21:37	0°M	
	8913 Jul 23 06:59	0° m)		asc. node	8915 Dec 13 12:56	10°M58'34	
	8913 Aug 16 18:50	0∘ ⊽			8915 Dec 30 22:59	0° ⊀ ⁷	
	8913 Sep 10 16:22	0°M			8916 Jan 25 23:09	0°ප	
	8913 Oct 06 05:24	0° 🗷			8916 Feb 20 00:28	0° ≈	
desc. node	8913 Oct 17 10:13	12° ∡ 748'16			8916 Mar 15 13:14	0°) {	
	8913 Nov 01 21:26	0°る	45052102	desc. node	8916 Apr 03 06:26	23°) €09'36	
evening max el	8913 Nov 29 18:27	28° る 47'38	45°53'02		8916 Apr 08 18:26	0° ႘ 0° Ƴ	
greatest brilliancy	8913 Dec 01 00:46 8914 Jan 08 02:58	0° ≈ 27° ≈ 17'27	-4.8m		8916 May 02 18:57 8916 May 26 17:12	0°II	
retrograde	8914 Jan 17 17:11	27 ≈1727 28°≈58'50	-4.0111	morning set	8916 May 28 11:18	0 H 2°∏12'05	
evening set	8914 Feb 01 09:01	26 ≈36 30 24°≈49'00		morning set	8916 Jun 19 15:27	0°95	
asc. node	8914 Feb 07 10:04	21°≈15'26			8910 Juli 19 13.27	0 3	
inferior conj	8914 Feb 07 15:28	21°≈07'04	0°03'26	superior conj	8916 Jul 07 03:35	21° © 53'38	-0°42'01
minimum elong	8914 Feb 07 15:19	21°≈07'17	0°03'32	minimum elong	8916 Jul 07 12:53	22° © 22'38	
transit middle	8914 Feb 07 15:19	21°≈07'17	0°03'32	max. Earth dist.	8916 Jul 10 06:11		1.71926 AU
transit begin	8914 Feb 07 11:21	21°≈13'26	· v =		8916 Jul 13 15:30	0°Ω	
transit end	8914 Feb 07 19:17	21° ≈ 01'09		asc. node	8916 Jul 25 03:15	14° Ω 18'37	
min. Earth dist.	8914 Feb 08 02:51	20° ≈ 49'25	0.27534 AU		8916 Aug 06 18:19	0° m/y	
morning rise	8914 Feb 13 20:54	17° ≈ 24'40		evening rise	8916 Aug 15 00:20	10° m) 13'32	
direct	8914 Feb 28 14:44	13° ≈ 07'11		C	8916 Aug 31 00:21	0° <u>ٽ</u>	
greatest brilliancy	8914 Mar 11 08:05	15° ≈ 15'43	-4.9m		8916 Sep 24 10:23	0°M	
-	8914 Apr 03 01:32	0° ∀			8916 Oct 19 01:59	0° ∡ ″	
morning max el	8914 Apr 20 00:52	15° ¥ 51'58	46°54'52		8916 Nov 13 01:21	5°0	
-	8914 May 03 12:45	0 ° Υ		desc. node	8916 Nov 13 21:38	1° る 00'23	
desc. node	8914 May 30 05:05	0° 8 05'27			8916 Dec 08 11:16	0° ≈	
	8914 May 30 03:12	9° 8			8917 Jan 03 12:57	0°) €	
	8914 Jun 24 11:47	$\Pi^{\circ}0$			8917 Jan 30 22:37	0 ° Υ	
	8914 Jul 19 08:03	0 \circ \odot		evening max el	8917 Feb 10 01:52	10° Y ′21′20	46°36'03
	8914 Aug 12 23:23	$0^{\circ}\Omega$			8917 Mar 03 23:28	0°8	
	8914 Sep 06 12:37	0° m		asc. node	8917 Mar 06 21:28	2° 8 10'40	
asc. node	8914 Sep 20 02:07	16° Mp 36'25		greatest brilliancy	8917 Mar 22 11:13	10° 8 50'58	-4.9m

retrograde	8917 Apr 01 06:33	12° 8 40'17			8919 Sep 15 17:57	0∘ ত	
evening set	8917 Apr 18 16:58	6° 8 48'47			•		
inferior conj	8917 Apr 21 21:48	4° 8 52'10	8°52'18	superior conj	8919 Sep 17 07:04	1° ≏ 54'38	0°56'52
minimum elong	8917 Apr 21 15:48	5° 8 01'23	8°51'38	minimum elong	8919 Sep 16 21:31	1° ≏ 25′10	0°56'31
min. Earth dist.	8917 Apr 21 18:08	4° 8 57'49	0.27103 AU	max. Earth dist.	8919 Sep 18 20:30	3° ჲ 50'17	1.73054 AU
morning rise	8917 Apr 24 14:41	3° 8 13'23			8919 Oct 10 01:17	0° M	
	8917 Apr 30 12:42	30° ₹ Υ		evening rise	8919 Oct 23 20:36	17° M 00'21	
direct	8917 May 12 13:15	27° Y 03'43			8919 Nov 03 10:10	0°⊀	
greatest brilliancy	8917 May 22 04:04	28° Y 49'10	-4.9m		8919 Nov 27 21:29	8°0	
	8917 May 25 03:46	9° 8		desc. node	8919 Dec 12 09:14	17° る 41'34	
desc. node	8917 Jun 26 16:51	24° 8 32'36			8919 Dec 22 11:43	0° ≈	
morning max el	8917 Jul 01 22:33	29° 8 40'37	46°47'07		8920 Jan 16 04:57	0° ∀	
	8917 Jul 02 06:18	Π °0			8920 Feb 10 02:07	0 ° Υ	
	8917 Jul 30 07:53	0 \circ			8920 Mar 06 07:29	9° 8	
	8917 Aug 25 13:19	0 ° Ω			8920 Apr 01 09:16	Π °0	
	8917 Sep 20 01:24	0° ™		asc. node	8920 Apr 03 08:29	2° Ⅱ 11'31	
	8917 Oct 15 03:43	0∘ ⊽		evening max el	8920 Apr 24 03:47	24° ∏ 21'16	46°57'50
asc. node	8917 Oct 17 14:36	2° ≏ 57'16			8920 Apr 29 21:01	0 \circ \odot	
	8917 Nov 08 22:38	0°M₊		greatest brilliancy	8920 Jun 03 08:18	25° © 10'50	-4.9m
	8917 Dec 03 11:34	0° ∡		retrograde	8920 Jun 13 14:21	27° © 08'51	
	8917 Dec 27 20:04	0°ප		evening set	8920 Jun 29 07:56	22° © 18'20	
morning set	8917 Dec 28 20:55	1° る 16'45		inferior conj	8920 Jul 04 10:43	19° © 13'52	4°47'44
	8918 Jan 21 01:31	0° ≈		minimum elong	8920 Jul 04 20:22	18° © 58'58	4°44'50
max. Earth dist.	8918 Feb 02 03:12	14° ≈ 59′29	1.72275 AU	min. Earth dist.	8920 Jul 04 09:42	19° © 15'27	0.27339 AU
				morning rise	8920 Jul 10 09:11	15° © 43'11	
superior conj	8918 Feb 04 22:27	18° ≈ 28'34	0°03'22	desc. node	8920 Jul 24 04:22	11° © 26'02	
minimum elong	8918 Feb 04 23:18	18° ≈ 31'13	0°03'30	direct	8920 Jul 25 06:36	11° © 24'37	
behind sun begin	8918 Feb 03 23:17	17° ≈ 16′31		greatest brilliancy	8920 Aug 04 01:52	13° © 11'11	-4.8m
behind sun end	8918 Feb 05 23:19	19° ≈ 45'55			8920 Aug 30 06:18	0 $^{\circ}\Omega$	
desc. node	8918 Feb 06 07:27	20°≈11'12		morning max el	8920 Sep 12 13:53	12° Ω 10′00	46°01'31
	8918 Feb 14 04:34	0°) €			8920 Sep 30 03:27	0° mp	
	8918 Mar 10 05:26	0°Υ 5° Ω 40320			8920 Oct 27 10:41	0∘ ⊽	
evening rise	8918 Mar 16 08:40	7° Υ 40'30		asc. node	8920 Nov 14 02:52	20° £ 19'08	
	8918 Apr 03 04:39	0° B			8920 Nov 22 09:25	0°M 0°. ₹	
	8918 Apr 27 03:54	0°∏			8920 Dec 17 13:46	0° ⊼	
1	8918 May 21 05:52	0°95			8921 Jan 11 06:28	5°0	
asc. node	8918 May 30 05:19	11° © 06'46			8921 Feb 04 15:38	0° ≈	
	8918 Jun 14 13:49	0° Ω			8921 Feb 28 19:42	0°) (1,4120	
	8918 Jul 09 07:56	0 ം ⊽ 0 ംம்		desc. node	8921 Mar 05 19:51	6°) 14′28	
	8918 Aug 03 19:23			morning set	8921 Mar 10 20:20	12°) 30′28 0° °	
	8918 Aug 30 17:13	0°M 17°M 20102	45°47'06		8921 Mar 24 19:58	0° 8	
evening max el desc. node	8918 Sep 17 00:02 8918 Sep 19 01:05	17°M39'03 19°M36'37	45-47-06	max. Earth dist.	8921 Apr 17 17:35	1° 8 59'59	1 71262 AII
desc. Hode	8918 Sep 30 14:45	0° √		max. Earth dist.	8921 Apr 19 07:46	1 03939	1.71263 AU
greatest brilliancy	8918 Oct 25 20:58	15° ∡ 55'34	-4.7m	superior conj	8921 Apr 20 11:53	3° 8 28'22	-1°23'50
retrograde	8918 Nov 04 21:23	17° × 43'58	- 	minimum elong	8921 Apr 20 04:58	3° 8 06'38	
evening set	8918 Nov 22 21:06	11° × ⁷ 38'48		minimum ciong	8921 May 11 14:12	0°II	1 23 32
inferior conj	8918 Nov 26 08:01	9° ∡ 30'09	-8°13'20	evening rise	8921 May 31 01:03	24° ∏ 25'13	
minimum elong	8918 Nov 26 14:09	9° х 20′31	8°12'31	e vennig 1150	8921 Jun 04 11:55	0°9	
min. Earth dist.	8918 Nov 26 18:26	9° × 13'47	0.29012 AU	asc. node	8921 Jun 26 17:09	27° © 44'36	
morning rise	8918 Nov 30 07:08	7° х ³03'09			8921 Jun 28 12:41	$0^{\circ}\Omega$	
direct	8918 Dec 17 20:51	1° √ 12'22			8921 Jul 22 18:11	0° m/y	
greatest brilliancy	8918 Dec 28 16:15	3° ₹ '21'04	-4.8m		8921 Aug 16 06:23	0∘ <u>v</u>	
asc. node	8919 Jan 10 00:33	9° ∡ 58'29			8921 Sep 10 04:34	0°M	
	8919 Feb 02 19:15	5°0			8921 Oct 05 18:51	0° ∡ ¹	
morning max el	8919 Feb 05 13:04	2° ප් 41'15	46°12'11	desc. node	8921 Oct 16 12:07	12° ҂ 13′20	
C	8919 Mar 03 05:50	0° ≈			8921 Nov 01 13:34	8°0	
	8919 Mar 29 05:49	0°) €		evening max el	8921 Nov 27 07:51	26° る 29'45	45°52'04
	8919 Apr 23 05:48	$0^{\circ}\Upsilon$		-	8921 Dec 01 00:48	0° ≈	
desc. node	8919 May 01 18:47	10° Y ′24'48		greatest brilliancy	8922 Jan 05 17:22	24° ≈ 59'53	-4.8m
	8919 May 17 17:35	0°8		retrograde	8922 Jan 15 06:51	26° ≈ 40'59	
	8919 Jun 10 23:15	$\Pi^{\circ}0$		evening set	8922 Jan 30 00:04	22° ≈ 29'11	
	8919 Jul 05 02:45	0 \circ \odot		inferior conj	8922 Feb 05 05:44	18° ≈ 48'34	-0°19'17
	8919 Jul 29 06:34	$0^{\circ}\Omega$		minimum elong	8922 Feb 05 06:28	18° ≈ 47′26	0°18'52
morning set	8919 Aug 10 10:35	15° Ω 05′02		min. Earth dist.	8922 Feb 05 18:15	18° ≈ 29'12	0.27577 AU
	8919 Aug 22 11:40	0° My		asc. node	8922 Feb 06 12:09	18° ≈ 01'33	
asc. node	8919 Aug 22 15:36	0° الله 12′09		morning rise	8922 Feb 11 12:04	15° ≈ 04'58	

Ι'	0000 F 1 06 05 00	100 - 47140			0004 4 20 11 20	00.0	
direct	8922 Feb 26 05:00	10°≈47'42			8924 Aug 30 11:20	0° ™	
greatest brilliancy	8922 Mar 09 00:29	12°≈58'13	-4.9m		8924 Sep 23 21:34	0° M ₊	
	8922 Apr 03 08:55	0° ∀			8924 Oct 18 13:31	0° ∡ ¹	
morning max el	8922 Apr 17 15:02	13°) € 30'47	46°54'07	desc. node	8924 Nov 12 23:32	0° る 29'48	
	8922 May 03 06:54	0° Υ			8924 Nov 12 13:31	0°ಕ	
desc. node	8922 May 29 07:03	29° Y 28′27			8924 Dec 08 00:33	0° ≈	
	8922 May 29 17:52	0°8			8925 Jan 03 04:19	0° ∀	
	8922 Jun 24 00:54	0°П			8925 Jan 30 18:49	0° Υ	
	8922 Jul 18 20:17	0ა ௐ		evening max el	8925 Feb 07 16:31	8° Ƴ 01'15	46°34'34
	8922 Aug 12 11:01	0 \circ Ω			8925 Mar 04 18:46	0° 8	
	8922 Sep 05 23:51	0° m		asc. node	8925 Mar 05 23:25	0° 8 50'33	
asc. node	8922 Sep 19 04:05	16°Mp08'30		greatest brilliancy	8925 Mar 19 23:14	8° 8 23'53	-4.9m
	8922 Sep 30 11:11	0∘ ⊽		retrograde	8925 Mar 29 19:52	10° 8 13'47	
morning set	8922 Oct 18 23:15	22° ≏ 44'15		evening set	8925 Apr 16 01:35	4° 8 28'40	
	8922 Oct 24 20:51	0° ™		inferior conj	8925 Apr 19 10:35	2° 8 25'44	8°45'10
	8922 Nov 18 05:03	0° ∡ ¹		minimum elong	8925 Apr 19 03:47	2° 8 36'11	8°44'22
max. Earth dist.	8922 Nov 23 15:56	6° ∡ ¹43'44	1.73214 AU	min. Earth dist.	8925 Apr 19 06:14	2° 8 32'25	0.27098 AU
				morning rise	8925 Apr 22 06:01	0° 8 43'04	
superior conj	8922 Nov 24 12:36	7° ∡ ¹47'31 −	1°22'19		8925 Apr 23 11:15	30° ₹ Υ	
minimum elong	8922 Nov 24 17:55	8° ∡ '03'55	1°22'28	direct	8925 May 10 02:43	24° Ƴ 37′28	
	8922 Dec 12 12:28	0°る		greatest brilliancy	8925 May 19 16:20	26° Y 22'09	-4.9m
evening rise	8922 Dec 31 20:41	23° る 52'57			8925 May 27 12:50	0° 8	
	8923 Jan 05 19:35	0° ≈		desc. node	8925 Jun 25 18:52	23° 8 37'00	
desc. node	8923 Jan 08 21:14	3°≈47′20		morning max el	8925 Jun 29 12:25	27° 8 17'58	46°48'21
	8923 Jan 30 02:19	0°) €			8925 Jul 02 04:42	Π $^{\circ}$ 0	
	8923 Feb 23 08:31	0° Υ			8925 Jul 30 00:02	0ංම	
	8923 Mar 19 15:05	0°B			8925 Aug 25 03:03	0 $^{\circ}\Omega$	
	8923 Apr 13 00:56	Π °0			8925 Sep 19 13:53	0° m p	
asc. node	8923 May 01 19:44	22° Ⅱ 48′20			8925 Oct 14 15:28	0∘ ⊽	
	8923 May 07 19:37	0°©		asc. node	8925 Oct 16 16:26	2° £ 27'35	
	8923 Jun 02 09:04	0° N			8925 Nov 08 09:56	0° M	
	8923 Jun 29 16:57	0° m	4 600 6100		8925 Dec 02 22:36	0° ∡ ¹	
evening max el	8923 Jul 05 18:55	6° Mp 10'48	46°26'09	morning set	8925 Dec 26 13:19	29° ₹ 05'28	
1 211	8923 Aug 02 15:47	0∘ ʊ	4.0		8925 Dec 27 06:58	5°0	
greatest brilliancy	8923 Aug 13 15:15	5° Ω 50'06	-4.8m	P. d. F.	8926 Jan 20 12:25	0° ≈	1 72216 444
desc. node	8923 Aug 21 15:52	7° £ 55'28		max. Earth dist.	8926 Jan 30 16:55	12° ≈ 39'04	1.72316 AU
retrograde	8923 Aug 24 17:45	8° Ω 06'37			000 (F. L. 00, 10, 20	1.60 - 0.0141	0007100
evening set	8923 Sep 09 09:57	3° Ω 20'19	0.20566 ATT	superior conj	8926 Feb 02 12:22	16°≈08'41	0°07'00
min. Earth dist.	8923 Sep 14 09:57	0° Ω 20'17	0.28566 AU	minimum elong	8926 Feb 02 14:05	16°≈13'59	0°07'05
	8923 Sep 14 22:58	30°R, Mp	5022120	behind sun begin	8926 Feb 01 15:56	15°≈05'10	
inferior conj	8923 Sep 15 03:45	29° m 52'32		behind sun end	8926 Feb 03 12:13	17°≈22'49	
minimum elong	8923 Sep 14 17:52	0° Ω 07'57	5*30*11	desc. node	8926 Feb 05 09:24	19° ≈ 43'19	
morning rise	8923 Sep 20 02:11	26° m 52'50			8926 Feb 13 15:31	0° ∀ 0° Υ	
direct	8923 Oct 06 10:27	21° m/46'20 23° m/29'59	4.7	evening rise	8926 Mar 09 16:29	5° Υ 14'42	
greatest brilliancy	8923 Oct 16 05:18		-4./111	evening rise	8926 Mar 13 21:09		
marning may al	8923 Oct 29 02:43	0° ჲ 21° ჲ 32'51	45041140		8926 Apr 02 15:50 8926 Apr 26 15:16	0°Ⅱ 8°0	
morning max el	8923 Nov 24 04:11 8923 Dec 02 17:31	0°M	45°41'48		8926 May 20 17:29	0°©	
asc. node	8923 Dec 12 15:00	10°M17'50		asc. node	8926 May 29 07:19	10°936'43	
asc. Houc	8923 Dec 12 13:00 8923 Dec 30 13:53	0° √		asc. nouc	8926 Jun 14 01:51	0°Ω	
	8924 Jan 25 12:09	% 8°0			8926 Jul 08 20:40	0° m)	
	8924 Feb 19 12:34	0° ≈			8926 Aug 03 09:32	0∘ ऌ ० ।%	
	8924 Mar 15 00:52	0° ∺			8926 Aug 30 10:46	0° ™	
desc. node	8924 Apr 02 08:15	22° ∺ 39'49		evening max el	8926 Sep 14 15:23	15°M26'28	45°47'40
dese. Hode	8924 Apr 08 05:47	0° Υ		desc. node	8926 Sep 18 02:56	18°M45'50	43 47 40
	8924 May 02 06:06	0°8		dese. Hode	8926 Sep 30 22:09	0° ∡ 7	
morning set	8924 May 25 23:07	29° 8 43'58		greatest brilliancy	8926 Oct 23 12:14	13° ∡ ¹44'58	-4.7m
	8924 May 26 04:13	0°II		retrograde	8926 Nov 02 12:44	15° ∡ ³33′28	,
	8924 Jun 19 02:22	0°50		evening set	8926 Nov 20 14:44	9° × ⁷ 25'49	
				inferior conj	8926 Nov 24 00:06	7° ∡ 19'18	-8°19'04
superior conj	8924 Jul 04 16:51	19° © 31'08	-0°45'15	minimum elong	8926 Nov 24 05:35	7° ∡ 10'40	
minimum elong	8924 Jul 05 02:40	20° © 01'48		min. Earth dist.	8926 Nov 24 09:32	7° ∡ 104'27	0.29039 AU
max. Earth dist.	8924 Jul 07 19:46	23° © 25'05	1.71888 AU	morning rise	8926 Nov 27 20:22	4° ∡ 756'17	
	8924 Jul 13 02:22	$0^{\circ}\Omega$		-	8926 Dec 08 13:28	30°RML	
asc. node	8924 Jul 24 05:17	13° Ω 51′07		direct	8926 Dec 15 13:11	29° M 01'31	
	8924 Aug 06 05:12	0° m			8926 Dec 22 17:54	0° ∡ ¹	
evening rise	8924 Aug 12 16:00	7° m , 59′42		greatest brilliancy	8926 Dec 26 07:25	1° ∡ 08'39	-4.8m

asc. node	8927 Jan 09 02:36	8° ≯ 44'46			8929 Sep 09 16:51	0°M₊	
	8927 Feb 02 17:50	0°ಕ			8929 Oct 05 08:25	0°⊀	
morning max el	8927 Feb 03 03:27	0° る 23'45	46°10'33	desc. node	8929 Oct 15 14:08	11° ∡ ³38'27	
	8927 Mar 02 21:49	0° ≈			8929 Nov 01 05:58	0°ප	
	8927 Mar 28 19:30	0° ∀		evening max el	8929 Nov 24 21:38	24° る 13'05	45°51'08
	8927 Apr 22 18:23	0 ° Υ			8929 Dec 01 02:02	0° ≈	
desc. node	8927 Apr 30 20:43	9° Ƴ 52'57		greatest brilliancy	8930 Jan 03 06:59	22° ≈ 41'31	-4.8m
	8927 May 17 05:33	0°B		retrograde	8930 Jan 12 20:56	24° ≈ 22'58	
	8927 Jun 10 10:48	$\Pi^{\circ}0$		evening set	8930 Jan 27 15:11	20°≈08'50	
	8927 Jul 04 14:01	0∘ ௐ		inferior conj	8930 Feb 02 19:52	16° ≈ 29'38	-0°41'52
	8927 Jul 28 17:38	$0^{\circ}\Omega$		minimum elong	8930 Feb 02 21:27	16° ≈ 27'10	
morning set	8927 Aug 08 01:52	12° Ω 49'46		min. Earth dist.	8930 Feb 03 09:09	16° ≈ 09'05	0.27627 AU
asc. node	8927 Aug 21 17:30	29° Ω 44'22		asc. node	8930 Feb 05 14:04	14°≈47'59	0.27027110
ase. Houe	8927 Aug 21 22:33	0°m		morning rise	8930 Feb 09 02:57	12°≈45'14	
	6927 Aug 21 22.55	עוו ט		direct	8930 Feb 23 19:37	8°≈27'47	
aumariar aani	9027 Can 14 22:52	200 m 45105	0054120			0 ≈2747 10°≈39'48	-4.9m
superior conj	8927 Sep 14 23:52	29° Mp 45'05	0°54'20	greatest brilliancy	8930 Mar 06 16:22	10 ≈3948 0°) {	-4.9111
minimum elong	8927 Sep 14 14:27	29° m 16'00	0°53'57		8930 Apr 03 14:18		46052115
	8927 Sep 15 04:42	0∘ ⊽		morning max el	8930 Apr 15 06:12	11°) 11'50	46°53'17
max. Earth dist.	8927 Sep 16 15:28	1° Ω 47'22	1.73025 AU		8930 May 03 00:45	0° Υ	
	8927 Oct 09 12:01	0°M		desc. node	8930 May 28 09:06	28° Y 51'45	
evening rise	8927 Oct 21 14:07	14°M53'18			8930 May 29 08:25	0°8	
	8927 Nov 02 21:02	0° √			8930 Jun 23 13:54	Π °0	
	8927 Nov 27 08:36	0°る			8930 Jul 18 08:23	0	
desc. node	8927 Dec 11 11:17	17° る 13'21			8930 Aug 11 22:31	$0 {\circ} \Omega$	
	8927 Dec 21 23:13	0° ≈			8930 Sep 05 10:56	O° Mp	
	8928 Jan 15 17:01	0°) €		asc. node	8930 Sep 18 05:55	15° Mp 40'33	
	8928 Feb 09 15:01	$0^{\circ}\mathbf{\Upsilon}$			8930 Sep 29 22:01	0∘ ⊽	
	8928 Mar 05 21:47	0°8		morning set	8930 Oct 16 16:19	20° £ 36′10	
	8928 Apr 01 02:27	$\Pi^{\circ}0$		Č	8930 Oct 24 07:31	o° m ₊	
asc. node	8928 Apr 02 10:25	1° Ⅱ 28'30			8930 Nov 17 15:39	0° ⊼	
evening max el	8928 Apr 21 16:24	21° Ⅲ 54'51	46°57'58	max. Earth dist.	8930 Nov 21 13:02	4° х 48′05	1.73227 AU
o ronning man or	8928 Apr 29 22:55	0.00	10 27 20	man. Bartir dist.	0,501.10.7 21 15.02		1.73227110
greatest brilliancy	8928 May 31 23:52	22°5649'35	-4.9m	superior conj	8930 Nov 22 06:00	5° х 40′26	1°23'12
retrograde	8928 Jun 11 03:31	24° © 45'55	- 1 .7III	minimum elong	8930 Nov 22 10:42	5° × 7 54'56	1°23'22
-	8928 Jun 27 00:33	19° 9 51'29		minimum ciong		0°る	1 23 22
evening set			5907127		8930 Dec 11 23:05	0°る 21° る 41'00	
inferior conj	8928 Jul 02 00:14	16°951'36	5°07'36	evening rise	8930 Dec 29 12:38		
minimum elong	8928 Jul 02 10:17	16°936'04	5°04'40		8931 Jan 05 06:20	0°≈	
min. Earth dist.	8928 Jul 02 00:14	16° © 51'36	0.27318 AU	desc. node	8931 Jan 07 23:12	3°≈20'10	
morning rise	8928 Jul 07 20:19	13° © 23'54			8931 Jan 29 13:18	0° ∀	
direct	8928 Jul 22 19:16	9° 5 02'29			8931 Feb 22 19:49	0° Υ	
desc. node	8928 Jul 23 06:25	9° © 02'44			8931 Mar 19 02:49	0°8	
greatest brilliancy	8928 Aug 01 15:44	10° © 49'48	-4.8m		8931 Apr 12 13:16	Π $^{\circ}0$	
	8928 Aug 30 12:31	$0 {\circ} \Omega$		asc. node	8931 Apr 30 21:45	22° Ⅱ 15′20	
morning max el	8928 Sep 10 03:06	9° Ω 49'46	46°03'05		8931 May 07 08:54	0 \circ \odot	
	8928 Sep 29 21:10	O° Mp			8931 Jun 02 00:16	$0^{\circ}\Omega$	
	8928 Oct 27 00:49	0∘ ⊽			8931 Jun 29 13:04	0° m	
asc. node	8928 Nov 13 04:56	19° ≏ 47'23		evening max el	8931 Jul 03 10:39	3° Mp 56'14	46°27'53
	8928 Nov 21 21:56	0°M			8931 Aug 03 21:43	0∘ ত	
	8928 Dec 17 01:30	0° ∡ ¹		greatest brilliancy	8931 Aug 11 06:17	3° ≏ 36'05	-4.8m
	8929 Jan 10 17:47	6°0		desc. node	8931 Aug 20 17:43	5° £ 50'23	
	8929 Feb 04 02:45	0° ≈		retrograde	8931 Aug 22 10:15	5° Ω 53'46	
	8929 Feb 28 06:43	0° ∀		evening set	8931 Sep 06 23:13	1° ⊆ 10'52	
desc. node	8929 Mar 04 21:43	5°) (45'56		evening sec	8931 Sep 09 00:06	30°R, Mp	
morning set	8929 Mar 08 08:10	10°) 03'11		min. Earth dist.	8931 Sep 12 00:51		0.28517 AU
morning set	8929 Mar 24 06:55	0° Υ		inferior conj	8931 Sep 12 00:31 8931 Sep 12 19:14	27° m 39'59	
max. Earth dist.		29° Υ 10'25	1.71276 AU			-	
max. Earth dist.	8929 Apr 16 12:45		1./12/6 AU	minimum elong	8931 Sep 12 09:32	27° Mp 55'06	5-14-02
	8929 Apr 17 04:31	0° 8		morning rise	8931 Sep 17 20:22	24° Mp 36'51	
	0000 4 17 00 5	000000	1022124	direct	8931 Oct 04 01:57	19° Mp 34'33	4.7
superior conj	8929 Apr 17 22:55	0° 8 57'49		greatest brilliancy	8931 Oct 13 19:37	21° Mp 17'41	-4.7m
minimum elong	8929 Apr 17 15:09	0° 8 33'24	1°22'34		8931 Oct 29 23:43	0∘ ⊽	
	8929 May 11 01:10	$\Pi^{\circ}0$		morning max el	8931 Nov 21 20:08	19° ≏ 22'56	45°41'39
evening rise	8929 May 28 11:51	21° ∏ 54'15			8931 Dec 02 12:32	0° M	
	8929 Jun 03 22:55	0 \circ \odot		asc. node	8931 Dec 11 16:56	9°M37'56	
asc. node	8929 Jun 25 19:11	27° © 16'28			8931 Dec 30 04:19	0°⊀	
	8929 Jun 27 23:46	$0^{\circ}\Omega$			8932 Jan 25 00:47	8°0	
	8929 Jul 22 05:28	0° m			8932 Feb 19 00:20	0° ≈	
	8929 Aug 15 18:01	0∘ ⊽			8932 Mar 14 12:12	0° ∀	
	Č						

desc. node	8932 Apr 01 10:13 8932 Apr 07 16:53	22°¥11'16 0° °		evening max el desc. node	8934 Sep 12 05:59 8934 Sep 17 04:59	13°M12'57 17°M55'30	45°48'28
morning set	8932 May 01 17:04 8932 May 23 10:28 8932 May 25 15:04	0°8 27°814'59 0°用		greatest brilliancy retrograde	8934 Oct 01 07:44 8934 Oct 21 03:53 8934 Oct 31 04:07	0° ⊀ 11° ⊀ 35'58 13° ⊀ 24'36	-4.7m
	8932 Jun 18 13:07	0° ©		evening set	8934 Nov 18 08:15	7° ∡ 14'42	
superior conj	8932 Jul 02 05:32	17° 5 07'21	-0°48'27	inferior conj minimum elong	8934 Nov 21 16:20 8934 Nov 21 21:07	5° ₹ 10'04 5° ₹ 02'32	-8°24'07 8°23'33
minimum elong	8932 Jul 02 15:50	17° © 39'31		min. Earth dist.	8934 Nov 22 00:59	4° ∡ 756′26	0.29063 AU
max. Earth dist.	8932 Jul 05 09:56		1.71843 AU	morning rise	8934 Nov 25 09:54	2° ∡ ¹50'54	
1	8932 Jul 12 13:03	0° Ω		Ti d	8934 Nov 30 14:24	30°₹M.	
asc. node	8932 Jul 23 07:08 8932 Aug 05 15:51	13° Ω 23'44 0° m		direct greatest brilliancy	8934 Dec 13 05:08 8934 Dec 23 23:10	26°M52'10 28°M58'27	-4.8m
evening rise	8932 Aug 10 07:10	5°Mp45'06		greatest brilliancy	8934 Dec 26 11:06	0° √	4.0111
J	8932 Aug 29 22:02	0∘ ⊽		asc. node	8935 Jan 08 04:32	7° ∡ ³34'13	
	8932 Sep 23 08:27	0° M		morning max el	8935 Jan 31 17:39	28° ∡ '07'08	46°09'01
4 4-	8932 Oct 18 00:46	0° 조 00'30			8935 Feb 02 15:02	್ %%	
desc. node	8932 Nov 12 01:36 8932 Nov 12 01:26	0。名			8935 Mar 02 13:06 8935 Mar 28 08:40	0° ∺	
	8932 Dec 07 13:37	0° ≈			8935 Apr 22 06:29	0°Υ	
	8933 Jan 02 19:32	0° ∀		desc. node	8935 Apr 29 22:46	9° Y 22'51	
	8933 Jan 30 15:12	0° Υ			8935 May 16 17:02	0°B	
evening max el	8933 Feb 05 06:58	5° Υ 41'56 29° Υ 28'55	46°32'59		8935 Jun 09 21:54	0° ©	
asc. node	8933 Mar 05 01:18 8933 Mar 05 20:11	0° 8			8935 Jul 04 00:52 8935 Jul 28 04:18	0°€	
greatest brilliancy	8933 Mar 17 11:44	5° 8 58'45	-4.9m	morning set	8935 Aug 05 17:01	10° Ω 35'08	
retrograde	8933 Mar 27 08:43	7° 8 48'27		asc. node	8935 Aug 20 19:25	29° Ω 17'45	
evening set	8933 Apr 13 10:06	2° 8 10'12			8935 Aug 21 09:04	0° ™	
inferior conj	8933 Apr 16 23:24	0° 8 00'39			9025 C 12 16:20	270 m, 2515 (0051141
minimum elong	8933 Apr 16 15:50 8933 Apr 16 23:49	0° ႘ 12'17 30° ℝ Υ	8°36'08	superior conj minimum elong	8935 Sep 12 16:29 8935 Sep 12 07:14	27° m 35'56 27° m 07'21	0°51'41 0°51'17
min. Earth dist.	8933 Apr 16 18:41	0° 8 07'55	0.27095 AU	max. Earth dist.	8935 Sep 14 07:51	29° m 37'32	1.72996 AU
morning rise	8933 Apr 19 21:38	28° Y 13'39			8935 Sep 14 15:08	0∘ ⊽	
direct	8933 May 07 16:00	22° Y 12'32			8935 Oct 08 22:27	0°M	
greatest brilliancy	8933 May 17 05:08 8933 May 29 01:05	23° Y 56'39 0° と	-4.9m	evening rise	8935 Oct 19 07:28	12° ™ 46'45 0° ҂	
desc. node	8933 Jun 24 20:51	22° 8 43'11			8935 Nov 02 07:35 8935 Nov 26 19:23	0 x.	
morning max el	8933 Jun 27 01:22	24° 8 53'37	46°49'24	desc. node	8935 Dec 10 13:12	16° る 45'49	
	8933 Jul 02 01:59	$\Pi^{\circ}0$			8935 Dec 21 10:24	0° ≈	
	8933 Jul 29 15:42	0°©			8936 Jan 15 04:46	0°) €	
	8933 Aug 24 16:25 8933 Sep 19 02:00	0° №			8936 Feb 09 03:39	იაგ 0∘ ჯ	
	8933 Oct 14 02:49	0∘ ʊ 0 ıılı			8936 Mar 05 11:54 8936 Mar 31 19:36	0°II	
asc. node	8933 Oct 15 18:30	1° ≏ 59'39		asc. node	8936 Apr 01 12:32	0° Ⅱ 46'35	
	8933 Nov 07 20:49	0°M₊		evening max el	8936 Apr 19 04:52	19° Ⅱ 29'20	46°58'11
	8933 Dec 02 09:13	0° ∡			8936 Apr 30 01:45	0°95	
morning set	8933 Dec 24 05:49 8933 Dec 26 17:30	26° メ 55'43 0°る		greatest brilliancy retrograde	8936 May 29 15:12 8936 Jun 08 17:13	20°\$29'36 22°\$24'57	-4.9m
	8934 Jan 19 22:56	0° ≈		evening set	8936 Jun 24 17:22	17°926'07	
max. Earth dist.	8934 Jan 28 05:55		1.72356 AU	inferior conj	8936 Jun 29 13:55	14° © 31'03	5°26'48
				minimum elong	8936 Jun 30 00:19	14° © 15'01	5°23'52
superior conj	8934 Jan 31 02:42	13°≈51'16	0°10'35	min. Earth dist.	8936 Jun 29 14:45	14°529'46	0.27300 AU
minimum elong behind sun begin	8934 Jan 31 05:14 8934 Jan 30 10:46	13°≈59'11 13°≈01'47	0°10'38	morning rise direct	8936 Jul 05 07:27 8936 Jul 20 08:02	11°506'52 6°541'53	
behind sun end	8934 Jan 31 23:42	13 ≈0147 14°≈56'35		desc. node	8936 Jul 22 08:17	6°9346'37	
desc. node	8934 Feb 04 11:17	19° ≈ 16′22		greatest brilliancy	8936 Jul 30 05:43	8°530'11	-4.8m
	8934 Feb 13 02:06	0°) €			8936 Aug 30 16:10	$0^{\circ}\Omega$	
-	8934 Mar 09 03:09	0°Υ 2°W51124		morning max el	8936 Sep 07 17:14	7° Ω 32'49	46°04'34
evening rise	8934 Mar 11 10:02 8934 Apr 02 02:37	2° Y 51'34 0° と			8936 Sep 29 14:07 8936 Oct 26 14:30	0ം ⊽ 0ംൂ⊅	
	8934 Apr 26 02:14	0°II		asc. node	8936 Nov 12 06:53	0 = 19° £ 16'13	
	8934 May 20 04:45	0 . ತ			8936 Nov 21 10:08	0°M	
asc. node	8934 May 28 09:20	10°507'49			8936 Dec 16 12:55	0° ∡ ¹	
	8934 Jun 13 13:34	0° N			8937 Jan 10 04:47	6°00	
	8934 Jul 08 09:08 8934 Aug 02 23:30	0 ் ம 0° மி			8937 Feb 03 13:33 8937 Feb 27 17:24	0° Ж	
	8934 Aug 30 04:22	0° M		desc. node	8937 Feb 27 17:24 8937 Mar 03 23:39	0° X 5° X 18'38	
	3,3146 30 07.22	5 II 5		2000. 11040	5,5,ui 05 25.5)	2 /(1030	

morning set	8937 Mar 05 20:13	7° 升 37'39		min. Earth dist.	8939 Sep 09 15:56	25° m 56'45	0.28463 AU
morning set	8937 Mar 03 20:13 8937 Mar 23 17:36	0° Υ		inferior conj	8939 Sep 10 10:44	25° m) 27'29	
max. Earth dist.	8937 Apr 13 20:32		1.71294 AU	minimum elong	8939 Sep 10 10:44	25° m 42'10	
max. Lartii dist.	0757 Apr 15 20.52	20 13020	1./12/4/10	morning rise	8939 Sep 15 14:29	22° m/20'50	4 37 23
superior conj	8937 Apr 15 10:04	28° Y 28′25	-1°21'09	direct	8939 Oct 01 17:38	17° m) 23'02	
minimum elong	8937 Apr 15 01:31	28° Υ 01'31		greatest brilliancy	8939 Oct 11 09:30	19° m) 04'58	-4.7m
	8937 Apr 16 15:13	0°8		8	8939 Oct 30 15:09	0∘ ⊽	
	8937 May 10 11:53	0° I I		morning max el	8939 Nov 19 11:34	17° ≏ 11'51	45°41'26
evening rise	8937 May 25 22:52	19° Ⅱ 24'41		C	8939 Dec 02 07:02	0° M	
-	8937 Jun 03 09:40	0°ಅ		asc. node	8939 Dec 10 18:52	8°M58'22	
asc. node	8937 Jun 24 21:02	26°5548'39			8939 Dec 29 18:39	0°∡7	
	8937 Jun 27 10:35	$0^{\circ}\Omega$			8940 Jan 24 13:29	5°0	
	8937 Jul 21 16:28	0° m			8940 Feb 18 12:14	0° ≈	
	8937 Aug 15 05:23	0∘ 亚			8940 Mar 13 23:40	0° ∀	
	8937 Sep 09 04:57	0° M		desc. node	8940 Mar 31 12:17	21°) 42'39	
	8937 Oct 04 21:53	0° ∡ ¹			8940 Apr 07 04:06	0 ° Υ	
desc. node	8937 Oct 14 16:10	11° ₹ 03'58			8940 May 01 04:07	0° 8	
	8937 Oct 31 22:29	0°ಕ		morning set	8940 May 20 21:41	24° 8 45'13	
evening max el	8937 Nov 22 12:32	21° る 59'46	45°50'17		8940 May 25 02:00	0°Щ	
	8937 Dec 01 04:27	0° ≈			8940 Jun 17 24:00	0	
greatest brilliancy	8937 Dec 31 20:32	20°≈24'02	-4.8m				
retrograde	8938 Jan 10 11:24	22°≈05'53		superior conj	8940 Jun 29 18:08	14°5542'41	
evening set	8938 Jan 25 06:41	17°≈49'28	100 411 1	minimum elong	8940 Jun 30 04:49	15°5516'06	
inferior conj	8938 Jan 31 10:08	14°≈11'41		max. Earth dist.	8940 Jul 03 00:08	18°546'29	1.71802 AU
minimum elong	8938 Jan 31 12:34	14°≈07'55		1-	8940 Jul 11 23:54	0°Ω	
min. Earth dist. asc. node	8938 Jan 31 23:55 8938 Feb 04 16:00	13°≈50'23 11°≈37'03	0.27677 AU	asc. node	8940 Jul 22 09:07 8940 Aug 05 02:43	12° Ω 56'09 0° m	
morning rise	8938 Feb 04 16:00 8938 Feb 06 17:45	11 ≈3703 10°≈26'46		evening rise	8940 Aug 03 02.43 8940 Aug 07 22:14	رابا 0 3°Mp 29′21	
direct	8938 Feb 21 10:49	6°≈09'05		evening rise	8940 Aug 29 08:58	0° ⊽	
greatest brilliancy	8938 Mar 04 07:43	8°≈21'44	-4.9m		8940 Sep 22 19:32	0° m .	
greatest orimancy	8938 Apr 03 17:33	0°) €	-4.7111		8940 Oct 17 12:14	0° ⊼	
morning max el	8938 Apr 12 21:53	8° ₩ 55'01	46°52'16	desc. node	8940 Nov 11 03:32	29° ₹ 30'12	
moming man vi	8938 May 02 18:01	0°Υ	.0 0210	acse. noue	8940 Nov 11 13:35	0°る	
desc. node	8938 May 27 10:59	28° Υ 15'20			8940 Dec 07 03:00	0° ≈	
	8938 May 28 22:39	0°8			8941 Jan 02 11:17	0°) €	
	8938 Jun 23 02:41	0°II			8941 Jan 30 12:42	0° Υ	
	8938 Jul 17 20:17	0°€		evening max el	8941 Feb 02 20:47	3° Y 20'04	46°31'16
	8938 Aug 11 09:51	$0^{\circ}\Omega$		asc. node	8941 Mar 04 03:26	28° Y 03'47	
	8938 Sep 04 21:51	0° m			8941 Mar 07 08:55	0°8	
asc. node	8938 Sep 17 07:58	15° m 13'47		greatest brilliancy	8941 Mar 15 00:59	3° 8 33'23	-4.9m
	8938 Sep 29 08:40	0∘ ⊽		retrograde	8941 Mar 24 21:07	5° 8 22'13	
morning set	8938 Oct 14 09:35	18° ≏ 29'08		evening set	8941 Apr 10 18:34	29° Y ′51′04	
	8938 Oct 23 18:03	0°M₊			8941 Apr 10 12:28	30° ₹Ƴ	
	8938 Nov 17 02:10	0°⊀		inferior conj	8941 Apr 14 12:17	27° Y °34′50	
		_		minimum elong	8941 Apr 14 04:02	27° Y '47'34	8°26'55
superior conj	8938 Nov 19 23:30	3° ₹ 33'52		min. Earth dist.	8941 Apr 14 07:38	27° Y ′42′01	0.27091 AU
minimum elong	8938 Nov 20 03:34	3°×746'23	1°24'09	morning rise	8941 Apr 17 13:32	25° Y 43'07	
max. Earth dist.	8938 Nov 19 10:14	2° ≯ 52'57	1.73241 AU	direct	8941 May 05 04:39	19° ℃ 46'45	4.0
avanina rias	8938 Dec 11 09:40 8938 Dec 27 04:34	0°る 19°る29'05		greatest brilliancy	8941 May 14 18:34	21° Ƴ 31'01 0° ႘	-4.9m
evening rise				dasa nada	8941 May 30 03:08		
desc. node	8939 Jan 04 17:04 8939 Jan 07 01:04	0° ≈ 2° ≈ 52'47		desc. node morning max el	8941 Jun 23 22:49 8941 Jun 24 13:34	21° 8 49'36 22° 8 26'27	46°50'26
desc. Hode	8939 Jan 29 00:15	2 ≈3247 0° H		morning max ci	8941 Jul 01 22:49	22 О 2027	40 30 20
	8939 Feb 22 07:06	0° Υ			8941 Jul 29 07:22	0°©	
	8939 Mar 18 14:31	0°8			8941 Aug 24 05:57	0°N	
	8939 Apr 12 01:36	0°II			8941 Sep 18 14:22	0° m/y	
asc. node	8939 Apr 29 23:44	21° I I42'03			8941 Oct 13 14:27	0∘ ⊽	
	8939 May 06 22:17	0°9		asc. node	8941 Oct 14 20:26	1° ≏ 30'29	
	8939 Jun 01 15:43	0°N			8941 Nov 07 08:00	0°M	
	8939 Jun 29 09:56	0° m p			8941 Dec 01 20:08	0° ∡ ″	
evening max el	8939 Jul 01 03:00	1° m 42'59	46°29'32	morning set	8941 Dec 21 22:35	24° ∡ ³45'49	
	8939 Aug 05 17:54	0∘ ⊽			8941 Dec 26 04:19	0°ಕ	
greatest brilliancy	8939 Aug 08 21:58	1° ≏ 22'47	-4.8m		8942 Jan 19 09:47	0° ≈	
desc. node	8939 Aug 19 19:48	3° ≏ 40'36		max. Earth dist.	8942 Jan 25 20:25	7° ≈ 59'52	1.72403 AU
retrograde	8939 Aug 20 02:40	3° ≏ 40'42					
	8939 Sep 02 17:07	30°R Mp		superior conj	8942 Jan 28 17:12	11° ≈ 33′28	0°14'07
evening set	8939 Sep 04 12:44	29° m 01'21		minimum elong	8942 Jan 28 20:33	11° ≈ 43'54	0°14'09

1.1:1. 1. :	0042 1 20 00 55	11007145		1: 4	0044 1 1 17 20 54	40610124	
behind sun begin	8942 Jan 28 08:55	11°≈07'45		direct	8944 Jul 17 20:54	4°518'34	
behind sun end	8942 Jan 29 08:11	12° ≈ 20′03		desc. node	8944 Jul 21 10:21	4° © 33'21	
desc. node	8942 Feb 03 13:19	18°≈48'51		greatest brilliancy	8944 Jul 27 19:01	6° © 07'36	-4.8m
	8942 Feb 12 13:03	0° ∀			8944 Aug 30 18:56	0 $^{\circ}\Omega$	
evening rise	8942 Mar 08 22:54	0° Y 27′12		morning max el	8944 Sep 05 08:01	5° Ω 15'47	46°06'07
	8942 Mar 08 14:12	0 ° $\mathbf{\gamma}$			8944 Sep 29 07:14	0° m y	
	8942 Apr 01 13:49	9° 8			8944 Oct 26 04:30	0∘ ত	
	8942 Apr 25 13:38	Π $^{\circ}0$		asc. node	8944 Nov 11 08:44	18° ≏ 43'38	
	8942 May 19 16:26	0 \circ \odot			8944 Nov 20 22:41	0° M	
asc. node	8942 May 27 11:12	9° © 37'11			8944 Dec 16 00:43	0° ∡ ¹	
	8942 Jun 13 01:43	$0^{\circ}\Omega$			8945 Jan 09 16:11	გ∘ე	
	8942 Jul 07 22:06	0° m/			8945 Feb 03 00:42	0° ≈	
	8942 Aug 02 14:05	0∘ ರ			8945 Feb 27 04:26	0° ∀	
	8942 Aug 29 22:56	o° m .		morning set	8945 Mar 03 08:47	5°) 12'44	
	-		45940110	•		4°) 50'37	
evening max el	8942 Sep 09 20:11	10°M57'03	45 49 18	desc. node	8945 Mar 03 01:42		
desc. node	8942 Sep 16 07:04	17°M02'53		m at the	8945 Mar 23 04:35	0°Υ 222 0 05244	
	8942 Oct 01 21:32	0° ∡ ¹		max. Earth dist.	8945 Apr 11 07:34	23° Y 59'40	1.71314 AU
greatest brilliancy	8942 Oct 18 19:10	9° ≯ 25′10	-4.7m				
retrograde	8942 Oct 28 19:43	11° ≯ 14'34		superior conj	8945 Apr 12 21:24	25° Y 58'33	
evening set	8942 Nov 16 01:27	5° ∡ 02'35		minimum elong	8945 Apr 12 12:07	25° Y 29'24	1°19'28
inferior conj	8942 Nov 19 08:32	2° ∡ ¹59'35	-8°28'26		8945 Apr 16 02:14	0°B	
minimum elong	8942 Nov 19 12:36	2° ∡ 753'11	8°27'58		8945 May 09 22:57	Π $^{\circ}0$	
min. Earth dist.	8942 Nov 19 16:24	2° ∡ ¹47'10	0.29084 AU	evening rise	8945 May 23 09:50	16° Ⅱ 53'46	
morning rise	8942 Nov 22 23:38	0° ∡ 744'07		C	8945 Jun 02 20:47	0°ಅ	
S	8942 Nov 24 05:16	30°RM₊		asc. node	8945 Jun 23 23:01	26° © 19'55	
direct	8942 Dec 10 20:43	24°M41'29			8945 Jun 26 21:49	$0^{\circ}\Omega$	
greatest brilliancy	8942 Dec 21 15:05	26°M47'30	-4.8m		8945 Jul 21 03:55	0° my	
greatest orimancy	8942 Dec 28 11:46	20 11 0 47 30	- 4 .0III		8945 Aug 14 17:14	0° ت الله	
1-		6° ₹ 24'34			•		
asc. node	8943 Jan 07 06:30		4 < 0.0 712 5		8945 Sep 08 17:32	0°M	
morning max el	8943 Jan 29 08:21	25° ₹ 50'46	46°07'35		8945 Oct 04 11:55	0° ∡ 7	
	8943 Feb 02 11:54	0°ಕ		desc. node	8945 Oct 13 18:05	10° ∡ 27'39	
	8943 Mar 02 04:34	0° ≈			8945 Oct 31 15:47	0°る	
	8943 Mar 27 22:09	0° ∀		evening max el	8945 Nov 20 04:07	19° る 47'02	45°49'26
	8943 Apr 21 19:00	0 ° $\mathbf{\Upsilon}$			8945 Dec 01 09:06	0° ≈	
desc. node	8943 Apr 29 00:39	8° Ƴ 50'49		greatest brilliancy	8945 Dec 29 10:15	18° ≈ 05'51	-4.8m
	8943 May 16 04:59	8°		retrograde	8946 Jan 08 01:41	19° ≈ 47'40	
	8943 Jun 09 09:29	$\Pi^{\circ}0$		evening set	8946 Jan 22 22:22	15° ≈ 29'08	
	8943 Jul 03 12:11	0ಂತಾ		inferior conj	8946 Jan 29 00:22	11° ≈ 52'50	-1°26'28
	8943 Jul 27 15:23	$0^{\circ}\Omega$		minimum elong	8946 Jan 29 03:38	11° ≈ 47'48	1°25'15
morning set	8943 Aug 03 07:49	8° Ω 17'55		min. Earth dist.	8946 Jan 29 14:37	11° ≈ 30'49	0.27722 AU
asc. node	8943 Aug 19 21:26	28° Ω 50'06		asc. node	8946 Feb 03 18:06	8° ≈ 27'00	0,2,,,2
use. Houe	8943 Aug 20 20:00	0° m		morning rise	8946 Feb 04 08:17	8°≈07'32	
	6943 Aug 20 20.00	עוו ט		direct	8946 Feb 19 02:12	3°≈49'44	
	9042 C 10 09.52	250 m 24142	0040157				4.0
superior conj	8943 Sep 10 08:53	25° m) 24'43	0°48'57	greatest brilliancy	8946 Mar 01 22:38	6°≈02'17	-4.8m
minimum elong	8943 Sep 09 23:51	24° m 56'47	0°48'32		8946 Apr 03 19:33	0° ∀	
max. Earth dist.	8943 Sep 11 23:48	27° m 24'58	1.72970 AU	morning max el	8946 Apr 10 13:09	6°) (36′37	46°51'18
	8943 Sep 14 01:59	0∘ ত			8946 May 02 11:08	0 ° \mathbf{Y}	
		$\alpha \alpha m$					
evening rise	8943 Oct 08 09:20	0°M		desc. node	8946 May 26 12:57	27° Y 38'53	
e vening rise	8943 Oct 08 09:20 8943 Oct 17 00:51	10°M38'58		desc. node		$0^{\circ}B$	
evening rise				desc. node	8946 May 26 12:57		
evening rise	8943 Oct 17 00:51	10°M38'58		desc. node	8946 May 26 12:57 8946 May 28 12:54	$0^{\circ}B$	
desc. node	8943 Oct 17 00:51 8943 Nov 01 18:35	10°MJ38'58 0°⊀		desc. node	8946 May 26 12:57 8946 May 28 12:54 8946 Jun 22 15:34	0°B 0°B	
ū	8943 Oct 17 00:51 8943 Nov 01 18:35 8943 Nov 26 06:37 8943 Dec 09 15:08	10°M38'58 0°♂ 0°♂		desc. node	8946 May 26 12:57 8946 May 28 12:54 8946 Jun 22 15:34 8946 Jul 17 08:23 8946 Aug 10 21:25	0°Ω 0°Ω 0°S	
ū	8943 Oct 17 00:51 8943 Nov 01 18:35 8943 Nov 26 06:37 8943 Dec 09 15:08 8943 Dec 20 22:00	10°M38'58 0°♂ 0°♂ 16°♂16'58 0°≈			8946 May 26 12:57 8946 May 28 12:54 8946 Jun 22 15:34 8946 Jul 17 08:23 8946 Aug 10 21:25 8946 Sep 04 09:04	0° M 0° S 0° S 0° S 0° S	
ū	8943 Oct 17 00:51 8943 Nov 01 18:35 8943 Nov 26 06:37 8943 Dec 09 15:08 8943 Dec 20 22:00 8944 Jan 14 16:57	10°M38'58 0°♂ 0°♂ 16°♂16'58 0°≈ 0°∺		desc. node	8946 May 26 12:57 8946 May 28 12:54 8946 Jun 22 15:34 8946 Jul 17 08:23 8946 Aug 10 21:25 8946 Sep 04 09:04 8946 Sep 16 09:53	0° U 0° U 0° S 0° U 0° U 14° U 45'44	
ū	8943 Oct 17 00:51 8943 Nov 01 18:35 8943 Nov 26 06:37 8943 Dec 09 15:08 8943 Dec 20 22:00 8944 Jan 14 16:57 8944 Feb 08 16:44	10°™38'58 0°♂ 0°♂ 16°♂16'58 0°≈ 0°升 0°Υ		asc. node	8946 May 26 12:57 8946 May 28 12:54 8946 Jun 22 15:34 8946 Jul 17 08:23 8946 Aug 10 21:25 8946 Sep 04 09:04 8946 Sep 16 09:53 8946 Sep 28 19:38	0°8 0°1 0°5 0°8 0°8 0°1 14°145'44 0°9	
desc. node	8943 Oct 17 00:51 8943 Nov 01 18:35 8943 Nov 26 06:37 8943 Dec 09 15:08 8943 Dec 20 22:00 8944 Jan 14 16:57 8944 Feb 08 16:44 8944 Mar 05 02:35	10°M38'58 0°ダ 0°G 16°G16'58 0°≈ 0°升 0°Y			8946 May 26 12:57 8946 May 28 12:54 8946 Jun 22 15:34 8946 Jul 17 08:23 8946 Aug 10 21:25 8946 Sep 04 09:04 8946 Sep 16 09:53 8946 Sep 28 19:38 8946 Oct 12 02:34	0°႘ 0°Д 0°Ω 0°№ 14°№45'44 0°Ω 16°Ω20'25	
ū	8943 Oct 17 00:51 8943 Nov 01 18:35 8943 Nov 26 06:37 8943 Dec 09 15:08 8943 Dec 20 22:00 8944 Jan 14 16:57 8944 Feb 08 16:44 8944 Mar 05 02:35 8944 Mar 31 14:25	10°M38'58 0°ダ 0°℧ 16°℧16'58 0°≈ 0°升 0°介 0°႘ 0°用02'05		asc. node	8946 May 26 12:57 8946 May 28 12:54 8946 Jun 22 15:34 8946 Jul 17 08:23 8946 Aug 10 21:25 8946 Sep 04 09:04 8946 Sep 16 09:53 8946 Sep 28 19:38 8946 Oct 12 02:34 8946 Oct 23 04:51	0°8 0°1 0°5 0°1 0°1 14°145'44 0°1 16°120'25 0°1	
desc. node	8943 Oct 17 00:51 8943 Nov 01 18:35 8943 Nov 26 06:37 8943 Dec 09 15:08 8943 Dec 20 22:00 8944 Jan 14 16:57 8944 Feb 08 16:44 8944 Mar 05 02:35 8944 Mar 31 14:25 8944 Mar 31 13:39	10°M38'58 0°ダ 0°5 16°516'58 0°≈ 0°升 0°Y 0°Y 0°B 0°I02'05 0°I	1 2050!! 1	asc. node	8946 May 26 12:57 8946 May 28 12:54 8946 Jun 22 15:34 8946 Jul 17 08:23 8946 Aug 10 21:25 8946 Sep 04 09:04 8946 Sep 16 09:53 8946 Sep 28 19:38 8946 Oct 12 02:34	0°႘ 0°Д 0°Ω 0°№ 14°№45'44 0°Ω 16°Ω20'25	
desc. node	8943 Oct 17 00:51 8943 Nov 01 18:35 8943 Nov 26 06:37 8943 Dec 09 15:08 8943 Dec 20 22:00 8944 Jan 14 16:57 8944 Feb 08 16:44 8944 Mar 05 02:35 8944 Mar 31 14:25 8944 Mar 31 13:39 8944 Apr 16 17:55	10°M38'58 0°♂ 0°♂ 16°♂16'58 0°≈ 0°升 0°Y 0°S 0°I02'05 0°I 17°I03'51	46°58'14	asc. node morning set	8946 May 26 12:57 8946 May 28 12:54 8946 Jun 22 15:34 8946 Jul 17 08:23 8946 Aug 10 21:25 8946 Sep 04 09:04 8946 Sep 16 09:53 8946 Sep 28 19:38 8946 Oct 12 02:34 8946 Oct 23 04:51 8946 Nov 16 12:55	0°8 0°1 0°9 0°8 0°8 0°1 14°145'44 0°9 16°920'25 0°1 0°8	1004/20
desc. node asc. node evening max el	8943 Oct 17 00:51 8943 Nov 01 18:35 8943 Nov 26 06:37 8943 Dec 09 15:08 8943 Dec 20 22:00 8944 Jan 14 16:57 8944 Feb 08 16:44 8944 Mar 05 02:35 8944 Mar 31 14:25 8944 Mar 31 13:39 8944 Apr 16 17:55 8944 Apr 30 07:06	10°M38'58 0°ダ 0°5 16°516'58 0°≈ 0°升 0°Y 0°B02'05 0°I 17°I03'51 0°©		asc. node morning set superior conj	8946 May 26 12:57 8946 May 28 12:54 8946 Jun 22 15:34 8946 Jul 17 08:23 8946 Aug 10 21:25 8946 Sep 04 09:04 8946 Sep 16 09:53 8946 Sep 28 19:38 8946 Oct 12 02:34 8946 Oct 23 04:51 8946 Nov 16 12:55	0°႘ 0°Д 0°% 0°% 0°™ 14°™45'44 0°Ω 16°Ω20'25 0°™ 0°Χ' 1°Χ'26'05	1°24'38
desc. node asc. node evening max el greatest brilliancy	8943 Oct 17 00:51 8943 Nov 01 18:35 8943 Nov 26 06:37 8943 Dec 09 15:08 8943 Dec 20 22:00 8944 Jan 14 16:57 8944 Feb 08 16:44 8944 Mar 05 02:35 8944 Mar 31 13:39 8944 Apr 16 17:55 8944 Apr 30 07:06 8944 May 27 05:44	10°M38'58 0°ズ 0°5 16°516'58 0°≈ 0°X 0°Y 0°Y 0°B 0°I02'05 0°I 17°I03'51 0°© 18°©06'24	46°58'14 -4.9m	asc. node morning set superior conj minimum elong	8946 May 26 12:57 8946 May 28 12:54 8946 Jun 22 15:34 8946 Jul 17 08:23 8946 Aug 10 21:25 8946 Sep 04 09:04 8946 Sep 16 09:53 8946 Sep 28 19:38 8946 Oct 12 02:34 8946 Oct 23 04:51 8946 Nov 16 12:55 8946 Nov 17 16:49 8946 Nov 17 20:11	0°႘ 0°頂 0°९ 0°९ 0°୩ 14°№45'44 0° <u>₽</u> 16° <u>₽</u> 20'25 0°¶ 0°% 1°% 26'05 1°% 36'28	1°24'49
desc. node asc. node evening max el greatest brilliancy retrograde	8943 Oct 17 00:51 8943 Nov 01 18:35 8943 Nov 26 06:37 8943 Dec 09 15:08 8943 Dec 20 22:00 8944 Jan 14 16:57 8944 Feb 08 16:44 8944 Mar 05 02:35 8944 Mar 31 14:25 8944 Apr 16 17:55 8944 Apr 30 07:06 8944 May 27 05:44 8944 Jun 06 07:05	10°M38'58 0°ダ 0°5 16°516'58 0°≈ 0°升 0°Y 0°B02'05 0°I 17°I03'51 0°©		asc. node morning set superior conj	8946 May 26 12:57 8946 May 28 12:54 8946 Jun 22 15:34 8946 Jul 17 08:23 8946 Aug 10 21:25 8946 Sep 04 09:04 8946 Sep 16 09:53 8946 Sep 28 19:38 8946 Oct 12 02:34 8946 Oct 23 04:51 8946 Nov 16 12:55	0°8 0°1 0°9 0°1 0°1 0°1 14°145'44 0°1 16°120'25 0°1 0°1 1°126'05 1°136'28 0°154'39	
desc. node asc. node evening max el greatest brilliancy	8943 Oct 17 00:51 8943 Nov 01 18:35 8943 Nov 26 06:37 8943 Dec 09 15:08 8943 Dec 20 22:00 8944 Jan 14 16:57 8944 Feb 08 16:44 8944 Mar 05 02:35 8944 Mar 31 13:39 8944 Apr 16 17:55 8944 Apr 30 07:06 8944 May 27 05:44	10°M38'58 0°ズ 0°5 16°516'58 0°≈ 0°X 0°Y 0°Y 0°B 0°I02'05 0°I 17°I03'51 0°© 18°©06'24		asc. node morning set superior conj minimum elong	8946 May 26 12:57 8946 May 28 12:54 8946 Jun 22 15:34 8946 Jul 17 08:23 8946 Aug 10 21:25 8946 Sep 04 09:04 8946 Sep 16 09:53 8946 Sep 28 19:38 8946 Oct 12 02:34 8946 Oct 23 04:51 8946 Nov 16 12:55 8946 Nov 17 16:49 8946 Nov 17 20:11	0°8 0°1 0°9 0°0 0°0 0°0 14°145'44 0°9 16°920'25 0°1 0°3 1°326'05 1°336'28 0°354'39 0°3	1°24'49
desc. node asc. node evening max el greatest brilliancy retrograde	8943 Oct 17 00:51 8943 Nov 01 18:35 8943 Nov 26 06:37 8943 Dec 09 15:08 8943 Dec 20 22:00 8944 Jan 14 16:57 8944 Feb 08 16:44 8944 Mar 05 02:35 8944 Mar 31 14:25 8944 Apr 16 17:55 8944 Apr 30 07:06 8944 May 27 05:44 8944 Jun 06 07:05	10°M38'58 0°ズ 0°℧ 16°℧16'58 0°≈ 0°ℋ 0°Ƴ 0°M02'05 0°Ⅲ 17°M03'51 0°郅 18°郅06'24 20°郅01'26		asc. node morning set superior conj minimum elong	8946 May 26 12:57 8946 May 28 12:54 8946 Jun 22 15:34 8946 Jul 17 08:23 8946 Aug 10 21:25 8946 Sep 04 09:04 8946 Sep 16 09:53 8946 Sep 28 19:38 8946 Oct 12 02:34 8946 Oct 23 04:51 8946 Nov 16 12:55 8946 Nov 17 16:49 8946 Nov 17 20:11 8946 Nov 17 06:38	0°당 0°대 0°의 0°대 14°™45'44 0°요 16°요20'25 0°재 0°求 1°₹26'05 1°₹36'28 0°₹54'39 0°उ 17°उ 16'10	1°24'49
desc. node asc. node evening max el greatest brilliancy retrograde evening set	8943 Oct 17 00:51 8943 Nov 01 18:35 8943 Nov 26 06:37 8943 Dec 09 15:08 8943 Dec 20 22:00 8944 Jan 14 16:57 8944 Feb 08 16:44 8944 Mar 05 02:35 8944 Mar 31 14:25 8944 Apr 16 17:55 8944 Apr 30 07:06 8944 May 27 05:44 8944 Jun 06 07:05 8944 Jun 22 10:02	10°M38'58 0°ズ 0°℧ 16°℧16'58 0°※ 0°ℋ 0°Ƴ 0°M02'05 0°用 17°用03'51 0°፵ 18°፵06'24 20°፵01'26 14°፵57'49 12°፵07'47	-4.9m	asc. node morning set superior conj minimum elong max. Earth dist.	8946 May 26 12:57 8946 May 28 12:54 8946 Jun 22 15:34 8946 Jul 17 08:23 8946 Aug 10 21:25 8946 Sep 04 09:04 8946 Sep 16 09:53 8946 Sep 28 19:38 8946 Oct 12 02:34 8946 Oct 23 04:51 8946 Nov 16 12:55 8946 Nov 17 16:49 8946 Nov 17 20:11 8946 Nov 17 06:38 8946 Dec 10 20:28	0°8 0°1 0°9 0°0 0°0 0°0 14°145'44 0°9 16°920'25 0°1 0°3 1°326'05 1°336'28 0°354'39 0°3	1°24'49
asc. node asc. node evening max el greatest brilliancy retrograde evening set inferior conj	8943 Oct 17 00:51 8943 Nov 01 18:35 8943 Nov 26 06:37 8943 Dec 09 15:08 8943 Dec 20 22:00 8944 Jan 14 16:57 8944 Feb 08 16:44 8944 Mar 05 02:35 8944 Mar 31 14:25 8944 Apr 16 17:55 8944 Apr 30 07:06 8944 Apr 30 07:06 8944 Jun 06 07:05 8944 Jun 02 10:02 8944 Jun 27 03:18	10°M38'58 0°ズ 0°℧ 16°℧16'58 0°※ 0°ℋ 0°Ƴ 0°M02'05 0°用 17°用03'51 0°፵ 18°፵06'24 20°፵01'26 14°፵57'49 12°፵07'47	-4.9m 5°45'40	asc. node morning set superior conj minimum elong max. Earth dist.	8946 May 26 12:57 8946 May 28 12:54 8946 Jun 22 15:34 8946 Jul 17 08:23 8946 Aug 10 21:25 8946 Sep 04 09:04 8946 Sep 16 09:53 8946 Sep 28 19:38 8946 Oct 12 02:34 8946 Oct 23 04:51 8946 Nov 16 12:55 8946 Nov 17 16:49 8946 Nov 17 06:38 8946 Dec 10 20:28 8946 Dec 24 20:24	0°당 0°대 0°의 0°대 14°™45'44 0°요 16°요20'25 0°재 0°求 1°₹26'05 1°₹36'28 0°₹54'39 0°उ 17°उ 16'10	1°24'49
asc. node asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong	8943 Oct 17 00:51 8943 Nov 01 18:35 8943 Nov 26 06:37 8943 Dec 09 15:08 8943 Dec 20 22:00 8944 Jan 14 16:57 8944 Feb 08 16:44 8944 Mar 05 02:35 8944 Mar 31 14:25 8944 Apr 16 17:55 8944 Apr 30 07:06 8944 Apr 30 07:06 8944 Jun 06 07:05 8944 Jun 06 07:05 8944 Jun 22 10:02 8944 Jun 27 03:18 8944 Jun 27 13:59	10°M38'58 0°ズ 0°♂ 16°♂16'58 0°≈ 0°升 0°Y 0°Ы 17°M03'51 0°© 18°©06'24 20°©01'26 14°©57'49 12°©07'47 11°©51'20	-4.9m 5°45'40 5°42'44	asc. node morning set superior conj minimum elong max. Earth dist. evening rise	8946 May 26 12:57 8946 May 28 12:54 8946 Jun 22 15:34 8946 Jul 17 08:23 8946 Aug 10 21:25 8946 Sep 04 09:04 8946 Sep 16 09:53 8946 Sep 28 19:38 8946 Oct 12 02:34 8946 Oct 23 04:51 8946 Nov 16 12:55 8946 Nov 17 16:49 8946 Nov 17 06:38 8946 Dec 10 20:28 8946 Dec 24 20:24 8947 Jan 04 04:02	0°8 0°1 0°9 0°1 0°1 0°1 14°145'44 0°1 16°120'25 0°1 1°126'05 1°13'36'28 0°15'316'10 0°15	1°24'49

	8947 Feb 21 18:36	$0^{\circ}\mathbf{\Upsilon}$			8949 Jul 28 22:33	0°©	
		0°8				0° Ω	
	8947 Mar 18 02:25	_			8949 Aug 23 19:04		
	8947 Apr 11 14:05	0°Ⅱ			8949 Sep 18 02:22	0° m)	
asc. node	8947 Apr 29 01:39	21° Ⅱ 08′18			8949 Oct 13 01:47	0∘ ⊽	
	8947 May 06 11:50	0ංම		asc. node	8949 Oct 13 22:17	1° ≏ 01'55	
	8947 Jun 01 07:26	$0 {\circ} \Omega$			8949 Nov 06 18:55	0° M	
evening max el	8947 Jun 28 19:01	29° Ω 28'36	46°30'57		8949 Dec 01 06:50	0° ∡ ¹	
	8947 Jun 29 07:38	0° m y		morning set	8949 Dec 19 15:17	22° х 36′23	
greatest brilliancy	8947 Aug 06 14:12	29° m 09'34	-4.8m		8949 Dec 25 14:56	0°ರ	
	8947 Aug 08 23:12	0∘ ত			8950 Jan 18 20:24	0° ≈	
retrograde	8947 Aug 17 18:33	1° ≏ 26'48		max. Earth dist.	8950 Jan 23 12:44	5° ≈ 48'35	1.72448 AU
desc. node	8947 Aug 18 21:49	1° £ 25'15					
	8947 Aug 26 05:27	30°R, Mp		superior conj	8950 Jan 26 07:39	9° ≈ 16'17	0°17'39
evening set	8947 Sep 02 02:22	26° Mp 51'00		minimum elong	8950 Jan 26 11:47	9° ≈ 29'07	0°17'38
min. Earth dist.	•		0.28412 AU	desc. node	8950 Feb 02 15:16	18° ≈ 21'50	0 1/36
	8947 Sep 07 07:25	23° Mp 43'36		desc. Hode			
inferior conj	8947 Sep 08 02:11	23° m 14'20			8950 Feb 11 23:44	0°) {	
minimum elong	8947 Sep 07 17:04	23° m 28'33	4°40'08	evening rise	8950 Mar 06 11:50	28° 米 03'57	
morning rise	8947 Sep 13 08:28	20° Mp 04'03			8950 Mar 08 01:00	0° Υ	
direct	8947 Sep 29 09:04	15° m 10'54			8950 Apr 01 00:47	0° 8	
greatest brilliancy	8947 Oct 08 23:49	16° m 51'50	-4.7m		8950 Apr 25 00:49	$\Pi^{\circ}0$	
	8947 Oct 31 02:53	0∘ ত			8950 May 19 03:55	0 \circ \odot	
morning max el	8947 Nov 17 02:08	14° ≙ 58'07	45°41'17	asc. node	8950 May 26 13:13	9° 5 07'43	
	8947 Dec 02 01:13	0° M ,			8950 Jun 12 13:38	$0^{\circ}\Omega$	
asc. node	8947 Dec 09 20:54	8°M19'05			8950 Jul 07 10:48	o∘ mp	
	8947 Dec 29 08:55	0° ∡ ¹			8950 Aug 02 04:23	0∘ ⊽	
	8948 Jan 24 02:08	0°⋜			8950 Aug 29 17:27	0° M	
	8948 Feb 18 00:07	0° ≈		evening max el	8950 Sep 07 10:40	8°ML43'18	45°50'15
	8948 Mar 13 11:09	0°) €		desc. node	8950 Sep 15 08:55	16°M10'10	43 30 13
desc. node	8948 Mar 30 14:05	21° X 13'09		desc. Hode	8950 Oct 02 15:09	0° ₹	
desc. Hode		21 γ (1309					4.7
	8948 Apr 06 15:20			greatest brilliancy	8950 Oct 16 09:51	7° 🗷 15'14	-4.7m
	8948 Apr 30 15:10	0°8		retrograde	8950 Oct 26 11:50	9° √ 06'18	
morning set	8948 May 18 09:05	22° 8 16'05		evening set	8950 Nov 13 18:28	2° 🗷 52'23	0001154
	8948 May 24 12:54	$\Pi^{\circ}0$		inferior conj	8950 Nov 17 00:51	0° ∡ 750'39 −	
	8948 Jun 17 10:47	0ංම		minimum elong	8950 Nov 17 04:12		8°31'31
				min. Earth dist.	8950 Nov 17 07:44	0° ₹ 39'50	0.29107 AU
superior conj	8948 Jun 27 07:04	12° © 19'24	-0°54'35		8950 Nov 18 09:05	30°RM₊	
minimum elong	8948 Jun 27 18:03	12° © 53'46	0°54'24	morning rise	8950 Nov 20 13:50	28°M38'32	
max. Earth dist.	8948 Jun 30 14:03	16° 5 26'19	1.71756 AU	direct	8950 Dec 08 12:43	22°M32'14	
	8948 Jul 11 10:38	0 $^{\circ}\Omega$		greatest brilliancy	8950 Dec 19 07:11	24°M38'13	-4.8m
asc. node	8948 Jul 21 11:08	12° Ω 29'07			8950 Dec 29 19:21	0° ∡ ¹	
	8948 Aug 04 13:27	0° m		asc. node	8951 Jan 06 08:32	5° ∡ 18′01	
evening rise	8948 Aug 05 13:26	1° Mp 14'23		morning max el	8951 Jan 27 00:09	23° х 38'19	46°06'06
	8948 Aug 28 19:47	0∘ ⊽			8951 Feb 02 07:42	0°ರ	
	8948 Sep 22 06:34	0°M,			8951 Mar 01 19:28	0° ≈	
	8948 Oct 16 23:40	0°⊀			005134 05 11 11		
desc. node	8948 Nov 10 05:28	28° ₹ 59'54			8951 Mar 27 11:11	0° ₩	
dese. Hode	07101101 10 05.20				8951 Mar 27 11:11 8951 Apr 21 07:05	0° ∀ 0° Ƴ	
	8948 Nov 11 01:45			desc node	8951 Apr 21 07:05	0° Υ	
	8948 Nov 11 01:45	ರ∘ರ		desc. node	8951 Apr 21 07:05 8951 Apr 28 02:37	0° Υ 8° Υ 20'21	
	8948 Dec 06 16:27	5°0 š0		desc. node	8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31	0° Y 8° Y 20'21 0° と	
	8948 Dec 06 16:27 8949 Jan 02 03:12	0°ಕ 0°≈ 0°¥		desc. node	8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41	0°Y 8°Y20'21 0°8 0°用	
. ,	8948 Dec 06 16:27 8949 Jan 02 03:12 8949 Jan 30 10:56	ა %% %% %% %%	4.00000.4	desc. node	8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41 8951 Jul 02 23:08	0°Ƴ 8°Ƴ20'21 0°℧ 0°ℿ 0°ℱ	
evening max el	8948 Dec 06 16:27 8949 Jan 02 03:12 8949 Jan 30 10:56 8949 Jan 31 09:37	0°る 0°≈ 0°升 0°Y 0°Y56'12	46°29'34		8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41 8951 Jul 02 23:08 8951 Jul 27 02:07	0°Y 8°Y20'21 0°B 0°I 0°S 0°Ω	
evening max el asc. node	8948 Dec 06 16:27 8949 Jan 02 03:12 8949 Jan 30 10:56 8949 Jan 31 09:37 8949 Mar 03 05:21	0°♂ 0°≈ 0°升 0°Υ 0°Υ56'12 26°Υ35'32	46°29'34	morning set	8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41 8951 Jul 02 23:08 8951 Jul 27 02:07 8951 Jul 31 22:43	0°Y 8°Y20'21 0°8 0°II 0°© 0°A 6°A02'01	
asc. node	8948 Dec 06 16:27 8949 Jan 02 03:12 8949 Jan 30 10:56 8949 Jan 31 09:37 8949 Mar 03 05:21 8949 Mar 09 17:28	0°₹ 0°≈ 0°¥ 0°Y 0°Y56'12 26°Y35'32 0°8			8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41 8951 Jul 02 23:08 8951 Jul 27 02:07 8951 Jul 31 22:43 8951 Aug 18 23:19	0°Y 8°Y20'21 0°႘ 0°II 0°ዴ 0°Ω 6°Ω02'01 28°Ω23'19	
asc. node greatest brilliancy	8948 Dec 06 16:27 8949 Jan 02 03:12 8949 Jan 30 10:56 8949 Jan 31 09:37 8949 Mar 03 05:21 8949 Mar 09 17:28 8949 Mar 12 14:25	0°ቼ 0°≈ 0°ዠ 0°Ƴ56'12 26°Ƴ35'32 0°℧ 1°℧08'27		morning set	8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41 8951 Jul 02 23:08 8951 Jul 27 02:07 8951 Jul 31 22:43	0°Y 8°Y20'21 0°8 0°II 0°© 0°A 6°A02'01	
asc. node	8948 Dec 06 16:27 8949 Jan 02 03:12 8949 Jan 30 10:56 8949 Jan 31 09:37 8949 Mar 03 05:21 8949 Mar 09 17:28 8949 Mar 12 14:25 8949 Mar 22 09:19	0°♂ 0°≈ 0°¥ 0°Y 0°Y56'12 26°Y35'32 0°℧ 1°℧8'27 2°℧56'24		morning set asc. node	8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41 8951 Jul 02 23:08 8951 Jul 27 02:07 8951 Jul 31 22:43 8951 Aug 18 23:19 8951 Aug 20 06:33	0°Y 8°Y20'21 0°♥ 0°∏ 0°© 0°Ω 6°Ω02'01 28°Ω23'19 0°™	
asc. node greatest brilliancy	8948 Dec 06 16:27 8949 Jan 02 03:12 8949 Jan 30 10:56 8949 Jan 31 09:37 8949 Mar 03 05:21 8949 Mar 09 17:28 8949 Mar 12 14:25 8949 Mar 22 09:19 8949 Apr 03 11:45	0°♂ 0°≈ 0°भ 0°Y 0°Y56'12 26°Y35'32 0°♂ 1°∀08'27 2°∀56'24 30°R°Y		morning set asc. node	8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41 8951 Jul 02 23:08 8951 Jul 27 02:07 8951 Jul 31 22:43 8951 Aug 18 23:19 8951 Aug 20 06:33	0°Y 8°Y20'21 0°႘ 0°II 0°ዴ 0°Ω 6°Ω02'01 28°Ω23'19	0°46′08
asc. node greatest brilliancy	8948 Dec 06 16:27 8949 Jan 02 03:12 8949 Jan 30 10:56 8949 Jan 31 09:37 8949 Mar 03 05:21 8949 Mar 09 17:28 8949 Mar 12 14:25 8949 Mar 22 09:19	0°♂ 0°≈ 0°भ 0°Y 0°Y56'12 26°Y35'32 0°अ 1°∀08'27 2°∀56'24 30°RY 27°Y32'10	-4.9m	morning set asc. node	8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41 8951 Jul 02 23:08 8951 Jul 27 02:07 8951 Jul 31 22:43 8951 Aug 18 23:19 8951 Aug 20 06:33 8951 Sep 08 01:28 8951 Sep 07 16:42	0°Y 8°Y20'21 0°♥ 0°∏ 0°© 0°Ω 6°Ω02'01 28°Ω23'19 0°™	0°46′08 0°45′44
asc. node greatest brilliancy retrograde	8948 Dec 06 16:27 8949 Jan 02 03:12 8949 Jan 30 10:56 8949 Jan 31 09:37 8949 Mar 03 05:21 8949 Mar 09 17:28 8949 Mar 12 14:25 8949 Mar 22 09:19 8949 Apr 03 11:45	0°₹ 0°₩ 0°₩ 0°Ψ56'12 26°Ψ35'32 0°₩ 1°₩08'27 2°₩56'24 30°₹Ψ 27°Ψ32'10 25°Ψ09'23		morning set asc. node	8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41 8951 Jul 02 23:08 8951 Jul 27 02:07 8951 Jul 31 22:43 8951 Aug 18 23:19 8951 Aug 20 06:33	0°Y 8°Y20'21 0°8 0°II 0°S 0°A 6°A02'01 28°A23'19 0°M	
asc. node greatest brilliancy retrograde evening set	8948 Dec 06 16:27 8949 Jan 02 03:12 8949 Jan 30 10:56 8949 Jan 31 09:37 8949 Mar 03 05:21 8949 Mar 09 17:28 8949 Mar 12 14:25 8949 Mar 22 09:19 8949 Apr 03 11:45 8949 Apr 08 02:52	0°♂ 0°≈ 0°भ 0°Y 0°Y56'12 26°Y35'32 0°अ 1°∀08'27 2°∀56'24 30°RY 27°Y32'10	-4.9m	morning set asc. node superior conj minimum elong	8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41 8951 Jul 02 23:08 8951 Jul 27 02:07 8951 Jul 31 22:43 8951 Aug 18 23:19 8951 Aug 20 06:33 8951 Sep 08 01:28 8951 Sep 07 16:42	0°Υ 8°Υ20'21 0°℧ 0°Π 0°Ω 6°Ω02'01 28°Ω23'19 0°M 23°M15'18 22°M48'11	0°45'44
asc. node greatest brilliancy retrograde evening set inferior conj	8948 Dec 06 16:27 8949 Jan 02 03:12 8949 Jan 30 10:56 8949 Jan 31 09:37 8949 Mar 03 05:21 8949 Mar 09 17:28 8949 Mar 12 14:25 8949 Mar 22 09:19 8949 Apr 03 11:45 8949 Apr 08 02:52 8949 Apr 12 01:08	0°₹ 0°₩ 0°₩ 0°Ψ56'12 26°Ψ35'32 0°₩ 1°₩08'27 2°₩56'24 30°₩ 27°Ψ32'10 25°Ψ09'23	-4.9m 8°18′00	morning set asc. node superior conj minimum elong	8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41 8951 Jul 02 23:08 8951 Jul 27 02:07 8951 Jul 31 22:43 8951 Aug 18 23:19 8951 Aug 20 06:33 8951 Sep 08 01:28 8951 Sep 07 16:42 8951 Sep 09 17:31	0°Υ 8°Υ20'21 0°℧ 0°Ⅱ 0°ℐ 6°Д02'01 28°Д23'19 0°ႃၯ 23°ႃӍ15'18 22°ႃӍ48'11 25°ႃӍ19'06	0°45'44
asc. node greatest brilliancy retrograde evening set inferior conj minimum elong	8948 Dec 06 16:27 8949 Jan 02 03:12 8949 Jan 30 10:56 8949 Jan 31 09:37 8949 Mar 03 05:21 8949 Mar 09 17:28 8949 Mar 12 14:25 8949 Mar 22 09:19 8949 Apr 03 11:45 8949 Apr 08 02:52 8949 Apr 12 01:08 8949 Apr 11 16:15	0°₹ 0°≈ 0°¥ 0°Y 0°Y56'12 26°Y35'32 0°8 1°808'27 2°856'24 30°RY 27°Y32'10 25°Y09'23 25°Y23'06	-4.9m 8°18'00 8°16'40	morning set asc. node superior conj minimum elong	8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41 8951 Jul 02 23:08 8951 Jul 27 02:07 8951 Jul 31 22:43 8951 Aug 18 23:19 8951 Aug 20 06:33 8951 Sep 08 01:28 8951 Sep 07 16:42 8951 Sep 09 17:31 8951 Sep 13 12:25	0°Y 8°Y20'21 0°8 0°II 0°S 0°A 6°A02'01 28°A23'19 0°M 23°M15'18 22°M48'11 25°M19'06 0°Ω	0°45'44
asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	8948 Dec 06 16:27 8949 Jan 02 03:12 8949 Jan 30 10:56 8949 Jan 31 09:37 8949 Mar 03 05:21 8949 Mar 09 17:28 8949 Mar 12 14:25 8949 Mar 22 09:19 8949 Apr 03 11:45 8949 Apr 08 02:52 8949 Apr 12 01:08 8949 Apr 11 16:15 8949 Apr 11 20:55	0°₹ 0°≈ 0°¥ 0°Y 0°Y56'12 26°Y35'32 0°8 1°808'27 2°856'24 30°RY 27°Y32'10 25°Y09'23 25°Y23'06 25°Y15'54	-4.9m 8°18'00 8°16'40	morning set asc. node superior conj minimum elong max. Earth dist.	8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41 8951 Jul 02 23:08 8951 Jul 27 02:07 8951 Jul 31 22:43 8951 Aug 18 23:19 8951 Aug 20 06:33 8951 Sep 08 01:28 8951 Sep 07 16:42 8951 Sep 09 17:31 8951 Sep 13 12:25 8951 Oct 07 19:46	0°Y 8°Y20'21 0°8 0°II 0°\$ 0°I 6°I02'01 28°I23'19 0°m 23°m15'18 22°m48'11 25°m19'06 0°£ 0°IL	0°45'44
asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8948 Dec 06 16:27 8949 Jan 02 03:12 8949 Jan 30 10:56 8949 Jan 31 09:37 8949 Mar 03 05:21 8949 Mar 09 17:28 8949 Mar 12 14:25 8949 Mar 22 09:19 8949 Apr 03 11:45 8949 Apr 08 02:52 8949 Apr 12 01:08 8949 Apr 11 16:15 8949 Apr 11 20:55 8949 Apr 15 05:37	0°₹ 0°₩ 0°₩ 0°Ψ56112 26°Ψ35'32 0°₩ 1°₩08'27 2°₩56'24 30°RΨ 27°Ψ32'10 25°Ψ09'23 25°Ψ23'06 25°Ψ15'54 23°Ψ12'41	-4.9m 8°18'00 8°16'40	morning set asc. node superior conj minimum elong max. Earth dist.	8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41 8951 Jul 02 23:08 8951 Jul 27 02:07 8951 Jul 31 22:43 8951 Aug 18 23:19 8951 Aug 20 06:33 8951 Sep 08 01:28 8951 Sep 07 16:42 8951 Sep 09 17:31 8951 Sep 13 12:25 8951 Oct 07 19:46 8951 Oct 14 18:38	0°Y 8°Y20'21 0°8 0°II 0°\$ 0°A 6°A02'01 28°A23'19 0°m 23°m15'18 22°m48'11 25°m19'06 0°£ 0°IL 8°IL33'49	0°45'44
asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8948 Dec 06 16:27 8949 Jan 02 03:12 8949 Jan 30 10:56 8949 Jan 31 09:37 8949 Mar 03 05:21 8949 Mar 09 17:28 8949 Mar 12 14:25 8949 Mar 22 09:19 8949 Apr 03 11:45 8949 Apr 08 02:52 8949 Apr 12 01:08 8949 Apr 11 16:15 8949 Apr 11 20:55 8949 Apr 15 05:37 8949 May 02 16:55	0°₹ 0°₩ 0°₩ 0°₩56'12 26°₩35'32 0°₩ 1°₩08'27 2°₩56'24 30°₹₩ 27°₩32'10 25°₩09'23 25°₩23'06 25°₩15'54 23°₩12'41 17°₩20'58	-4.9m 8°18'00 8°16'40 0.27088 AU	morning set asc. node superior conj minimum elong max. Earth dist.	8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41 8951 Jul 02 23:08 8951 Jul 27 02:07 8951 Jul 31 22:43 8951 Aug 18 23:19 8951 Aug 20 06:33 8951 Sep 08 01:28 8951 Sep 07 16:42 8951 Sep 09 17:31 8951 Sep 13 12:25 8951 Oct 07 19:46 8951 Oct 14 18:38 8951 Nov 01 05:09 8951 Nov 25 17:26	0°Y 8°Y20'21 0°8 0° II 0°® 0° A 6° A02'01 28° A23'19 0° m 23° m 15'18 22° m 48'11 25° m 19'06 0° Ω 0° IL 8° IL 33'49 0° %	0°45'44
asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8948 Dec 06 16:27 8949 Jan 02 03:12 8949 Jan 30 10:56 8949 Jan 31 09:37 8949 Mar 03 05:21 8949 Mar 09 17:28 8949 Mar 12 14:25 8949 Mar 22 09:19 8949 Apr 03 11:45 8949 Apr 08 02:52 8949 Apr 12 01:08 8949 Apr 11 16:15 8949 Apr 11 20:55 8949 Apr 15 05:37 8949 May 02 16:55 8949 May 12 08:40 8949 May 30 22:07	0°₹ 0°≈ 0°¥ 0°Y56'12 26°Y35'32 0°\$ 1°808'27 2°856'24 30°8Y 27°Y32'10 25°Y09'23 25°Y23'06 25°Y15'54 23°Y12'41 17°Y20'58 19°Y06'23	-4.9m 8°18'00 8°16'40 0.27088 AU -4.9m	morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41 8951 Jul 02 23:08 8951 Jul 27 02:07 8951 Jul 31 22:43 8951 Aug 18 23:19 8951 Aug 20 06:33 8951 Sep 08 01:28 8951 Sep 09 17:31 8951 Sep 09 17:31 8951 Sep 13 12:25 8951 Oct 07 19:46 8951 Oct 14 18:38 8951 Nov 01 05:09 8951 Nov 25 17:26 8951 Dec 08 17:12	0°Y 8°Y20'21 0°以 0°川 0°の 0°の 6°の02'01 28°の23'19 0°m 23°m15'18 22°m48'11 25°m19'06 0°丘 0°肌 8°M33'49 0°ズ	0°45'44
asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	8948 Dec 06 16:27 8949 Jan 02 03:12 8949 Jan 30 10:56 8949 Jan 31 09:37 8949 Mar 03 05:21 8949 Mar 09 17:28 8949 Mar 12 14:25 8949 Mar 22 09:19 8949 Apr 03 11:45 8949 Apr 08 02:52 8949 Apr 12 01:08 8949 Apr 11 16:15 8949 Apr 11 20:55 8949 Apr 15 05:37 8949 May 02 16:55 8949 May 12 08:40 8949 May 30 22:07 8949 Jun 22 01:51	0°₹ 0°₩ 0°¥ 0°¥ 0°Y56'12 26°Y35'32 0°႘ 1°႘08'27 2°႘56'24 30°ጲŶ 27°Y32'10 25°Y09'23 25°Y23'06 25°Y15'54 23°Y12'41 17°Y20'58 19°Y06'23 0°႘ 19°႘59'54	-4.9m 8°18'00 8°16'40 0.27088 AU -4.9m	morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41 8951 Jul 02 23:08 8951 Jul 27 02:07 8951 Jul 31 22:43 8951 Aug 18 23:19 8951 Aug 20 06:33 8951 Sep 08 01:28 8951 Sep 07 16:42 8951 Sep 09 17:31 8951 Sep 09 17:31 8951 Sep 13 12:25 8951 Oct 07 19:46 8951 Oct 14 18:38 8951 Nov 01 05:09 8951 Dec 08 17:12 8951 Dec 20 09:14	0°Y 8°Y20'21 0°8 0°II 0°9 0°A 6°A02'01 28°A23'19 0°M 23°M15'18 22°M48'11 25°M19'06 0°A 0°M 8°M33'49 0° 8°M33'49 0° 15° 15° 15° 15° 15° 15° 15° 15° 15° 15	0°45'44
asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8948 Dec 06 16:27 8949 Jan 02 03:12 8949 Jan 30 10:56 8949 Jan 31 09:37 8949 Mar 03 05:21 8949 Mar 09 17:28 8949 Mar 12 14:25 8949 Mar 22 09:19 8949 Apr 03 11:45 8949 Apr 08 02:52 8949 Apr 12 01:08 8949 Apr 11 16:15 8949 Apr 11 20:55 8949 Apr 15 05:37 8949 May 02 16:55 8949 May 12 08:40 8949 May 30 22:07	0°₹ 0°₩ 0°₩ 0°₩56'12 26°₩35'32 0°₩ 1°₩08'27 2°₩56'24 30°₹₩ 27°₩32'10 25°₩09'23 25°₩23'06 25°₩15'54 23°₩12'41 17°₩20'58 19°₩06'23 0°₩	-4.9m 8°18'00 8°16'40 0.27088 AU -4.9m	morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8951 Apr 21 07:05 8951 Apr 28 02:37 8951 May 15 16:31 8951 Jun 08 20:41 8951 Jul 02 23:08 8951 Jul 27 02:07 8951 Jul 31 22:43 8951 Aug 18 23:19 8951 Aug 20 06:33 8951 Sep 08 01:28 8951 Sep 09 17:31 8951 Sep 09 17:31 8951 Sep 13 12:25 8951 Oct 07 19:46 8951 Oct 14 18:38 8951 Nov 01 05:09 8951 Nov 25 17:26 8951 Dec 08 17:12	0°Y 8°Y20'21 0°8 0°II 0°® 0°A 6°A02'01 28°A23'19 0°M 23°M15'18 22°M48'11 25°M19'06 0°A 0°IL 8°IL33'49 0°₹ 0°S 15°S49'46	0°45'44

	8952 Mar 04 17:04	0° ႘		morning set	8954 Oct 09 19:34	14° £ 12'41	
asc. node	8952 Mar 30 16:23	29° 8 18'19		morning set	8954 Oct 22 15:20	0°M	
asc. node	8952 Mar 31 07:44	0° Ⅱ			8934 Oct 22 13.20	U IIL	
avaning may al	8952 Apr 14 07:53	0 Ⅱ 14° Ⅱ 41'51	46°58'15	superior conj	8954 Nov 15 10:25	29°M20'12	1025100
evening max el	•	0°95	40 36 13	minimum elong	8954 Nov 15 10:25	29°M28'26	1°25'21
arantant brillianas	8952 Apr 30 14:08	0 55 15°5643'35	4.0	max. Earth dist.		29 IIL28 20 28°IIL52'30	1.73254 AU
greatest brilliancy	8952 May 24 19:38		-4.9m	max. Earth dist.	8954 Nov 15 01:26		1./3234 AU
retrograde	8952 Jun 03 21:13	17°538'46			8954 Nov 15 23:20	0° ⊼	
evening set	8952 Jun 20 02:44	12°930'15	6002152		8954 Dec 10 06:56	0°る	
inferior conj	8952 Jun 24 16:34	9°545'13	6°03'53	evening rise	8954 Dec 22 12:34	15° පි 05'31	
minimum elong	8952 Jun 25 03:28	9° © 28'28	6°01'00		8955 Jan 03 14:38	0° ≈	
min. Earth dist.	8952 Jun 24 18:12	9° © 42'43	0.27271 AU	desc. node	8955 Jan 05 05:03	1°≈58'29	
morning rise	8952 Jun 30 04:23	6° © 29'35			8955 Jan 27 22:19	0°) €	
direct	8952 Jul 15 10:15	1° 9 56'05			8955 Feb 21 05:48	0° Υ	
desc. node	8952 Jul 20 12:23	2° © 26'07			8955 Mar 17 14:05	0°B	
greatest brilliancy	8952 Jul 25 07:43	3°5645'09	-4.8m		8955 Apr 11 02:27	0°П	
	8952 Aug 30 19:48	$0 {\circ} \Omega$		asc. node	8955 Apr 28 03:41	20° Ⅱ 35′06	
morning max el	8952 Sep 02 23:26	3° Ω 01′27	46°07'47		8955 May 06 01:21	0 \circ	
	8952 Sep 28 23:32	0° m			8955 May 31 23:18	0 $^{\circ}$ Ω	
	8952 Oct 25 17:53	0∘ ⊽		evening max el	8955 Jun 26 10:07	27° Ω 12′00	46°32'25
asc. node	8952 Nov 10 10:49	18° ≏ 13'18			8955 Jun 29 06:07	0° m y	
	8952 Nov 20 10:41	0° M		greatest brilliancy	8955 Aug 04 06:43	26° ₩ 56'36	-4.8m
	8952 Dec 15 12:00	0° ∡ ¹		retrograde	8955 Aug 15 09:47	29° m 12'43	
	8953 Jan 09 03:05	ರ°0		desc. node	8955 Aug 17 23:42	29° m 04'45	
	8953 Feb 02 11:26	0° ≈		evening set	8955 Aug 30 15:56	24° m 40'14	
	8953 Feb 26 15:06	0°) €		min. Earth dist.	8955 Sep 04 23:05	21° m 29'52	0.28359 AU
morning set	8953 Feb 28 21:22	2°) 49′02		inferior conj	8955 Sep 05 17:27	21°Mp01'11	-4°24'38
desc. node	8953 Mar 02 03:33	4° ∺ 23'10		minimum elong	8955 Sep 05 08:43	21° mp 14'50	4°22'23
	8953 Mar 22 15:15	$_{0}^{\circ}\Upsilon$		morning rise	8955 Sep 11 02:09	17° m)47'17	
max. Earth dist.	8953 Apr 08 16:55	21° Y 24'47	1.71332 AU	direct	8955 Sep 26 23:47	12° m 58'37	
	r			greatest brilliancy	8955 Oct 06 14:33	14° m) 39'11	-4.7m
superior conj	8953 Apr 10 08:29	23° Y 29'03	-1°17'49	greatest stilliane)	8955 Oct 31 11:19	0° ⊽	,
minimum elong	8953 Apr 09 22:35	22° Y 57'57		morning max el	8955 Nov 14 16:01		45°41'22
minimum crong	8953 Apr 15 12:55	0°8	1 17 10	morning max er	8955 Dec 01 18:43	0°M	13 11 22
	8953 May 09 09:40	0°II		asc. node	8955 Dec 08 22:51	7° M 40'37	
evening rise	8953 May 20 20:32	14° Ⅱ 23'06		asc. node	8955 Dec 28 22:46	0° √	
evening rise	8953 Jun 02 07:34	0°95				0°중	
aca mada		0 55 25°552'23			8956 Jan 23 14:28	0°≈	
asc. node	8953 Jun 23 01:02				8956 Feb 17 11:42		
	8953 Jun 26 08:43	$\Omega^{\circ}\Omega$			8956 Mar 12 22:20	0°) {	
	8953 Jul 20 15:02	0° Т р		desc. node	8956 Mar 29 16:05	20°) 45′06	
	8953 Aug 14 04:45	0∘ 亚			8956 Apr 06 02:19	0°Υ	
	8953 Sep 08 05:46	0°M			8956 Apr 30 02:02	0° 8	
	8953 Oct 04 01:37	0°⊀		morning set	8956 May 15 20:08	19° 8 46'11	
desc. node	8953 Oct 12 20:06	9° ∡ 52'43			8956 May 23 23:41	0°Щ	
	8953 Oct 31 08:53	0° ろ			8956 Jun 16 21:32	0	
evening max el	8953 Nov 17 19:49	17° る 36'18	45°48'39				
	8953 Dec 01 14:55	0° ≈		superior conj	8956 Jun 24 19:29	9° © 54'38	
greatest brilliancy	8953 Dec 27 00:30	15° ≈ 50′34	-4.8m	minimum elong	8956 Jun 25 06:43	10° © 29'45	0°57'21
retrograde	8954 Jan 05 15:45	17° ≈ 31'45		max. Earth dist.	8956 Jun 28 00:04	13° © 54'07	1.71713 AU
evening set	8954 Jan 20 14:30	13° ≈ 11'02			8956 Jul 10 21:21	0 $^{\circ}$ Ω	
inferior conj	8954 Jan 26 14:55	9° ≈ 36'23		asc. node	8956 Jul 20 12:58	12° Ω 01'34	
minimum elong	8954 Jan 26 18:58	9° ≈ 30'06	1°46'49	evening rise	8956 Aug 03 03:59	28° Ω 57'23	
min. Earth dist.	8954 Jan 27 05:41	9° ≈ 13'30	0.27772 AU		8956 Aug 04 00:10	0° m ∕	
morning rise	8954 Feb 01 22:50	5° ≈ 50'41			8956 Aug 28 06:34	0∘ ⊽	
asc. node	8954 Feb 02 20:00	5° ≈ 22'34			8956 Sep 21 17:34	0° M ₊	
direct	8954 Feb 16 17:39	1° ≈ 32'45			8956 Oct 16 11:06	0° ∡ 7	
greatest brilliancy	8954 Feb 27 13:59	3° ≈ 45′03	-4.8m	desc. node	8956 Nov 09 07:32	28° ₮ 30'02	
	8954 Apr 03 19:49	0° ∀			8956 Nov 10 13:56	0°ප	
morning max el	8954 Apr 08 03:49	4°) (17′40	46°50'01		8956 Dec 06 05:57	0° ≈	
	8954 May 02 03:37	0 ° $\mathbf{\Upsilon}$			8957 Jan 01 19:16	0° ∀	
desc. node	8954 May 25 15:00	27° Y 03'41		evening max el	8957 Jan 28 22:18	28°) € 32'46	46°28'06
	8954 May 28 02:46	8° 0			8957 Jan 30 09:51	0 ° Υ	
	8954 Jun 22 04:07	$\Pi^{\circ}0$		asc. node	8957 Mar 02 07:17	25° Y 05'12	
	8954 Jul 16 20:09	0ಂತಾ		greatest brilliancy	8957 Mar 10 03:30	28° Y '44'11	-4.9m
	8954 Aug 10 08:39	$0^{\circ}\Omega$		-	8957 Mar 14 16:06	0° ႘	
	8954 Sep 03 19:56	0° m		retrograde	8957 Mar 19 21:49	0° 8 32'08	
asc. node	8954 Sep 15 11:45	14° Mp 18'29			8957 Mar 25 00:52	30° ₹ Υ	
	8954 Sep 28 06:16	0∘ <u>⊽</u>		evening set	8957 Apr 05 11:19	25° Y 14'15	
	•			-	•		

inferior conj	8957 Apr 09 14:12	22° Y 45'06	8°06'58	max. Earth dist.	8959 Sep 07 12:04	23° m 14'52	1.72913 AU
minimum elong	8957 Apr 09 04:44	22° Y 59'40	8°05'26		8959 Sep 12 23:09	0∘ ত	
min. Earth dist.	8957 Apr 09 10:11	22° Y 51'17	0.27091 AU		8959 Oct 07 06:32	0° M	
morning rise	8957 Apr 12 22:05	20° Y 43′25		evening rise	8959 Oct 12 11:57	6°M26'15	
direct	8957 Apr 30 05:34	14° Y 56′08			8959 Oct 31 16:02	0° ∡	
greatest brilliancy	8957 May 09 22:59	16° Y 42'58	-4.9m		8959 Nov 25 04:35	0° ろ	
	8957 May 31 12:02	0° 8		desc. node	8959 Dec 07 19:05	15° る 20'59	
morning max el	8957 Jun 19 14:58	17° 8 35'31	46°52'40		8959 Dec 19 20:48	0° ≈	
desc. node	8957 Jun 22 02:49	20° 8 06'41			8960 Jan 13 17:02	0°){	
	8957 Jul 01 14:05	0° I			8960 Feb 07 18:48	0°Υ 	
	8957 Jul 28 13:37	0.ಲ		asa mada	8960 Mar 04 08:05	0° 8	
	8957 Aug 23 08:15 8957 Sep 17 14:28	0° №		asc. node	8960 Mar 29 18:29 8960 Mar 31 02:35	28°₩33'31 0°Щ	
	8957 Oct 12 13:11	0∘ ت بالا		evening max el	8960 Apr 11 22:44	12° П 21'27	46°58'19
asc. node	8957 Oct 12 15:11 8957 Oct 13 00:21	0° £ 33'44		evening max er	8960 Apr 11 22.44 8960 May 01 00:05	0°95	40 38 19
asc. node	8957 Nov 06 05:54	0°M		greatest brilliancy	8960 May 22 09:34	13° © 20'35	-4.9m
	8957 Nov 30 17:36	0° ⊼ ¹		retrograde	8960 Jun 01 11:33	15° © 15'44	4.7111
morning set	8957 Dec 17 07:52	20° × ⁷ 26'22		evening set	8960 Jun 17 19:38	10°502'33	
morning sec	8957 Dec 25 01:38	0°る		inferior conj	8960 Jun 22 05:57	7°\$22'26	6°21'22
	8958 Jan 18 07:07	0° ≈		minimum elong	8960 Jun 22 16:59	7° © 05'30	
max. Earth dist.	8958 Jan 21 06:22	3° ≈ 41'04	1.72487 AU	min. Earth dist.	8960 Jun 22 07:32	7° 5 20'01	0.27255 AU
	0,0000000000000000000000000000000000000			morning rise	8960 Jun 27 14:34	4° © 11'29	,
superior conj	8958 Jan 23 22:13	6° ≈ 59'14	0°21'07		8960 Jul 08 08:41	30°RⅡ	
minimum elong	8958 Jan 24 03:05	7°≈14'23	0°21'05	direct	8960 Jul 13 00:03	29° Ⅲ 33'41	
desc. node	8958 Feb 01 17:08	17° ≈ 54'21			8960 Jul 17 17:58	0ಂತಾ	
	8958 Feb 11 10:29	0° ∀		desc. node	8960 Jul 19 14:14	0°\$23'42	
evening rise	8958 Mar 04 01:08	25°) (41′51		greatest brilliancy	8960 Jul 22 20:03	1°522'00	-4.8m
-	8958 Mar 07 11:50	$0^{\circ}\mathbf{\Upsilon}$			8960 Aug 30 19:41	$0^{\circ}\Omega$	
	8958 Mar 31 11:46	8°		morning max el	8960 Aug 31 14:27	0° Ω 45′28	46°09'09
	8958 Apr 24 12:01	$\Pi^{\circ}0$			8960 Sep 28 15:51	0° ™	
	8958 May 18 15:26	0 \circ \odot			8960 Oct 25 07:31	0∘ ত	
asc. node	8958 May 25 15:13	8°538'00		asc. node	8960 Nov 09 12:43	17° ≏ 41'27	
	8958 Jun 12 01:40	0 $^{\circ}$ Ω			8960 Nov 19 23:02	0° M	
	8958 Jul 06 23:43	O° m y			8960 Dec 14 23:39	0° ∡	
	8958 Aug 01 19:08	0∘ ত			8961 Jan 08 14:21	8°0	
	8958 Aug 29 12:53	0°M₊			8961 Feb 01 22:30	0° ≈	
evening max el	8958 Sep 05 01:52	6°M30′20	45°51'17	morning set	8961 Feb 26 09:51	0°) 24′08	
desc. node	8958 Sep 14 10:59	15°M15'48			8961 Feb 26 02:06	0° ∀	
	8958 Oct 03 16:04	0° ∡ 7		desc. node	8961 Mar 01 05:30	3°) ₹54'58	
greatest brilliancy	8958 Oct 13 23:49	5° ₹ 03'19	-4.7m		8961 Mar 22 02:15	0°Υ 100 00 20152	
retrograde	8958 Oct 24 04:11	6° ₹ 56'32		max. Earth dist.	8961 Apr 05 23:25	18° Ƴ 39'53	1.71351 AU
evening set	8958 Nov 11 10:57	0° ∡ 741'11			0061 4 07 10 27	2000050141	1015154
	8958 Nov 12 13:51	30°RM	0024120	superior conj	8961 Apr 07 19:37	20° Υ 58'41	
inferior conj	8958 Nov 14 16:57	28°M40'11		minimum elong	8961 Apr 07 09:12	20° Y 25'59 0° B	1°15'44
minimum elong min. Earth dist.	8958 Nov 14 19:32 8958 Nov 14 22:26	28°M36'07 28°M31'34			8961 Apr 14 23:57 8961 May 08 20:42	0°U	
morning rise	8958 Nov 18 04:03	26°M31'10	0.29123 AU	evening rise	8961 May 18 07:17	11° П 51'30	
direct	8958 Dec 06 05:02	20°M21'40		evening rise	8961 Jun 01 18:38	0°95	
greatest brilliancy	8958 Dec 16 22:32	22°M27'08	-4.8m	asc. node	8961 Jun 22 02:53	25°S23'27	
greatest simune,	8958 Dec 30 18:25	0° %		use. noue	8961 Jun 25 19:53	0°Ω	
asc. node	8959 Jan 05 10:29	4° ≯ 12'08			8961 Jul 20 02:25	0° m)	
morning max el	8959 Jan 24 16:26	21° ≯ 26′28	46°04'39		8961 Aug 13 16:34	0∘ <u>v</u>	
C	8959 Feb 02 03:11	0°る			8961 Sep 07 18:23	0° M	
	8959 Mar 01 10:22	0° ≈			8961 Oct 03 15:50	0° ∡ ¹	
	8959 Mar 27 00:17	0° ∀		desc. node	8961 Oct 11 22:06	9° √ 16'16	
	8959 Apr 20 19:15	$0^{\circ}\mathbf{\Upsilon}$			8961 Oct 31 02:55	ರ°ರ	
desc. node	8959 Apr 27 04:38	7° Ƴ 49'41		evening max el	8961 Nov 15 10:42	15° පි 22'05	45°47'43
	8959 May 15 04:09	9° 8			8961 Dec 01 23:59	0° ≈	
	8959 Jun 08 07:58	$\Pi^{\circ}0$		greatest brilliancy	8961 Dec 24 15:15	13° ≈ 34′09	-4.8m
	8959 Jul 02 10:11	0 \circ \odot		retrograde	8962 Jan 03 05:13	15° ≈ 14'09	
	8959 Jul 26 13:00	$0^{\circ}\Omega$		evening set	8962 Jan 18 06:39	10° ≈ 51′02	
morning set	8959 Jul 29 13:35	3° Ω 45′26		inferior conj	8962 Jan 24 05:22	7° ≈ 18′26	
asc. node	8959 Aug 18 01:15	27° Ω 55'55		minimum elong	8962 Jan 24 10:10	7° ≈ 10′58	
	8959 Aug 19 17:19	0°Щ		min. Earth dist.	8962 Jan 24 20:58	6°≈54'12	0.27821 AU
				morning rise	8962 Jan 30 13:03	3°≈32'29	
superior conj	8959 Sep 05 17:40	21° m 03'47		asc. node	8962 Feb 01 21:56	2°≈19'35	
minimum elong	8959 Sep 05 09:15	20° m 37'43	0°42'49		8962 Feb 08 05:19	30°₹ ⋜	

direct	8962 Feb 14 08:31	29° る 14'09			8964 Sep 21 04:48	0°M	
uncet	8962 Feb 20 15:25	0°≈			8964 Oct 15 22:44	0° x 7⊓	
greatest brilliancy	8962 Feb 25 05:40	1°≈26'44	-4.8m	desc. node	8964 Nov 08 09:27	27° х 59'05	
greatest stillaries	8962 Apr 03 19:29	0° ∀		dese. node	8964 Nov 10 02:21	0°る	
morning max el	8962 Apr 05 17:17	1°) 54'27	46°48'48		8964 Dec 05 19:47	0° ≈	
5 5	8962 May 01 20:12	0° Υ			8965 Jan 01 11:55	0°) €	
desc. node	8962 May 24 16:52	26° Ƴ 27'07		evening max el	8965 Jan 26 11:17	26° ∺ 09'13	46°26'24
	8962 May 27 16:51	0°8		C	8965 Jan 30 10:18	$0^{\circ}\Upsilon$	
	8962 Jun 21 16:56	Π $^{\circ}0$		asc. node	8965 Mar 01 09:23	23° Y 30'13	
	8962 Jul 16 08:11	0° ©		greatest brilliancy	8965 Mar 07 15:50	26° Ƴ 17'30	-4.9m
	8962 Aug 09 20:10	$0^{\circ}\Omega$		retrograde	8965 Mar 17 10:36	28° Y 06′09	
	8962 Sep 03 07:05	0° m)		evening set	8965 Apr 02 19:33	22° Y 54'22	
asc. node	8962 Sep 14 13:48	13° m 51'01		inferior conj	8965 Apr 07 02:59	20° Y 18'55	7°54'57
	8962 Sep 27 17:10	0∘ ⊽		minimum elong	8965 Apr 06 17:02	20° Ƴ 34'13	7°53'13
morning set	8962 Oct 07 12:42	12° ≙ 04'27		min. Earth dist.	8965 Apr 06 22:58	20° Y 25′05	0.27095 AU
	8962 Oct 22 02:07	0°M₊		morning rise	8965 Apr 10 14:27	18° Ƴ 12'12	
				direct	8965 Apr 27 18:22	12° Y 29'31	
superior conj	8962 Nov 13 04:05	27° ™ 13'29	1°25'33	greatest brilliancy	8965 May 07 12:41	14° Ƴ 17'28	-4.9m
minimum elong	8962 Nov 13 06:04	27° ™ 19'35	1°25'46		8965 May 31 22:54	0°8	
max. Earth dist.	8962 Nov 12 18:44	26° ™ 44'38	1.73265 AU	morning max el	8965 Jun 17 04:47	15° 8 12'04	46°53'44
	8962 Nov 15 10:06	0° ∡		desc. node	8965 Jun 21 04:45	19° 8 15'43	
	8962 Dec 09 17:47	0° ろ			8965 Jul 01 09:11	0°Щ	
evening rise	8962 Dec 20 04:38	12° る 53'16			8965 Jul 28 04:41	0°95	
	8963 Jan 03 01:40	0° ≈			8965 Aug 22 21:29	0° N	
desc. node	8963 Jan 04 06:56	1°≈30'13			8965 Sep 17 02:38	0° m	
	8963 Jan 27 09:36	0°){		asc. node	8965 Oct 12 02:15	0° £ 04'45	
	8963 Feb 20 17:26	0°Υ •••			8965 Oct 12 00:41	0∘ 亚	
	8963 Mar 17 02:11	0°B 0°B			8965 Nov 05 16:58	0° M 0° ∡ 7	
1-	8963 Apr 10 15:14	0°П 20°П00'20			8965 Nov 30 04:26		
asc. node	8963 Apr 27 05:37	20° Щ 00°20		morning set	8965 Dec 15 00:56	18°⊀17'42 0°る	
	8963 May 05 15:22 8963 May 31 15:49	0°Ω			8965 Dec 24 12:23 8966 Jan 17 17:53	0°≈	
evening max el	8963 Jun 24 00:27	24° Ω 52'25	46°33'58	max. Earth dist.	8966 Jan 19 01:26		1.72530 AU
evening max ci	8963 Jun 29 05:59	0° m)	40 33 38	max. Lattii uist.	6900 Jan 19 01.20	1 ~3732	1.72330 AO
greatest brilliancy			-4.8m	superior coni	8966 Jan 21 13:05	1°∞12'56	0°24'32
greatest brilliancy	8963 Aug 01 23:26	24° Mp 43'03	-4.8m	superior conj	8966 Jan 21 13:05	4°≈42'56 5°≈00'15	0°24'32 0°24'29
retrograde	8963 Aug 01 23:26 8963 Aug 13 01:01	24° m/43'03 26° m/58'20	-4.8m	minimum elong	8966 Jan 21 18:40	5° ≈ 00'15	0°24'32 0°24'29
retrograde desc. node	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45	24° m/43'03 26° m/58'20 26° m/38'48	-4.8m		8966 Jan 21 18:40 8966 Jan 31 19:11	5°≈00'15 17°≈27'04	
retrograde desc. node evening set	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49	24° m/43'03 26° m/58'20 26° m/38'48 22° m/28'34		minimum elong desc. node	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22	5°≈00'15 17°≈27'04 0°¥	
retrograde desc. node evening set min. Earth dist.	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05	24° m 43'03 26° m 58'20 26° m 38'48 22° m 28'34 19° m 15'30	0.28304 AU	minimum elong	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29	5°≈00'15 17°≈27'04 0°¥ 23°¥19'28	
retrograde desc. node evening set min. Earth dist. inferior conj	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 08:53	24° m/43'03 26° m/58'20 26° m/38'48 22° m/28'34	0.28304 AU -4°06'29	minimum elong desc. node	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22	5°≈00'15 17°≈27'04 0° H 23° H 19'28 0° Υ	
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05	24° m 43'03 26° m 58'20 26° m 38'48 22° m 28'34 19° m 15'30 18° m 47'42	0.28304 AU -4°06'29	minimum elong desc. node	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57	5°≈00'15 17°≈27'04 0°¥ 23°¥19'28	
retrograde desc. node evening set min. Earth dist. inferior conj	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 08:53 8963 Sep 03 00:34	24° m 43'03 26° m 58'20 26° m 38'48 22° m 28'34 19° m 15'30 18° m 47'42 19° m 00'42	0.28304 AU -4°06'29	minimum elong desc. node	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57 8966 Apr 23 23:27	5°≈00'15 17°≈27'04 0° ℋ 23°ℋ19'28 0°Ƴ 0°℧	
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 08:53 8963 Sep 03 00:34 8963 Sep 08 19:55	24° m/43'03 26° m/58'20 26° m/38'48 22° m/28'34 19° m/15'30 18° m/47'42 19° m/00'42 15° m/30'22	0.28304 AU -4°06'29 4°04'17	minimum elong desc. node	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57	5°≈00'15 17°≈27'04 0°₩ 23°₩19'28 0°Ψ 0°₩ 0°₩	
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 08:53 8963 Sep 03 00:34 8963 Sep 08 19:55 8963 Sep 24 14:12	24° m/43'03 26° m/58'20 26° m/38'48 22° m/28'34 19° m/15'30 18° m/47'42 19° m/00'42 15° m/30'22 10° m/45'52	0.28304 AU -4°06'29 4°04'17	minimum elong desc. node evening rise	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57 8966 Apr 23 23:27 8966 May 18 03:10	5°≈00'15 17°≈27'04 0°ℋ 23°ℋ19'28 0°Ƴ 0°℧ 0°ℿ	
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 08:53 8963 Sep 03 00:34 8963 Sep 08 19:55 8963 Sep 24 14:12 8963 Oct 04 05:54	24° m/43'03 26° m/58'20 26° m/38'48 22° m/28'34 19° m/15'30 18° m/47'42 19° m/00'42 15° m/30'22 10° m/45'52 12° m/26'47	0.28304 AU -4°06'29 4°04'17 -4.7m	minimum elong desc. node evening rise	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57 8966 Apr 23 23:27 8966 May 18 03:10 8966 May 24 17:05	5°≈00'15 17°≈27'04 0°¥ 23°¥19'28 0°Y 0°B 0°B 8°\$07'14	
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 08:53 8963 Sep 03 00:34 8963 Sep 08 19:55 8963 Sep 24 14:12 8963 Oct 04 05:54 8963 Oct 31 17:31	24° m/43'03 26° m/58'20 26° m/38'48 22° m/28'34 19° m/15'30 18° m/47'42 19° m/00'42 15° m/30'22 10° m/45'52 12° m/26'47 0° Ω	0.28304 AU -4°06'29 4°04'17 -4.7m	minimum elong desc. node evening rise	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57 8966 Apr 23 23:27 8966 May 18 03:10 8966 May 24 17:05 8966 Jun 11 13:53	5°≈00'15 17°≈27'04 0°¥ 23°¥19'28 0°Y 0°B 0°I 0°© 8°©07'14 0°Ω	
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retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 00:34 8963 Sep 03 00:34 8963 Sep 08 19:55 8963 Sep 24 14:12 8963 Oct 04 05:54 8963 Oct 31 17:31 8963 Nov 12 05:54 8963 Dec 01 12:04 8963 Dec 08 00:46 8963 Dec 28 12:47 8964 Jan 23 03:05 8964 Feb 16 23:38 8964 Mar 12 09:55 8964 Mar 28 18:08	24° m/43'03 26° m/58'20 26° m/38'48 22° m/28'34 19° m/15'30 18° m/47'42 19° m/00'42 15° m/30'22 10° m/45'52 12° m/26'47 0° Ω 10° Ω27'35 0° m. 7° m.01'45 0° ズ 0° ♂ 0° ≈ 0° ★ 20° ★ 16'02	0.28304 AU -4°06'29 4°04'17 -4.7m	minimum elong desc. node evening rise asc. node evening max el desc. node	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57 8966 Apr 23 23:27 8966 May 18 03:10 8966 May 24 17:05 8966 Jun 11 13:53 8966 Jul 06 12:51 8966 Aug 01 10:09 8966 Aug 29 08:56 8966 Sep 02 18:00 8966 Sep 13 13:01 8966 Oct 05 03:09 8966 Oct 11 13:59 8966 Oct 21 20:55	5°≈00'15 17°≈27'04 0° H 23° H 19'28 0° Y 0° B 0° II 0° S 8° S07'14 0° Ω 0° II 0° Ω 0° II 0° Ω 10° Ω 1	0°24'29 45°52'25
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retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 00:34 8963 Sep 08 19:55 8963 Sep 24 14:12 8963 Oct 04 05:54 8963 Oct 31 17:31 8963 Nov 12 05:54 8963 Dec 01 12:04 8963 Dec 08 00:46 8963 Dec 28 12:47 8964 Jan 23 03:05 8964 Feb 16 23:38 8964 Mar 12 09:55 8964 Apr 05 13:39 8964 Apr 29 13:12	24° m/43'03 26° m/58'20 26° m/58'20 26° m/38'48 22° m/28'34 19° m/15'30 18° m/47'42 19° m/00'42 15° m/30'22 10° m/45'52 12° m/26'47 0° Ω 10° Ω27'35 0° M 7° m/01'45 0° ズ 0° ズ 0° ズ 0° ズ 20° 升 20° 升 20° 升 20° 升 20° 升 0° ϒ	0.28304 AU -4°06'29 4°04'17 -4.7m	minimum elong desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57 8966 Apr 23 23:27 8966 May 18 03:10 8966 May 24 17:05 8966 Jun 11 13:53 8966 Jul 06 12:51 8966 Aug 01 10:09 8966 Aug 29 08:56 8966 Sep 02 18:00 8966 Sep 13 13:01 8966 Oct 05 03:09 8966 Oct 11 13:59 8966 Oct 21 20:55 8966 Nov 06 14:56 8966 Nov 09 03:24	5°≈00'15 17°≈27'04 0° H 23° H 19'28 0° Y 0° B 0° II 0° S 8° S07'14 0° A 0° M 0° A 0° M 0° A 19'35 14° M.20'17 0° 2° ₹52'05 4° ₹47'18 30° RM 28° M.31'12	0°24'29 45°52'25 -4.7m
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 00:34 8963 Sep 08 19:55 8963 Sep 24 14:12 8963 Oct 04 05:54 8963 Oct 31 17:31 8963 Nov 12 05:54 8963 Dec 01 12:04 8963 Dec 08 00:46 8963 Dec 28 12:47 8964 Jan 23 03:05 8964 Feb 16 23:38 8964 Mar 12 09:55 8964 Apr 05 13:39 8964 Apr 29 13:12 8964 May 13 06:56	24° m/43'03 26° m/58'20 26° m/38'48 22° m/28'34 19° m/15'30 18° m/47'42 19° m/00'42 15° m/30'22 10° m/45'52 12° m/26'47 0° Ω 10° Ω27'35 0° m 7° m/01'45 0° ズ 0° % 0° ★ 20° ★ 16'02 0° Υ 0° ϒ 17° 8/14'32	0.28304 AU -4°06'29 4°04'17 -4.7m	minimum elong desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57 8966 Apr 23 23:27 8966 May 18 03:10 8966 May 24 17:05 8966 Jun 11 13:53 8966 Jul 06 12:51 8966 Aug 01 10:09 8966 Aug 29 08:56 8966 Sep 02 18:00 8966 Sep 13 13:01 8966 Oct 05 03:09 8966 Oct 11 13:59 8966 Oct 21 20:55 8966 Nov 06 14:56 8966 Nov 09 03:24 8966 Nov 12 09:13	5°≈00'15 17°≈27'04 0° H 23° H 19'28 0° Y 0° B 0° II 0° S 8° S07'14 0° A 0° M 0° L 4° M 19'35 14° M 20'17 0° A 2° A 52'05 4° A 47'18 30° R M 28° M 31'12 26° M 30'23	0°24'29 45°52'25 -4.7m
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 00:34 8963 Sep 08 19:55 8963 Sep 24 14:12 8963 Oct 04 05:54 8963 Oct 31 17:31 8963 Nov 12 05:54 8963 Dec 01 12:04 8963 Dec 08 00:46 8963 Dec 28 12:47 8964 Jan 23 03:05 8964 Feb 16 23:38 8964 Mar 12 09:55 8964 Mar 28 18:08 8964 Apr 05 13:39 8964 Apr 05 13:39 8964 May 13 06:56 8964 May 23 10:45	24° m/43'03 26° m/58'20 26° m/38'48 22° m/28'34 19° m/15'30 18° m/47'42 19° m/00'42 15° m/30'22 10° m/45'52 12° m/26'47 0° Ω 10° Ω27'35 0° m. 7° m/01'45 0° ズ 0° % 0° % 20° ★ 16'02 0° Υ 0° ℧ 17° ℧ 14'32 0° П	0.28304 AU -4°06'29 4°04'17 -4.7m	minimum elong desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57 8966 Apr 23 23:27 8966 May 18 03:10 8966 May 24 17:05 8966 Jun 11 13:53 8966 Jul 06 12:51 8966 Aug 01 10:09 8966 Aug 29 08:56 8966 Sep 02 18:00 8966 Sep 13 13:01 8966 Oct 05 03:09 8966 Oct 11 13:59 8966 Oct 21 20:55 8966 Nov 06 14:56 8966 Nov 09 03:24 8966 Nov 12 09:13 8966 Nov 12 11:03	5°≈00'15 17°≈27'04 0° H 23° H 19'28 0° Y 0° B 0° II 0° S 8° S07'14 0° A 0° M 0° L 0° M 0° L 4° M 19'35 14° M 20'17 0° 2° X 52'05 4° X 47'18 30° R M 28° M 31'12 26° M 30'23 26° M 27'31	0°24'29 45°52'25 -4.7m -8°36'45 8°36'30
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 00:34 8963 Sep 08 19:55 8963 Sep 24 14:12 8963 Oct 04 05:54 8963 Oct 31 17:31 8963 Nov 12 05:54 8963 Dec 01 12:04 8963 Dec 08 00:46 8963 Dec 28 12:47 8964 Jan 23 03:05 8964 Feb 16 23:38 8964 Mar 12 09:55 8964 Apr 05 13:39 8964 Apr 29 13:12 8964 May 13 06:56	24° m/43'03 26° m/58'20 26° m/38'48 22° m/28'34 19° m/15'30 18° m/47'42 19° m/00'42 15° m/30'22 10° m/45'52 12° m/26'47 0° Ω 10° Ω27'35 0° m 7° m/01'45 0° ズ 0° % 0° ★ 20° ★ 16'02 0° Υ 0° ϒ 17° 8/14'32	0.28304 AU -4°06'29 4°04'17 -4.7m	minimum elong desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57 8966 Apr 23 23:27 8966 May 18 03:10 8966 May 24 17:05 8966 Jun 11 13:53 8966 Jul 06 12:51 8966 Aug 01 10:09 8966 Aug 01 10:09 8966 Sep 02 18:00 8966 Sep 02 18:00 8966 Sep 13 13:01 8966 Oct 05 03:09 8966 Oct 11 13:59 8966 Oct 21 20:55 8966 Nov 06 14:56 8966 Nov 09 03:24 8966 Nov 12 09:13 8966 Nov 12 11:03 8966 Nov 12 11:03	5°≈00'15 17°≈27'04 0° H 23° H 19'28 0° Y 0° B 0° II 0° S 8° S07'14 0° A 0° M 0° L 0° M 0° L 4° M 19'35 14° M 20'17 0° X 2° X 52'05 4° X 47'18 30° R M 28° M 31'12 26° M 30'23 26° M 27'31 26° M 24'27	0°24'29 45°52'25 -4.7m
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node desc. node morning set	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 00:34 8963 Sep 03 00:34 8963 Sep 08 19:55 8963 Sep 24 14:12 8963 Oct 04 05:54 8963 Oct 31 17:31 8963 Nov 12 05:54 8963 Dec 01 12:04 8963 Dec 08 00:46 8963 Dec 28 12:47 8964 Jan 23 03:05 8964 Feb 16 23:38 8964 Mar 12 09:55 8964 Mar 28 18:08 8964 Apr 05 13:39 8964 Apr 29 13:12 8964 May 13 06:56 8964 May 23 10:45 8964 Jun 16 08:32	24° m/43'03 26° m/58'20 26° m/38'48 22° m/28'34 19° m/15'30 18° m/47'42 19° m/00'42 15° m/30'22 10° m/45'52 12° m/26'47 0° Ω 10° Ω27'35 0° m. 7° m/01'45 0° ズ 0° ズ 0° ズ 0° X 20° H 16'02 0° Y 0° S 17° S 14'32 0° II 0° ©	0.28304 AU -4°06'29 4°04'17 -4.7m 45°41'27	minimum elong desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57 8966 Apr 23 23:27 8966 May 18 03:10 8966 May 24 17:05 8966 Jun 11 13:53 8966 Jul 06 12:51 8966 Aug 01 10:09 8966 Aug 01 10:09 8966 Sep 02 18:00 8966 Sep 02 18:00 8966 Sep 13 13:01 8966 Oct 05 03:09 8966 Oct 11 13:59 8966 Oct 21 20:55 8966 Nov 06 14:56 8966 Nov 09 03:24 8966 Nov 12 09:13 8966 Nov 12 11:03 8966 Nov 12 13:00 8966 Nov 15 18:41	5°≈00'15 17°≈27'04 0° H 23° H 19'28 0° Y 0° B 0° II 0° © 8° © 07'14 0° N 0° II 19'35 14° II 20'17 0° II 2° II 20'17 2° II 20'11 20° II 20° II 20'11 20° II 20° II 20'11 20° II 20°	0°24'29 45°52'25 -4.7m -8°36'45 8°36'30
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 00:34 8963 Sep 03 00:34 8963 Sep 08 19:55 8963 Sep 24 14:12 8963 Oct 04 05:54 8963 Oct 31 17:31 8963 Nov 12 05:54 8963 Dec 01 12:04 8963 Dec 08 00:46 8963 Dec 28 12:47 8964 Jan 23 03:05 8964 Feb 16 23:38 8964 Mar 12 09:55 8964 Mar 28 18:08 8964 Apr 05 13:39 8964 Apr 29 13:12 8964 May 23 10:45 8964 Jun 16 08:32	24° m/43'03 26° m/58'20 26° m/58'20 26° m/38'48 22° m/28'34 19° m/15'30 18° m/47'42 19° m/00'42 15° m/30'22 10° m/45'52 12° m/26'47 0° Ω 10° Ω27'35 0° m 7° m/01'45 0° ズ	0.28304 AU -4°06'29 4°04'17 -4.7m 45°41'27	minimum elong desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57 8966 Apr 23 23:27 8966 May 18 03:10 8966 May 24 17:05 8966 Jun 11 13:53 8966 Jul 06 12:51 8966 Aug 01 10:09 8966 Aug 01 10:09 8966 Sep 02 18:00 8966 Sep 02 18:00 8966 Sep 13 13:01 8966 Oct 05 03:09 8966 Oct 11 13:59 8966 Oct 21 20:55 8966 Nov 06 14:56 8966 Nov 09 03:24 8966 Nov 12 09:13 8966 Nov 12 11:03 8966 Nov 12 13:00 8966 Nov 15 18:41 8966 Dec 03 21:51	5°≈00'15 17°≈27'04 0° H 23° H 19'28 0° Y 0° B 0° II 0° © 8° © 07'14 0° A 0° M 0° M 4° M 19'35 14° M 20'17 0° A 2° A'52'05 4° A'47'18 30° RM 28° M 31'12 26° M 30'23 26° M 24'27 24° M 24'01 18° M 12'08	0°24'29 45°52'25 -4.7m -8°36'45 8°36'30 0.29136 AU
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj minimum elong	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 00:34 8963 Sep 03 00:34 8963 Sep 08 19:55 8963 Sep 24 14:12 8963 Oct 04 05:54 8963 Oct 31 17:31 8963 Nov 12 05:54 8963 Dec 01 12:04 8963 Dec 08 00:46 8963 Dec 28 12:47 8964 Jan 23 03:05 8964 Feb 16 23:38 8964 Mar 12 09:55 8964 Mar 28 18:08 8964 Apr 05 13:39 8964 Apr 29 13:12 8964 May 13 06:56 8964 May 23 10:45 8964 Jun 16 08:32	24° m/43'03 26° m/58'20 26° m/58'20 26° m/38'48 22° m/28'34 19° m/15'30 18° m/47'42 19° m/00'42 15° m/30'22 10° m/45'52 12° m/26'47 0° Ω 10° Ω27'35 0° m 7° m/01'45 0° ズ 0° ♂ 0° ♂ 0° ★ 20° ★ 16'02 0° Y 0° ❸ 17° ♂ 14'32 0° ∏ 0° ⑤ 7° © 28'51 8° © 04'30	0.28304 AU -4°06'29 4°04'17 -4.7m 45°41'27	minimum elong desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57 8966 Apr 23 23:27 8966 May 18 03:10 8966 May 24 17:05 8966 Jun 11 13:53 8966 Jul 06 12:51 8966 Aug 01 10:09 8966 Aug 29 08:56 8966 Sep 02 18:00 8966 Sep 13 13:01 8966 Oct 05 03:09 8966 Oct 11 13:59 8966 Oct 21 20:55 8966 Nov 06 14:56 8966 Nov 09 03:24 8966 Nov 12 09:13 8966 Nov 12 11:03 8966 Nov 12 13:00 8966 Nov 15 18:41 8966 Dec 03 21:51 8966 Dec 14 13:18	5°≈00'15 17°≈27'04 0° H 23° H 19'28 0° Y 0° B 0° II 0° S 8° 507'14 0° A 0° M 4° M 19'35 14° M 20'17 0° A 2° X 52'05 4° X 47'18 30° RM 28° M 31'12 26° M 30'23 26° M 24'27 24° M 24'01 18° M 12'08 20° M 16'08	0°24'29 45°52'25 -4.7m -8°36'45 8°36'30
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 00:34 8963 Sep 03 00:34 8963 Sep 08 19:55 8963 Sep 24 14:12 8963 Oct 04 05:54 8963 Oct 31 17:31 8963 Nov 12 05:54 8963 Dec 01 12:04 8963 Dec 08 00:46 8963 Dec 28 12:47 8964 Jan 23 03:05 8964 Feb 16 23:38 8964 Mar 12 09:55 8964 Mar 28 18:08 8964 Apr 05 13:39 8964 Apr 29 13:12 8964 May 23 10:45 8964 Jun 26 07:53 8964 Jun 22 07:53 8964 Jun 22 19:16 8964 Jun 25 08:20	24° m/43'03 26° m/58'20 26° m/58'20 26° m/38'48 22° m/28'34 19° m/15'30 18° m/47'42 19° m/00'42 15° m/30'22 10° m/45'52 12° m/26'47 0° Ω 10° Ω27'35 0° m 7° m/01'45 0° ズ 0° ♂ 0° ♂ 0° ★ 20° ★ 16'02 0° Ƴ 0° ❤ 17° ♂ 14'32 0° ∏ 0° © 7° © 28'51 8° © 04'30 11° © 15'32	0.28304 AU -4°06'29 4°04'17 -4.7m 45°41'27	minimum elong desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57 8966 Apr 23 23:27 8966 May 18 03:10 8966 May 24 17:05 8966 Jun 11 13:53 8966 Jul 06 12:51 8966 Aug 01 10:09 8966 Aug 29 08:56 8966 Sep 02 18:00 8966 Sep 13 13:01 8966 Oct 05 03:09 8966 Oct 11 13:59 8966 Oct 21 20:55 8966 Nov 06 14:56 8966 Nov 09 03:24 8966 Nov 12 09:13 8966 Nov 12 11:03 8966 Nov 12 13:00 8966 Nov 15 18:41 8966 Dec 03 21:51 8966 Dec 14 13:18 8966 Dec 31 11:04	5°≈00'15 17°≈27'04 0° H 23° H 19'28 0° Y 0° B 0° II 0° S 8° 507'14 0° A 0° II 0° A 0° II 0° A 0° II 0° A 10'	0°24'29 45°52'25 -4.7m -8°36'45 8°36'30 0.29136 AU
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj minimum elong max. Earth dist.	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 00:34 8963 Sep 03 00:34 8963 Sep 08 19:55 8963 Sep 24 14:12 8963 Oct 04 05:54 8963 Oct 31 17:31 8963 Nov 12 05:54 8963 Dec 01 12:04 8963 Dec 08 00:46 8963 Dec 28 12:47 8964 Jan 23 03:05 8964 Feb 16 23:38 8964 Mar 12 09:55 8964 Mar 28 18:08 8964 Apr 05 13:39 8964 Apr 29 13:12 8964 May 13 06:56 8964 May 23 10:45 8964 Jun 22 07:53 8964 Jun 22 07:53 8964 Jun 22 19:16 8964 Jun 25 08:20 8964 Jul 10 08:19	24° m43'03 26° m58'20 26° m58'20 26° m38'48 22° m28'34 19° m15'30 18° m47'42 19° m00'42 15° m30'22 10° m45'52 12° m26'47 0° £ 10° £27'35 0° m. 7° m01'45 0° \$\frac{1}{2}\$ 0° \$\frac{1}{2}\$ 0° \$\frac{1}{2}\$ 0° \$\frac{1}{2}\$ 10° £32'032 0° \$\frac{1}{2}\$ 10° \$\frac{1}{2}\$ 10° \$\frac{1}{2}\$ 10° \$\frac{1}{2}\$ 10° \$\frac{1}{2}\$ 10° \$\frac{1}{2}\$ 11° \$\frac{1}{2}\$ 12° \$\frac{1}{2}\$ 11° \$\frac{1}{2}\$ 12° \$\frac{1}{2}\$ 12° \$\frac{1}{2}\$ 12° \$\frac{1}{2}\$ 13° \$\frac{1}{	0.28304 AU -4°06'29 4°04'17 -4.7m 45°41'27	minimum elong desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57 8966 Apr 23 23:27 8966 May 18 03:10 8966 May 24 17:05 8966 Jun 11 13:53 8966 Jul 06 12:51 8966 Aug 01 10:09 8966 Aug 29 08:56 8966 Sep 02 18:00 8966 Sep 13 13:01 8966 Oct 05 03:09 8966 Oct 11 13:59 8966 Oct 21 20:55 8966 Nov 06 14:56 8966 Nov 09 03:24 8966 Nov 12 09:13 8966 Nov 12 11:03 8966 Nov 12 13:00 8966 Nov 15 18:41 8966 Dec 03 21:51 8966 Dec 14 13:18 8966 Dec 31 11:04 8967 Jan 04 12:26	5°≈00'15 17°≈27'04 0° H 23° H 19'28 0° Y 0° B 0° II 0° S 8° 507'14 0° Ω 0° II 0° Ω 0° II 0° Ω 0° II 0° Ω 14° II 19'35 14° II 20'17 0° X 2° X 52'05 4° X 47'18 30° R II 28° II 31'12 26° II 30'23 26° II 24'27 24° II 24'01 18° II 12'08 20° II 16'08 0° X 3° X 08'32	0°24'29 45°52'25 -4.7m -8°36'45 8°36'30 0.29136 AU -4.8m
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj minimum elong max. Earth dist. asc. node	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 00:34 8963 Sep 03 00:34 8963 Sep 08 19:55 8963 Sep 24 14:12 8963 Oct 04 05:54 8963 Oct 04 05:54 8963 Dec 01 12:04 8963 Dec 01 12:04 8963 Dec 08 00:46 8963 Dec 28 12:47 8964 Jan 23 03:05 8964 Feb 16 23:38 8964 Mar 12 09:55 8964 Mar 28 18:08 8964 Apr 05 13:39 8964 Apr 29 13:12 8964 May 13 06:56 8964 May 23 10:45 8964 Jun 22 07:53 8964 Jun 22 07:53 8964 Jun 22 19:16 8964 Jun 25 08:20 8964 Jul 10 08:19 8964 Jul 19 14:58	24° m43'03 26° m58'20 26° m58'48 22° m28'34 19° m15'30 18° m47'42 19° m00'42 15° m30'22 10° m45'52 12° m26'47 0° £ 10° £27'35 0° m. 7° m01'45 0° % 0° % 0° ¥ 20° ¥ 16'02 0° Y 0° \$ 17° \$14'32 0° \$1 0° \$2 1° \$28'51 8° \$204'30 11° \$15'32 0° \$1	0.28304 AU -4°06'29 4°04'17 -4.7m 45°41'27	minimum elong desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57 8966 Apr 23 23:27 8966 May 18 03:10 8966 May 24 17:05 8966 Jun 11 13:53 8966 Jul 06 12:51 8966 Aug 01 10:09 8966 Aug 29 08:56 8966 Sep 02 18:00 8966 Sep 13 13:01 8966 Oct 05 03:09 8966 Oct 11 13:59 8966 Oct 11 13:59 8966 Oct 21 20:55 8966 Nov 06 14:56 8966 Nov 09 03:24 8966 Nov 12 09:13 8966 Nov 12 11:03 8966 Nov 12 11:03 8966 Nov 12 13:00 8966 Dec 03 21:51 8966 Dec 03 21:51 8966 Dec 14 13:18 8966 Dec 31 11:04 8967 Jan 04 12:26 8967 Jan 04 12:26	5°≈00'15 17°≈27'04 0° H 23° H 19'28 0° Y 0° B 0° II 0° S 8° 507'14 0° Ω 0° M 0° Ω 0° M 4° M 19'35 14° M 20'17 0° I 2° I 30' R M 28° M 31'12 26° M 30'23 26° M 24'27 24° M 24'01 18° M 12'08 20° M 16'08 0° I 3° I 3'708'32 19° I 15'37	0°24'29 45°52'25 -4.7m -8°36'45 8°36'30 0.29136 AU -4.8m
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj minimum elong max. Earth dist.	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 08:53 8963 Sep 03 00:34 8963 Sep 08 19:55 8963 Sep 24 14:12 8963 Oct 04 05:54 8963 Oct 04 05:54 8963 Oct 01 12:04 8963 Dec 01 12:04 8963 Dec 08 00:46 8963 Dec 28 12:47 8964 Jan 23 03:05 8964 Feb 16 23:38 8964 Mar 12 09:55 8964 Mar 28 18:08 8964 Apr 05 13:39 8964 Apr 05 13:39 8964 Apr 29 13:12 8964 May 13 06:56 8964 May 23 10:45 8964 Jun 16 08:32 8964 Jun 22 07:53 8964 Jun 22 19:16 8964 Jun 25 08:20 8964 Jul 10 08:19 8964 Jul 19 14:58 8964 Jul 19 14:58	24° m43'03 26° m58'20 26° m58'48 22° m28'34 19° m15'30 18° m47'42 19° m00'42 15° m30'22 10° m45'52 12° m26'47 0° £ 10° £27'35 0° M 7° M01'45 0° % 0° % 0° ¥ 20° ¥ 16'02 0° Y 0° \$ 17° \$14'32 0° \$1 0° \$28'51 8° \$04'30 11° \$15'32 0° \$1 11° \$33'42 26° \$33'45	0.28304 AU -4°06'29 4°04'17 -4.7m 45°41'27	minimum elong desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57 8966 Apr 23 23:27 8966 May 18 03:10 8966 May 24 17:05 8966 Jun 11 13:53 8966 Jul 06 12:51 8966 Aug 01 10:09 8966 Aug 29 08:56 8966 Sep 02 18:00 8966 Sep 13 13:01 8966 Oct 05 03:09 8966 Oct 11 13:59 8966 Oct 21 20:55 8966 Nov 06 14:56 8966 Nov 09 03:24 8966 Nov 12 09:13 8966 Nov 12 11:03 8966 Nov 12 11:03 8966 Nov 12 13:00 8966 Nov 12 13:00 8966 Dec 03 21:51 8966 Dec 03 21:51 8966 Dec 14 13:18 8966 Dec 14 13:18 8966 Dec 31 11:04 8967 Jan 04 12:26 8967 Feb 01 21:56	5°≈00'15 17°≈27'04 0° H 23° H 19'28 0° Y 0° B 0° II 0° S 8° S07'14 0° Ω 0° II 0° S 14° II.20'17 0° A 2° A 752'05 4° A 47'18 30° R II 28° II.31'12 26° II.30'23 26° II.27'31 26° II.24'27 24° II.24'01 18° II.12'08 20° II.16'08 0° A 3° A 708'32 19° A 15'37 0° S	0°24'29 45°52'25 -4.7m -8°36'45 8°36'30 0.29136 AU -4.8m
retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj minimum elong max. Earth dist. asc. node	8963 Aug 01 23:26 8963 Aug 13 01:01 8963 Aug 17 01:45 8963 Aug 28 05:49 8963 Sep 02 15:05 8963 Sep 03 00:34 8963 Sep 03 00:34 8963 Sep 08 19:55 8963 Sep 24 14:12 8963 Oct 04 05:54 8963 Oct 04 05:54 8963 Dec 01 12:04 8963 Dec 01 12:04 8963 Dec 08 00:46 8963 Dec 28 12:47 8964 Jan 23 03:05 8964 Feb 16 23:38 8964 Mar 12 09:55 8964 Mar 28 18:08 8964 Apr 05 13:39 8964 Apr 29 13:12 8964 May 13 06:56 8964 May 23 10:45 8964 Jun 22 07:53 8964 Jun 22 07:53 8964 Jun 22 19:16 8964 Jun 25 08:20 8964 Jul 10 08:19 8964 Jul 19 14:58	24° m43'03 26° m58'20 26° m58'48 22° m28'34 19° m15'30 18° m47'42 19° m00'42 15° m30'22 10° m45'52 12° m26'47 0° £ 10° £27'35 0° m. 7° m01'45 0° % 0° % 0° ¥ 20° ¥ 16'02 0° Y 0° \$ 17° \$14'32 0° \$1 0° \$2 1° \$28'51 8° \$204'30 11° \$15'32 0° \$1	0.28304 AU -4°06'29 4°04'17 -4.7m 45°41'27	minimum elong desc. node evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	8966 Jan 21 18:40 8966 Jan 31 19:11 8966 Feb 10 21:22 8966 Mar 01 14:29 8966 Mar 06 22:51 8966 Mar 30 22:57 8966 Apr 23 23:27 8966 May 18 03:10 8966 May 24 17:05 8966 Jun 11 13:53 8966 Jul 06 12:51 8966 Aug 01 10:09 8966 Aug 29 08:56 8966 Sep 02 18:00 8966 Sep 13 13:01 8966 Oct 05 03:09 8966 Oct 11 13:59 8966 Oct 11 13:59 8966 Oct 21 20:55 8966 Nov 06 14:56 8966 Nov 09 03:24 8966 Nov 12 09:13 8966 Nov 12 11:03 8966 Nov 12 11:03 8966 Nov 12 13:00 8966 Dec 03 21:51 8966 Dec 03 21:51 8966 Dec 14 13:18 8966 Dec 31 11:04 8967 Jan 04 12:26 8967 Jan 04 12:26	5°≈00'15 17°≈27'04 0° H 23° H 19'28 0° Y 0° B 0° II 0° S 8° 507'14 0° Ω 0° M 0° Ω 0° M 4° M 19'35 14° M 20'17 0° I 2° I 30' R M 28° M 31'12 26° M 30'23 26° M 24'27 24° M 24'01 18° M 12'08 20° M 16'08 0° I 3° I 3'708'32 19° I 15'37	0°24'29 45°52'25 -4.7m -8°36'45 8°36'30 0.29136 AU -4.8m

	8967 Apr 20 07:23	0° Y			8969 Oct 30 21:02	8°0	
desc. node	8967 Apr 26 06:29	7° Υ 18'31		evening max el	8969 Nov 13 00:43	13° る 06'47	45°46'58
	8967 May 14 15:49	0°8			8969 Dec 02 11:35	0°≈	
	8967 Jun 07 19:20	0° Ⅱ		greatest brilliancy	8969 Dec 22 06:25	11° ≈ 19'40	-4.8m
	8967 Jul 01 21:17	0° ©		retrograde	8969 Dec 31 18:46	12° ≈ 58'36	
	8967 Jul 25 23:53	$0^{\circ}\Omega$		evening set	8970 Jan 15 23:08	8° ≈ 32'33	
morning set	8967 Jul 27 04:08	1° Ω 27'46		inferior conj	8970 Jan 21 20:04	5° ≈ 02'24	-2°31'00
asc. node	8967 Aug 17 03:15	27° Ω 28'53		minimum elong	8970 Jan 22 01:35	4° ≈ 53'50	2°29'07
	8967 Aug 19 04:02	0° m		min. Earth dist.	8970 Jan 22 12:39	4° ≈ 36'36	0.27870 AU
				morning rise	8970 Jan 28 03:18	1° ≈ 16'35	
superior conj	8967 Sep 03 09:40	18° m 51'44	0°40'15		8970 Jan 30 15:01	30°₹ ⋜	
minimum elong	8967 Sep 03 01:37	18° Mp 26′50	0°39'49	asc. node	8970 Feb 01 00:03	29° ろ 22'26	
max. Earth dist.	8967 Sep 05 08:22	21°Mp 16'12	1.72881 AU	direct	8970 Feb 11 23:12	26° る 57'19	
	8967 Sep 12 09:48	0∘ ⊽		greatest brilliancy	8970 Feb 22 22:01	29° る 10'55	-4.8m
	8967 Oct 06 17:13	0°M,			8970 Feb 24 21:02	0°≈	46047144
evening rise	8967 Oct 10 05:21	4° ጤ 19'09 0° ҂		morning max el	8970 Apr 03 06:39	29° ≈ 32'24 0° 升	46°47'44
	8967 Oct 31 02:51 8967 Nov 24 15:38	0° ਨ ਰਾ			8970 Apr 03 17:37	0° Υ	
desc. node	8967 Nov 24 13.38 8967 Dec 06 21:02	0 る 14° る 52'47		desc. node	8970 May 01 12:00 8970 May 23 18:52	0 γ 25°Υ52'36	
desc. Hode	8967 Dec 00 21:02 8967 Dec 19 08:15	0°≈		desc. Hode	8970 May 27 06:20	0° 8	
	8968 Jan 13 05:07	0° ∀			8970 Jun 21 05:16	0°II	
	8968 Feb 07 07:56	0°Υ			8970 Jul 15 19:49	0.ee	
	8968 Mar 03 23:04	0°8			8970 Aug 09 07:21	$0^{\circ}\Omega$	
asc. node	8968 Mar 28 20:22	27° 8 47'53			8970 Sep 02 17:57	0° m/y	
	8968 Mar 30 21:49	$\Pi^{\circ}0$		asc. node	8970 Sep 13 15:42	13° m 23'54	
evening max el	8968 Apr 09 13:27	10° Ⅱ 00'50	46°57'55		8970 Sep 27 03:47	0 o $\overline{\mathbf{v}}$	
	8968 May 01 13:31	0 \circ \odot		morning set	8970 Oct 05 05:28	9° ჲ 55'52	
greatest brilliancy	8968 May 19 23:38	10° © 57'17	-4.9m		8970 Oct 21 12:35	0° M	
retrograde	8968 May 30 01:14	12° © 51'37					
evening set	8968 Jun 15 12:23	7° 5 33'59		superior conj	8970 Nov 10 21:35	25°M07'20	1°25'51
inferior conj	8968 Jun 19 19:06	4° © 58'50	6°38'25	minimum elong	8970 Nov 10 22:50		1°26'02
minimum elong	8968 Jun 20 06:10	4° 5 641'49	6°35'42	max. Earth dist.	8970 Nov 10 11:53	24°M37'25	1.73271 AU
min. Earth dist.	8968 Jun 19 20:48	4°956'13	0.27241 AU		8970 Nov 14 20:31	0° ⊼	
morning rise	8968 Jun 25 00:11	1°952'42			8970 Dec 09 04:16	0°る	
direct	8968 Jun 28 16:18 8968 Jul 10 13:33	30°ŖⅡ 27°Ⅱ10'32		evening rise	8970 Dec 17 20:46 8971 Jan 02 12:20	10°る42'34 0°≈	
desc. node	8968 Jul 18 16:19	28° I I25'31		desc. node	8971 Jan 03 08:59	0 ≈ 1°≈03'37	
greatest brilliancy	8968 Jul 20 08:20	28° I I57'59	-4.8m	desc. Hode	8971 Jan 26 20:32	0° ∺	
greatest oriniancy	8968 Jul 22 23:55	0°95	4.0111		8971 Feb 20 04:42	0° Υ	
morning max el	8968 Aug 29 04:21	28° © 26'35	46°10'42		8971 Mar 16 13:53	0°8	
	8968 Aug 30 18:32	$0^{\circ}\Omega$			8971 Apr 10 03:38	0°Щ	
	8968 Sep 28 07:45	0° m		asc. node	8971 Apr 26 07:35	19° Ⅱ 26'59	
	8968 Oct 24 20:50	0∘ ⊽			8971 May 05 05:00	0ಂತ	
asc. node	8968 Nov 08 14:36	17° ≏ 10′20			8971 May 31 08:06	$0^{\circ}\Omega$	
	8968 Nov 19 11:06	0° M		evening max el	8971 Jun 21 14:11	22° Ω 32'41	46°35'19
	8968 Dec 14 11:01	0°⊀			8971 Jun 29 06:27	0°Щ	
	8969 Jan 08 01:20	0°ප		greatest brilliancy	8971 Jul 30 15:31	22° m 29'29	-4.8m
	8969 Feb 01 09:17	0° ≈		retrograde	8971 Aug 10 16:15	24° m 44'39	
morning set	8969 Feb 23 23:01	28°≈02'17		desc. node	8971 Aug 16 03:46	24° Mp 08'21	
	8969 Feb 25 12:48	0°) {		evening set	8971 Aug 25 19:39	20° Mp 16'58	
desc. node	8969 Feb 28 07:32	3° ¥ 27'59 0° Υ		min. Earth dist.	8971 Aug 31 06:56	17° Mp 01'30	0.28257 AU
max. Earth dist.	8969 Mar 21 12:57 8969 Apr 03 05:15	15° Υ 54'03	1.71376 AU	inferior conj minimum elong	8971 Sep 01 00:09 8971 Aug 31 16:19	16° Mp 34'40 16° Mp 46'53	
max. Earth dist.	6909 Apr 03 03.13	13 1 34 03	1./13/0 AU	•	8971 Sep 06 13:30	13° M) 14'10	3 43 30
superior conj	8969 Apr 05 07:19	18° Ƴ 31'09	-1°13'53	morning rise direct	8971 Sep 06 13:30 8971 Sep 22 04:28	8° Mp 33'16	
minimum elong	8969 Apr 04 20:28	17° Υ 57'06		greatest brilliancy	8971 Oct 01 21:30	10° mg 15'11	-4 7m
	8969 Apr 14 10:39	0°8	,	5. carest orinitate y	8971 Oct 31 21:24	0∘ ʊ	
	8969 May 08 07:28	0°II		morning max el	8971 Nov 09 20:23	° - 8° - 14'12	45°41'41
evening rise	8969 May 15 18:10	9° Ⅱ 21'07		<i>5</i> 22	8971 Dec 01 04:44	0°M	•
Č	8969 Jun 01 05:29	0ಂತಾ		asc. node	8971 Dec 07 02:49	6°M24'31	
asc. node	8969 Jun 21 04:54	24° © 55'33			8971 Dec 28 02:17	0° ∡ ″	
	8969 Jun 25 06:53	$0^{\circ}\Omega$			8972 Jan 22 15:14	8°0	
	8969 Jul 19 13:40	0° ™			8972 Feb 16 11:07	0° ≈	
	8969 Aug 13 04:15	0∘ ⊽			8972 Mar 11 21:02	0° ∀	
	8969 Sep 07 06:52	0°M		desc. node	8972 Mar 27 19:55	19°) (47′32	
	8969 Oct 03 05:58	0° √			8972 Apr 05 00:33	0° Υ	
desc. node	8969 Oct 11 00:02	8° ≯ ′40′06			8972 Apr 28 23:57	0° 8	

morning set	8972 May 10 17:57 8972 May 22 21:24 8972 Jun 15 19:06	14° ႘ 44'48 0°Ⅱ 0°©		inferior conj minimum elong min. Earth dist. morning rise	8974 Nov 10 01:26 8974 Nov 10 02:31 8974 Nov 10 03:35 8974 Nov 13 09:33	24°M21'04 24°M19'22 24°M17'40 22°M16'40	
superior conj minimum elong max. Earth dist.	8972 Jun 19 20:28 8972 Jun 20 07:56 8972 Jun 22 17:07			direct greatest brilliancy	8974 Dec 01 14:44 8974 Dec 12 03:45 8974 Dec 31 23:19	16°M03'06 18°M05'01 0°⊀	-4.7m
asc. node evening rise	8972 Jul 09 18:51 8972 Jul 18 16:58 8972 Jul 29 09:19	0° Ω 11° Ω07'10 24° Ω23'50		asc. node morning max el	8975 Jan 03 14:29 8975 Jan 20 00:39 8975 Feb 01 16:09	2° メ 06'54 17° メ 03'29 0°る	46°01'38
	8972 Aug 02 21:41 8972 Aug 27 04:16 8972 Sep 20 15:42 8972 Oct 15 10:07	0° ™ 0° ™ 0° ™		desc. node	8975 Feb 28 15:20 8975 Mar 26 02:01 8975 Apr 19 19:21	0°≈ 0°₩ 0°Υ 6°Υ48'23	
desc. node	8972 Nov 07 11:24 8972 Nov 09 14:33 8972 Dec 05 09:25	27°♂29'02 0°♂ 0°≈		desc. node	8975 Apr 25 08:30 8975 May 14 03:19 8975 Jun 07 06:31 8975 Jul 01 08:14	0°日 0°日 0°日	
evening max el	8973 Jan 01 04:31 8973 Jan 24 01:06 8973 Jan 30 11:30	0°¥ 23°¥49'04 0° Υ	46°24'54	morning set asc. node	8975 Jul 24 18:44 8975 Jul 25 10:38 8975 Aug 16 05:08	29°\$10'36 0°Ω 27°Ω01'46	
asc. node greatest brilliancy retrograde	8973 Feb 28 11:17 8973 Mar 05 03:49 8973 Mar 14 24:00	21°Y52'50 23°Y51'57 25°Y41'38	-4.9m	superior conj	8975 Aug 18 14:39 8975 Sep 01 01:46	0° my 16° my 40'21	0°37'12
evening set inferior conj minimum elong	8973 Mar 31 03:59 8973 Apr 04 15:50 8973 Apr 04 05:29	20° Y 35'45 17° Y 54'04 18° Y 09'57	7°42'03 7°40'09	minimum elong max. Earth dist.	8975 Aug 31 18:10 8975 Sep 03 04:55 8975 Sep 11 20:21	16° സ 16'51 19° സ 18'37 0° <u>മ</u>	0°36'47 1.72845 AU
min. Earth dist. morning rise direct	8973 Apr 04 11:33 8973 Apr 08 06:57 8973 Apr 25 07:45	18° Y '00'38 15° Y '42'12 10° Y '04'24	0.27097 AU	evening rise	8975 Oct 06 03:47 8975 Oct 07 22:55 8975 Oct 30 13:33	0° ጤ 2° ጤ 12'51 0° ዶ	
greatest brilliancy morning max el	8973 May 05 01:53 8973 Jun 01 06:21 8973 Jun 14 19:17	11° Y 52'45 0° と 12° と 51'36		desc. node	8975 Nov 24 02:38 8975 Dec 05 23:06 8975 Dec 18 19:43	0°පි 14°පි25'00 0°≈	
desc. node	8973 Jun 20 06:47 8973 Jul 01 03:19 8973 Jul 27 19:07	18° ႘ 27'07 0°Ⅲ 0°ᢒ			8976 Jan 12 17:18 8976 Feb 06 21:14 8976 Mar 03 14:21	0° ႘ 0° Ƴ	
asc. node	8973 Aug 22 10:11 8973 Sep 16 14:20 8973 Oct 11 04:07	0° Ω 0° m 29° m 36'47		asc. node evening max el	8976 Mar 27 22:21 8976 Mar 30 17:39 8976 Apr 07 03:16	27° 8 01'49 0°П 7°П37'49	46°57'38
	8973 Oct 11 11:48 8973 Nov 05 03:44 8973 Nov 29 15:02	০°শ ০°শ ০°ত		greatest brilliancy retrograde	8976 May 02 07:30 8976 May 17 14:17 8976 May 27 14:28	0°5 8°534'46 10°527'39	-4.9m
morning set max. Earth dist.	8973 Dec 12 17:51 8973 Dec 23 22:55 8974 Jan 16 19:15		1.72567 AU	evening set inferior conj minimum elong	8976 Jun 13 05:17 8976 Jun 17 08:20 8976 Jun 17 19:21	5°505'31 2°535'27 2°518'28	6°54'41 6°52'05
superior conj	8974 Jan 17 04:26 8974 Jan 19 03:50	0°≈ 2°≈27'01		min. Earth dist.	8976 Jun 17 10:20 8976 Jun 21 15:32 8976 Jun 22 09:39	2°©32'21 30°RП 29°П34'15	0.27226 AU
minimum elong desc. node	8974 Jan 19 10:05 8974 Jan 30 21:07 8974 Feb 10 07:58	2°≈46′22 17°≈00′13 0° X	0°27'50	direct desc. node greatest brilliancy	8976 Jul 08 02:38 8976 Jul 17 18:20 8976 Jul 17 21:04	24°П47'30 26°П32'00 26°П34'24	-4.8m
evening rise	8974 Feb 27 03:44 8974 Mar 06 09:36 8974 Mar 30 09:53 8974 Apr 23 10:37 8974 May 17 14:40	20°¥57'38 0°Y 0°8 0°I 0°©		morning max el	8976 Jul 25 09:19 8976 Aug 26 17:29 8976 Aug 30 16:28 8976 Sep 27 23:24 8976 Oct 24 10:05	0°\$ 26°\$05'34 0°\$ 0°\$ 0°\$	46°12'17
asc. node	8974 May 23 19:07 8974 Jun 11 01:54 8974 Jul 06 01:48 8974 Aug 01 01:04	7°©37'44 0°Ω 0°™ 0°•		asc. node	8976 Nov 07 16:40 8976 Nov 18 23:08 8976 Dec 13 22:25 8977 Jan 07 12:24	16° 亞 39'48 0°肌 0°メ [†] 0°る	
evening max el desc. node	8974 Aug 29 05:20 8974 Aug 31 10:18 8974 Sep 12 14:54	0°M 2°M10'01 13°M24'08 0°⊀	45°53'27	morning set	8977 Jan 31 20:12 8977 Feb 21 11:56 8977 Feb 24 23:41	0°≈ 25°≈39'07 0°¥ 2°¥59'52	
greatest brilliancy retrograde	8974 Oct 07 08:48 8974 Oct 09 04:31 8974 Oct 19 13:20	0° х 41′57 2° х 38′22	-4.7m	desc. node max. Earth dist.	8977 Feb 27 09:24 8977 Mar 20 23:50 8977 Mar 31 09:27	2° π 59′52 0° Υ 13° Υ 02′29	1.71403 AU
evening set	8974 Oct 31 02:07 8974 Nov 06 19:29	30°RM 26°M22'17		superior conj	8977 Apr 02 18:38	16° Ƴ 01'51	-1°11'41

minimum elong	8977 Apr 02 07:25	15° Y 26'40	1°11'24	greatest brilliancy	8979 Sep 29 12:32	8° m 01'42	-4.7m
	8977 Apr 13 21:34	0°8		,	8979 Nov 01 00:06	0∘ ⊽	
	8977 May 07 18:25	$\Pi^{\circ}0$		morning max el	8979 Nov 07 11:46	6° ჲ 01'53	45°41'59
evening rise	8977 May 13 04:40	6° Ⅱ 48'58			8979 Nov 30 21:28	0°M	
	8977 May 31 16:30	0°€		asc. node	8979 Dec 06 04:45	5°M46'17	
asc. node	8977 Jun 20 06:53	24° © 27'07			8979 Dec 27 16:03	0° ∡ ″	
	8977 Jun 24 18:02	$0^{\circ}\Omega$			8980 Jan 22 03:42	8°0	
	8977 Jul 19 01:05	O° Mp			8980 Feb 15 22:56	0° ≈	
	8977 Aug 12 16:08	0∘ ত			8980 Mar 11 08:29	0° ∀	
	8977 Sep 06 19:37	0° M		desc. node	8980 Mar 26 21:58	19° ∺ 18'46	
	8977 Oct 02 20:26	0° ∡ ¹			8980 Apr 04 11:48	$0^{\circ}\Upsilon$	
desc. node	8977 Oct 10 02:04	8° ₮ 03'28			8980 Apr 28 11:06	9° 8	
	8977 Oct 30 15:49	0°₹		morning set	8980 May 08 04:44	12° 8 13'00	
evening max el	8977 Nov 10 14:06	10° る 49'39	45°46'20		8980 May 22 08:29	Π $^{\circ}0$	
	8977 Dec 03 03:26	0° ≈			8980 Jun 15 06:09	0 \circ \odot	
greatest brilliancy	8977 Dec 19 21:13	9° ≈ 04'29	-4.8m				
retrograde	8977 Dec 29 08:37	10° ≈ 42'58		superior conj	8980 Jun 17 08:31	2° © 37'50	
evening set	8978 Jan 13 15:43	6°≈13'22		minimum elong	8980 Jun 17 19:58	3° © 13'43	
inferior conj	8978 Jan 19 10:47	2°≈45'59		max. Earth dist.	8980 Jun 20 01:51		1.71598 AU
minimum elong	8978 Jan 19 16:59	2°≈36'21	2°49'44		8980 Jul 09 05:52	0°Ω	
min. Earth dist.	8978 Jan 20 04:18		0.27926 AU	asc. node	8980 Jul 17 18:49	10° Ω 38'40	
	8978 Jan 23 23:37	30°Rる		evening rise	8980 Jul 26 23:30	22° Ω 04'44	
morning rise	8978 Jan 25 17:26	29° る 00'45			8980 Aug 02 08:42	0° m 0° 0	
asc. node	8978 Jan 31 01:54	26° る 29'36 24° る 39'51			8980 Aug 26 15:22	0∘ m	
direct	8978 Feb 09 13:48	24° る 3931 26° る 54'56	-4.8m		8980 Sep 20 03:03	0° M 0° ∡	
greatest brilliancy	8978 Feb 20 14:36 8978 Feb 27 01:00	20 3 3430 0° ≈	-4.6111	desc. node	8980 Oct 14 21:57	0 x . 26° x 757'59	
morning max el	8978 Mar 31 20:46	0 ≈ 27°≈11'12	16016120	desc. node	8980 Nov 06 13:27 8980 Nov 09 03:14	20 x・3/39	
morning max er	8978 Apr 03 15:18	2/ ≈ 11 12 0° H	40 40 30		8980 Dec 04 23:37	0°≈	
	8978 May 01 03:58	0° Υ			8980 Dec 31 21:52	0 ∞ 0° ∀	
desc. node	8978 May 22 20:54	25° Υ 17'12		evening max el	8981 Jan 21 15:58	21°) 30'47	46°23'27
dese. Hode	8978 May 26 20:06	0°8		evening max er	8981 Jan 30 14:32	21 γ (30 γ /	40 23 27
	8978 Jun 20 17:52	0°II		asc. node	8981 Feb 27 13:15	20° Υ 11'19	
	8978 Jul 15 07:43	0°9		greatest brilliancy	8981 Mar 02 15:55	21° Y 26'13	-4.9m
	8978 Aug 08 18:47	$0^{\circ}\Omega$		retrograde	8981 Mar 12 13:35	23° Y 16'38	,
	8978 Sep 02 05:03	0° m/y		evening set	8981 Mar 28 12:48	18° Υ 16'48	
asc. node	8978 Sep 12 17:35	12° m 55'56		inferior conj	8981 Apr 02 04:51	15° Y ′28'54	7°28'20
	8978 Sep 26 14:41	0∘ ⊽		minimum elong	8981 Apr 01 18:12	15° Ƴ 45'14	7°26'16
morning set	8978 Oct 02 22:13	7° ≏ 46'20		min. Earth dist.	8981 Apr 02 00:12	15° Y '36'02	0.27099 AU
	8978 Oct 20 23:20	0°M		morning rise	8981 Apr 05 23:36	13° Y 11'46	
				direct	8981 Apr 22 21:34	7° Y 39'13	
superior conj	8978 Nov 08 15:15	23°M00'45	1°26'00	greatest brilliancy	8981 May 02 14:52	9° Y 27'09	-4.9m
minimum elong	8978 Nov 08 15:47	23°M02'22	1°26'12		8981 Jun 01 11:59	9° 8	
max. Earth dist.	8978 Nov 08 06:07	22°M32'36	1.73277 AU	morning max el	8981 Jun 12 09:42	10° 8 29'52	46°55'23
	8978 Nov 14 07:14	0° ∡ ¹		desc. node	8981 Jun 19 08:46	17° 8 38'06	
	8978 Dec 08 15:04	0°ප			8981 Jun 30 21:29	Π $^{\circ}0$	
evening rise	8978 Dec 15 13:13	8° る 31'59			8981 Jul 27 09:53	0 \circ	
	8979 Jan 01 23:18	0° ≈			8981 Aug 21 23:18	$0 {\circ} \Omega$	
desc. node	8979 Jan 02 10:55	0° ≈ 35'45			8981 Sep 16 02:28	0° m)	
	8979 Jan 26 07:47	0° ∀		asc. node	8981 Oct 10 06:13	29° m 08'15	
	8979 Feb 19 16:18	0° Υ			8981 Oct 10 23:18	0∘ ⊽	
	8979 Mar 16 02:00	0°8			8981 Nov 04 14:51	0°M	
	8979 Apr 09 16:32	0°II			8981 Nov 29 01:58	0° ∡ 7	
asc. node	8979 Apr 25 09:36	18° Ⅲ 52'10		morning set	8981 Dec 10 10:50	14° ₹ 00'15	
	8979 May 04 19:16	0° ©		E d E c	8981 Dec 23 09:48	0°る	1.72(02.41)
avanie 1	8979 May 31 01:15	0° Ω	1602(15)	max. Earth dist.	8982 Jan 14 11:24	27° る 19'03	1.72603 AU
evening max el	8979 Jun 19 04:20	20° Ω 12'33	46°36'56		0000 1 16 10 52	0011102	0021114
greatest brillians	8979 Jun 29 08:53 8979 Jul 28 07:05	0° Mp 20° Mp 13′47	1 8m	superior conj	8982 Jan 16 18:53 8982 Jan 17 01:44	0°≈11'03 0°≈32'15	0°31'14 0°31'08
greatest brilliancy retrograde	8979 Jul 28 07:05 8979 Aug 08 07:59	20° m/ 13'47 22° m/ 29'32	-4.0111	minimum elong	8982 Jan 17 01:44 8982 Jan 16 15:19	0°≈32′15 0°≈	0 31 08
desc. node	8979 Aug 08 07:39 8979 Aug 15 05:39	21° m/31'32		desc. node	8982 Jan 16 15:19 8982 Jan 29 23:00	0°≈ 16°≈32'08	
evening set	8979 Aug 13 03:39 8979 Aug 23 09:35	18° Mp 03'30		dese. Houe	8982 Feb 09 18:56	10 ≈32 08 0°)	
min. Earth dist.	8979 Aug 28 22:21	14° Mp 46'19	0.28208 AU	evening rise	8982 Feb 24 17:17	18°) 35'48	
inferior conj	8979 Aug 29 15:18	14° mp 19'59		0.0g 1.50	8982 Mar 05 20:40	0°Υ	
minimum elong	8979 Aug 29 07:59	14° mp 31'21			8982 Mar 29 21:08	%8 0°8	
morning rise	8979 Sep 04 06:56	10° m 56'43	2 = 2 10		8982 Apr 22 22:05	0°II	
direct	8979 Sep 19 18:51	6° Mp 19'03			8982 May 17 02:29	0.2e	
	rr 10.01				· · · · · · · · · · · · · · · · · · ·	- =	

1	0000 14 00 01 06	70607107		,	000431 06 10 24	1 60 0 00120	
asc. node	8982 May 22 21:06	7° © 07'07		asc. node	8984 Nov 06 18:34	16° ഫ 08'38	
	8982 Jun 10 14:16	0 $^{\circ}\Omega$			8984 Nov 18 11:12	0° M ₊	
	8982 Jul 05 15:12	0°Щ			8984 Dec 13 09:51	0° ∡ ″	
	8982 Jul 31 16:39	0∘ ত			8985 Jan 06 23:29	0°ಕ	
evening max el	8982 Aug 29 02:26	29° ≏ 58'33	45°54'29		8985 Jan 31 07:07	0° ≈	
	8982 Aug 29 03:02	0°M		morning set	8985 Feb 19 00:58	23° ≈ 16′26	
desc. node	8982 Sep 11 16:59	12°M25'52			8985 Feb 24 10:33	0° ∀	
greatest brilliancy	8982 Oct 06 19:52	28°M31'28	-4.7m	desc. node	8985 Feb 26 11:22	2°) 32′09	
	8982 Oct 12 05:08	0° ∡ ¹			8985 Mar 20 10:43	0 ° Υ	
retrograde	8982 Oct 17 05:20	0° ∡ ¹28'17		max. Earth dist.	8985 Mar 28 16:36	10° Y 20′12	1.71435 AU
	8982 Oct 22 02:26	30°RM₀					
evening set	8982 Nov 04 11:17	24°M13'05		superior conj	8985 Mar 31 06:03	13° Ƴ 32'56	-1°09'20
inferior conj	8982 Nov 07 17:42	22°M10'54	-8°38'41	minimum elong	8985 Mar 30 18:34	12° Ƴ 56'57	1°09'02
minimum elong	8982 Nov 07 18:00	22°M10'26			8985 Apr 13 08:29	0°8	
min. Earth dist.	8982 Nov 07 18:30	22°M09'39			8985 May 07 05:22	0°II	
morning rise	8982 Nov 11 00:45	20°M07'58	0.27131710	evening rise	8985 May 10 15:21	4° Ⅱ 17'24	
direct	8982 Nov 29 07:20	13°M53'23		evening rise	8985 May 31 03:31	0°9	
			4.7	aca mada	•	23° 9 58'19	
greatest brilliancy	8982 Dec 09 18:17	15°M53'11	-4.7m	asc. node	8985 Jun 19 08:45		
	8983 Jan 01 08:41	0° ₹			8985 Jun 24 05:11	$\Omega^{\circ}\Omega$	
asc. node	8983 Jan 02 16:25	1° ₹ 05'48			8985 Jul 18 12:28	0° m/	
morning max el	8983 Jan 17 15:32	14° ∡ °48′26	46°00'07		8985 Aug 12 03:58	0∘ ⊽	
	8983 Feb 01 10:10	0°ಕ			8985 Sep 06 08:19	0°M₊	
	8983 Feb 28 05:46	0° ≈			8985 Oct 02 11:00	0° ∡ ¹	
	8983 Mar 25 14:56	0° ∀		desc. node	8985 Oct 09 04:05	7° ∡ ¹26'41	
	8983 Apr 19 07:29	0 ° Υ			8985 Oct 30 11:05	0°ರ	
desc. node	8983 Apr 24 10:30	6° Ƴ 17'39		evening max el	8985 Nov 08 03:56	8° ප 33'57	45°45'45
	8983 May 13 14:58	$8^{\circ 0}$			8985 Dec 04 00:42	0° ≈	
	8983 Jun 06 17:51	$\Pi^{\circ}0$		greatest brilliancy	8985 Dec 17 11:41	6° ≈ 49'21	-4.8m
	8983 Jun 30 19:19	0ಂಣ		retrograde	8985 Dec 26 23:05	8° ≈ 28'01	
morning set	8983 Jul 22 09:26	26° © 53'06		evening set	8986 Jan 11 08:33	3° ≈ 54'33	
8	8983 Jul 24 21:33	$0^{\circ}\Omega$		inferior conj	8986 Jan 17 01:37	0° ≈ 30'09	-3°12'06
asc. node	8983 Aug 15 07:06	26° Ω 34'16		minimum elong	8986 Jan 17 08:27		3°09'53
use. Hour	8983 Aug 18 01:28	0° m)		mmmum vieng	8986 Jan 17 21:01	30°R₹	3 0, 03
	0,05 Hug 10 01.20	Ų ių⁄		min. Earth dist.	8986 Jan 17 19:48	• -	0.27982 AU
superior conj	8983 Aug 29 17:48	14° m 28'03	0°34'05	morning rise	8986 Jan 23 07:32	26°₹46'00	0.21762 AC
minimum elong	8983 Aug 29 10:43	14° My 06'06	0°33'40	asc. node	8986 Jan 30 03:54	20 34000 23° 3 42'13	
max. Earth dist.	•		1.72810 AU	direct	8986 Feb 07 04:45	23° 3 23'00	
max. Earm dist.	8983 Aug 31 23:39	17° Mp 14'41	1.72810 AU				4.0
	8983 Sep 11 07:08	0∘ 亚		greatest brilliancy	8986 Feb 18 07:04	24° る 39'35	-4.8m
evening rise	8983 Oct 05 16:15	0°M05'05			8986 Feb 28 10:47	0°≈	46045112
	8983 Oct 05 14:36	0° ™		morning max el	8986 Mar 29 11:52	24°≈53'12	46°45'13
	8983 Oct 30 00:29	0° ∡			8986 Apr 03 12:01	0° ∀	
	8983 Nov 23 13:50	0°る			8986 Apr 30 19:29	0° Υ	
desc. node	8983 Dec 05 00:58	13° る 56'01		desc. node	8986 May 21 22:46	24° Y 42′07	
	8983 Dec 18 07:23	0° ≈			8986 May 26 09:34	$0^{\circ}S$	
	8984 Jan 12 05:42	0°) €			8986 Jun 20 06:16	$\Pi^{\circ}0$	
	8984 Feb 06 10:48	$0^{\circ}\Upsilon$			8986 Jul 14 19:27	0 \circ \odot	
	8984 Mar 03 06:00	0°B			8986 Aug 08 06:03	0 $^{\circ}\Omega$	
asc. node	8984 Mar 27 00:27	26° 8 14'59			8986 Sep 01 15:58	O° m y	
	8984 Mar 30 14:17	Π $^{\circ}0$		asc. node	8986 Sep 11 19:38	12° m 29'06	
evening max el	8984 Apr 04 16:17	5° Ⅱ 12'21	46°57'16		8986 Sep 26 01:21	0∘ ত	
	8984 May 03 08:00	0°€		morning set	8986 Sep 30 15:11	5° £ 38'03	
greatest brilliancy	8984 May 15 05:27	6°€12'36	-4.9m	•	8986 Oct 20 09:52	0°M	
retrograde	8984 May 25 03:29	8°903'47					
evening set	8984 Jun 10 22:14	2° © 37'05		superior conj	8986 Nov 06 09:00	20°M55'02	1°26'02
inferior conj	8984 Jun 14 21:41	0°512'16	7°10'02	minimum elong	8986 Nov 06 08:49	20°M54'29	1°26'14
minimum elong	8984 Jun 15 08:34	29° I 55'28	7°07'35	max. Earth dist.	8986 Nov 06 02:30	20°M35'00	1.73285 AU
min. Earth dist.	8984 Jun 15 00:14		0.27211 AU	max. Lurur dist.	8986 Nov 13 17:46	20 11 c 33 00	1.,5205 AU
mm. Lattii Uist.	8984 Jun 15 05:38	0 €00 19 30°R∏	J.2/211 AU		8986 Dec 08 01:42	0° ਠ	
morning rig-	8984 Jun 19 19:02	30°KⅢ 27°Ⅲ16'19		ovonina rica	8986 Dec 08 01:42 8986 Dec 13 05:44	6° る 22'10	
morning rise				evening rise			
direct	8984 Jul 05 15:18	22° ∏ 24'27	4.0	J 1	8987 Jan 01 10:07	0°≈ 0°≈ •0°!10	
greatest brilliancy	8984 Jul 15 10:20	24° Ⅱ 11'29	-4.8m	desc. node	8987 Jan 01 12:49	0°≈08'18	
desc. node	8984 Jul 16 20:12	24° Ⅱ 42'56			8987 Jan 25 18:51	0° ∀	
	8984 Jul 26 22:14	0°©			8987 Feb 19 03:43	0° Υ	
morning max el		23° 5 43'37	46°13'53		8987 Mar 15 13:56	9° 8	
	8984 Aug 24 06:19		40 13 33				
	8984 Aug 30 13:36	$0^{\circ}\Omega$	40 13 33		8987 Apr 09 05:17	$\Pi^{\circ}0$	
	•	0° Ω 0° m	40 13 33	asc. node	8987 Apr 09 05:17 8987 Apr 24 11:33	0°Ⅱ 18°Ⅱ17'42	
	8984 Aug 30 13:36	$0^{\circ}\Omega$	10 13 33	asc. node	8987 Apr 09 05:17	$\Pi^{\circ}0$	

						_	
min. Earth dist.	8992 Jun 12 13:58	27° Ⅱ 43'59	0.27204 AU		8994 Dec 07 12:21	0°る	
morning rise	8992 Jun 17 04:04	24° Ⅱ 58'37		evening rise	8994 Dec 10 22:02	4° る 11'37	
direct	8992 Jul 03 03:32	20° Ⅱ 00'50		desc. node	8994 Dec 31 14:50	29° る 41'06	
greatest brilliancy	8992 Jul 12 23:45	21° ∏ 48′38	-4.8m		8994 Dec 31 20:59	0° ≈	
desc. node	8992 Jul 15 22:17	22° Ⅲ 58′10			8995 Jan 25 06:00	0° ∀	
	8992 Jul 28 00:16	0 \circ \mathfrak{S}			8995 Feb 18 15:14	0° Y	
morning max el	8992 Aug 21 19:38	21° 5 22'54	46°15'37		8995 Mar 15 01:58	0°8	
	8992 Aug 30 09:55	$0^{\circ}\Omega$			8995 Apr 08 18:08	$\Pi^{\circ}0$	
	8992 Sep 27 05:57	0° m)		asc. node	8995 Apr 23 13:30	17° Ⅱ 43'08	
	8992 Oct 23 12:14	0∘ ⊽			8995 May 03 23:47	0°ಅ	
asc. node	8992 Nov 05 20:28	15° ≏ 38'11			8995 May 30 12:06	$0^{\circ}\Omega$	
	8992 Nov 17 23:02	0°M		evening max el	8995 Jun 14 11:17	15° Ω 40'21	46°39'54
	8992 Dec 12 21:04	0° ⊼ 7		overmig man er	8995 Jun 29 18:16	0° m)	.0 27 0 .
	8993 Jan 06 10:22	0°ਰ		greatest brilliancy	8995 Jul 23 13:42	15° m) 42'48	-4.8m
	8993 Jan 30 17:51	0° ≈		retrograde	8995 Aug 03 16:09	17° Mp 59'31	4.0111
morning set	8993 Feb 16 14:25	20°≈55'38		desc. node	8995 Aug 13 09:42	16° mp 03'53	
morning set	8993 Feb 23 21:14	20 ≈ 33 38		evening set	•		
4 4-				Č	8995 Aug 18 13:56	13° M) 36'35	0.2010/. ATT
desc. node	8993 Feb 25 13:22	2° ¥ 05'07 0° Ƴ		min. Earth dist.	8995 Aug 24 04:32	10° Mp 16'58	0.28106 AU
P 4 F 4	8993 Mar 19 21:23		1 71 466 4 11	inferior conj	8995 Aug 24 21:19	9° m 50'57	
max. Earth dist.	8993 Mar 26 03:28	7° Ƴ 50′21	1.71466 AU	minimum elong	8995 Aug 24 15:13	10° Mp 00'24	2°46'42
				morning rise	8995 Aug 30 17:14	6° TQ 22'40	
superior conj	8993 Mar 28 17:48	11° Υ 05'48		direct	8995 Sep 15 00:38	1° m 51'27	
minimum elong	8993 Mar 28 06:09	10° Y 29′18	1°06'32	greatest brilliancy	8995 Sep 24 16:52	3° Mg 33′47	-4.7m
	8993 Apr 12 19:10	0°8			8995 Nov 01 00:46	0∘ ⊽	
	8993 May 06 16:06	Π $^{\circ}0$		morning max el	8995 Nov 02 19:22	1° ≏ 41'02	45°42'35
evening rise	8993 May 08 02:22	1° Ⅱ 47'35			8995 Nov 30 05:25	0°M₊	
	8993 May 30 14:22	0 \circ ∞		asc. node	8995 Dec 04 08:43	4° M 32'49	
asc. node	8993 Jun 18 10:46	23° 5 30'26			8995 Dec 26 18:41	0° ∡ 7	
	8993 Jun 23 16:13	$0^{\circ}\Omega$			8996 Jan 21 03:59	8°0	
	8993 Jul 17 23:47	0° m p			8996 Feb 14 22:02	0° ≈	
	8993 Aug 11 15:45	0∘ 亚			8996 Mar 10 06:56	0°) €	
	8993 Sep 05 21:03	0° M		desc. node	8996 Mar 25 01:45	18°) €21'33	
	8993 Oct 02 01:41	0° ∡ ¹			8996 Apr 03 09:51	0° Y	
desc. node	8993 Oct 08 05:59	6° ∡ ¹49'28			8996 Apr 27 08:53	0°8	
	8993 Oct 30 06:54	გ∘ე		morning set	8996 May 03 02:15	7° 8 11'00	
evening max el	8993 Nov 05 18:29	6° ප් 20'12	45°45'18	Č	8996 May 21 06:07	0°II	
<i>y</i>	8993 Dec 05 06:04	0° ≈			,		
greatest brilliancy	8993 Dec. 15, 01:28	4°≈33'43	-4 8m	superior coni	8996 Jun 12 08:37	27°π45'03	-1°10'33
greatest brilliancy	8993 Dec 15 01:28	4°≈33'43 6°≈13'02	-4.8m	superior conj	8996 Jun 12 08:37	27°∏45'03 28°∏20'02	
retrograde	8993 Dec 24 13:47	6° ≈ 13'02	-4.8m	superior conj minimum elong	8996 Jun 12 19:47	28° Ⅱ 20′02	
	8993 Dec 24 13:47 8994 Jan 09 01:25	6°≈13'02 1°≈35'35	-4.8m	minimum elong	8996 Jun 12 19:47 8996 Jun 14 03:40	28°∏20'02 0°©	1°10′28
retrograde evening set	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20	6°≈13'02 1°≈35'35 30°Rීට්		1 3	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58	28°∏20'02 0°© 1°©09'51	
retrograde evening set inferior conj	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18	6°≈13'02 1°≈35'35 30°R ට 28°ට14'08	-3°32'08	minimum elong max. Earth dist.	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20	28°∏20'02 0°© 1°©09'51 0°Ω	1°10′28
retrograde evening set inferior conj minimum elong	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44	6°≈13'02 1°≈35'35 30°Rට 28°ට14'08 28°ට2'36	-3°32'08 3°29'47	minimum elong max. Earth dist. asc. node	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48	28°∏20'02 0°© 1°©09'51 0°Ω 9°Ω44'13	1°10′28
retrograde evening set inferior conj minimum elong min. Earth dist.	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44 8994 Jan 15 10:49	6°≈13'02 1°≈35'35 30°₹♂ 28°♂14'08 28°♂02'36 27°♂45'25	-3°32'08	minimum elong max. Earth dist.	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53	28° II 20'02 0° S 1° S 09'51 0° N 9° N 44'13 17° N 27'59	1°10′28
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44 8994 Jan 15 10:49 8994 Jan 20 21:19	6°≈13'02 1°≈35'35 30°R♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28	-3°32'08 3°29'47	minimum elong max. Earth dist. asc. node	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12	28° H 20'02 0° S 1° S 09'51 0° N 9° N 44'13 17° N 27'59 0° M	1°10′28
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 29 05:59	6°≈13'02 1°≈35'35 30°₹♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28 20°♂59'36	-3°32'08 3°29'47	minimum elong max. Earth dist. asc. node	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05	28° H20'02 0° S 1° S09'51 0° N 9° N44'13 17° N27'59 0° M 0° A	1°10′28
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 29 05:59 8994 Feb 04 20:09	6°≈13'02 1°≈35'35 30°₹♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28 20°♂59'36 20°♂06'06	-3°32'08 3°29'47 0.28038 AU	minimum elong max. Earth dist. asc. node	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19	28° II 20'02 0° S 1° S 09'51 0° A 9° A 44'13 17° A 27'59 0° M 0° L 0° M	1°10′28
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 29 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53	6°≈13'02 1°≈35'35 30°₹♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28 20°♂59'36 20°♂06'06 22°♂23'32	-3°32'08 3°29'47 0.28038 AU	minimum elong max. Earth dist. asc. node evening rise	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12	28° II 20'02 0° S 1° S 09'51 0° A 9° A 44'13 17° A 27'59 0° M 0° L 0° M	1°10′28
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 29 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53 8994 Mar 01 10:46	6°≈13'02 1°≈35'35 30°R♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28 20°♂59'36 20°♂06'06 22°♂23'32 0°≈	-3°32'08 3°29'47 0.28038 AU -4.8m	minimum elong max. Earth dist. asc. node	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12 8996 Nov 04 17:18	28° \$\Pi\20'02\\ 0° \$\mathref{G}\\ 1° \$\mathref{G}\)09'51\\ 0° \$\mathref{A}\\ 9° \$\mathref{A}\)44'13\\ 17° \$\mathref{A}\)27'59\\ 0° \$\mathref{m}\\ 0° \$\mathref{A}\\ 0° \$\mathref{A}\\ 25° \$\mathref{S}\)'56'31	1°10′28
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 20 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53 8994 Mar 01 10:46 8994 Mar 27 03:48	6°≈13'02 1°≈35'35 30°R♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28 20°♂59'36 20°♂06'06 22°♂23'32 0°≈ 22°≈37'42	-3°32'08 3°29'47 0.28038 AU -4.8m	minimum elong max. Earth dist. asc. node evening rise	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12 8996 Nov 04 17:18	28° II 20'02 0° ഇ 1° ഇ09'51 0° N 9° A44'13 17° N27'59 0° M 0° ച 0° M 25° \$756'31	1°10′28
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 29 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53 8994 Mar 01 10:46 8994 Mar 27 03:48 8994 Apr 03 07:58	6°≈13'02 1°≈35'35 30°R♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28 20°♂59'36 20°♂06'06 22°♂23'32 0°≈ 22°≈37'42 0°米	-3°32'08 3°29'47 0.28038 AU -4.8m	minimum elong max. Earth dist. asc. node evening rise	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12 8996 Nov 04 17:18 8996 Nov 08 04:14 8996 Dec 04 03:54	28° II 20'02 0° II° II° II° II° II° II° II° II° II° I	1°10′28
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy morning max el	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 29 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53 8994 Mar 01 10:46 8994 Mar 27 03:48 8994 Apr 03 07:58 8994 Apr 30 10:37	6°≈13'02 1°≈35'35 30°R♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28 20°♂59'36 20°♂06'06 22°♂23'32 0°≈ 22°≈37'42 0°升	-3°32'08 3°29'47 0.28038 AU -4.8m	minimum elong max. Earth dist. asc. node evening rise desc. node	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12 8996 Nov 04 17:18 8996 Nov 08 04:14 8996 Dec 04 03:54 8996 Dec 31 09:12	28° II 20'02 0° II° II° 209'51 0° II 9° II 44'13 17° II 27'59 0° III 0° II 0° II	1°10'28 1.71527 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 29 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53 8994 Mar 01 10:46 8994 Mar 27 03:48 8994 Apr 03 07:58	6°≈13'02 1°≈35'35 30°R♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28 20°♂59'36 20°♂06'06 22°♂3'32 0°≈ 22°≈37'42 0°升 0°Y 24°Ŷ08'03	-3°32'08 3°29'47 0.28038 AU -4.8m	minimum elong max. Earth dist. asc. node evening rise	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12 8996 Nov 04 17:18 8996 Nov 08 04:14 8996 Dec 04 03:54	28° II 20'02 0° II° II° 10° II 0° II° 13° II° 13° II° 13° II° II° 13° II° 13° 13° 13° 13° 13° 13° 13° 13° 13° 13	1°10′28
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy morning max el	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 29 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53 8994 Mar 01 10:46 8994 Mar 27 03:48 8994 Apr 03 07:58 8994 Apr 30 10:37	6°≈13'02 1°≈35'35 30°R♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28 20°♂59'36 20°♂06'06 22°♂32'32 0°≈ 22°≈37'42 0°升 0°Y 24°Y08'03 0°엉	-3°32'08 3°29'47 0.28038 AU -4.8m	minimum elong max. Earth dist. asc. node evening rise desc. node	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12 8996 Nov 04 17:18 8996 Nov 08 04:14 8996 Dec 04 03:54 8996 Dec 31 09:12	28° H 20'02 0° S 1° S 09'51 0° A 9° A 44'13 17° A 27'59 0° M 0° A 0° A 25° A '56'31 0° B 0° B	1°10'28 1.71527 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy morning max el	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 29 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53 8994 Mar 01 10:46 8994 Mar 27 03:48 8994 Apr 03 07:58 8994 Apr 30 10:37 8994 May 21 00:45	6°≈13'02 1°≈35'35 30°R♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28 20°♂59'36 20°♂06'06 22°♂3'32 0°≈ 22°≈37'42 0°升 0°Y 24°Ŷ08'03	-3°32'08 3°29'47 0.28038 AU -4.8m	minimum elong max. Earth dist. asc. node evening rise desc. node	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12 8996 Nov 04 17:18 8996 Nov 08 04:14 8996 Dec 04 03:54 8996 Dec 31 09:12 8997 Jan 16 21:17	28° II 20'02 0° II° II° 10° II 0° II° 13° II° 13° II° 13° II° II° 13° II° 13° 13° 13° 13° 13° 13° 13° 13° 13° 13	1°10'28 1.71527 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy morning max el	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 29 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53 8994 Mar 01 10:46 8994 Mar 27 03:48 8994 Apr 03 07:58 8994 Apr 30 10:37 8994 May 21 00:45 8994 May 25 22:46	6°≈13'02 1°≈35'35 30°Rउ 28°उ14'08 28°उ02'36 27°उ45'25 24°उ31'28 20°उ59'36 20°उ06'06 22°उ23'32 0°≈ 22°≈37'42 0°¥ 0°Y 24°Y08'03 0°B 0°II 0°©	-3°32'08 3°29'47 0.28038 AU -4.8m	minimum elong max. Earth dist. asc. node evening rise desc. node	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12 8996 Nov 04 17:18 8996 Nov 08 04:14 8996 Dec 04 03:54 8996 Dec 31 09:12 8997 Jan 16 21:17 8997 Jan 31 01:39	28° II 20'02 0° II ° II 20'51 0° II 9° II 44'13 17° II 27'59 0° II 0° II 0° II 25° II 56'31 0° II 0° II 56' II 6° II 6	1°10′28 1.71527 AU 46°20′01
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy morning max el	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 29 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53 8994 Mar 01 10:46 8994 Mar 27 03:48 8994 Apr 03 07:58 8994 Apr 30 10:37 8994 May 21 00:45 8994 May 25 22:46 8994 Jun 19 18:27	6°≈13'02 1°≈35'35 30°R♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28 20°♂59'36 20°♂06'06 22°♂32'32 0°≈ 22°≈37'42 0°¥ 0°Y 24°Y08'03 0°Ы 0°Ы	-3°32'08 3°29'47 0.28038 AU -4.8m	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el greatest brilliancy	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12 8996 Nov 04 17:18 8996 Nov 08 04:14 8996 Dec 04 03:54 8996 Dec 31 09:12 8997 Jan 16 21:17 8997 Jan 31 01:39 8997 Feb 25 17:33	28° \(\Pi \) 20'02 0° \(\Pi \) 0° \(\Omega \) 9° \(\Omega \) 44'13 17° \(\Omega \) 27'59 0° \(\Pi \) 0° \(\Pi \) 0° \(\Pi \) 16° \(\Y \) 37'00 16° \(\Y \) 36'42 18° \(\Y \) 26'24	1°10′28 1.71527 AU 46°20′01
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy morning max el	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 29 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53 8994 Mar 01 10:46 8994 Mar 27 03:48 8994 Apr 03 07:58 8994 Apr 30 10:37 8994 May 21 00:45 8994 May 25 22:46 8994 Jun 19 18:27 8994 Jul 14 07:02	6°≈13'02 1°≈35'35 30°Rउ 28°उ14'08 28°उ02'36 27°उ45'25 24°उ31'28 20°उ59'36 20°उ06'06 22°उ23'32 0°≈ 22°≈37'42 0°¥ 0°Y 24°Y08'03 0°B 0°II 0°©	-3°32'08 3°29'47 0.28038 AU -4.8m	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el greatest brilliancy asc. node	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12 8996 Nov 04 17:18 8996 Nov 08 04:14 8996 Dec 04 03:54 8996 Dec 31 09:12 8997 Jan 16 21:17 8997 Feb 25 17:33 8997 Feb 25 17:13	28° II 20'02 0° II ° II 20'51 0° II 9° II 44'13 17° II 27'59 0° II 0° II 0° II 25° II 56'31 0° II 0° II 56' II 6° II 6	1°10′28 1.71527 AU 46°20′01
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy morning max el	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 29 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53 8994 Mar 01 10:46 8994 Mar 27 03:48 8994 Apr 03 07:58 8994 Apr 30 10:37 8994 May 21 00:45 8994 May 25 22:46 8994 Jun 19 18:27 8994 Jul 14 07:02 8994 Aug 07 17:13	6°≈13'02 1°≈35'35 30°₹♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28 20°♂559'36 20°♂06'06 22°♂23'32 0°≈ 22°≈37'42 0°∀ 0°∀ 24°∀08'03 0°Ы 0°Ы 0°Ы 0°Ы 0°Ы	-3°32'08 3°29'47 0.28038 AU -4.8m	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el greatest brilliancy asc. node retrograde	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12 8996 Nov 04 17:18 8996 Nov 08 04:14 8996 Dec 04 03:54 8996 Dec 31 09:12 8997 Jan 16 21:17 8997 Jan 31 01:39 8997 Feb 25 17:33 8997 Feb 25 17:13	28° \(\Pi \) 20'02 0° \(\Pi \) 0° \(\Omega \) 9° \(\Omega \) 44'13 17° \(\Omega \) 27'59 0° \(\Pi \) 0° \(\Pi \) 0° \(\Pi \) 16° \(\Y \) 37'00 16° \(\Y \) 36'42 18° \(\Y \) 26'24	1°10′28 1.71527 AU 46°20′01
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy morning max el desc. node	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 29 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53 8994 Mar 01 10:46 8994 Mar 27 03:48 8994 Apr 03 07:58 8994 Apr 30 10:37 8994 May 21 00:45 8994 May 25 22:46 8994 Jun 19 18:27 8994 Jul 14 07:02 8994 Aug 07 17:13 8994 Sep 01 02:51	6°≈13'02 1°≈35'35 30°R♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28 20°♂559'36 20°♂06'06 22°♂23'32 0°≈ 22°≈37'42 0°Y 24°Y08'03 0°Ы 0°П 0°П 0°П	-3°32'08 3°29'47 0.28038 AU -4.8m	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el greatest brilliancy asc. node retrograde evening set	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12 8996 Nov 04 17:18 8996 Nov 04 17:18 8996 Dec 04 03:54 8996 Dec 04 03:54 8996 Dec 31 09:12 8997 Jan 16 21:17 8997 Jan 31 01:39 8997 Feb 25 17:33 8997 Feb 25 17:13 8997 Mar 07 15:09 8997 Mar 23 06:40	28° II 20'02 0° © 1° © 09'51 0° A 9° A 44'13 17° A 27'59 0° ID 0° A 25° A 56'31 0° A 0° Y 16° Y 54'30 0° Y 16° Y 37'00 16° Y 36'42 18° Y 26'24 13° Y 38'49	1°10'28 1.71527 AU 46°20'01 -4.8m
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retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy morning max el desc. node	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 29 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53 8994 Mar 01 10:46 8994 Mar 27 03:48 8994 Apr 03 07:58 8994 Apr 30 10:37 8994 May 21 00:45 8994 May 25 22:46 8994 Jun 19 18:27 8994 Jul 14 07:02 8994 Aug 07 17:13 8994 Sep 01 02:51 8994 Sep 10 21:30 8994 Sep 25 12:01	6°≈13'02 1°≈35'35 30°R♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28 20°♂59'36 20°♂06'06 22°♂3'32 0°≈ 22°≈37'42 0°升 0°Y 24°Y08'03 0°B 0°B 0°B 12°M01'41 0°Ω	-3°32'08 3°29'47 0.28038 AU -4.8m	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el greatest brilliancy asc. node retrograde evening set inferior conj minimum elong	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12 8996 Nov 04 17:18 8996 Nov 08 04:14 8996 Dec 04 03:54 8996 Dec 31 09:12 8997 Jan 16 21:17 8997 Jan 31 01:39 8997 Feb 25 17:33 8997 Feb 25 17:33 8997 Feb 25 17:13 8997 Mar 07 15:09 8997 Mar 23 06:40 8997 Mar 28 06:41 8997 Mar 27 19:40	28° II 20'02 0° II 0° II 0° II 0° II 1° II 17° II 27'59 0° III 0° II 10° II 1	1°10'28 1.71527 AU 46°20'01 -4.8m 6°58'23 6°56'01
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy morning max el desc. node	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 20 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53 8994 Mar 01 10:46 8994 Mar 27 03:48 8994 Apr 03 07:58 8994 Apr 30 10:37 8994 Apr 30 10:37 8994 May 21 00:45 8994 May 25 22:46 8994 Jun 19 18:27 8994 Jun 19 18:27 8994 Jul 14 07:02 8994 Aug 07 17:13 8994 Sep 01 02:51 8994 Sep 10 21:30 8994 Sep 25 12:01 8994 Sep 28 07:49	6°≈13'02 1°≈35'35 30°R♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28 20°♂59'36 20°♂06'06 22°♂3'32 0°≈ 22°≈37'42 0°升 0°Y 24°Y08'03 0°Ы 0°Ы 12°№01'41 0°Ф 3°Ф28'43	-3°32'08 3°29'47 0.28038 AU -4.8m	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el greatest brilliancy asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12 8996 Nov 04 17:18 8996 Nov 08 04:14 8996 Dec 04 03:54 8996 Dec 31 09:12 8997 Jan 16 21:17 8997 Jan 31 01:39 8997 Feb 25 17:33 8997 Feb 25 17:13 8997 Mar 07 15:09 8997 Mar 23 06:40 8997 Mar 24 06:41 8997 Mar 27 19:40 8997 Mar 28 02:28	28° I 20'02 0° S 1° S 09'51 0° N 9° N 44'13 17° N 27'59 0° M 0° S 0° S 0° S 0° S 0° S 0° S 16° Y 35'00 16° Y 35'42 18° Y 26'24 13° Y 38'49 10° Y 39'03 10° Y 56'01 10° Y 45'33	1°10'28 1.71527 AU 46°20'01 -4.8m 6°58'23 6°56'01
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy morning max el desc. node	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 20 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53 8994 Mar 01 10:46 8994 Mar 27 03:48 8994 Apr 03 07:58 8994 Apr 30 10:37 8994 Apr 30 10:37 8994 May 21 00:45 8994 May 25 22:46 8994 Jun 19 18:27 8994 Jun 19 18:27 8994 Jul 14 07:02 8994 Aug 07 17:13 8994 Sep 01 02:51 8994 Sep 10 21:30 8994 Sep 25 12:01 8994 Sep 28 07:49	6°≈13'02 1°≈35'35 30°R♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28 20°♂59'36 20°♂06'06 22°♂33'32 0°≈ 22°≈37'42 0°升 0°升 0°円 0°円 0°の 0°の 0°の 0°の 12°™01'41 0°으 3°으28'43 0°™	-3°32'08 3°29'47 0.28038 AU -4.8m	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el greatest brilliancy asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12 8996 Nov 04 17:18 8996 Nov 08 04:14 8996 Dec 04 03:54 8996 Dec 31 09:12 8997 Jan 16 21:17 8997 Jan 31 01:39 8997 Feb 25 17:33 8997 Feb 25 17:13 8997 Mar 07 15:09 8997 Mar 23 06:40 8997 Mar 24 06:41 8997 Mar 27 19:40 8997 Mar 28 02:28 8997 Apr 01 08:40	28° I 20'02 0° S 1° S 09'51 0° N 9° N 44'13 17° N 27'59 0° M 0° S 0° S 0° S 0° S 0° S 0° S 0° Y 16° Y 37'00 16° Y 37'00 16° Y 38'49 10° Y 39'03 10° Y 56'01 10° Y 45'33 8° Y 10'54	1°10'28 1.71527 AU 46°20'01 -4.8m 6°58'23 6°56'01 0.27104 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy morning max el desc. node asc. node morning set	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 20 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53 8994 Mar 01 10:46 8994 Mar 27 03:48 8994 Apr 03 07:58 8994 Apr 03 07:58 8994 Apr 30 10:37 8994 May 21 00:45 8994 May 25 22:46 8994 Jun 19 18:27 8994 Jun 19 18:27 8994 Jul 14 07:02 8994 Aug 07 17:13 8994 Sep 01 02:51 8994 Sep 10 21:30 8994 Sep 25 12:01 8994 Sep 28 07:49 8994 Oct 19 20:25	6°≈13'02 1°≈35'35 30°R♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28 20°♂59'36 20°♂06'06 22°♂33'32 0°≈ 22°≈37'42 0°升 0°升 0°円 0°円 0°の 0°の 0°の 0°の 12°™01'41 0°으 3°으28'43 0°™	-3°32'08 3°29'47 0.28038 AU -4.8m 46°44'05	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el greatest brilliancy asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12 8996 Nov 04 17:18 8996 Nov 08 04:14 8996 Dec 04 03:54 8996 Dec 04 03:54 8996 Dec 31 09:12 8997 Jan 16 21:17 8997 Jan 31 01:39 8997 Feb 25 17:33 8997 Feb 25 17:13 8997 Mar 07 15:09 8997 Mar 23 06:40 8997 Mar 28 06:41 8997 Mar 27 19:40 8997 Mar 28 02:28 8997 Apr 01 08:40 8997 Apr 18 00:16	28° I 20'02 0° S 1° S 09'51 0° N 9° N 44'13 17° N 27'59 0° M 0° S 0° M 0° X 25° X '56'31 0° S 0° X 16° Y 35'43 0° Y 16° Y 35'42 18° Y 26'24 13° Y 38'49 10° Y 39'03 10° Y 56'01 10° Y 45'33 8° Y 10'54 2° Y 49'18	1°10'28 1.71527 AU 46°20'01 -4.8m 6°58'23 6°56'01 0.27104 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy morning max el desc. node asc. node superior conj	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 20 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53 8994 Mar 01 10:46 8994 Mar 27 03:48 8994 Apr 03 07:58 8994 Apr 03 07:58 8994 Apr 30 10:37 8994 May 21 00:45 8994 May 25 22:46 8994 Jun 19 18:27 8994 Jul 14 07:02 8994 Aug 07 17:13 8994 Sep 01 02:51 8994 Sep 10 21:30 8994 Sep 25 12:01 8994 Sep 28 07:49 8994 Oct 19 20:25	6°≈13'02 1°≈35'35 30°R♂ 28°♂14'08 28°♂02'36 27°♂45'25 24°♂31'28 20°♂59'36 20°♂06'06 22°♂37'42 0°₩ 0°Ψ 24°Ψ08'03 0°₩ 12°™01'41 0°Ω 3°Ω28'43 0°™	-3°32'08 3°29'47 0.28038 AU -4.8m 46°44'05	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el greatest brilliancy asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12 8996 Nov 04 17:18 8996 Nov 08 04:14 8996 Dec 04 03:54 8996 Dec 31 09:12 8997 Jan 16 21:17 8997 Jan 16 21:17 8997 Jan 31 01:39 8997 Feb 25 17:33 8997 Feb 25 17:13 8997 Mar 07 15:09 8997 Mar 23 06:40 8997 Mar 28 06:41 8997 Mar 28 02:28 8997 Apr 01 08:40 8997 Apr 18 00:16 8997 Apr 27 18:04	28°	1°10'28 1.71527 AU 46°20'01 -4.8m 6°58'23 6°56'01 0.27104 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy morning max el desc. node asc. node superior conj minimum elong	8993 Dec 24 13:47 8994 Jan 09 01:25 8994 Jan 11 19:20 8994 Jan 14 16:18 8994 Jan 14 23:44 8994 Jan 15 10:49 8994 Jan 20 21:19 8994 Jan 20 05:59 8994 Feb 04 20:09 8994 Feb 15 22:53 8994 Mar 01 10:46 8994 Mar 27 03:48 8994 Apr 03 07:58 8994 Apr 30 10:37 8994 May 21 00:45 8994 May 25 22:46 8994 Jun 19 18:27 8994 Jul 14 07:02 8994 Aug 07 17:13 8994 Sep 01 02:51 8994 Sep 10 21:30 8994 Sep 25 12:01 8994 Sep 28 07:49 8994 Oct 19 20:25	6°≈13'02 1°≈35'35 30°R5 28°B14'08 28°B02'36 27°B45'25 24°B31'28 20°B59'36 20°B06'06 22°B23'32 0°≈ 22°≈37'42 0°H 0°P 24°Y08'03 0°B 0°M 12°M01'41 0°Ω 3°Ω28'43 0°M 18°M48'08 18°M45'21	-3°32'08 3°29'47 0.28038 AU -4.8m 46°44'05	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el greatest brilliancy asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8996 Jun 12 19:47 8996 Jun 14 03:40 8996 Jun 15 01:58 8996 Jul 08 03:20 8996 Jul 15 22:48 8996 Jul 22 03:53 8996 Aug 01 06:12 8996 Aug 25 13:05 8996 Sep 19 01:19 8996 Oct 13 21:12 8996 Nov 04 17:18 8996 Nov 04 17:18 8996 Dec 04 03:54 8996 Dec 31 09:12 8997 Jan 16 21:17 8997 Jan 16 21:17 8997 Jan 31 01:39 8997 Feb 25 17:33 8997 Feb 25 17:13 8997 Mar 07 15:09 8997 Mar 23 06:40 8997 Mar 28 06:41 8997 Mar 28 06:41 8997 Mar 28 02:28 8997 Apr 01 08:40 8997 Apr 18 00:16 8997 Apr 27 18:04 8997 Jun 01 17:37	28° \$\Pi\20'02\\ 0° \$\Pi\\ 0° \$\Omega\\ 9° \$\Omega\\\ 44' 13\\ 17° \$\Omega\\\ 27' 59\\ 0° \$\Pi\\\ 0° \$\Pi\\\ 0° \$\Pi\\\ 0° \$\Pi\\\ 16° \$\Pi\\\\ 16° \$\Pi\\\\ 16° \$\Pi\\\\ 16° \$\Pi\\\\ 16° \$\Pi\\\\ 16° \$\Pi\\\\ 16° \$\Pi\\\\\ 16° \$\Pi\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1°10'28 1.71527 AU 46°20'01 -4.8m 6°58'23 6°56'01 0.27104 AU -4.9m

	8997 Jun 30 08:09	0°Щ		aca mada	9000 Mar 26 04:19	24° 8 38'49	
				asc. node			
	8997 Jul 26 14:20	0° ©			9000 Mar 31 09:36	0°II	46056110
	8997 Aug 21 00:40	$\Omega^{\circ}\Omega$		evening max el	9000 Mar 31 17:00	0° Ⅱ 18'39	46°56'18
_	8997 Sep 15 02:02	0° m/y			9000 May 07 22:59	0°©	
asc. node	8997 Oct 08 09:58	28° m 11'32		greatest brilliancy	9000 May 11 10:17	1° © 25'26	-4.9m
	8997 Oct 09 21:44	0∘ ⊽		retrograde	9000 May 21 05:31	3° © 15'00	
	8997 Nov 03 12:37	0° M			9000 Jun 02 22:53	30°RⅡ	
	8997 Nov 27 23:22	0°⊀		evening set	9000 Jun 07 07:37	27° Ⅱ 37'51	
morning set	8997 Dec 05 21:07	9° ∡ ⁴44'24		inferior conj	9000 Jun 10 23:54	25° Ⅱ 24'02	7°38'35
	8997 Dec 22 07:03	0° ප		minimum elong	9000 Jun 11 10:16	25° Ⅱ 08'04	7°36'28
max. Earth dist.	8998 Jan 09 17:18	22° る 48'22	1.72679 AU	min. Earth dist.	9000 Jun 11 03:23	25° Ⅱ 18'40	0.27197 AU
				morning rise	9000 Jun 15 12:57	22° Ⅱ 39'57	
superior conj	8998 Jan 12 01:32	25° る 42'34	0°37'37	direct	9000 Jul 01 15:58	17° Ⅱ 35'44	
minimum elong	8998 Jan 12 09:25	26° る 06'59	0°37'30	greatest brilliancy	9000 Jul 11 12:55	19° Ⅱ 24'19	-4.8m
	8998 Jan 15 12:38	0° ≈		desc. node	9000 Jul 16 00:16	21° Ⅱ 16′08	
desc. node	8998 Jan 28 02:57	15° ≈ 37'53			9000 Jul 29 19:57	0 ° \mathfrak{S}	
	8998 Feb 08 16:26	0° ∀		morning max el	9000 Aug 20 09:56	19° © 03'26	46°17'24
evening rise	8998 Feb 19 20:27	13° ¥ 53'48		-	9000 Aug 31 05:59	$0^{\circ}\Omega$	
Ü	8998 Mar 04 18:30	$0^{\circ}\Upsilon$			9000 Sep 27 21:10	0° m)	
	8998 Mar 28 19:23	0°8			9000 Oct 24 01:22	0° ⊽	
	8998 Apr 21 20:51	0°II		asc. node	9000 Nov 05 22:31	ა — 15° ჲ 07'25	
	8998 May 16 01:57	0. 0.		uso. Houe	9000 Nov 18 11:04	0°M	
asc. node	8998 May 21 01:01	6°906'16			9000 Nov 18 11:04 9000 Dec 13 08:30	0° ⊼ ¹	
asc. node	8998 Jun 09 14:55	0°Ω			9000 Dec 13 08:30 9001 Jan 06 21:30	0°る	
	8998 Jul 04 18:01	0° m y			9001 Jan 31 04:52	0° ≈	
	8998 Jul 31 00:08	0∘ ⊽	45056144	morning set	9001 Feb 15 04:03	18° ≈ 34'32	
evening max el	8998 Aug 24 08:17	25° Ω 30'42	45°56'44		9001 Feb 24 08:14	0° ∀	
	8998 Aug 29 00:34	0°M		desc. node	9001 Feb 25 15:14	1° ¥ 36'36	
desc. node	8998 Sep 09 20:52	10°M26'10			9001 Mar 20 08:25	0° Υ	
greatest brilliancy	8998 Oct 02 03:22	24°M12'34	-4.7m	max. Earth dist.	9001 Mar 24 14:40	5° Y 20′22	1.71500 AU
retrograde	8998 Oct 12 12:44	26° ™ 10′02					
evening set	8998 Oct 30 17:59	19° M 57'49		superior conj	9001 Mar 27 05:20	8° Ƴ 36'50	
inferior conj	8998 Nov 03 02:24	17°M52'31	-8°37'44	minimum elong	9001 Mar 26 17:37	8° Y 00'06	1°03'54
minimum elong	8998 Nov 03 01:07	17° M 54'33	8°37'32		9001 Apr 13 06:13	0° 8	
min. Earth dist.	8998 Nov 03 01:23	17° M 54'08	0.29152 AU	evening rise	9001 May 06 13:05	29° 8 15'40	
morning rise	8998 Nov 06 08:15	15°M51'05			9001 May 07 03:13	$\Pi^{\circ}0$	
direct	8998 Nov 24 15:11	9° ™ 35'27			9001 May 31 01:34	0 \circ \odot	
greatest brilliancy	8998 Dec 05 01:08	11°M33'07	-4.7m	asc. node	9001 Jun 18 12:45	23° © 01'21	
asc. node	8998 Dec 31 20:25	29°M09'32			9001 Jun 24 03:35	$0^{\circ}\Omega$	
	8999 Jan 01 19:31	0° ∡ 7			9001 Jul 18 11:27	0° m)	
morning max el	8999 Jan 12 20:19	10° √ 17'14	45°57'28		9001 Aug 12 03:56	0∘ <u>⊽</u>	
	8999 Jan 31 20:31	0°ප			9001 Sep 06 10:11	0° M ,	
	8999 Feb 27 09:46	0° ≈			9001 Oct 02 16:53	0° ∡ ¹	
	8999 Mar 24 16:12	0° ₩		desc. node	9001 Oct 02 10:33 9001 Oct 08 08:02	6° ₹ 11'33	
	8999 Apr 18 07:21	0°Υ		dese. Hode	9001 Oct 31 03:38	0°る	
desc. node	•	5° Υ 16'49		arranina marral	9001 Oct 31 03:38 9001 Nov 04 10:01	0 0 4° る 08'26	45°45'00
desc. node	8999 Apr 22 14:23			evening max el			43 43 00
	8999 May 12 14:01	0° Β			9001 Dec 08 00:57	0°≈ 2°≈ •18122	4.0
	8999 Jun 05 16:19	0° I I		greatest brilliancy	9001 Dec 13 15:14	2°≈18'23	-4.8m
	8999 Jun 29 17:20	0°©		retrograde	9001 Dec 23 04:50	3°≈58'24	
morning set	8999 Jul 17 13:45	22° © 14'54			9002 Jan 06 11:08	30°Rる	
	8999 Jul 23 19:14	0°N		evening set	9002 Jan 07 18:42	29°る17'09	
asc. node	8999 Aug 13 10:58	25° Ω 39'39		inferior conj	9002 Jan 13 07:17	25° る 58'34	
	8999 Aug 16 22:55	0°Щ		minimum elong	9002 Jan 13 15:15	25° る 46'12	
				min. Earth dist.	9002 Jan 14 01:45		0.28095 AU
superior conj	8999 Aug 25 01:18	10°Mp02'16	0°27'39	morning rise	9002 Jan 19 11:10	22° る 17'35	
minimum elong	8999 Aug 24 19:20	9° ™ 43'48	0°27'15	asc. node	9002 Jan 29 07:49	18° る 22'59	
max. Earth dist.	8999 Aug 27 08:13	12° m 52'18	1.72732 AU	direct	9002 Feb 03 12:15	17° る 49'56	
	8999 Sep 10 04:28	0∘ ত		greatest brilliancy	9002 Feb 14 14:20	20° ට 07'13	-4.8m
evening rise	8999 Oct 01 02:52	25° ≏ 50'13			9002 Mar 03 04:31	0° ≈	
	8999 Oct 04 11:59	0° M		morning max el	9002 Mar 25 19:54	20° ≈ 22'06	46°42'32
	8999 Oct 28 22:10	0°⊀		-	9002 Apr 04 03:34	0° ∀	
	8999 Nov 22 12:06	0°⋜			9002 May 01 01:53	0° Υ	
desc. node	8999 Dec 03 05:00	12° る 59'29		desc. node	9002 May 21 02:46	23° Y '33'12	
	8999 Dec 17 06:38	0°≈			9002 May 26 12:13	0°8	
	9000 Jan 11 06:29	0° ∀			9002 Jun 20 06:55	0°II	
	9000 Feb 05 14:02	0° Υ			9002 Jul 14 18:53	0ಂಣ ೧ म	
	9000 Peb 03 14:02 9000 Mar 03 13:48	0°8			9002 Jul 14 18:33 9002 Aug 08 04:39	0° U	
	7000 Mai 03 13.40	v O			7002 mug 00 04.39	· 01	

	9002 Sep 01 13:58	0° m		asc. node	9005 Feb 25 19:13	14° Y 43'44	
asc. node	9002 Sep 10 23:25	11°Mp33'40		retrograde	9005 Mar 06 03:34	16° Y ′02'35	
	9002 Sep 25 22:54	0∘ ⊽		evening set	9005 Mar 21 16:09	11° Ƴ 20'31	
morning set	9002 Sep 27 00:26	1° ≏ 18'35		inferior conj	9005 Mar 26 19:55	8° Ƴ 15'32	6°42'18
	9002 Oct 20 07:11	0°M		minimum elong	9005 Mar 26 08:50	8° Y 32'36	6°39'50
				min. Earth dist.	9005 Mar 26 16:22	8° Y 21'00	0.27108 AU
superior conj	9002 Nov 02 19:58	16°M41'08	1°25'44	morning rise	9005 Mar 31 01:26	5° Ƴ 41'59	
minimum elong	9002 Nov 02 18:20		1°25'54	direct	9005 Apr 16 13:11	0° Y ′25'31	
max. Earth dist.	9002 Nov 02 10:20 9002 Nov 02 21:13	16°M44'58	1.73286 AU	greatest brilliancy	9005 Apr 26 08:46	2°Υ14'35	-4.9m
max. Earth dist.			1.73280 AU	greatest offinality	•		-4.9111
	9002 Nov 13 15:03	0° ∡ 7			9005 Jun 02 18:09	0°8	46055110
	9002 Dec 07 23:10	0° ろ		morning max el	9005 Jun 06 00:06	3° 8 13'45	46°57'13
evening rise	9002 Dec 09 14:39	2° る 01'37		desc. node	9005 Jun 17 14:41	15° 8 17'40	
desc. node	9002 Dec 31 16:46	29° る 13'13			9005 Jul 01 00:53	Π $^{\circ}0$	
	9003 Jan 01 07:58	0° ≈			9005 Jul 27 04:20	0 \circ \odot	
	9003 Jan 25 17:15	0°) €			9005 Aug 21 13:16	$0^{\circ}\Omega$	
	9003 Feb 19 02:53	$0^{\circ}\mathbf{\Upsilon}$			9005 Sep 15 13:47	0° m)	
	9003 Mar 15 14:11	0°8		asc. node	9005 Oct 08 12:03	27° m 43'42	
	9003 Apr 09 07:16	0°П			9005 Oct 10 08:56	0∘ <u>⊽</u>	
asc. node	9003 Apr 23 15:32	17° Ⅱ 07'58			9005 Nov 03 23:29	o° m	
asc. node	•	0°95				0° ⊼ ¹	
	9003 May 04 14:31				9005 Nov 28 10:03		
	9003 May 31 06:26	$0^{\circ}\Omega$		morning set	9005 Dec 04 14:01	7° ⋌ ¹35'42	
evening max el	9003 Jun 13 03:21	13° Ω 24'46	46°41'15		9005 Dec 22 17:40	0°ಕ	
	9003 Jul 01 02:41	0° m p		max. Earth dist.	9006 Jan 08 09:05	20° る 35'39	1.72717 AU
greatest brilliancy	9003 Jul 22 05:28	13° Mp 26'42	-4.8m				
retrograde	9003 Aug 02 07:44	15° Mp 42'50		superior conj	9006 Jan 10 16:55	23° る 28'32	0°40'44
desc. node	9003 Aug 13 11:36	13° m 11'44		minimum elong	9006 Jan 11 01:15	23° る 54'21	0°40'36
evening set	9003 Aug 17 04:17	11° m) 21'34		Č	9006 Jan 15 23:16	0° ≈	
min. Earth dist.	9003 Aug 22 19:38	-	0.28053 AU	desc. node	9006 Jan 28 04:51	15° ≈ 10'32	
inferior conj	9003 Aug 23 12:08	7° mp 35'02		desc. node	9006 Feb 09 03:10	0° ∀	
•	•	7° Mp 43'26		ovenina riae		11° ¥ 33'50	
minimum elong	9003 Aug 23 06:43		2 20 13	evening rise	9006 Feb 18 10:16		
morning rise	9003 Aug 29 09:58	4° mp 04'16			9006 Mar 05 05:22	0° Υ	
	9003 Sep 09 05:01	30°RΩ			9006 Mar 29 06:25	0.8	
direct	9003 Sep 13 15:36	29° Ω 36'30			9006 Apr 22 08:06	Π °0	
	9003 Sep 18 04:30	0° m			9006 May 16 13:34	0° ©	
greatest brilliancy	9003 Sep 23 06:41	1° Mp 18'06	-4.8m	asc. node	9006 May 21 02:59	5° 93 6'20	
morning max el	9003 Nov 01 10:17	29° m 27'45	45°42'55		9006 Jun 10 03:11	$0^{\circ}\Omega$	
	9003 Nov 01 23:45	0∘ ⊽			9006 Jul 05 07:30	0° m/	
	9003 Nov 30 21:11	0°M			9006 Jul 31 16:13	0∘ <u>⊽</u>	
asc. node	9003 Dec 04 10:38	3°M55'51		evening max el	9006 Aug 22 22:37	o — 23° ≏ 15'14	45°57'52
asc. node	9003 Dec 27 07:59	0° ⊼ ¹		evening max ci		0°M₁	45 57 52
				1 1	9006 Aug 30 00:57		
	9004 Jan 21 16:09	% ප		desc. node	9006 Sep 09 22:58	9°M24'22	
	9004 Feb 15 09:36	0° ≈		greatest brilliancy	9006 Sep 30 18:25	22° M 01'57	-4.7m
	9004 Mar 10 18:09	0° ∀		retrograde	9006 Oct 11 04:36	24° M 00'47	
desc. node	9004 Mar 25 03:48	17° ¥ 53′22		evening set	9006 Oct 29 08:37	17° M 50'29	
	9004 Apr 03 20:54	0° Y		inferior conj	9006 Nov 01 18:37	15° M ₊43'02	-8°36'01
	9004 Apr 27 19:51	8°		minimum elong	9006 Nov 01 16:33	15° M 46'18	8°35'47
morning set	9004 May 01 13:05	4° 8 40'01		min. Earth dist.	9006 Nov 01 16:40	15° M ₊46'05	0.29151 AU
-	9004 May 21 17:02	$\Pi^{\circ}0$		morning rise	9006 Nov 05 00:27	13°M41'43	
	•			direct	9006 Nov 23 06:45	7° M 26'01	
superior conj	9004 Jun 10 20:28	25° Ⅱ 17'32	-1°12'48	greatest brilliancy	9006 Dec 03 17:00	9°M23'39	-4.7m
minimum elong	9004 Jun 11 07:19	25° I I51'32		asc. node	9006 Dec 31 22:20	28°M13'14	,
max. Earth dist.	9004 Jun 13 12:47		1.71495 AU	asc. nouc		0° %	
max. Earm dist.			1./1493 AU		9007 Jan 02 22:08		45056115
	9004 Jun 14 14:34	0°©		morning max el	9007 Jan 11 11:12	8° ₹ '03'08	45°56'15
	9004 Jul 08 14:12	0 $^{\circ}\Omega$			9007 Feb 01 13:05	0°ප	
asc. node	9004 Jul 16 00:39	9° Ω 16′05			9007 Feb 27 23:27	0° ≈	
evening rise	9004 Jul 20 17:27	15° Ω 07'05			9007 Mar 25 04:37	0° ∀	
	9004 Aug 01 17:05	0° m			9007 Apr 18 19:05	0° Y	
	9004 Aug 26 00:07	0∘ ⊽		desc. node	9007 Apr 22 16:20	4° Ƴ 47'02	
	9004 Sep 19 12:37	0°M			9007 May 13 01:18	0°B	
	9004 Oct 14 09:02	0° ∡ 7			9007 Jun 06 03:17	0°II	
desc. node	9004 Nov 04 19:23	25° ₹ '25'39			9007 Jun 30 04:05	0°©	
acse. Hode	9004 Nov 04 17:23 9004 Nov 08 17:00	23 ス 23 39		morning set	9007 Jul 16 04:01	19° 9 56'45	
				morning set			
	9004 Dec 04 18:24	0° ≈		•	9007 Jul 24 05:49	0°N	
	9005 Jan 01 03:35	0° ∀	4.001.01=0	asc. node	9007 Aug 13 12:55	25° Ω 13'06	
evening max el	9005 Jan 15 10:59	14°) €34'10	46°18'28		9007 Aug 17 09:25	0° m	
	9005 Feb 01 10:40	$0^{\circ}\Upsilon$					
greatest brilliancy	9005 Feb 24 07:12	14° Ƴ 14'07	-4.8m	superior conj	9007 Aug 23 17:02	7° m) 49'54	0°24'21

	0007 4 02 11 12	70 m 22122	0022150	,	0010 1 20 00 50	150751156	
minimum elong	9007 Aug 23 11:42	7° Mp 33'22		asc. node	9010 Jan 28 09:50	15° ろ 51'56	
max. Earth dist.	9007 Aug 25 23:39		1.72701 AU	direct	9010 Feb 01 04:16	15°₹34'36	4.0
	9007 Sep 10 14:57	0∘ ⊽		greatest brilliancy	9010 Feb 12 05:28	17° る 51'13	-4.8m
evening rise	9007 Sep 29 20:11	23° ≏ 43'18			9010 Mar 03 17:21	0° ≈	
	9007 Oct 04 22:31	0°M₊		morning max el	9010 Mar 23 11:02	18° ≈ 05'02	46°41'02
	9007 Oct 29 08:52	0° ∡			9010 Apr 03 22:17	0° ∀	
	9007 Nov 22 23:07	0°ಕ			9010 Apr 30 16:35	0° Y	
desc. node	9007 Dec 03 06:52	12° ⋜ 31'11		desc. node	9010 May 20 04:40	22° Y ′59'15	
	9007 Dec 17 18:10	0° ≈			9010 May 26 01:12	0°8	
	9008 Jan 11 18:50	0° ∀			9010 Jun 19 18:58	Π °0	
	9008 Feb 06 03:42	0 ° $\mathbf{\Upsilon}$			9010 Jul 14 06:21	0 \circ \odot	
	9008 Mar 03 05:57	$_{0\circ}$ 8			9010 Aug 07 15:41	$0^{\circ}\Omega$	
asc. node	9008 Mar 25 06:24	23° 8 50'28			9010 Sep 01 00:40	0° m ∕	
evening max el	9008 Mar 29 06:29	27° 8 55'21	46°55'56	asc. node	9010 Sep 10 01:28	11° m 07'20	
	9008 Mar 31 08:22	$\Pi^{\circ}0$		morning set	9010 Sep 24 17:23	29° m 10'46	
greatest brilliancy	9008 May 08 23:52	29° Ⅲ 01'48	-4.9m		9010 Sep 25 09:22	0∘ ⊽	
	9008 May 12 03:50	0ಂತಾ			9010 Oct 19 17:33	0° M	
retrograde	9008 May 18 19:18	0° © 51'44					
	9008 May 25 06:28	30° Ŗ Ⅱ		superior conj	9010 Oct 31 13:48	14° M 36'09	1°25'24
evening set	9008 Jun 05 00:20	25° Ⅱ 09'11		minimum elong	9010 Oct 31 11:29	14°M28'59	1°25'34
inferior conj	9008 Jun 08 13:04	23° I 100'49	7°51'31	max. Earth dist.	9010 Oct 31 17:56	14°M48'53	1.73287 AU
minimum elong	9008 Jun 08 23:05	22° I I45'25	7°49'35	man. Bartin digt.	9010 Nov 13 01:26	0° ⊼	1.75207110
min. Earth dist.	9008 Jun 08 16:27	22° I I55'38	0.27188 AU	evening rise	9010 Dec 07 07:21	29° 🗷 52'46	
		20° I I23'11	0.2/100 AU	evening rise		29 メ ・32 40	
morning rise	9008 Jun 12 21:52	20 II 23 11 15° II 12′29		1 1-	9010 Dec 07 09:42		
direct	9008 Jun 29 05:08		4.0	desc. node	9010 Dec 30 18:42	28° る 46'09	
greatest brilliancy	9008 Jul 09 01:32	17° Ⅱ 01'14	-4.8m		9010 Dec 31 18:43	0° ≈	
desc. node	9008 Jul 15 02:09	19° Ⅲ 39'35			9011 Jan 25 04:17	0°) €	
	9008 Jul 30 09:47	0°©			9011 Feb 18 14:19	0° Υ	
morning max el	9008 Aug 18 00:52	16° © 47'11	46°19'03		9011 Mar 15 02:13	0°8	
	9008 Aug 31 00:50	$0^{\circ}\Omega$			9011 Apr 08 20:13	Π °0	
	9008 Sep 27 11:40	0° m		asc. node	9011 Apr 22 17:27	16° Ⅲ 33'05	
	9008 Oct 23 13:59	0∘ ರಾ			9011 May 04 05:08	0	
asc. node	9008 Nov 05 00:24	14° ≏ 37'22			9011 May 31 00:54	0 $^{\circ}$ Ω	
	9008 Nov 17 22:43	0°M		evening max el	9011 Jun 10 18:44	11° Ω 08'07	46°42'32
	9008 Dec 12 19:36	0° ∡ ¹			9011 Jul 01 13:38	0° m ∕	
	9009 Jan 06 08:18	8°0		greatest brilliancy	9011 Jul 19 21:58	11° m 12'19	-4.8m
	9009 Jan 30 15:32	0° ≈		retrograde	9011 Jul 30 22:56	13° m 27'01	
morning set	9009 Feb 12 17:41	16° ≈ 14'40		desc. node	9011 Aug 12 13:44	10° m 16'04	
	9009 Feb 23 18:52	0° ∀		evening set	9011 Aug 14 18:54	9° m)07'17	
desc. node	9009 Feb 24 17:14	1°) 09'43		min. Earth dist.	9011 Aug 20 11:10	5° m/ 44'51	0.27998 AU
	9009 Mar 19 19:03	$_{0}$ $^{\circ}$ Υ		inferior conj	9011 Aug 21 03:02	5° m/20'13	-2°06'52
max. Earth dist.	9009 Mar 22 02:00	2° Y 52'05	1.71532 AU	minimum elong	9011 Aug 20 22:20	5° m) 27'32	
				morning rise	9011 Aug 27 02:34	1° Mp 46'58	
superior conj	9009 Mar 24 16:49	6° Ƴ 08'56	-1°01'33	morning 1150	9011 Aug 30 16:46	30°R Ω	
minimum elong	9009 Mar 24 05:08	5° Υ 32'18		direct	9011 Sep 11 06:13	27° Ω 22'39	
minimum crong	9009 Apr 12 16:54	0°8	1 01 0)	greatest brilliancy	9011 Sep 20 20:58	29° Ω 03'49	-4.8m
evening rise	9009 May 03 23:52	26° 8 45'06		greatest orimaney	9011 Sep 20 20:38 9011 Sep 23 09:08	0° m)	- 1 .0111
evening rise	9009 May 06 13:57	0°Ⅱ		morning max el	9011 Oct 30 00:16	27° mg 13'13	45°43'23
	9009 May 30 12:24	0°ಅ		morning max ci	9011 Oct 30 00:10 9011 Nov 01 21:21	0° ⊽	43 43 23
	9009 Jun 17 14:37						
asc. node		22° © 33'13		1	9011 Nov 30 12:20	0°M	
	9009 Jun 23 14:34	0° N		asc. node	9011 Dec 03 12:35	3°M20'16	
	9009 Jul 17 22:40	0° m			9011 Dec 26 20:54	0° ∡	
	9009 Aug 11 15:39	0∘ ⊽			9012 Jan 21 04:03	8°0	
	9009 Sep 05 22:56	0° M			9012 Feb 14 20:59	0° ≈	
	9009 Oct 02 07:50	0° ∡			9012 Mar 10 05:16	0° ∀	
desc. node	9009 Oct 07 10:02	5° ∡ 34'23		desc. node	9012 Mar 24 05:48	17° ¥ 25'17	
	9009 Oct 31 00:41	0° ろ			9012 Apr 03 07:50	0° Υ	
evening max el	9009 Nov 02 01:51	1° る 58'21	45°44'26		9012 Apr 27 06:42	0°8	
greatest brilliancy	9009 Dec 11 05:19	0° ≈ 04'13	-4.8m	morning set	9012 Apr 28 23:33	2° 8 08'14	
	9009 Dec 11 00:18	0° ≈			9012 May 21 03:49	Π °0	
retrograde	9009 Dec 20 19:31	1° ≈ 44'13					
	9009 Dec 30 03:35	30°R₹		superior conj	9012 Jun 08 08:09	22° II 50'01	-1°14'53
evening set	9010 Jan 05 12:02	26° る 59'22		minimum elong	9012 Jun 08 18:36	23° Ⅲ 22'47	1°14'53
inferior conj	9010 Jan 10 22:11	23° る 43'41	-4°10'39	max. Earth dist.	9012 Jun 10 21:45	26° Ⅲ 03′09	1.71461 AU
minimum elong	9010 Jan 11 06:38	23° る 30'32	4°08'06		9012 Jun 14 01:18	0 \circ \odot	
min. Earth dist.	9010 Jan 11 16:38	23° る 14'59	0.28150 AU		9012 Jul 08 00:55	0 $^{\circ}\Omega$	
morning rise	9010 Jan 17 00:41	20° る 04'28		asc. node	9012 Jul 15 02:40	8° Ω 48'55	

evening rise	9012 Jul 18 06:54	12° Ω 46'11			9015 Feb 01 05:24	0°る	
	9012 Aug 01 03:51	0° m/			9015 Feb 27 13:06	0° ≈	
	9012 Aug 25 11:01	0∘ ত			9015 Mar 24 17:06	0° ℋ	
	9012 Sep 18 23:47	0° M.			9015 Apr 18 06:58	0° Y	
	9012 Oct 13 20:42	0° ∡ ¹		desc. node	9015 Apr 21 18:12	4° Ƴ 16′23	
desc. node	9012 Nov 03 21:17	24° ₹ 54'49			9015 May 12 12:49	0°8	
	9012 Nov 08 05:37	0°₹			9015 Jun 05 14:33	0°П	
	9012 Dec 04 08:52	0° ≈			9015 Jun 29 15:10	0°9	
	9012 Dec 31 22:19	0° ∺		morning set	9015 Jul 13 17:48	17° 9 35'51	
			46016141	morning set			
evening max el	9013 Jan 12 23:44	12° 升 11′52	46°16'41	•	9015 Jul 23 16:45	0°N	
	9013 Feb 01 22:52	0° Υ		asc. node	9015 Aug 12 14:55	24° Ω 45'39	
greatest brilliancy	9013 Feb 21 20:36	11° Y 50'34	-4.8m		9015 Aug 16 20:15	0° ™	
asc. node	9013 Feb 24 21:17	12° Ƴ 45'43					
retrograde	9013 Mar 03 15:52	13° Ƴ 38'28		superior conj	9015 Aug 21 08:20	5° ™ 35'07	0°20'59
evening set	9013 Mar 19 01:34	9° Ƴ 01'11		minimum elong	9015 Aug 21 03:41	5° m 20'41	0°20'38
inferior conj	9013 Mar 24 08:59	5° Y 51'25	6°25'17	max. Earth dist.	9015 Aug 23 16:16	8° Mp 28'26	1.72663 AU
minimum elong	9013 Mar 23 21:55	6° Y 08'28	6°22'43		9015 Sep 10 01:44	0∘ ⊽	
min. Earth dist.	9013 Mar 24 06:14	5° Ƴ 55'39	0.27119 AU	evening rise	9015 Sep 27 13:25	21° ≏ 35'14	
morning rise	9013 Mar 28 18:05	3° Υ 12'36	0.27117110	evening rise	9015 Oct 04 09:21	0°M	
morning risc	9013 Apr 04 04:54	30° ₹			9015 Oct 28 19:51	0° ⊼ ⊓	
T' '		28° ₩ 00'46				0°ਤ	
direct	9013 Apr 14 01:52		4.0		9015 Nov 22 10:25		
greatest brilliancy	9013 Apr 23 23:46	29° ∺ 51'38	-4.9m	desc. node	9015 Dec 02 08:51	12° る 02'26	
	9013 Apr 24 08:58	0 ° $\mathbf{\gamma}$			9015 Dec 17 06:00	0° ≈	
	9013 Jun 02 17:43	9° 8			9016 Jan 11 07:28	0° ∀	
morning max el	9013 Jun 03 12:40	0° 8 47'30	46°57'50		9016 Feb 05 17:41	0° Y	
desc. node	9013 Jun 16 16:39	14° 8 32'06			9016 Mar 02 22:36	8°	
	9013 Jun 30 17:22	$\Pi^{\circ}0$		asc. node	9016 Mar 24 08:17	23° 8 00'03	
	9013 Jul 26 18:12	0°©		evening max el	9016 Mar 26 20:40	25° 8 33'09	46°55'16
	9013 Aug 21 01:47	$0^{\circ}\Omega$		Č	9016 Mar 31 08:28	0° I I	
	9013 Sep 15 01:29	0° m p		greatest brilliancy	9016 May 06 12:41	26° ∏ 36'03	-4.9m
asc. node	9013 Oct 07 13:53	27° Mp 15'15		retrograde	9016 May 16 09:03	28° I I26'35	- 1 .7III
asc. node				•		28 H 2033	
	9013 Oct 09 20:07	0∘ 亚		evening set	9016 Jun 02 16:50		0002126
	9013 Nov 03 10:20	0°M		inferior conj	9016 Jun 06 02:02	20° ∏ 35'35	
_	9013 Nov 27 20:43	0° ∡		minimum elong	9016 Jun 06 11:36	20° Ⅲ 20'54	8°01'52
morning set	9013 Dec 02 07:22	5° ≮ 28'30		min. Earth dist.	9016 Jun 06 04:57	20° Ⅲ 31′06	0.27185 AU
	9013 Dec 22 04:16	0°ಕ		morning rise	9016 Jun 10 06:27	18° Ⅱ 04'31	
max. Earth dist.	9014 Jan 06 03:54	18° る 32'26	1.72755 AU	direct	9016 Jun 26 18:36	12° ∏ 47'21	
				greatest brilliancy	9016 Jul 06 13:32	14° ∏ 35′26	-4.9m
superior conj	9014 Jan 08 08:46	21° ප 16'07	0°43'43	desc. node	9016 Jul 14 04:16	18° 耳 05′01	
minimum elong	9014 Jan 08 17:29	21° る 43'08	0°43'35		9016 Jul 30 20:52	0 \circ 60	
	9014 Jan 15 09:54	0° ≈		morning max el	9016 Aug 15 15:44	14° 5 29'01	46°20'41
desc. node	9014 Jan 27 06:54	14° ≈ 43'41		-	9016 Aug 30 19:47	$0^{\circ}\Omega$	
	9014 Feb 08 13:56	0°) €			9016 Sep 27 02:29	0° m/	
evening rise	9014 Feb 16 00:28	9° ₩ 15'01			9016 Oct 23 02:56	0∘ ⊽	
evening rise	9014 Mar 04 16:20	0°Υ		asc. node	9016 Nov 04 02:20	0 — 14° ≏ 06'24	
				asc. nouc			
	9014 Mar 28 17:36	8°0			9016 Nov 17 10:39	0°M.	
	9014 Apr 21 19:34	0° Ⅱ			9016 Dec 12 06:59	0° ∡ 7	
	9014 May 16 01:27	0.20			9017 Jan 05 19:25	5°0	
asc. node	9014 May 20 04:52	5° © 05'20			9017 Jan 30 02:31	0° ≈	
	9014 Jun 09 15:44	$0^{\circ}\Omega$		morning set	9017 Feb 10 07:49	13° ≈ 55'30	
	9014 Jul 04 21:19	0° m			9017 Feb 23 05:48	0° ∀	
	9014 Jul 31 08:49	0० ट		desc. node	9017 Feb 23 19:12	0°) 41′47	
evening max el	9014 Aug 20 13:22	21° ≏ 00'25	45°59'14		9017 Mar 19 05:58	$0^{\circ}\mathbf{\Upsilon}$	
	9014 Aug 30 02:49	0°M		max. Earth dist.	9017 Mar 19 12:28	0° Y 20′21	1.71563 AU
desc. node	9014 Sep 09 00:57	8°M20'24					
greatest brilliancy	9014 Sep 28 09:03	19°M50'39	-4.7m	superior conj	9017 Mar 22 04:51	3° Y 41'59	-0°58'45
retrograde	9014 Oct 08 21:05	21°M51'31	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	minimum elong	9017 Mar 21 17:18	3°Υ05'49	
evening set	9014 Oct 26 23:04	15°M43'23		Ciong	9017 Apr 12 03:51	0° 8	5 25 17
•	9014 Oct 20 23:04 9014 Oct 30 10:54		8023126	avaning rise	-	24° 8 14'46	
inferior conj		13°M33'22		evening rise	9017 May 01 11:02		
minimum elong	9014 Oct 30 08:04	13°M37'50	8°33'20		9017 May 06 00:59	0° I I	
min. Earth dist.	9014 Oct 30 07:42	13°M38'25	0.29145 AU		9017 May 29 23:35	0°©	
morning rise	9014 Nov 02 17:04	11° M 31'49		asc. node	9017 Jun 16 16:39	22° © 04'25	
direct	9014 Nov 20 22:43	5°M16'28			9017 Jun 23 01:57	$0^{\circ}\Omega$	
greatest brilliancy	9014 Dec 01 08:32	7°M13'52	-4.7m		9017 Jul 17 10:23	0°Щ	
asc. node	9014 Dec 31 00:20	27°M18'12			9017 Aug 11 03:56	0∘ ⊽	
	9015 Jan 02 23:21	0°⊀			9017 Sep 05 12:18	0°M	
morning max el	9015 Jan 09 03:05	5° ∡ 751′29	45°55'11		9017 Oct 01 23:33	0° ∡ ¹	
Č		-					

desc. node	9017 Oct 06 11:57	4° ₹ 155'15		morning set	9020 Apr 26 10:06	29° Ƴ 35'55	
evening max el	9017 Oct 30 17:14	29° * 45'58	45°44'05	morning set	9020 Apr 26 17:47	0° 8	
evening max er	9017 Oct 30 17:14 9017 Oct 30 23:07	0°る	43 44 03		9020 May 20 14:49	0°II	
greatest brilliancy	9017 Dec 08 20:05	27° る 50'05	-4.8m		7020 Way 20 14.47	ν д	
retrograde	9017 Dec 18 09:54	29° る 29'28		superior conj	9020 Jun 05 20:08	20° ∏ 22'39	-1°16'51
evening set	9018 Jan 03 05:37	24° ප් 40'58		minimum elong	9020 Jun 06 06:07		1°16'51
inferior conj	9018 Jan 08 13:15	21° る 28'23	-4°29'07	max. Earth dist.	9020 Jun 08 03:55		1.71426 AU
minimum elong	9018 Jan 08 22:07	21° る 14'33			9020 Jun 13 12:14	0.20	
min. Earth dist.	9018 Jan 09 07:51	20°る59'24	0.28201 AU		9020 Jul 07 11:49	$0^{\circ}\Omega$	
morning rise	9018 Jan 14 14:06	17° る 50'59		asc. node	9020 Jul 14 04:39	8° Ω 21'06	
asc. node	9018 Jan 27 11:55	13° る 25'26		evening rise	9020 Jul 15 20:33	10° Ω 25'17	
direct	9018 Jan 29 20:00	13° る 18'50		C	9020 Jul 31 14:48	O° Mp	
greatest brilliancy	9018 Feb 09 20:53	15° ⋜ 34'46	-4.8m		9020 Aug 24 22:07	0∘ ⊽	
· ·	9018 Mar 04 03:14	0° ≈			9020 Sep 18 11:13	o°M.	
morning max el	9018 Mar 21 01:27	15° ≈ 45'20	46°39'37		9020 Oct 13 08:42	0°⊀	
-	9018 Apr 03 16:48	0° ∀		desc. node	9020 Nov 02 23:15	24° ₹ '23'06	
	9018 Apr 30 07:21	$0^{\circ}\mathbf{\Upsilon}$			9020 Nov 07 18:38	0°る	
desc. node	9018 May 19 06:39	22° Y 25'00			9020 Dec 03 23:52	0° ≈	
	9018 May 25 14:20	0°8			9020 Dec 31 17:55	0°) €	
	9018 Jun 19 07:14	$\Pi^{\circ}0$		evening max el	9021 Jan 10 12:32	9°) (49′10	46°15'11
	9018 Jul 13 18:05	0°€			9021 Feb 02 15:34	0° Y	
	9018 Aug 07 03:03	$0^{\circ}\Omega$		greatest brilliancy	9021 Feb 19 09:36	9° Y 26'12	-4.8m
	9018 Aug 31 11:46	0° m		asc. node	9021 Feb 23 23:09	10° Ƴ 42′20	
asc. node	9018 Sep 09 03:19	10° m 39'02		retrograde	9021 Mar 01 04:41	11° Y 14'16	
morning set	9018 Sep 22 09:54	27° Mp 00'12		evening set	9021 Mar 16 11:16	6° Ƴ 41'05	
	9018 Sep 24 20:17	0∘ ⊽		inferior conj	9021 Mar 21 22:06	3° Y 26'56	6°07'42
	9018 Oct 19 04:22	0° M.		minimum elong	9021 Mar 21 11:07	3° Ƴ 43'49	6°05'02
				min. Earth dist.	9021 Mar 21 19:55	3° Y 30'17	0.27131 AU
superior conj	9018 Oct 29 07:17	12°M28'47	1°24'57	morning rise	9021 Mar 26 10:45	0° Ƴ 43'12	
minimum elong	9018 Oct 29 04:16	12°M19'31	1°25'06		9021 Mar 27 17:26	30°₽)	
max. Earth dist.	9018 Oct 29 12:15	12°M44'06	1.73281 AU	direct	9021 Apr 11 14:52	25°) 35′38	
	9018 Nov 12 12:15	0° ∡ ¹		greatest brilliancy	9021 Apr 21 14:32	27°) €28'13	-4.9m
evening rise	9018 Dec 04 23:48	27° ∡ ⁴42'01			9021 Apr 27 07:31	0 ° Υ	
	9018 Dec 06 20:36	0°ප		morning max el	9021 Jun 01 02:18	28° Y 23'35	46°58'25
desc. node	9018 Dec 29 20:44	28° る 18'18			9021 Jun 02 16:26	9° 8	
	9018 Dec 31 05:49	0° ≈		desc. node	9021 Jun 15 18:40	13° 8 46'53	
	9019 Jan 24 15:41	0° ∀			9021 Jun 30 09:40	Π °0	
	9019 Feb 18 02:08	0° Υ			9021 Jul 26 08:02	0₀ ©	
	9019 Mar 14 14:38	0°B			9021 Aug 20 14:18	0 $^{\circ}$ Ω	
	9019 Apr 08 09:34	0°II			9021 Sep 14 13:13	0° m	
asc. node	9019 Apr 21 19:26	15° Ⅱ 57'18		asc. node	9021 Oct 06 15:49	26° TD 46'49	
	9019 May 03 20:13	0°©			9021 Oct 09 07:22	0∘ ⊽	
	9019 May 30 20:09	0°N			9021 Nov 02 21:18	0° ™	
evening max el	9019 Jun 08 08:58	8° Ω 47'48	46°43'43	. ,	9021 Nov 27 07:31	0° ₹ ¹	
	9019 Jul 02 04:49	0° m	4.0	morning set	9021 Nov 30 00:30	3° ∡ 720′06	
greatest brilliancy	9019 Jul 17 14:34	8° Mp 56'56	-4.8m	F 4 F 4	9021 Dec 21 15:01	0°る	1 70701 444
retrograde	9019 Jul 28 13:36	11° Mp 10'07		max. Earth dist.	9022 Jan 03 23:19	16° る 30'33	1.72791 AU
desc. node	9019 Aug 11 15:38	7° Mp 15'25 6° Mp 51'23		superior con-	9022 Jan 06 00:19	19° る 02'13	0.046,40
evening set min. Earth dist.	9019 Aug 12 09:35 9019 Aug 18 02:57		0.27951 AU	superior conj minimum elong	9022 Jan 06 00:19 9022 Jan 06 09:22	19° る 02°13	
inferior conj	9019 Aug 18 02:57 9019 Aug 18 17:52	3° Mp 04'15		mminum elong	9022 Jan 06 09:22 9022 Jan 14 20:42	19° ⊘ 3017	0 4033
minimum elong	9019 Aug 18 17:52 9019 Aug 18 13:55	3°My 10'24		desc. node	9022 Jan 14 20:42 9022 Jan 26 08:49	0 ≈ 14°≈15'58	
minimum clong	9019 Aug 23 20:19	30°RΩ	1 4437	desc. node	9022 Feb 08 00:50	0° ∺	
morning rise	9019 Aug 24 18:59	29° Ω 28'35		evening rise	9022 Feb 13 14:24	6° ¥ 55'06	
direct	9019 Sep 08 20:21	$25^{\circ} \Omega 07'20$		evening rise	9022 Mar 04 03:23	0° Υ	
greatest brilliancy	9019 Sep 18 11:54	26° Ω 48'48	-4 8m		9022 Mar 28 04:52	0°8	
greatest similare	9019 Sep 25 18:26	0° m)			9022 Apr 21 07:07	0°II	
morning max el	9019 Oct 27 13:47	24° Mp 56'02	45°43'54		9022 May 15 13:26	0 .ಪ	
	9019 Nov 01 18:42	2÷		asc. node	9022 May 19 15:26 9022 May 19 06:56	4° © 34'39	
	9019 Nov 30 03:44	0° m			9022 Jun 09 04:25	0° Ω	
asc. node	9019 Dec 02 14:37	2°M43'54			9022 Jul 04 11:17	0° my	
·· · · · · · · · · · · · · · · · · ·	9019 Dec 26 10:07	0° ⊼			9022 Jul 31 01:42	0∘ ত 0°.	
	9020 Jan 20 16:14	0°ਤ		evening max el	9022 Aug 18 04:57	0 — 18° Ω 47'42	46°00'41
	9020 Feb 14 08:36	0° ≈		<i>3 2</i> .	9022 Aug 30 06:09	0°M	-
	9020 Mar 09 16:35	0°) €		desc. node	9022 Sep 08 02:51	7° ™ 14'43	
desc. node	9020 Mar 23 07:35	16° ¥ 55'50		greatest brilliancy	9022 Sep 25 23:18	17° M 39'07	-4.7m
	9020 Apr 02 19:00	0°Υ		retrograde	9022 Oct 06 13:56	19°M42'12	
				-			

. ,	0022 0 4 24 12 14	120 M 26142			0025 4 11 14 20	Λn U	
evening set	9022 Oct 24 13:14	13°M36'43	0020121		9025 Apr 11 14:39	0° 8	
inferior conj	9022 Oct 28 03:08	11°M23'39		evening rise	9025 Apr 28 21:42	21° 8 43'24	
minimum elong	9022 Oct 27 23:33	11°M29'16			9025 May 05 11:52	0°II	
min. Earth dist.	9022 Oct 27 22:20	11°ML31'11	0.29139 AU		9025 May 29 10:34	0 \circ	
morning rise	9022 Oct 31 09:55	9°M21'23		asc. node	9025 Jun 15 18:36	21°936'04	
direct	9022 Nov 18 15:07	3°ML07'03			9025 Jun 22 13:06	0 $^{\circ}$ Ω	
greatest brilliancy	9022 Nov 28 23:26	5°M03'29	-4.7m		9025 Jul 16 21:49	0°Щ	
asc. node	9022 Dec 30 02:21	26°M24'13			9025 Aug 10 15:57	0∘ ত	
	9023 Jan 02 23:23	0° ≯ ¹			9025 Sep 05 01:27	0° M	
morning max el	9023 Jan 06 19:24	3° ҂ ¹40'55	45°53'56		9025 Oct 01 15:10	0°⊀	
	9023 Jan 31 21:30	0° ප		desc. node	9025 Oct 05 14:00	4° ₰ 17'00	
	9023 Feb 27 02:42	0° ≈		evening max el	9025 Oct 28 07:52	27° ∡ ³32'44	45°43'46
	9023 Mar 24 05:34	0° ∀			9025 Oct 30 22:04	0°₹	
	9023 Apr 17 18:47	0 ° $\mathbf{\gamma}$		greatest brilliancy	9025 Dec 06 11:24	25° る 37'50	-4.7m
desc. node	9023 Apr 20 20:15	3° Y 46'26		retrograde	9025 Dec 16 00:02	27° る 16'19	
	9023 May 12 00:15	9° 8		evening set	9025 Dec 31 23:20	22° る 23'56	
	9023 Jun 05 01:42	Π $^{\circ}0$		inferior conj	9026 Jan 06 04:27	19° る 14'44	-4°47'00
	9023 Jun 29 02:07	0ංම		minimum elong	9026 Jan 06 13:40	19° る 00'20	4°44'23
morning set	9023 Jul 11 07:31	15° © 15'04		min. Earth dist.	9026 Jan 06 23:24	18° る 45'07	0.28255 AU
	9023 Jul 23 03:35	$0^{\circ}\Omega$		morning rise	9026 Jan 12 03:28	15° る 39'21	
asc. node	9023 Aug 11 16:47	24° Ω 18′06		asc. node	9026 Jan 26 13:45	11° る 05'30	
	9023 Aug 16 06:58	0° m)		direct	9026 Jan 27 11:20	11° る 04'32	
				greatest brilliancy	9026 Feb 07 12:47	13° る 20'20	-4.8m
superior conj	9023 Aug 18 23:35	3° My 20′23	0°17'34		9026 Mar 04 09:56	0° ≈	
minimum elong	9023 Aug 18 19:38	3°M)08'08	0°17'14	morning max el	9026 Mar 18 15:14	13° ≈ 24'57	46°38'02
max. Earth dist.	9023 Aug 21 10:11	6° My 22'02	1.72625 AU	_	9026 Apr 03 10:33	0° ∀	
	9023 Sep 09 12:24	0∘ ত			9026 Apr 29 21:43	0° Y	
evening rise	9023 Sep 25 06:40	19° ≙ 27'39		desc. node	9026 May 18 08:39	21° Y 51'31	
Ü	9023 Oct 03 20:02	0°M₊			9026 May 25 03:11	0°8	
	9023 Oct 28 06:42	0° ∡ ¹			9026 Jun 18 19:15	0°II	
	9023 Nov 21 21:37	0° ਰ			9026 Jul 13 05:33	0°9	
desc. node	9023 Dec 01 10:54	11° ♂ 34'15			9026 Aug 06 14:06	$0^{\circ}\Omega$	
acor. noue	9023 Dec 16 17:46	0°≈			9026 Aug 30 22:30	0° m/y	
	9024 Jan 10 20:07	0° ₩		asc. node	9026 Sep 08 05:14	10° Mp 12'06	
	9024 Feb 05 07:47	0° Υ		morning set	9026 Sep 20 02:20	24° m 50'25	
	9024 Mar 02 15:33	0°8		morning set	9026 Sep 24 06:50	0° ए	
asc. node	9024 Mar 23 10:17	22° 8 09'09			9026 Oct 18 14:50	0° ™	
evening max el	9024 Mar 24 11:09	23° 8 11'52	46°54'37		7020 Oct 10 14.50	o lio	
evening max er	9024 Mar 31 09:45	0°II	40 34 37	superior conj	9026 Oct 27 00:53	10°M22'55	1°24'22
greatest brilliancy	9024 May 04 01:46	24° I I10'56	4 0m	minimum elong	9026 Oct 26 21:12	10°M11'33	
retrograde	9024 May 13 22:41	26° I I01'25	-4.9111	max. Earth dist.	9026 Oct 20 21:12 9026 Oct 27 05:16	10°M36'24	1.73277 AU
•	9024 May 31 09:14	20° I 101'23		max. Earth dist.		10 11€3024 0° √ 7	1./32// AU
evening set	9024 May 31 09.14 9024 Jun 03 14:56	20 H 0849 18° H 10'37	8°14'56	ovanina rias	9026 Nov 11 22:43	0 x . 25° x 33'13	
inferior conj minimum elong	9024 Jun 03 23:58	17° II 56'44		evening rise	9026 Dec 02 16:30 9026 Dec 06 07:10	23 メ ・33 13	
min. Earth dist.	9024 Jun 03 17:19	17 II 30 44 18° II 06'57		desc. node	9026 Dec 28 22:37	0 3 27° る 51'08	
		15° II 46'07	0.2/1// AU	desc. node		27 ⊘ 31 08 0° ≈	
morning rise direct	9024 Jun 07 14:48 9024 Jun 24 07:58	13 Ⅱ 4007 10° Ⅱ 22'47			9026 Dec 30 16:34 9027 Jan 24 02:43	0 ≈	
	9024 Jul 04 01:13	10 H 2247 12° H 09'39	-4.9m		9027 Feb 17 13:37	0° Υ	
greatest brilliancy desc. node	9024 Jul 13 06:13	12 I 10939 16° I 34'05	-4.7111		9027 Feb 17 13:37 9027 Mar 14 02:47	0°8	
uese. Houe	9024 Jul 31 04:45	0°9				0°II	
mamina may al		12° 5 09'35	46922115	aga mada	9027 Apr 07 22:44	0 H 15°H22'10	
morning max el	9024 Aug 13 05:51	12 3 0933	40 22 13	asc. node	9027 Apr 20 21:27	0°95	
	9024 Aug 30 13:59	0° m p			9027 May 03 11:15	0°Ω 0 €3	
	9024 Sep 26 16:51	-			9027 May 30 15:44		46944157
1	9024 Oct 22 15:32	0° ⊽		evening max el	9027 Jun 05 22:26	6° Ω 25'58	46°44'57
asc. node	9024 Nov 03 04:22	13° £ 36'35		1 . 1111	9027 Jul 03 00:58	0°Mp	4.0
	9024 Nov 16 22:18	0° M 0° ₹		greatest brilliancy	9027 Jul 15 07:02	6° Mp 41'38	-4.8m
	9024 Dec 11 18:06	0° ⊼		retrograde	9027 Jul 26 04:13	8° m 53'39	
	9025 Jan 05 06:16	5°0		evening set	9027 Aug 10 00:18	4° Mp 35'21	
	9025 Jan 29 13:16	0°≈		desc. node	9027 Aug 10 17:33	4° m 11'33	100.410.5
morning set	9025 Feb 07 21:53	11°≈36'47		inferior conj	9027 Aug 16 08:34	0° Mp 48'41	
desc. node	9025 Feb 22 21:04	0° 		minimum elong	9027 Aug 16 05:24	0° Mp 53'37	
	9025 Feb 22 16:32	0° ∀		min. Earth dist.	9027 Aug 15 18:41	1° mp 10'15	0.27901 AU
max. Earth dist.	9025 Mar 16 19:48	27° ∺ 39'23	1.71599 AU		9027 Aug 17 15:59	30°R€	
	9025 Mar 18 16:44	$0^{\circ}\mathbf{\Upsilon}$		morning rise	9027 Aug 22 11:08	27°Ω10'58	
_				direct	9027 Sep 06 09:57	22° Ω 52'18	
superior conj	9025 Mar 19 16:37	1°Υ14'46		greatest brilliancy	9027 Sep 16 02:56	24° Ω 34'40	-4.8m
minimum elong	9025 Mar 19 05:18	0° Ƴ 39'21	0°55'21		9027 Sep 27 06:42	0° т р	

	0027 0-+ 25 02-40	220 m 40146	45944122		0020 Mars 15, 01,07	0° ©	
morning max el	9027 Oct 25 03:40	22° Mp 40'46 0° <u>₽</u>	43 44 32	1-	9030 May 15 01:07	0 €9 4°€04'34	
	9027 Nov 01 14:51	0° M		asc. node	9030 May 18 08:53		
1-	9027 Nov 29 18:30				9030 Jun 08 16:51	0° N	
asc. node	9027 Dec 01 16:32	2°M.08'41 0°⊀			9030 Jul 04 01:07	0 ்⊽ 0°™	
	9027 Dec 25 22:50 9028 Jan 20 03:57	0° ਨ			9030 Jul 30 18:43	0° 22 16° 2 37'41	46°02'00
		0° ≈		evening max el	9030 Aug 15 21:26		46 02 00
	9028 Feb 13 19:49 9028 Mar 09 03:30	0° ₩		desc. node	9030 Aug 30 11:07	0°M 6°M07'59	
desc. node	9028 Mar 22 09:39	16° ¥ 28'31		greatest brilliancy	9030 Sep 07 04:57 9030 Sep 23 13:56	15°M28'20	-4.7m
desc. node		10 χ 2831			9030 Sep 23 13:30 9030 Oct 04 06:46	17°M33'00	-4./111
morning sat	9028 Apr 02 05:47	27° Υ 05'03		retrograde	9030 Oct 04 00:46 9030 Oct 22 03:12	17 IIC33 00 11°IIC33'51	
morning set	9028 Apr 23 20:45	0° 8		evening set		9°MJ4'17	9926140
	9028 Apr 26 04:29 9028 May 20 01:30	0°II		inferior conj minimum elong	9030 Oct 25 19:21 9030 Oct 25 15:05	9°M21'00	
	9028 May 20 01.30	υц		min. Earth dist.		9°M24'22	0.29126 AU
aumorior comi	9028 Jun 03 07:51	17° Ⅱ 55'23	1010120		9030 Oct 25 12:55 9030 Oct 29 03:03	9 11624 22 7°M10'44	0.29120 AU
superior conj minimum elong	9028 Jun 03 17:16	17 Ⅲ 33 23 18° Ⅲ 24'57		morning rise direct	9030 Oct 29 03:03 9030 Nov 16 07:44	0°M58'14	
max. Earth dist.	9028 Jun 05 08:16	20° I I27'21	1.71401 AU			2°M52'53	-4.7m
max. Earth dist.			1./1401 AU	greatest brilliancy	9030 Nov 26 13:41		-4./m
	9028 Jun 12 22:53	0° ©		asc. node	9030 Dec 29 04:16	25°M31'39	
	9028 Jul 06 22:28	0°N			9031 Jan 02 22:05	0° ∡ 7	45050141
evening rise	9028 Jul 13 09:41	8° Ω 03'37		morning max el	9031 Jan 04 11:29	1° ₹ 30'34	45°52'41
asc. node	9028 Jul 13 06:30	7° £ 53′40			9031 Jan 31 13:06	0°る	
	9028 Jul 31 01:30	0° m			9031 Feb 26 15:59	0° ≈	
	9028 Aug 24 08:57	0∘ ⊽			9031 Mar 23 17:46	0° ∀	
	9028 Sep 17 22:21	0°M₊			9031 Apr 17 06:24	0 ° Υ	
	9028 Oct 12 20:24	0°⊀		desc. node	9031 Apr 19 22:10	3° Y 16′40	
desc. node	9028 Nov 02 01:17	23° 渘 52'30			9031 May 11 11:29	0°8	
	9028 Nov 07 07:24	0°ප			9031 Jun 04 12:40	Π $^{\circ}0$	
	9028 Dec 03 14:42	0° ≈			9031 Jun 28 12:54	0 \circ \odot	
	9028 Dec 31 13:42	0° ∀		morning set	9031 Jul 08 21:33	12° © 55'50	
evening max el	9029 Jan 08 02:23	7°) € 30'27	46°13'46		9031 Jul 22 14:13	$0^{\circ}\Omega$	
	9029 Feb 03 13:16	0 ° $\mathbf{\Upsilon}$		asc. node	9031 Aug 10 18:46	23° Ω 51′28	
greatest brilliancy	9029 Feb 16 22:15	7° Ƴ 03'02	-4.8m		9031 Aug 15 17:32	o° mp	
asc. node	9029 Feb 23 01:12	8° Ƴ 35'32			•		
retrograde	9029 Feb 26 18:14	8° Ƴ 51'48		superior conj	9031 Aug 16 14:56	1° Mp 06'22	0°14'08
evening set	9029 Mar 13 21:21	4° Υ 22'21		minimum elong	9031 Aug 16 11:44	0° m 56'26	0°13'50
inferior conj	9029 Mar 19 11:18	1° Υ 04'04	5°49'26	behind sun begin	9031 Aug 15 23:30	0° mp 18'29	
minimum elong	9029 Mar 19 00:31	1° Υ 20'38	5°46'44	behind sun end	9031 Aug 16 23:57	1° m/34'22	
min. Earth dist.	9029 Mar 19 09:26	1° Υ 06'57	0.27143 AU	max. Earth dist.	9031 Aug 19 05:26	4° Mp 20'11	1.72588 AU
iiiii. Luttii dist.	9029 Mar 21 05:06	30° ₹	0.27143710	max. Earth dist.	9031 Sep 08 22:57	ე° <u>ი</u>	1.72300710
morning rise	9029 Mar 24 03:28	28°) 15'36		evening rise	9031 Sep 08 22:57 9031 Sep 22 23:54	0 — 17° ≏ 20'11	
direct	9029 Mai 24 03:28 9029 Apr 09 04:25	28 X 13 30 23° X 12'16		evening rise	9031 Oct 03 06:39	0°ML	
	9029 Apr 19 04:46	25°\(\)\(\)\(\)\(\)\(\)\(\)\(\)	4.0		9031 Oct 03 00:39 9031 Oct 27 17:30	0° 17⊓ 0° 27⊓	
greatest brilliancy	1	23 π 03 32 0° Υ	-4.9111			್ತು 0°ವ	
	9029 Apr 29 01:04		46050147		9031 Nov 21 08:47		
morning max el	9029 May 29 16:55 9029 Jun 02 13:47	26° Y 03'30	40-3847	desc. node	9031 Nov 30 12:45	11°る05'36 0°≈	
1 1		0° 8			9031 Dec 16 05:30		
desc. node	9029 Jun 14 20:37	13° 8 03'16			9032 Jan 10 08:45	0°) €	
	9029 Jun 30 01:20	0°∏			9032 Feb 04 21:57	0° Υ	
	9029 Jul 25 21:27	0.ಲ			9032 Mar 02 08:48	0°8	46053147
	9029 Aug 20 02:32	0° N		evening max el	9032 Mar 22 01:26	20° 8 50'07	40~33.47
	9029 Sep 14 00:42	0° Mp		asc. node	9032 Mar 22 12:22	21° 8 17'33	
asc. node	9029 Oct 05 17:52	26° m 19'30			9032 Mar 31 12:23	0°II	4.0
	9029 Oct 08 18:22	0∘ ⊽		greatest brilliancy	9032 May 01 15:36	21° ∏ 46′52	-4.9m
	9029 Nov 02 07:58	0°M₊		retrograde	9032 May 11 11:56	23° ∏ 36′23	
	9029 Nov 26 18:01	0°⊀		evening set	9032 May 29 01:38	17° Ⅱ 39'31	
morning set	9029 Nov 27 17:38	1° ∡ 12'45		inferior conj	9032 Jun 01 03:56	15° ∐ 46′08	8°25'19
	9029 Dec 21 01:29	0°ಕ		minimum elong	9032 Jun 01 12:22	15° Ⅱ 33'09	8°23'57
max. Earth dist.	9030 Jan 01 19:12	14° る 31'03	1.72825 AU	min. Earth dist.	9032 Jun 01 06:07	15° ∏ 42'47	0.27166 AU
				morning rise	9032 Jun 04 23:13	13° Ⅱ 28′04	
superior conj	9030 Jan 03 16:00	16° る 49'42	0°49'32	direct	9032 Jun 21 21:04	7° Ⅱ 58'40	
minimum elong	9030 Jan 04 01:21	17° る 18'36	0°49'24	greatest brilliancy	9032 Jul 01 13:21	9°∏44'32	-4.9m
	9030 Jan 14 07:13	0° ≈		desc. node	9032 Jul 12 08:06	15° Ⅱ 06′29	
desc. node	9030 Jan 25 10:42	13° ≈ 49′00			9032 Jul 31 10:12	0 \circ \odot	
	9030 Feb 07 11:30	0° ∀		morning max el	9032 Aug 10 19:05	9° 5 48'03	46°23'54
evening rise	9030 Feb 11 04:35	4°) €36'47			9032 Aug 30 07:37	$0^{\circ}\Omega$	
	9030 Mar 03 14:13	$0^{\circ}\mathbf{\Upsilon}$			9032 Sep 26 07:00	0° m	
	9030 Mar 27 15:53	0°8			9032 Oct 22 04:03	0∘ ⊽	
	9030 Apr 20 18:24	0°Ⅲ		asc. node	9032 Nov 02 06:14	13° ≏ 06'18	
	•						

	9032 Nov 16 09:56	0°M₊		greatest brilliancy	9035 Jul 12 23:02	4° ™ 24'28	-4.8m
	9032 Dec 11 05:15	0° ∡ ¹		retrograde	9035 Jul 23 19:10	6° Mp 36′00	
	9033 Jan 04 17:10	5°0		evening set	9035 Aug 07 15:06	2°M/17'31	
	9033 Jan 29 00:04	0° ≈		desc. node	9035 Aug 09 19:41	1° ™ 03'09	
morning set	9033 Feb 05 12:05	9° ≈ 18′24			9035 Aug 11 13:52	30° R Ω	
desc. node	9033 Feb 21 23:05	29° ≈ 46′50		inferior conj	9035 Aug 13 23:11	28° Ω 31'40	-1°02'14
	9033 Feb 22 03:18	0° ∀		minimum elong	9035 Aug 13 20:49	28° Ω 35′20	1°01'39
max. Earth dist.	9033 Mar 14 03:30	24° 米 59'31	1.71638 AU	min. Earth dist.	9035 Aug 13 10:14	28° Ω 51'43	0.27854 AU
				morning rise	9035 Aug 20 03:05	24° Ω 52'19	
superior conj	9033 Mar 17 04:34	28°) 48′09		direct	9035 Sep 03 23:32	20° Ω 35'38	
minimum elong	9033 Mar 16 17:33	28°) 13′40	0°52'18	greatest brilliancy	9035 Sep 13 17:53	22° Ω 19'09	-4.8m
	9033 Mar 18 03:32	0° Υ			9035 Sep 28 08:53	0° m)	
	9033 Apr 11 01:32	0° 8		morning max el	9035 Oct 22 18:28	20° m/26'39	45°45'22
evening rise	9033 Apr 26 08:34	19° 8 12'23			9035 Nov 01 10:45	0° ™	
	9033 May 04 22:51	0°II			9035 Nov 29 09:23	0°M	
,	9033 May 28 21:40	0°95		asc. node	9035 Nov 30 18:28	1°M32'49	
asc. node	9033 Jun 14 20:29	21°907'07			9035 Dec 25 11:47	0° ∡	
	9033 Jun 22 00:22	0° N			9036 Jan 19 15:59	5°0	
	9033 Jul 16 09:24	0° m)			9036 Feb 13 07:23	0° ≈	
	9033 Aug 10 04:07	0∘ 亚		1 1	9036 Mar 08 14:50	0°) €	
	9033 Sep 04 14:49	0°M 0°. 7		desc. node	9036 Mar 21 11:37	15° ¥ 59'34 0° Ƴ	
1 1-	9033 Oct 01 07:11	0° ✓ 27 27 5 1			9036 Apr 01 16:59	24° Y 32'22	
desc. node	9033 Oct 04 15:59	3° × ⁷ 37'51	45942124	morning set	9036 Apr 21 07:12		
evening max el	9033 Oct 25 21:51	25°ズ17'36 0°る	45*45*24		9036 Apr 25 15:36	0°Ⅱ 0°8	
	9033 Oct 30 22:18	23° る 25'09	4 7		9036 May 19 12:32	0-Щ	
greatest brilliancy	9033 Dec 04 02:45 9033 Dec 13 14:14	25° る 25'09	-4./m	aumariar aami	0026 May 21 10:19	15° Ⅱ 26′04	1920/10
retrograde evening set	9033 Dec 13 14.14 9033 Dec 29 17:10	23 3 03 02 20° る 06'18		superior conj minimum elong	9036 May 31 19:18 9036 Jun 01 04:05	15° I 53'37	
inferior conj	9034 Jan 03 19:45	20 306 18 17° る 00'47	500421	max. Earth dist.	9036 Jun 01 04.03 9036 Jun 02 15:00		1.71378 AU
minimum elong	9034 Jan 04 05:16	17 80047 16° 8 45'54		max. Earth dist.	9036 Jun 12 09:53	17 ഥ 43 10	1./13/6 AU
min. Earth dist.	9034 Jan 04 05:16	16° ろ 30'19			9036 Jul 06 09:29	0° U	
morning rise	9034 Jan 09 16:46	10 83019 13° 8 27'50	0.26511 AU	evening rise	9036 Jul 10 22:42	5° Ω 40'18	
direct	9034 Jan 25 02:29	8° る 49'44		asc. node	9036 Jul 12 08:31	$7^{\circ}\Omega 25'38$	
asc. node	9034 Jan 25 15:47	8° ろ 50'06		ase. node	9036 Jul 30 12:36	0° m)	
greatest brilliancy	9034 Feb 05 05:19	11° ろ 06'15	-4 8m		9036 Aug 23 20:14	0∘ ಹ	
greatest orimancy	9034 Mar 04 14:47	0° ≈	4.0111		9036 Sep 17 09:56	o° m .	
morning max el	9034 Mar 16 05:14	11° ≈ 04'36	46°36'33		9036 Oct 12 08:34	0° ⊼ ¹	
morning man vi	9034 Apr 03 04:06	0° ∀	.0 3033	desc. node	9036 Nov 01 03:12	23° х 20'14	
	9034 Apr 29 12:06	0° Υ		dese. Hode	9036 Nov 06 20:39	0°る	
desc. node	9034 May 17 10:32	21° Υ 17'19			9036 Dec 03 06:08	0° ≈	
	9034 May 24 16:09	0°B			9036 Dec 31 10:36	0°)	
	9034 Jun 18 07:26	Π°		evening max el	9037 Jan 05 17:00	5°) 12'42	46°12'12
	9034 Jul 12 17:12	$0 \circ \mathfrak{S}$		C	9037 Feb 04 20:14	$0^{\circ}\mathbf{\Upsilon}$	
	9034 Aug 06 01:21	$0^{\circ}\Omega$		greatest brilliancy	9037 Feb 14 10:33	4° Ƴ 38'10	-4.8m
	9034 Aug 30 09:28	0° m)		asc. node	9037 Feb 22 03:14	6° Y 21′50	
asc. node	9034 Sep 07 07:17	9° m 44'48		retrograde	9037 Feb 24 07:47	6° Ƴ 27'32	
morning set	9034 Sep 17 18:54	22° m 40'15		evening set	9037 Mar 11 07:36	2° Y 01'46	
	9034 Sep 23 17:36	0∘ 亚			9037 Mar 14 19:38	30° ₹ ₩	
	9034 Oct 18 01:30	0° M		inferior conj	9037 Mar 17 00:24	28°) 39′26	5°30'23
				minimum elong	9037 Mar 16 13:53	28° ¥ 55'35	5°27'41
superior conj	9034 Oct 24 18:42	8° M ₁7'00	1°23'40	min. Earth dist.	9037 Mar 16 22:44	28°) 41′59	0.27157 AU
minimum elong	9034 Oct 24 14:21	8°M03'35		morning rise	9037 Mar 21 20:00	25°) 46′14	
max. Earth dist.	9034 Oct 24 23:07	8°M30'38	1.73274 AU	direct	9037 Apr 06 18:20	20°) 47′17	
	9034 Nov 11 09:25	0° ∡ ¹		greatest brilliancy	9037 Apr 16 18:40	22°) 41′18	-4.9m
evening rise	9034 Nov 30 09:27	23° ∡ ¹24'28			9037 Apr 30 06:38	0 ° $\mathbf{\gamma}$	
	9034 Dec 05 18:00	0°₹		morning max el	9037 May 27 07:44	23° Y 42'24	46°59'04
desc. node	9034 Dec 28 00:35	27° る 23'18			9037 Jun 02 10:59	0° 8	
	9034 Dec 30 03:37	0° ≈		desc. node	9037 Jun 13 22:35	12° 8 18'43	
	9035 Jan 23 14:06	0° ∀			9037 Jun 29 17:14	0° I I	
	9035 Feb 17 01:28	0° Υ			9037 Jul 25 11:11	0°99	
	9035 Mar 13 15:17	0° 8			9037 Aug 19 15:05	0 $^{\circ}$ Ω	
_	9035 Apr 07 12:17	0°II		_	9037 Sep 13 12:33	0° m)	
asc. node	9035 Apr 19 23:22	14° Ⅱ 45'37		asc. node	9037 Oct 04 19:43	25° m 50'20	
	9035 May 03 02:48	0° ©			9037 Oct 08 05:44	0° ™	
	9035 May 30 12:18	0°N	10010:0		9037 Nov 01 19:02	0°M	
evening max el	9035 Jun 03 11:51	4° Ω 03'04	46~46'10	morning set	9037 Nov 25 11:01	29°M04'55	
	9035 Jul 04 05:26	0° m)			9037 Nov 26 04:54	0° ∡ ¹	

	0027 Dec. 20, 12:10	0°ರ		ovening set	0040 May 26, 17:49	15° Ⅱ 09'53	
max. Earth dist.	9037 Dec 20 12:19 9037 Dec 30 14:16	_	1.72854 AU	evening set inferior conj	9040 May 26 17:48 9040 May 29 16:58	13° Ц 21'07	8°34'38
max. Earm dist.	9037 Dec 30 14.10	12 02/33	1.72634 AU	minimum elong	9040 May 30 00:43	13° Ⅱ 21'07 13° Ⅱ 09'09	8°33'29
superior conj	9038 Jan 01 08:04	14° る 37'16	0°52'18	min. Earth dist.	9040 May 29 19:12	13° Ⅱ 17'39	0.27161 AU
minimum elong	9038 Jan 01 08:04 9038 Jan 01 17:36	15° る 06'46	0°52'10	morning rise	9040 Jun 02 07:42	13 Ⅱ 1737 11° Ⅱ 09'25	0.27101 AC
minimum ciong	9038 Jan 13 18:07	0°≈	0 32 10	direct	9040 Jun 19 09:42	5° Ⅱ 33'43	
desc. node	9038 Jan 24 12:46	13° ≈ 21'33		greatest brilliancy	9040 Jun 29 02:12	7° Ⅱ 19'21	-4.9m
dese. Hode	9038 Feb 06 22:31	0° ₩		desc. node	9040 Jul 11 10:14	13° Ⅱ 41'21	1.9111
evening rise	9038 Feb 08 19:00	2°) 18'10			9040 Jul 31 14:08	0ంత	
<i>y</i> 21	9038 Mar 03 01:25	0° Υ		morning max el	9040 Aug 08 07:48	7°524'09	46°25'31
	9038 Mar 27 03:18	0°8			9040 Aug 30 01:10	0°N	
	9038 Apr 20 06:08	0° I I			9040 Sep 25 21:13	0° m)	
	9038 May 14 13:20	$0 \circ \mathfrak{S}$			9040 Oct 21 16:40	0∘ <u>⊽</u>	
asc. node	9038 May 17 10:46	3° © 32'45		asc. node	9040 Nov 01 08:11	12° ≏ 35'51	
	9038 Jun 08 05:50	$0^{\circ}\Omega$			9040 Nov 15 21:40	0°M	
	9038 Jul 03 15:34	0° m			9040 Dec 10 16:31	0° ∡ ¹	
	9038 Jul 30 12:36	0∘ 亚			9041 Jan 04 04:12	ರ∘ರ	
evening max el	9038 Aug 13 13:50	14° ≙ 26'00	46°03'22		9041 Jan 28 10:59	0° ≈	
	9038 Aug 30 18:57	0° M.		morning set	9041 Feb 03 02:28	7° ≈ 00'16	
desc. node	9038 Sep 06 06:54	4°M57'44		desc. node	9041 Feb 21 01:02	29° ≈ 19′07	
greatest brilliancy	9038 Sep 21 05:06	13°M16'46	-4.8m		9041 Feb 21 14:10	0° ∀	
retrograde	9038 Oct 01 23:08	15°M22'10		max. Earth dist.	9041 Mar 11 12:51	22°) 24'43	1.71675 AU
evening set	9038 Oct 19 16:51	9° ™ 24'02					
inferior conj	9038 Oct 23 11:29	7°M03'30	-8°22'04	superior conj	9041 Mar 14 16:54	26°) 22'34	-0°49'39
minimum elong	9038 Oct 23 06:31	7° ጤ 11'19	8°21'34	minimum elong	9041 Mar 14 06:15	25°) 49′16	0°49'11
min. Earth dist.	9038 Oct 23 03:41	7° ™ 15'46	0.29108 AU		9041 Mar 17 14:22	0° Y	
morning rise	9038 Oct 26 20:18	4°M58'10			9041 Apr 10 12:25	$0^{\circ}S$	
	9038 Nov 06 06:00	30° ₹ Ω		evening rise	9041 Apr 23 19:51	16° 8 42'50	
direct	9038 Nov 14 00:12	28° ≏ 48'07			9041 May 04 09:49	Π °0	
	9038 Nov 22 01:09	0° M			9041 May 28 08:46	0ంత	
greatest brilliancy	9038 Nov 24 03:46	0° ™ 40'41	-4.7m	asc. node	9041 Jun 13 22:31	20° © 38'39	
asc. node	9038 Dec 28 06:16	24°M39'11			9041 Jun 21 11:40	0 $^{\circ}\Omega$	
morning max el	9039 Jan 02 02:55	29° ™ 17'36	45°51'37		9041 Jul 15 21:03	0° m)	
	9039 Jan 02 20:18	0° ∡ 7			9041 Aug 09 16:26	0∘ ⊽	
	9039 Jan 31 04:47	5°0			9041 Sep 04 04:23	0° M ₊	
	9039 Feb 26 05:26	0° ≈		1 1	9041 Sep 30 23:34	0° ⊀ ⁷	
	9039 Mar 23 06:12	0°) €		desc. node	9041 Oct 03 17:55	2° 🗷 57'51	45042115
1 1	9039 Apr 16 18:16	0°Υ 2° Ω 46100		evening max el	9041 Oct 23 11:31	23° ∡ '01'35	45°43'15
desc. node	9039 Apr 19 00:04	2° Y 46′00			9041 Oct 30 23:54	0°궁 21°궁11'45	4.7
	9039 May 10 23:00 9039 Jun 03 23:58	0°B 8°0		greatest brilliancy	9041 Dec 01 17:27 9041 Dec 11 04:47	21° ろ 11'43 22° ろ 49'54	-4./m
	9039 Jun 03 23:38 9039 Jun 28 00:01	0.2 0.П		retrograde		17° る 48'22	
morning set	9039 Jul 28 00:01 9039 Jul 06 11:03	10° © 33'45		evening set inferior conj	9041 Dec 27 10:59 9042 Jan 01 10:59	17 348 22 14° る 46'45	5°21'07
morning set	9039 Jul 00 11:03 9039 Jul 22 01:13	10 3 33 43		minimum elong	9042 Jan 01 20:46	14 84043 14° る 31'29	
asc. node	9039 Aug 09 20:45	23° Ω 23'47		min. Earth dist.	9042 Jan 02 06:50	14° る 15'44	0.28367 AU
ase. Houe	7037 Aug 07 20.43	23 0023 47		morning rise	9042 Jan 07 05:53	11° る 16'41	0.20307 110
superior conj	9039 Aug 14 05:47	28° Ω 49'46	0°10'38	direct	9042 Jan 22 17:36	6°る34'42	
minimum elong	9039 Aug 14 03:22	28° Ω 42'16	0°10'21	asc. node	9042 Jan 24 17:51	6° る 39'28	
behind sun begin	9039 Aug 13 08:51	27° Ω 44'47		greatest brilliancy	9042 Feb 02 21:53	8° ප 52'21	-4.8m
behind sun end	9039 Aug 14 21:53	29° Ω 39'44		<i>y</i>	9042 Mar 04 17:51	0° ≈	
	9039 Aug 15 04:25	0° m)		morning max el	9042 Mar 13 20:13	8° ≈ 46'52	46°35'14
max. Earth dist.	9039 Aug 17 00:11	2° m/ 15'46	1.72546 AU	Č	9042 Apr 02 21:13	0° ∀	
	9039 Sep 08 09:47	0∘ ⊽			9042 Apr 29 02:12	0° Y	
evening rise	9039 Sep 20 16:48	15° ≏ 10'44		desc. node	9042 May 16 12:33	20° Ƴ 44'07	
	9039 Oct 02 17:33	0° M ₊			9042 May 24 04:52	0° 8	
	9039 Oct 27 04:37	0° ∡ ¹			9042 Jun 17 19:21	$\Pi^{\circ}0$	
	9039 Nov 20 20:16	0°రె			9042 Jul 12 04:37	0ං ම	
desc. node	9039 Nov 29 14:46	10° る 36'31			9042 Aug 05 12:25	$0^{\circ}\Omega$	
	9039 Dec 15 17:33	0° ≈			9042 Aug 29 20:16	0° m	
	9040 Jan 09 21:42	0° ∀		asc. node	9042 Sep 06 09:07	9° m ∤17′20	
	9040 Feb 04 12:26	0 ° Υ		morning set	9042 Sep 15 11:17	20° m 29'50	
	9040 Mar 02 02:33	0° 8			9042 Sep 23 04:14	0∘ 亚	
evening max el	9040 Mar 19 14:44	18° 8 25'35	46°52'51		9042 Oct 17 12:04	0° M.	
asc. node	9040 Mar 21 14:13	20° 8 24'05					
	9040 Mar 31 16:50	$\Pi^{\circ}0$		superior conj	9042 Oct 22 12:15	6° M 10′35	
greatest brilliancy	9040 Apr 29 05:44	19° Ⅲ 22'36	-4.9m	minimum elong	9042 Oct 22 07:16	5°M55'14	
retrograde	9040 May 09 00:34	21° Ⅱ 10′50		max. Earth dist.	9042 Oct 22 17:47	6° M 27'40	1.73271 AU

	9042 Nov 10 20:00	0° ∡ 7		greatest brilliancy	0045 Amr. 14 00:25	20°) 18′08	4.0
				greatest brilliancy	9045 Apr 14 08:35	20° π 18'08 0° Υ	-4.9m
evening rise	9042 Nov 28 02:15	21° メ 15'45 0°る			9045 May 01 03:28 9045 May 24 22:00	0° γ 21° Υ 21'12	46950112
desc. node	9042 Dec 05 04:41	0 3 26° る 56'07		morning max el	•	0° 8	40 39 13
desc. node	9042 Dec 27 02:36	20 3 3007 0° ≈		daga mada	9045 Jun 02 07:00	11° 8 36'08	
	9042 Dec 29 14:31 9043 Jan 23 01:21	0 ≈		desc. node	9045 Jun 13 00:37 9045 Jun 29 08:27	0°II	
	9043 Jan 23 01.21 9043 Feb 16 13:11	0 Υ 0° Υ			9045 Jul 25 00:20	0. о п	
	9043 Mar 13 03:40	0°8			9045 Aug 19 03:07	0°Ω 0 €3	
	9043 Apr 07 01:43	0°II			9045 Sep 12 23:51	0°Mp	
asc. node	9043 Apr 19 01:22	0 H 14°H09'47		asc. node	9045 Oct 03 21:40	رانا کا 25° (10 23'06	
asc. node	9043 May 02 18:16	14 ப 0947 0°9		asc. node	9045 Oct 03 21.40 9045 Oct 07 16:35	0° ∵	
	9043 May 30 09:07	0° U			9045 Nov 01 05:36	0° m	
ovanina may al	•	1° Ω 43'57	16017121	morning set		26°M58'53	
evening max el	9043 Jun 01 02:16		40 4/31	morning set	9045 Nov 23 04:31	20 IIL3633 0° √ 1	
	9043 Jul 05 21:22 9043 Jul 10 14:30	0° Mp 2° Mp 08′10	-4.8m		9045 Nov 25 15:20 9045 Dec 19 22:44	0° ⊼ .	
greatest brilliancy	9043 Jul 21 10:42		-4.6111	mov. Forth dist		0 3 10° 3 19'09	1.72885 AU
retrograde		4° Mp 19'58		max. Earth dist.	9045 Dec 28 07:04	10 01909	1.72865 AU
evening set	9043 Aug 05 06:16	0° Mp 00'58			0045 D 20 00-14	120=22(127	0054157
JJ.	9043 Aug 05 06:59	30°R Ω		superior conj	9045 Dec 30 00:14 9045 Dec 30 09:54	12° る 26'27	
desc. node	9043 Aug 08 21:36	27° £ 54'52	0.27012 ATT	minimum elong		12° る 56'22	0°54'51
min. Earth dist.	9043 Aug 11 01:36	26° Ω 35'08			9046 Jan 13 04:36	0°≈	
inferior conj	9043 Aug 11 13:56	26° Ω 16'04		desc. node	9046 Jan 23 14:40	12°≈54'45	
minimum elong	9043 Aug 11 12:23	26° Ω 18'28	0°40'03	evening rise	9046 Feb 06 09:17	0°) €00'27	
morning rise	9043 Aug 17 19:05	22° Ω 35'30			9046 Feb 06 09:09	0°) €	
direct	9043 Sep 01 13:43	18° Ω 20'24			9046 Mar 02 12:13	0° Υ	
greatest brilliancy	9043 Sep 11 08:35	20° Ω 04'42	-4.8m		9046 Mar 26 14:20	0°8	
	9043 Sep 29 03:26	0° m ∕			9046 Apr 19 17:29	$\Pi^{\circ}0$	
morning max el	9043 Oct 20 10:18	18° m 16'01	45°46'02		9046 May 14 01:12	0 \circ \odot	
	9043 Nov 01 05:42	0∘ ⊽		asc. node	9046 May 16 12:50	3° © 02'35	
	9043 Nov 28 23:48	0°M₊			9046 Jun 07 18:30	$0^{\circ}\Omega$	
asc. node	9043 Nov 29 20:31	0°M58'18			9046 Jul 03 05:45	0° m	
	9043 Dec 25 00:23	0° ∡ ¹			9046 Jul 30 06:23	0∘ ত	
	9044 Jan 19 03:41	0°ප		evening max el	9046 Aug 11 05:53	12° ≏ 14'45	46°04'49
	9044 Feb 12 18:36	0° ≈			9046 Aug 31 04:45	0°M₊	
	9044 Mar 08 01:49	0° ℋ		desc. node	9046 Sep 05 08:51	3° M 47'14	
desc. node	9044 Mar 20 13:26	15°) 31′12		greatest brilliancy	9046 Sep 18 20:59	11° M 07'51	-4.8m
	9044 Apr 01 03:51	0 ° $\mathbf{\Upsilon}$		retrograde	9046 Sep 29 15:13	13°ML13'27	
morning set	9044 Apr 18 17:43	22° Y 00'54		evening set	9046 Oct 17 06:35	7° IL 19'44	
	9044 Apr 25 02:23	9° 8		inferior conj	9046 Oct 21 03:51	4°M55'03	-8°16'53
	9044 May 18 23:15	Π $^{\circ}0$		minimum elong	9046 Oct 20 22:12	5°M03'56	8°16'16
				min. Earth dist.	9046 Oct 20 18:59	5° ™ 09'00	0.29086 AU
superior conj	9044 May 29 06:50	12° Ⅱ 57'56	-1°21'49	morning rise	9046 Oct 24 13:58	2°M47'34	
minimum elong	9044 May 29 14:55	13° Ⅲ 23'18	1°21'55		9046 Oct 29 14:57	30° ₽ Ω	
max. Earth dist.	9044 May 30 23:53	15° Ⅱ 06'52	1.71352 AU	direct	9046 Nov 11 16:34	26° ≙ 40'22	
	9044 Jun 11 20:33	0°ಅ		greatest brilliancy	9046 Nov 21 18:32	28° ₽ 31'12	-4.7m
	9044 Jul 05 20:08	$0^{\circ}\Omega$			9046 Nov 25 10:28	0°M	
evening rise	9044 Jul 08 11:53	3° Ω 18'45		asc. node	9046 Dec 27 08:17	23°M49'13	
asc. node	9044 Jul 11 10:29	6° Ω 58'38		morning max el	9046 Dec 30 17:35	27°M04'16	45°50'25
	9044 Jul 29 23:17	0° m			9047 Jan 02 17:05	0° ∡ ¹	
	9044 Aug 23 07:04	0° ⊽			9047 Jan 30 19:48	o°ප	
	9044 Sep 16 21:06	0°M₊			9047 Feb 25 18:26	0° ≈	
	9044 Oct 11 20:21	0° ∡ ¹			9047 Mar 22 18:13	0° ∀	
desc. node	9044 Oct 31 05:12	22° ҂ ¹49'13			9047 Apr 16 05:45	$0^{\circ}\mathbf{\Upsilon}$	
	9044 Nov 06 09:36	0°రె		desc. node	9047 Apr 18 02:07	2° Y 17'01	
	9044 Dec 02 21:26	0° ≈			9047 May 10 10:08	0°8	
	9044 Dec 31 07:50	0°) €			9047 Jun 03 10:52	0°II	
evening max el	9045 Jan 03 08:20	2°) 57′53	46°10'41		9047 Jun 27 10:47	0ಂತಾ	
C	9045 Feb 06 16:35	0°Υ		morning set	9047 Jul 04 00:24	8° © 12'12	
greatest brilliancy	9045 Feb 11 23:13	2° Υ 15'17	-4.8m	C .	9047 Jul 21 11:51	$0^{\circ}\Omega$	
asc. node	9045 Feb 21 05:06	4° Υ 04'09	- 	asc. node	9047 Aug 08 22:36	22° Ω 56'48	
retrograde	9045 Feb 21 21:08	4° Υ 04'41				. 565516	
	9045 Mar 08 05:22	30° ₹		superior conj	9047 Aug 11 20:41	26° Ω 34'19	0°07'07
evening set	9045 Mar 08 18:15	29° H 42'36		minimum elong	9047 Aug 11 19:04	26° Ω 29'18	0°06'51
inferior conj	9045 Mar 14 13:35	26° X 16'24	5°10'54	behind sun begin	9047 Aug 10 21:08	25° Ω 21'13	3 00 31
minimum elong	9045 Mar 14 03:25	26°\(\)32'03	5°08'12	behind sun end	9047 Aug 10 21:00 9047 Aug 12 17:00	27° Ω 37'24	
min. Earth dist.	9045 Mar 14 03:23 9045 Mar 14 12:14	26° X 18'30		max. Earth dist.	9047 Aug 12 17:00 9047 Aug 14 17:02	0° Mp 06'26	1.72500 AU
morning rise	9045 Mar 19 12:28	23° X 18'31	0.2/1/2/AU	max. Larm tist.	9047 Aug 14 17:02 9047 Aug 14 14:58	0°10020	1.72300 AU
direct	9045 Mai 19 12.28 9045 Apr 04 08:31	18° H 24'05			9047 Aug 14 14.38 9047 Sep 07 20:17	0∘ ⊽ ० ार्ष	
ancei	70-13 14pt 0- 00.31	10 /(240)			70-7 Бер 07 20.17	· –	

evening rise	9047 Sep 18 09:49	13° ≏ 02'44		desc. node	9050 May 15 14:32	20° Y 11′01	
	9047 Oct 02 04:05	0°M			9050 May 23 17:32	0°8	
	9047 Oct 26 15:20	0° × ⁷			9050 Jun 17 07:18	0°II	
	9047 Nov 20 07:21	0°ਤ			9050 Jul 11 16:04	0.© 0 H	
desc. node	9047 Nov 28 16:50	10° る 08'47			9050 Aug 04 23:30	$0^{\circ}\Omega$	
	9047 Dec 15 05:15	0° ≈			9050 Aug 29 07:06	0° m ⁄	
	9048 Jan 09 10:22	0° ∀		asc. node	9050 Sep 05 11:05	8° m 50'10	
	9048 Feb 04 02:49	0° Y		morning set	9050 Sep 13 03:23	18° Mp 18′25	
	9048 Mar 01 20:30	0° ႘		· ·	9050 Sep 22 14:55	0∘ ⊽	
evening max el	9048 Mar 17 03:14	15° 8 59'37	46°51'51		9050 Oct 16 22:41	0°M	
Č		_	40 3131		9030 Oct 10 22.41	O IIG	
asc. node	9048 Mar 20 16:16	19° 8 30'34					
	9048 Mar 31 23:04	Π $^{\circ}0$		superior conj	9050 Oct 20 05:38	4°M03'31	1°21'55
greatest brilliancy	9048 Apr 26 19:56	16° Ⅱ 58'49	-4.9m	minimum elong	9050 Oct 20 00:03	3°M46'18	1°21'58
retrograde	9048 May 06 13:02	18° Ⅱ 45'54		max. Earth dist.	9050 Oct 20 13:44	4°M28'27	1.73265 AU
evening set	9048 May 24 09:39	12° ∏ 41′00			9050 Nov 10 06:37	0° ∡ ¹	
inferior conj	9048 May 27 05:56	10° ∏ 56'36	8°42'59	evening rise	9050 Nov 25 19:10	19° √ 07'16	
· ·	•			evening rise			
minimum elong	9048 May 27 12:55	10° Ⅱ 45'49	8°42'02		9050 Dec 04 15:24	0°る	
min. Earth dist.	9048 May 27 08:24	10° Ⅲ 52'47	0.27156 AU	desc. node	9050 Dec 26 04:29	26° る 28'29	
morning rise	9048 May 30 16:12	8° Ⅱ 51'21			9050 Dec 29 01:26	0° ≈	
direct	9048 Jun 16 21:55	3° Ⅱ 09′02			9051 Jan 22 12:36	0° ∀	
greatest brilliancy	9048 Jun 26 15:28	4° Ⅱ 55'14	-4.9m		9051 Feb 16 00:55	$0^{\circ}\mathbf{Y}$	
desc. node	9048 Jul 10 12:10	12° Ⅱ 19′20			9051 Mar 12 16:06	0°8	
dese. Hode	9048 Jul 31 16:10	0°95				0°II	
			4.600.711.0	,	9051 Apr 06 15:20		
morning max el	9048 Aug 05 20:34	5° © 00'53	46°27'12	asc. node	9051 Apr 18 03:23	13° ∏ 33′20	
	9048 Aug 29 18:03	$0^{\circ}\Omega$			9051 May 02 10:10	0	
	9048 Sep 25 11:01	O° Mp		evening max el	9051 May 29 17:24	29° © 25'37	46°48'35
	9048 Oct 21 04:57	0∘ ত			9051 May 30 07:07	$\mathfrak{O}^{\circ}\mathfrak{O}$	
asc. node	9048 Oct 31 10:12	12° ഫ 06'30		greatest brilliancy	9051 Jul 08 05:25	29° Ω 49'25	-4.8m
	9048 Nov 15 09:06	0°M		· ·	9051 Jul 08 16:35	0° m)	
	9048 Dec 10 03:29	0° ⊼		retrograde	9051 Jul 19 02:02	2°Mp01'26	
				retrograde		-•	
	9049 Jan 03 14:55	0°る			9051 Jul 29 01:13	30°₽ Ω	
	9049 Jan 27 21:36	0° ≈		evening set	9051 Aug 02 21:13	27° Ω 41'54	
morning set	9049 Jan 31 17:11	4° ≈ 43'57		desc. node	9051 Aug 07 23:31	24° Ω 42'16	
desc. node	9049 Feb 20 02:55	28° ≈ 51'54		min. Earth dist.	9051 Aug 08 16:19	24° Ω 16′23	0.27769 AU
	9049 Feb 21 00:47	0° ∀		inferior conj	9051 Aug 09 04:12	23° Ω 58′03	-0°18'01
max. Earth dist.	9049 Mar 09 00:34	19° ¥ 57'51	1.71720 AU	minimum elong	9051 Aug 09 03:30	23° Ω 59'07	0°17'58
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		morning rise	9051 Aug 15 10:26	20° Ω 16'31	
	0040 M 12 05-10	2201/57/22	0946127		•		
superior conj	9049 Mar 12 05:10	23°) 57'23		direct	9051 Aug 30 03:57	16° Ω 02'57	
minimum elong	9049 Mar 11 18:59	23° ∺ 25'32	0°45'58	greatest brilliancy	9051 Sep 08 22:18	17° Ω 47'23	-4.8m
	9049 Mar 17 01:04	0° Y			9051 Sep 29 17:50	0° m y	
	9049 Apr 09 23:12	8°		morning max el	9051 Oct 18 01:56	16° Mp 04'03	45°46'47
evening rise	9049 Apr 21 06:55	14° 8 12'54			9051 Nov 01 00:27	0∘ ত	
Ü	9049 May 03 20:42	0° Ⅱ		asc. node	9051 Nov 28 22:25	0°M23'00	
	9049 May 27 19:46	0. 0		use. Houe	9051 Nov 28 14:16	0°M	
1	•						
asc. node	9049 Jun 13 00:28	20°510'06			9051 Dec 24 13:05	0° ∡	
	9049 Jun 20 22:53	$0 {\circ} \Omega$			9052 Jan 18 15:30	0°₹	
	9049 Jul 15 08:38	0° m)			9052 Feb 12 05:57	0° ≈	
	9049 Aug 09 04:42	0∘ ত			9052 Mar 07 12:55	0° ∀	
	9049 Sep 03 17:58	0°M		desc. node	9052 Mar 19 15:31	15°) 03′24	
	9049 Sep 30 16:08	0° ∡ 7			9052 Mar 31 14:49	0°Υ	
desc. node	9049 Oct 02 19:59	2° ∡ 18'08		morning set	9052 Apr 16 04:37	19° Υ 30'23	
			45042120	morning set	•		
evening max el	9049 Oct 21 01:57	20° ∡ ′48′00	45°43'20		9052 Apr 24 13:17	0°B	
	9049 Oct 31 02:42	0°ಕ			9052 May 18 10:08	Π $^{\circ}0$	
greatest brilliancy	9049 Nov 29 07:47	18° る 59'09	-4.7m				
retrograde	9049 Dec 08 20:06	20° る 38'16		superior conj	9052 May 26 18:21	10° Ⅲ 29'05	-1°23'09
evening set	9049 Dec 25 05:05	15° ට 31'50		minimum elong	9052 May 27 01:37	10° Ⅱ 51'57	1°23'17
inferior conj	9049 Dec 30 02:28	12° る 34'05	-5°37'10	max. Earth dist.	9052 May 28 10:41		1.71335 AU
•		12°る18'34		Durin diot.	•	0°95	1., 1555 110
minimum elong	9049 Dec 30 12:25				9052 Jun 11 07:26		
min. Earth dist.	9049 Dec 30 22:14		0.28421 AU		9052 Jul 05 07:03	0°Ω	
morning rise	9050 Jan 04 19:09	9° る 07'22		evening rise	9052 Jul 06 00:37	0° Ω 54'46	
direct	9050 Jan 20 09:26	4° る 21'15		asc. node	9052 Jul 10 12:21	6° Ω 30'24	
asc. node	9050 Jan 23 19:41	4° る 35'02			9052 Jul 29 10:18	0° ™	
greatest brilliancy	9050 Jan 31 14:12	6° る 39'37	-4.8m		9052 Aug 22 18:16	0∘ ⊽	
	9050 Mar 04 19:04	0° ≈			9052 Sep 16 08:38	0°M	
morning max el	9050 Mar 11 12:04	6° ≈ 32'12	46°33'38		9052 Oct 11 08:33	0° ⊼	
morning mux or		0 ≈ 32 12 0°) €	10 55 50	desc. node	9052 Oct 11 08:33 9052 Oct 30 07:13	22° √ 17'04	
	9050 Apr 02 13:48	0° Υ		uesc. noue			
	9050 Apr 28 16:07	UI			9052 Nov 05 23:02	0°ප	

	9052 Dec 02 13:21	0° ≈			9055 May 09 21:35	0° ႘	
	9052 Dec 31 06:18	0° ∺			9055 Jun 02 22:04	0°II	
evening max el	9052 Dec 31 23:24	0° ¥ 41'37	46°09'12		9055 Jun 26 21:49	0.බ ⊙ ව	
greatest brilliancy	9053 Feb 09 12:38	29°) 52'52		morning set	9055 Jul 01 14:01	5° © 50'34	
,	9053 Feb 09 20:54	$0^{\circ}\Upsilon$		Ü	9055 Jul 20 22:46	$0^{\circ}\Omega$	
retrograde	9053 Feb 19 10:12	1° Y 41'32		asc. node	9055 Aug 08 00:37	22° Ω 29'25	
asc. node	9053 Feb 20 07:10	1° Y 40'38					
	9053 Feb 28 13:37	30° ₹ ₩		superior conj	9055 Aug 09 11:47	24° Ω 18'37	0°03'35
evening set	9053 Mar 06 05:20	27° ¥ 23′02		minimum elong	9055 Aug 09 10:59	24° Ω 16′09	0°03'23
inferior conj	9053 Mar 12 02:57	23° ¥ 53′21	4°51'00	behind sun begin	9055 Aug 08 11:21	23° Ω 02'44	
minimum elong	9053 Mar 11 17:12	24° ∺ 08′22	4°48'21	behind sun end	9055 Aug 10 10:38	25° Ω 29'33	
min. Earth dist.	9053 Mar 12 02:11	23° ¥ 54'32	0.27182 AU	max. Earth dist.	9055 Aug 12 08:53	. • • • • •	1.72459 AU
morning rise	9053 Mar 17 04:56	20°) € 50'47			9055 Aug 14 01:47	0° m/y	
direct	9053 Apr 01 22:26	16°) €00'57	4.0		9055 Sep 07 07:06	0° ⊽	
greatest brilliancy	9053 Apr 11 22:54	17° ¥ 55'09 0° Υ	-4.9m	evening rise	9055 Sep 16 02:51	10° ⊆ 53'40	
morning max el	9053 May 01 19:02 9053 May 22 11:13	18° Υ 56'51	46°59'15		9055 Oct 01 15:01 9055 Oct 26 02:30	0° M 0° ⊀	
morning max er	9053 Jun 02 02:33	0° 8	40 39 13		9055 Nov 19 18:55	0°중	
desc. node	9053 Jun 12 02:33	10° 8 53'19		desc. node	9055 Nov 19 18:39	9° る 38'55	
dese. Hode	9053 Jun 28 23:40	0°II		dese. Hode	9055 Dec 14 17:26	0°≈	
	9053 Jul 24 13:42	0. 0			9056 Jan 08 23:34	0° ∀	
	9053 Aug 18 15:28	$0^{\circ}\Omega$			9056 Feb 03 17:48	0°Υ	
	9053 Sep 12 11:34	0° m/			9056 Mar 01 15:21	0°8	
asc. node	9053 Oct 02 23:43	24° m 54'55		evening max el	9056 Mar 14 15:26	13° 8 31'49	46°50'56
	9053 Oct 07 03:51	0∘ ⊽		asc. node	9056 Mar 19 18:19	18° 8 34'45	
	9053 Oct 31 16:34	0° M			9056 Apr 01 08:20	$\Pi^{\circ}0$	
morning set	9053 Nov 20 21:35	24° M $50'21$		greatest brilliancy	9056 Apr 24 09:40	14° ∏ 33'19	-4.9m
	9053 Nov 25 02:09	0°⊀		retrograde	9056 May 04 01:45	16° Ⅱ 20′02	
	9053 Dec 19 09:32	0°る		evening set	9056 May 22 01:13	10° ∏ 11'10	
max. Earth dist.	9053 Dec 25 22:31	8° る 05'07	1.72915 AU	inferior conj	9056 May 24 18:51	8° Ⅱ 30'57	
	0052 D 27 16 12	10071400	0057122	minimum elong	9056 May 25 01:03	8° Ⅱ 21'25	8°49'38
superior conj	9053 Dec 27 16:13 9053 Dec 28 01:59	10°る14'02 10°る44'13	0°57'32 0°57'27	min. Earth dist.	9056 May 24 21:24	8° П 27'03 6° П 32'08	0.27150 AU
minimum elong	9054 Jan 12 15:29	10 3 44 13	0 3/2/	morning rise direct	9056 May 28 00:52 9056 Jun 14 10:10	0° П 43'06	
desc. node	9054 Jan 22 16:34	0 ∞ 12°≈26'49		greatest brilliancy	9056 Jun 24 04:34	0°П43'00 2°П30'05	-4.9m
evening rise	9054 Feb 03 23:33	27°≈41'32		desc. node	9056 Jul 09 14:04	10° П 59'05	4.7111
	9054 Feb 05 20:09	0° ∀			9056 Jul 31 17:07	0.2e	
	9054 Mar 01 23:23	$0^{\circ}\Upsilon$		morning max el	9056 Aug 03 09:58	2° © 38'28	46°29'02
	9054 Mar 26 01:43	9° 8			9056 Aug 29 10:49	$0^{\circ}\Omega$	
	9054 Apr 19 05:10	Π $^{\circ}0$			9056 Sep 25 00:54	0° m	
	9054 May 13 13:22	0 \circ \odot			9056 Oct 20 17:26	0∘ ⊽	
asc. node	9054 May 15 14:46	2° © 31'07		asc. node	9056 Oct 30 12:05	11° ≏ 35'55	
	9054 Jun 07 07:31	0 $^{\circ}\Omega$			9056 Nov 14 20:50	0° M	
	9054 Jul 02 20:23	0° m			9056 Dec 09 14:47	0° ∡	
	9054 Jul 30 01:03	0∘ ⊽			9057 Jan 03 02:01	0°る	
evening max el	9054 Aug 08 20:56	9° Ω 59'35	46°06'00		9057 Jan 27 08:35	0°≈	
11-	9054 Aug 31 18:59	0°M		morning set	9057 Jan 29 07:43	2°≈26'06	
desc. node greatest brilliancy	9054 Sep 04 10:56 9054 Sep 16 12:54	2°M33'08 8°M56'52	1 9m	desc. node	9057 Feb 19 04:56 9057 Feb 20 11:44	28°≈24'04 0°) €	
retrograde	9054 Sep 10 12:54 9054 Sep 27 06:48	11°M02'36	-4.0111	max. Earth dist.	9057 Mar 06 14:29		1.71762 AU
evening set	9054 Oct 14 19:51	5°M13'28		max. Earth dist.	9037 Wai 00 14.29	17 1 30 39	1./1/02 AU
inferior conj	9054 Oct 18 19:59	2°M44'28	-8°10'51	superior conj	9057 Mar 09 17:12	21°) 30'33	-0°43'08
minimum elong	9054 Oct 18 13:43	2°M54'21	8°10'07	minimum elong	9057 Mar 09 07:32	21°) (3033	
min. Earth dist.	9054 Oct 18 10:25	2°M59'32	0.29065 AU		9057 Mar 16 12:03	0° Υ	
morning rise	9054 Oct 22 07:42	0°M34'26			9057 Apr 09 10:16	0°8	
	9054 Oct 23 06:47	30° ₹ Ω		evening rise	9057 Apr 18 18:00	11° 8 42'13	
direct	9054 Nov 09 08:13	24° ≏ 30'18			9057 May 03 07:52	$\Pi^{\circ}0$	
greatest brilliancy	9054 Nov 19 09:47	26° ≏ 20'16	-4.7m		9057 May 27 07:04	0 \circ \odot	
	9054 Nov 27 09:19	0° M.		asc. node	9057 Jun 12 02:20	19° 5 40'31	
asc. node	9054 Dec 26 10:12	22°M58'21			9057 Jun 20 10:22	0 ° Ω	
morning max el	9054 Dec 28 07:31	24°M47'36	45°49'23		9057 Jul 14 20:28	0° m y	
	9055 Jan 02 13:46	0° ∡			9057 Aug 08 17:12	0∘ 亚	
	9055 Jan 30 11:05	ි ව°0			9057 Sep 03 07:51	0°M 0°. 7	
	9055 Feb 25 07:44	0° ≈ 0° ∀		desc. node	9057 Sep 30 09:14 9057 Oct 01 21:57	0°⊀ 1°⊀³37′10	
	9055 Mar 22 06:35 9055 Apr 15 17:33	0°π 0°Υ		evening max el	9057 Oct 01 21:57 9057 Oct 18 17:04	18° ½ '35'33	15012115
desc. node	9055 Apr 17 04:01	0 γ 1° Υ 46'28		evening max ci	9057 Oct 31 07:37	0。名	-U10 TO 10
acse. Hode	7055 ггрт 17 04.01	1 170 20			705 / OCC 51 07.57	v O	

contenged 0957 Dec 23 pol 905 Pol 23 pol 23 pol 23 pol 905 Pol 23 pol 23 pol 23 pol 905 Pol 23 pol 23 pol 23 pol 23 pol 905 Pol 23 pol 23 pol 23 pol 23 pol 905 Pol 23 po	greatest brilliancy	9057 Nov 26 21:29	16° පි 45'00	-4.7m		9060 May 17 21:02	0° I I	
inferior 99/5 Dec 28/103 10°5 Dec 28/103 </td <td>retrograde</td> <td>9057 Dec 06 11:31</td> <td>18°る25'20</td> <td></td> <td></td> <td></td> <td></td> <td></td>	retrograde	9057 Dec 06 11:31	18° る 25'20					
minimathunding 9957 Dec 28 1935 976172 Sept 300 1928 1971 August 1971	evening set	9057 Dec 22 23:08	13° ⋜ 14′04		superior conj	9060 May 24 05:33	7° Ⅱ 59'18	-1°24'20
min trailed 987 ber 28 1308 949 by 19 28 1970 cevering rise 980 bord 10 1818 by 28 28 28 29073 Commoning rise 980 by 18 20 1214 275 2978 Commoning rise 980 by 18 20 1214 275 2978 Commoning rise 980 by 10 10 1125 0° AU 20 12 12 12 12 12 12 12 12 12 12 12 12 12	inferior conj	9057 Dec 27 17:48	10° පි 20'04	-5°52'46	minimum elong	9060 May 24 11:56	8° Ⅱ 19'21	1°24'29
moming to moment 0008, m.m. 18 of 10 2008 10 2008 10 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008 10 2008	minimum elong	9057 Dec 28 03:53	10° る 04'22	5°50'14	max. Earth dist.	9060 May 25 20:12	10° Ⅱ 00'43	1.71312 AU
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1	asc. node	•	8° Mp 22'50		asc. node	9061 Feb 19 09:10		
Poss	morning set	•	16°Mp07'41		evening set	9061 Mar 03 16:35		
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9059 15 15 15 15 15 15 15		9058 Dec 28 12:31				9061 Jun 28 14:38		
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greatest brilliancy 9059 May 30 06:07 0°Ω -4.8m 9061 Nov 24 12:43 0°X -1.2944 AU retrograde 9059 Jul 16 17:20 29°Ω4237 max. Earth dist 9061 Dec 23 15:03 5°S5'22 1.72944 AU evening set 9059 Jul 31 12:27 25°Ω2237		•						
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retrograde evening set 9059 Jul 16 17:20 29° Ω42'37 80 80'41'0 8061 Dec 23 15:03 5° \(\frac{2}{5}\) 55'21 1.72944 AU evening set 9059 Jul 31 12:27 25° \(\frac{2}{3}\) 21° \(\frac{2}{3}\) 31 12:27 25° \(\frac{2}{3}\) 21° \(\frac{2}{3}\) 35'3 0° \(\frac{2}{3}\) 31 12:27 30' \(\frac{2}{3}\) 35'3 0° \(\frac{2}{3}\) 35'3 80' \(\frac{2}\) 35'3 80' \(\frac{2}{3}\) 30' \(\frac{2}{3}\) 35'3 80' \(\frac{2}{3}\) 30' \(\frac{2}{3}\) 30' \(\frac{2}{3}\) 35'3 80' \(\frac{2}{3}\) 30' \(\frac{2}{3}\) 30' \(\frac{2}{3}\) 35'3 80' \(\frac{2}{3}\) 30' \(\f		•						
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morning rise	9062 Oct 17 10:29 9062 Oct 20 01:42	30° R		minimum elong	9065 Mar 06 20:41 9065 Mar 15 22:38	18° ¥ 38'21 0° ⋎	0°39'19
direct	9062 Nov 06 23:35	22° Ω 21'15			9065 Apr 08 20:55	0°8	
greatest brilliancy	9062 Nov 17 01:31	24° £ 11'04	-4.7m	evening rise	9065 Apr 16 05:40	9° 8 14'45	
1	9062 Nov 28 16:05	0°M			9065 May 02 18:36	0° ©	
asc. node	9062 Dec 25 12:13 9062 Dec 25 21:58	22°M09'49 22°M33'26	45°48'35	asc. node	9065 May 26 17:57 9065 Jun 11 04:25	0°9 19°9512'42	
morning max el	9062 Dec 23 21.38 9063 Jan 02 09:18	22 IIL33 20 0° √	43 46 33	asc. node	9065 Jun 19 21:29	19 3 12 42 0° Ω	
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	9063 May 09 08:42	9° 8		evening max el	9065 Oct 16 08:51	16° ₹ 25'34	45°43'23
	9063 Jun 02 09:01	$\Pi^{\circ}0$			9065 Oct 31 14:14	0°ප	
	9063 Jun 26 08:37	0 \circ \odot		greatest brilliancy	9065 Nov 24 11:29	14° る 32'33	-4.7m
morning set	9063 Jun 29 03:01	3° 5 27'32		retrograde	9065 Dec 04 03:02	16° る 13'40	
	9063 Jul 20 09:26	0 $^{\circ}$ Ω		evening set	9065 Dec 20 17:22	10° る 57'52	
	00/2 4 07 02 20	220 001152	0000102	inferior conj	9065 Dec 25 09:14	8° る 07'31	
superior conj	9063 Aug 07 02:20	22° Ω 01'53		minimum elong	9065 Dec 25 19:23	7°る51'41	6°05'16
minimum elong	9063 Aug 07 02:21	22° Ω 01'57	0°00'12	min. Earth dist.	9065 Dec 26 03:52	7°る38'27 4°る48'03	0.28530 AU
behind sun begin behind sun end	9063 Aug 06 02:24 9063 Aug 08 02:18	20° Ω 47'32 23° Ω 16'21		morning rise	9065 Dec 30 21:00 9066 Jan 13 11:20	4° ⊙ 4803	
asc. node	9063 Aug 07 02:37	23° Ω 02'48		direct	9066 Jan 15 18:08	29° ₹ 753'41	
max. Earth dist.	9063 Aug 09 22:37		1.72414 AU	direct	9066 Jan 18 01:31	0°る	
man zam ust.	9063 Aug 13 12:21	0° m)	1.,2111110	asc. node	9066 Jan 21 23:46	0° ろ 38'38	
	9063 Sep 06 17:38	0∘ <u>⊽</u>		greatest brilliancy	9066 Jan 26 20:57	2° ට 11'00	-4.8m
evening rise	9063 Sep 13 19:32	8° ≏ 44'32		,	9066 Mar 04 18:22	0° ≈	
_	9063 Oct 01 01:38	0° M		morning max el	9066 Mar 06 20:14	2° ≈ 03'40	46°30'26
	9063 Oct 25 13:21	0° ∡ ¹			9066 Apr 01 22:18	0° ∀	
	9063 Nov 19 06:08	5°0			9066 Apr 27 19:38	0° Υ	
desc. node	9063 Nov 26 20:40	9° ට 10'44		desc. node	9066 May 13 18:25	19° Ƴ 05'06	
	9063 Dec 14 05:17	0° ≈			9066 May 22 18:38	0°8	
	9064 Jan 08 12:26	0°) €			9066 Jun 16 06:59	0°II	
	9064 Feb 03 08:29	0° Υ			9066 Jul 10 14:48	0°©	
	9064 Mar 01 10:09	0°8	46°49'59		9066 Aug 03 21:34	0° N	
evening max el asc. node	9064 Mar 12 04:09 9064 Mar 18 20:11	11° 8 07'05 17° 8 38'58	40-49-39	asc. node	9066 Aug 28 04:41 9066 Sep 03 14:55	0° m)	
asc. node	9064 Apr 01 19:59	0° Ⅱ		morning set	9066 Sep 08 12:02	7° Mp 55'50 13° Mp 57'05	
greatest brilliancy	9064 Apr 21 22:32	12° Ⅱ 08'20	-4 9m	morning set	9066 Sep 21 12:11	0° ʊ	
retrograde	9064 May 01 14:55	13° ∏ 55'39	4.7111		7000 БСР 21 12.11	· –	
evening set	9064 May 19 16:25	7° ∏ 43'02		superior conj	9066 Oct 15 16:39	29° £ 50'19	1°19'41
inferior conj	9064 May 22 07:47	6°∏06'24	8°56'42	minimum elong	9066 Oct 15 09:57	29° £ 29'40	1°19'41
minimum elong	9064 May 22 13:08	5° Ⅱ 58'10	8°56'03	S	9066 Oct 15 19:47	0° M .	
min. Earth dist.	9064 May 22 09:57	6° Ⅲ 03′04	0.27152 AU	max. Earth dist.	9066 Oct 16 08:25	0°M38'55	1.73245 AU
morning rise	9064 May 25 09:52	4° Ⅱ 13'38			9066 Nov 09 03:46	0° ∡ ¹	
	9064 Jun 02 20:40	30° ₹ 8		evening rise	9066 Nov 21 05:11	14° ≯ 51′03	
direct	9064 Jun 11 22:58	28° 8 18'13			9066 Dec 03 12:48	0° ට	
	9064 Jun 21 10:53	0°Щ		desc. node	9066 Dec 24 08:28	25° ප 33'41	
greatest brilliancy	9064 Jun 21 17:16	0° П 05'32	-4.9m		9066 Dec 27 23:21	0° ≈	
desc. node	9064 Jul 08 16:11	9° Ⅱ 42'38			9067 Jan 21 11:16	0°) €	
mamina may al	9064 Jul 31 16:36	0°©10'0°	46920142		9067 Feb 15 00:37	0° Υ	
morning max el	9064 Aug 01 00:21	0° Ω 0° © 19'08	46°30'43		9067 Mar 11 17:17	0° Ⅱ 0°8	
	9064 Aug 29 03:01 9064 Sep 24 14:23	0°Mp		asc. node	9067 Apr 05 18:56 9067 Apr 16 07:19	0 II 12°II19′23	
	9064 Oct 20 05:32	0∘ ত بالا		asc. Houc	9067 May 01 18:41	0°9	
asc. node	9064 Oct 29 14:02	11° ≏ 06'43		evening max el	9067 May 25 00:18	24°951'02	46°50'41
	9064 Nov 14 08:09	0°M		8 4	9067 May 30 05:39	0°Ω	
	9064 Dec 09 01:41	0° ∡ 7		greatest brilliancy	9067 Jul 03 12:33	25° Ω 14'38	-4.8m
	9065 Jan 02 12:41	5°0		retrograde	9067 Jul 14 08:19	27° £ 25′02	
morning set	9065 Jan 26 22:42	0° ≈ 10'59		evening set	9067 Jul 29 04:01	23° £ 04'36	
	9065 Jan 26 19:09	0° ≈		inferior conj	9067 Aug 04 08:55	19° Ω 23′05	0°26'53
desc. node	9065 Feb 18 06:52	27° ≈ 57'12		minimum elong	9067 Aug 04 09:57	19° Ω 21'30	0°26'22
	9065 Feb 19 22:17	0° ∀		min. Earth dist.	9067 Aug 03 22:09	19° Ω 39'44	0.27680 AU
max. Earth dist.	9065 Mar 04 04:52	15° ∺ 18'56	1.71800 AU	desc. node	9067 Aug 06 03:31	18° Ω 17'35	
	006536 07	1001/0 ===	00201:-	morning rise	9067 Aug 10 16:39	15° Ω 39'52	
superior conj	9065 Mar 07 05:46	19° ⊁ 06'43	-0°39'47	direct	9067 Aug 25 09:03	11° Ω 29'37	

greatest brilliancy	9067 Sep 04 01:35	13° Ω 13'07	4 9m		9070 May 12 13:42	0°©	
greatest offinality	9067 Sep 30 11:54	0°m	-4.0111	asc. node	9070 May 12 13:42 9070 May 13 18:44	1°\$28'38	
morning max el	9067 Oct 13 07:21	11° Mp 36'20	45040!21	asc. node	9070 Jun 06 09:38	1 3 28 38	
morning max er		0° ⊡	43 46 21			oor oomp	
1	9067 Oct 31 12:09				9070 Jul 02 02:01		
asc. node	9067 Nov 27 02:23	29° Ω 14'35			9070 Jul 29 15:38	0° 亞	46000105
	9067 Nov 27 18:22	0°M.		evening max el	9070 Aug 04 01:29	5° £ 26'17	46°09'05
	9067 Dec 23 13:58	0° ⊼		desc. node	9070 Sep 02 14:50	29° ₽ 59'20	
	9068 Jan 17 14:47	% ප			9070 Sep 02 15:17	0°M,	4.0
	9068 Feb 11 04:25	0° ≈		greatest brilliancy	9070 Sep 11 19:59	4° M ₃35'19	-4.8m
	9068 Mar 06 10:59	0° ∀		retrograde	9070 Sep 22 14:55	6° M 43'13	
desc. node	9068 Mar 17 19:16	14°) €06'46		evening set	9070 Oct 09 22:07	1°ML02'55	
	9068 Mar 30 12:41	0° Υ			9070 Oct 11 15:42	30° ₽ Ω	
morning set	9068 Apr 11 01:45	14° Y 27′29		min. Earth dist.	9070 Oct 13 17:19		0.29016 AU
	9068 Apr 23 11:01	0°8		inferior conj	9070 Oct 14 04:25	28° ≏ 25'15	
	9068 May 17 07:45	Π $^{\circ}0$		minimum elong	9070 Oct 13 20:58	28° ≏ 36'57	7°55'37
				morning rise	9070 Oct 17 19:56	26° ≏ 09'41	
superior conj	9068 May 21 16:56	5° Ⅱ 30′32	-1°25'20	direct	9070 Nov 04 15:04	20° ≙ 11'46	
minimum elong	9068 May 21 22:23	5° ∏ 47'40	1°25'31	greatest brilliancy	9070 Nov 14 17:07	22° ₽ 01'36	-4.7m
max. Earth dist.	9068 May 23 02:20	7° Ⅱ 15'30	1.71290 AU		9070 Nov 29 14:18	0° M	
	9068 Jun 10 05:00	0 \circ \odot		morning max el	9070 Dec 23 13:09	20°M20'39	45°47'42
evening rise	9068 Jul 01 01:35	26° © 05'47		asc. node	9070 Dec 24 14:12	21°M21'35	
	9068 Jul 04 04:39	$\mathfrak{O}^{\circ}\mathfrak{O}$			9071 Jan 02 04:31	0° ∡ ¹	
asc. node	9068 Jul 08 16:19	5° Ω 35'29			9071 Jan 29 16:26	0°ප	
	9068 Jul 28 08:03	o° mp			9071 Feb 24 09:32	0° ≈	
	9068 Aug 21 16:21	0° ⊽			9071 Mar 21 06:37	0° ∀	
	9068 Sep 15 07:26	o° m			9071 Apr 14 16:37	0° Y	
	9068 Oct 10 08:43	0° ∡ ¹		desc. node	9071 Apr 15 07:59	0° Ƴ 47'33	
desc. node	9068 Oct 28 11:08	21° ∡ 13′07			9071 May 08 20:03	0° ႘	
	9068 Nov 05 01:49	0°⋜			9071 Jun 01 20:10	0°II	
	9068 Dec 01 21:33	0° ≈			9071 Jun 25 19:38	0°©	
evening max el	9068 Dec 27 02:45	26° ≈ 03'48	46°06'03	morning set	9071 Jun 26 15:53	1° 5 03'19	
evening max or	9068 Dec 31 05:45	0° ∀	10 00 03	morning sec	9071 Jul 19 20:19	0°Ω	
greatest brilliancy	9069 Feb 04 16:29	25°) 10'17	-4.8m		7071 Jul 17 20:17	0 0 C	
retrograde	9069 Feb 14 11:16	26°) 56'40	4.0111	superior conj	9071 Aug 04 16:46	19° Ω 43'57	-0°03'39
asc. node	9069 Feb 18 11:02	26° H 37'30		minimum elong	9071 Aug 04 17:40	19° Ω 46'44	
evening set	9069 Mar 01 04:04	20 X 37 30 22° X 43'31		behind sun begin	9071 Aug 03 18:00	18° Ω 33'10	0 03 48
inferior conj	9069 Mar 07 05:44	19°) (08'28	4°09'27	behind sun end	9071 Aug 05 17:20	21° Ω 00'16	
	9069 Mar 06 21:01	19° X 21'56	4°07'01	asc. node	9071 Aug 06 04:25	21° Ω 34'44	
minimum elong min. Earth dist.		19 X 21 36			•		1.72372 AU
	9069 Mar 07 07:08 9069 Mar 12 13:35	15° X 56'56	0.27222 AU	max. Earth dist.	9071 Aug 07 12:12	0°m)	1.72372 AU
morning rise					9071 Aug 12 23:11	0ം ⊽	
direct	9069 Mar 28 00:58	11°) 14'56	4.0		9071 Sep 06 04:27		
greatest brilliancy	9069 Apr 07 05:31	13°) €11'48	-4.9m	evening rise	9071 Sep 11 12:20	6° ₽ 34'53	
	9069 May 02 15:13	0° Υ	46050117		9071 Sep 30 12:32	0°M 0°. ⊼	
morning max el	9069 May 17 12:10	14° Y 04'12	46°59'17		9071 Oct 25 00:28	0° ∡ ¹	
	9069 Jun 01 16:02	0°8			9071 Nov 18 17:39	0°る	
desc. node	9069 Jun 10 06:33	9° 8 29'46		desc. node	9071 Nov 25 22:43	8° る 41'40	
	9069 Jun 28 05:21	0°Щ			9071 Dec 13 17:28	0° ≈	
	9069 Jul 23 15:52	0°©			9072 Jan 08 01:45	0° ∀	
	9069 Aug 17 15:37	0° N			9072 Feb 02 23:50	0° Υ	
	9069 Sep 11 10:25	0°Щ			9072 Mar 01 06:04	0° 8	
asc. node	9069 Oct 01 03:31	23° m 59'11		evening max el	9072 Mar 09 17:52	8° 8 43'32	46°48'59
	9069 Oct 06 01:49	0∘ ⊽		asc. node	9072 Mar 17 22:15	16° 8 40'52	
	9069 Oct 30 14:00	0°M₊			9072 Apr 02 12:32	Π \circ 0	
morning set	9069 Nov 16 08:18	20°M36'18		greatest brilliancy	9072 Apr 19 10:57	9° Ⅱ 41′20	-4.9m
	9069 Nov 23 23:20	0° ∡ 7		retrograde	9072 Apr 29 04:30	11° Ⅱ 29'29	
	9069 Dec 18 06:42	0° ප		evening set	9072 May 17 07:08	5° Ⅱ 13'47	
max. Earth dist.	9069 Dec 21 08:34	3°₹48'15	1.72977 AU	inferior conj	9072 May 19 20:35	3° Ⅱ 40′06	9°02'03
				minimum elong	9072 May 20 01:02	3° Ⅲ 33′15	9°01'32
superior conj	9069 Dec 23 01:10	5° る 53'44	1°02'22	min. Earth dist.	9072 May 19 22:00	3° Ⅱ 37'55	0.27148 AU
minimum elong	9069 Dec 23 10:56	6° る 23'53	1°02'18	morning rise	9072 May 22 18:59	1° Ⅱ 53′02	
	9070 Jan 11 12:49	0° ≈			9072 May 26 02:22	30° ₹ 8	
desc. node	9070 Jan 20 20:30	11° ≈ 32'45		direct	9072 Jun 09 12:07	25° 8 51'57	
evening rise	9070 Jan 30 04:55	23° ≈ 08′08		greatest brilliancy	9072 Jun 19 05:10	27° 8 38'45	-4.9m
	9070 Feb 04 17:45	0° ∀			9072 Jun 24 16:28	$\Pi^{\circ}0$	
	9070 Feb 28 21:21	$0^{\circ}\mathbf{\Upsilon}$		desc. node	9072 Jul 07 18:07	8° Ⅲ 27′06	
	9070 Mar 25 00:12	9° 8		morning max el	9072 Jul 29 15:00	27° Ⅱ 59'23	46°32'18
	9070 Apr 18 04:25	0°Ⅲ		-	9072 Jul 31 15:28	0ಂತಾ	

	9072 Aug 28 19:16	$0 {\circ} \Omega$			9075 Apr 05 09:11	Π $\circ 0$	
	9072 Sep 24 04:05	0° ™)		asc. node	9075 Apr 15 09:19	11° Ⅱ 41′22	
	9072 Oct 19 17:56	0∘ ⊽			9075 May 01 11:42	0ංම	
asc. node	9072 Oct 28 16:03	10° ≏ 36'43		evening max el	9075 May 22 14:46	22°530'01	46°51'28
	9072 Nov 13 19:49	0°M		v , v 8 v .	9075 May 30 07:04	0° Ω	
	9072 Dec 08 12:55	0° ⊼		greatest brilliancy	9075 Jul 01 04:57	22° Ω 56'43	-4.9m
							-4.9111
	9073 Jan 01 23:41	0°る		retrograde	9075 Jul 11 22:43	25° Ω 05'08	
morning set	9073 Jan 24 13:56	27° る 55'35		evening set	9075 Jul 26 19:34	20° Ω 44'02	
	9073 Jan 26 06:05	0° ≈		inferior conj	9075 Aug 01 23:11	17° Ω 04'13	0°49'25
desc. node	9073 Feb 17 08:46	27° ≈ 29′03		minimum elong	9075 Aug 02 01:03	17° Ω 01'18	0°48'38
	9073 Feb 19 09:14	0° ∀		min. Earth dist.	9075 Aug 01 13:25	17° Ω 19'19	0.27636 AU
max. Earth dist.	9073 Mar 01 17:50	12° ¥ 55'14	1.71842 AU	desc. node	9075 Aug 05 05:30	15° Ω 04'43	
				morning rise	9075 Aug 08 07:17	13° Ω 20′13	
superior conj	9073 Mar 04 18:17	16°) 41'29	-0°36'21	direct	9075 Aug 22 22:45	9° Ω 11'30	
minimum elong	9073 Mar 04 09:53	16°) (412)		greatest brilliancy	9075 Sep 01 15:39	10° Ω 54'56	-4.8m
minimum ciong		10 χ 13 14 0° Υ	0 33 33	greatest offinality	-		-4.0111
	9073 Mar 15 09:39				9075 Sep 30 17:40	0° Mp	45040116
	9073 Apr 08 08:02	0°8		morning max el	9075 Oct 10 20:49	9° m ,18′22	45°49'16
evening rise	9073 Apr 13 16:58	6° 8 44'38			9075 Oct 31 05:40	0∘ ಹ	
	9073 May 02 05:49	Π $^{\circ}0$		asc. node	9075 Nov 26 04:18	28° ≏ 39'47	
	9073 May 26 05:18	0 \circ \odot			9075 Nov 27 08:27	0° M .	
asc. node	9073 Jun 10 06:18	18° © 42'55			9075 Dec 23 02:32	0° ∡ ¹	
	9073 Jun 19 09:04	$0^{\circ}\Omega$			9076 Jan 17 02:36	0°⋜	
	9073 Jul 13 20:02	0° m)			9076 Feb 10 15:50	0° ≈	
	9073 Aug 07 18:18	0∘ ⊽			9076 Mar 05 22:11	0° ∀	
	•	0° m		desc. node	9076 Mar 16 21:21	13° ¥ 38'41	
	9073 Sep 02 11:56			desc. node			
	9073 Sep 29 20:27	0° ∡ 7		_	9076 Mar 29 23:45	0° Υ	
desc. node	9073 Sep 30 01:58	0° ҂ 14′23		morning set	9076 Apr 08 12:43	11° Y 56'52	
evening max el	9073 Oct 14 00:48	14° ∡ 14'45	45°43'29		9076 Apr 22 22:00	9° 8	
	9073 Nov 01 00:01	0°る			9076 May 16 18:43	Π \circ 0	
greatest brilliancy	9073 Nov 22 02:12	12° る 20'02	-4.7m				
retrograde	9073 Dec 01 18:19	14° る 01'09		superior conj	9076 May 19 04:28	3° Ⅱ 01′27	-1°26'10
evening set	9073 Dec 18 11:43	8° ප් 41'08		minimum elong	9076 May 19 08:57	3° Ⅱ 15'34	
inferior conj	9073 Dec 23 00:48	5° る 54'24	-6°21'57	max. Earth dist.	9076 May 20 06:22		1.71277 AU
minimum elong	9073 Dec 23 10:56	5° る 38'34		max. Darm dist.	9076 Jun 09 15:59	0°95	1.71277110
•							
min. Earth dist.	9073 Dec 23 18:50	5° පි 26'12	0.28579 AU	evening rise	9076 Jun 28 13:48	23°539'41	
morning rise	9073 Dec 28 09:48	2° る 38'35			9076 Jul 03 15:42	0 \circ Ω	
	9074 Jan 02 16:02	30°Ŗ ⋌ ¹		asc. node	9076 Jul 07 18:12	5° Ω 06'55	
direct	9074 Jan 13 10:29	27° ∡ ¹40'19			9076 Jul 27 19:12	0° m y	
asc. node	9074 Jan 21 01:36	28° ∡ ¹46'46			9076 Aug 21 03:40	0∘ ত	
greatest brilliancy	9074 Jan 24 11:53	29° ∡ ¹56′06	-4.8m		9076 Sep 14 19:08	0° M .	
	9074 Jan 24 15:51	აი			9076 Oct 09 21:09	0° ∡ ¹	
morning max el	9074 Mar 04 11:24	29° る 46'47	46°28'41	desc. node	9076 Oct 27 13:10	20° ∡ ¹40'28	
morning man er	9074 Mar 04 16:42	0°≈	.0 20 .1	dose. Hode	9076 Nov 04 15:39	0°ප	
	9074 Apr 01 14:21	0° ∀			9076 Dec 01 14:22	0° ≈	
	•	0°Υ				0 ∞ 23°≈43'17	46904120
	9074 Apr 27 09:29			evening max el	9076 Dec 24 15:54		46°04'39
desc. node	9074 May 12 20:24	18° Ƴ 31'37			9076 Dec 31 07:33	0° ∀	
	9074 May 22 07:24	0°8		greatest brilliancy	9077 Feb 02 06:26	22°) 48′56	-4.8m
	9074 Jun 15 19:05	Π $^{\circ}0$		retrograde	9077 Feb 12 00:17	24° ¥ 34'52	
	9074 Jul 10 02:26	0 \circ		asc. node	9077 Feb 17 13:08	23° ¥ 57'48	
	9074 Aug 03 08:51	$0^{\circ}\Omega$		evening set	9077 Feb 26 15:59	20° ∺ 23′20	
	9074 Aug 27 15:43	0° m		inferior conj	9077 Mar 04 19:20	16° ¥ 46′25	3°48'12
asc. node	9074 Sep 02 16:54	7° m/28'04		minimum elong	9077 Mar 04 11:12	16° ¥ 58'57	3°45'53
morning set	9074 Sep 06 04:07	11° m)44'49		min. Earth dist.	9077 Mar 04 21:50		0.27243 AU
morning set	9074 Sep 20 23:04	0∘ ⊽		morning rise	9077 Mar 10 05:58	13°) ₹30′58	0.272 13 710
	9074 Sep 20 23.04	0 ==		•			
	0074 0 + 12 10 00	270 2 42:22	1010122	direct	9077 Mar 25 14:17	8° ¥ 52'04	4.0
superior conj	9074 Oct 13 10:02	27° Ω 42'30		greatest brilliancy	9077 Apr 04 21:11	10° ¥ 50'58	-4.9m
minimum elong	9074 Oct 13 02:51	27° Ω 20'21			9077 May 02 21:20	0° Υ	
max. Earth dist.	9074 Oct 14 04:17	28° ≏ 38'48	1.73232 AU	morning max el	9077 May 15 01:46	11° Ƴ 40'46	46°59'20
	9074 Oct 15 06:37	0° M ₊			9077 Jun 01 10:04	9° 8	
	9074 Nov 08 14:37	0° ∡		desc. node	9077 Jun 09 08:28	8° 8 48'28	
evening rise	9074 Nov 18 22:13	12° ∡ °42′10			9077 Jun 27 19:59	$\Pi^{\circ}0$	
-	9074 Dec 02 23:47	8°0			9077 Jul 23 04:56	0° ©	
desc. node	9074 Dec 23 10:21	25° පි 05'10			9077 Aug 17 03:46	0°N	
	9074 Dec 27 10:34	0°≈			9077 Sep 10 21:58	0° m)	
	9074 Dec 27 10:34 9075 Jan 20 22:51	0° ∺		asc. node	9077 Sep 10 21:38 9077 Sep 30 05:32	23° Mp 31'14	
		0 K 0°Υ		use. Houe	•	-	
	9075 Feb 14 12:44				9077 Oct 05 12:57	0∘ w	
	9075 Mar 11 06:10	0°8			9077 Oct 30 00:51	0° M	

morning set	9077 Nov 14 01:32	18° M .28'28		greatest brilliancy	9080 Apr 16 23:23	7° Ⅱ 15'14	-4.9m
morning set	9077 Nov 23 10:04	0° √		retrograde	9080 Apr 26 18:05	9° I 13'54	4.7111
	9077 Dec 17 17:25	0°రె		evening set	9080 May 14 21:27	2° Ⅱ 46′02	
max. Earth dist.	9077 Dec 19 04:22	1° る 48'00	1.73007 AU	inferior conj	9080 May 17 09:22	1° Ⅱ 14'33	9°06'27
				minimum elong	9080 May 17 12:55	1° Ⅱ 09'07	9°06'03
superior conj	9077 Dec 20 17:38	3° る 43'10	1°04'38	min. Earth dist.	9080 May 17 09:59	1° Ⅱ 13'36	0.27143 AU
minimum elong	9077 Dec 21 03:19	4° る 13'05	1°04'36		9080 May 19 10:09	30° ₹ 8	
	9078 Jan 10 23:36	0° ≈		morning rise	9080 May 20 04:25	29° 8 32'31	
desc. node	9078 Jan 19 22:26	11° ≈ 05′11		direct	9080 Jun 07 01:27	23° 8 26'37	
evening rise	9078 Jan 27 19:46	20°≈51'39		greatest brilliancy	9080 Jun 16 16:49	25° 8 12'17	-4.9m
	9078 Feb 04 04:41	0°){			9080 Jun 26 13:16	0°II	
	9078 Feb 28 08:28	0°Υ •••		desc. node	9080 Jul 06 20:02	7° I 14'40	46022157
	9078 Mar 24 11:34	0° B		morning max el	9080 Jul 27 05:22	25° Ⅱ 39'51	46°33'57
	9078 Apr 17 16:08	0° ©			9080 Jul 31 13:04	0°Ω 0∞©	
asc. node	9078 May 12 01:57 9078 May 12 20:40	0°\$57'05			9080 Aug 28 10:51 9080 Sep 23 17:18	0° m p	
asc. nouc	9078 Jun 05 22:50	0°Ω			9080 Sep 23 17:18 9080 Oct 19 05:56	0∘ ऌ ० ाक्र	
	9078 Jul 01 17:07	0° m)		asc. node	9080 Oct 27 17:54	0 ─ 10° 亞 07'20	
	9078 Jul 29 11:52	0∘ ت مراب		use. Hode	9080 Nov 13 07:08	0° M	
evening max el	9078 Aug 01 16:44	ა — 3° ჲ 11'52	46°10'32		9080 Dec 07 23:51	0° ⊼ ¹	
desc. node	9078 Sep 01 16:55	28° ♀ 38'43			9081 Jan 01 10:25	0°ප	
	9078 Sep 04 04:06	0°M₊		morning set	9081 Jan 22 05:11	25° ⋜ 41'14	
greatest brilliancy	9078 Sep 09 10:47	2°M23'10	-4.8m	S	9081 Jan 25 16:42	0° ≈	
retrograde	9078 Sep 20 07:38	4°M33'01		desc. node	9081 Feb 16 10:48	27° ≈ 02'19	
	9078 Oct 05 15:07	30° Ŗ Ω			9081 Feb 18 19:51	0°)	
evening set	9078 Oct 07 11:02	28° ≏ 57'08		max. Earth dist.	9081 Feb 27 05:10	10°) € 27'35	1.71883 AU
inferior conj	9078 Oct 11 20:32	26° ≙ 14'59	-7°48'24				
minimum elong	9078 Oct 11 12:35	26° ≏ 27'28	7°47'16	superior conj	9081 Mar 02 06:53	14°) (17′40	-0°32'53
min. Earth dist.	9078 Oct 11 08:21	26° ≙ 34'06	0.28990 AU	minimum elong	9081 Mar 01 23:12	13° ¥ 53'40	0°32'25
morning rise	9078 Oct 15 14:16	23° ჲ 56′27			9081 Mar 14 20:21	0° Υ	
direct	9078 Nov 02 06:50	18° ≏ 01'56			9081 Apr 07 18:49	0° 8	
greatest brilliancy	9078 Nov 12 08:14	19° ≙ 51'26	-4.7m	evening rise	9081 Apr 11 04:21	4° 8 15'49	
	9078 Nov 30 06:44	0° M ,			9081 May 01 16:43	0°Щ	
morning max el	9078 Dec 21 05:12	18°M10'10	45°46'55	,	9081 May 25 16:21	0°95	
asc. node	9078 Dec 23 16:07	20°M34'02		asc. node	9081 Jun 09 08:14	18°5514'06	
	9079 Jan 01 23:09	%マ 0°る			9081 Jun 18 20:22	0° Ω	
	9079 Jan 29 06:53 9079 Feb 23 22:20	0°≈			9081 Jul 13 07:45	0∘ ರ 0∘⊯	
	9079 Heb 23 22:20 9079 Mar 20 18:35	0 ≈ 0° ∺			9081 Aug 07 06:46 9081 Sep 02 01:58	0° M	
desc. node	9079 Mar 20 18:33 9079 Apr 14 09:51	0° Υ 17'47		desc. node	9081 Sep 02 01:38 9081 Sep 29 03:56	29°M32'52	
dese. Hode	9079 Apr 14 04:06	0° Υ		dese. Hode	9081 Sep 29 14:25	0° √	
	9079 May 08 07:16	0°8		evening max el	9081 Oct 11 16:12	12° х 03′49	45°43'30
	9079 Jun 01 07:11	0°II		evening man er	9081 Nov 01 12:29	0°ਰ	
morning set	9079 Jun 24 05:02	28° Ⅱ 40'30		greatest brilliancy	9081 Nov 19 17:24	10° ට 09'20	-4.7m
C	9079 Jun 25 06:27	0ಂತಾ		retrograde	9081 Nov 29 09:04	11° ප 50'01	
	9079 Jul 19 07:01	$0^{\circ}\Omega$		evening set	9081 Dec 16 06:10	6° ට 25'47	
				inferior conj	9081 Dec 20 16:30	3°₹42'48	-6°35'35
superior conj	9079 Aug 02 07:24	17° Ω 27'09	-0°07'13	minimum elong	9081 Dec 21 02:31	3° ට 27'04	
minimum elong	9079 Aug 02 09:10	17° Ω 32'37	0°07'19	min. Earth dist.	9081 Dec 21 10:14		0.28627 AU
behind sun begin	9079 Aug 01 11:18	16° Ω 24'38		morning rise	9081 Dec 25 22:34	0°る30'42	
behind sun end	9079 Aug 03 07:01	18° Ω 40'35			9081 Dec 26 20:21	30°R ✓	
max. Earth dist.	9079 Aug 05 04:02	21°Ω00'28	1.72332 AU	direct	9082 Jan 11 02:34	25° ₹ 28'21	
asc. node	9079 Aug 05 06:27	21° Ω 08'00		asc. node	9082 Jan 20 03:42	27° 🗷 00'21	4.0
	9079 Aug 12 09:47	0° m)		greatest brilliancy	9082 Jan 22 03:25	27° х 43′05	-4.8m
avanina riaa	9079 Sep 05 15:05	0° ჲ 4° ჲ 26'15		marring may al	9082 Jan 27 02:52	0°る 27°る29'13	46°27'00
evening rise	9079 Sep 09 05:18 9079 Sep 29 23:17	4 == 20 13 0°M		morning max el	9082 Mar 02 01:52 9082 Mar 04 13:47	27 © 2913	40 27 00
	9079 Oct 24 11:26	0° ⊼ ¹			9082 Mai 04 13:47 9082 Apr 01 05:46	0° ∺	
	9079 Nov 18 05:02	0°る			9082 Apr 01 03:40 9082 Apr 26 22:47	0° Υ	
desc. node	9079 Nov 25 00:34	8°る12'28		desc. node	9082 Apr 20 22:47 9082 May 11 22:18	17° Y ′59'25	
2000. 11000	9079 Dec 13 05:31	0°≈			9082 May 21 19:39	0° 8	
	9080 Jan 07 14:57	0° ∀			9082 Jun 15 06:42	0°II	
	9080 Feb 02 15:09	0° Υ			9082 Jul 09 13:38	0°ಅ	
	9080 Mar 01 02:19	0°8			9082 Aug 02 19:45	$0 {\circ} \Omega$	
evening max el	9080 Mar 07 08:25	6° 8 22'56	46°47'52		9082 Aug 27 02:23	0° m/y	
asc. node	9080 Mar 17 00:16	15° 8 42'14		asc. node	9082 Sep 01 18:54	7° m 01'31	
	9080 Apr 03 10:19	$\Pi^{\circ}0$		morning set	9082 Sep 03 20:15	9° m 33'51	

	9082 Sep 20 09:34	0∘ ত		morning rise	9085 Mar 07 22:11	11° ¥ 06′00	
				direct	9085 Mar 23 04:04	6° ∺ 29'48	
superior conj	9082 Oct 11 03:35		1°17'00	greatest brilliancy	9085 Apr 02 12:35	8°) 30′31	-4.9m
minimum elong	9082 Oct 10 19:56	25° Ω 12'56			9085 May 03 01:16	0° Υ	
max. Earth dist.	9082 Oct 11 23:00		1.73215 AU	morning max el	9085 May 12 16:23	9° Y 20′25	46°59'11
	9082 Oct 14 17:01	0°M			9085 Jun 01 03:32	0°8	
	9082 Nov 08 01:02	0° ∡ 7		desc. node	9085 Jun 08 10:28	8° 8 08'17	
evening rise	9082 Nov 16 15:26	10° ∡ ³35′13			9085 Jun 27 10:16	0°∏	
	9082 Dec 02 10:22	0°る			9085 Jul 22 17:41	0°95	
desc. node	9082 Dec 22 12:22	24° る 38'13			9085 Aug 16 15:38	$\Omega^{\circ}\Omega$	
	9082 Dec 26 21:26	0° ₩		1-	9085 Sep 10 09:13	0°M)	
	9083 Jan 20 10:07	0° γ		asc. node	9085 Sep 29 07:21	23° Mp 03'23	
	9083 Feb 14 00:32				9085 Oct 04 23:49	0° Մ 0° ⊙	
	9083 Mar 10 18:47 9083 Apr 04 23:11	0°B 0°B		morning set	9085 Oct 29 11:29 9085 Nov 11 18:45	16°M21'13	
asc. node	9083 Apr 14 11:14	11° Ⅱ 03'56		morning set	9085 Nov 22 20:35	10 11621 13 0° √ 1	
asc. Houc	9083 May 01 04:40	0°95		max. Earth dist.	9085 Dec 17 00:58	29° ∡ 50′55	1.73030 AU
evening max el	9083 May 20 04:06	20° © 07'13	46°52'14	max. Latin dist.	9085 Dec 17 00:58	0°る	1.73030 AC
evening max er	9083 May 30 09:26	20 3 07 13	40 32 14		9003 DCC 17 03.33	0 0	
greatest brilliancy	9083 Jun 28 21:24		-4.9m	superior conj	9085 Dec 18 10:12	1° る 33'35	1°06'49
retrograde	9083 Jul 09 12:41	22° Ω 46'01	4.7111	minimum elong	9085 Dec 18 19:45	2° ප 03'05	1°06'47
evening set	9083 Jul 24 11:07	18° Ω 23'38		minimum crong	9086 Jan 10 10:10	0°≈	1 00 17
min. Earth dist.	9083 Jul 30 04:52		0.27597 AU	desc. node	9086 Jan 19 00:28	10° ≈ 38'38	
inferior conj	9083 Jul 30 13:18		1°12'07	evening rise	9086 Jan 25 10:46	18° ≈ 36'29	
minimum elong	9083 Jul 30 16:03	14° Ω 41'47			9086 Feb 03 15:22	0° ∀	
desc. node	9083 Aug 04 07:38	11° Ω 53'55			9086 Feb 27 19:23	0°Υ	
morning rise	9083 Aug 05 21:34	11° Ω 01'30			9086 Mar 23 22:47	0°8	
direct	9083 Aug 20 11:56	6° £ 53'41			9086 Apr 17 03:45	0°II	
greatest brilliancy	9083 Aug 30 06:11	8° Ω 37'53	-4.8m	asc. node	9086 May 11 22:34	0°ഇ25'37	
	9083 Sep 30 21:06	o° mp			9086 May 11 14:10	0°ಅ	
morning max el	9083 Oct 08 10:18	7° m 01'14	45°50'25		9086 Jun 05 12:03	$0^{\circ}\Omega$	
	9083 Oct 30 22:24	0 o $\overline{\mathbf{v}}$			9086 Jul 01 08:24	0°Щ	
asc. node	9083 Nov 25 06:15	28° ഫ 06'31			9086 Jul 29 08:45	0∘ ত	
	9083 Nov 26 21:58	0° M		evening max el	9086 Jul 30 08:39	0° £ 59'14	46°12'09
	9083 Dec 22 14:37	0° ∡ ¹		desc. node	9086 Aug 31 18:50	27° ≏ 15'19	
	9084 Jan 16 13:58	5°0			9086 Sep 06 14:12	0° M	
	9084 Feb 10 02:52	0° ≈		greatest brilliancy	9086 Sep 07 01:20	0° ™ 10'47	-4.8m
	9084 Mar 05 09:03	0°) €		retrograde	9086 Sep 18 00:23	2°M22'25	
desc. node	9084 Mar 15 23:16	13° ∺ 10′58			9086 Sep 28 21:27	30°Ŗ 죠	
	9084 Mar 29 10:31	0° Υ		evening set	9086 Oct 04 23:46	26° £ 51′09	
morning set	9084 Apr 05 23:22	9° Y 26′05		min. Earth dist.	9086 Oct 08 23:01		0.28959 AU
	9084 Apr 22 08:43	0°B		inferior conj	9086 Oct 09 12:27	24° Ω 04'22	
	9084 May 16 05:24	Π $^{\circ}0$		minimum elong	9086 Oct 09 04:03	24° £ 17'32	7°38'11
	000434 16 15 20	00 T22U 7	100 (150	morning rise	9086 Oct 13 08:32	21° Ω 42'33	
superior conj	9084 May 16 15:39	0° ∏ 32'15		direct	9086 Oct 30 22:49	15° £ 51'52	
minimum elong	9084 May 16 19:07	0° П 43'06		greatest brilliancy	9086 Nov 09 22:36	17° £ 40'20	-4.7m
max. Earth dist.	9084 May 17 09:24		1.71265 AU		9086 Nov 30 18:54	0°M	45946112
evening rise	9084 Jun 09 02:40 9084 Jun 26 01:47	0° © 21° © 13'47		morning max el asc. node	9086 Dec 18 21:29 9086 Dec 22 18:10	16°M00'36 19°M47'48	45°46'12
evening rise	9084 Jul 03 02:25	21 3 1347 0° Ω		asc. Houe	9080 Dec 22 18:10 9087 Jan 01 17:13	19 11 0 4748	
asc. node	9084 Jul 06 20:14	4°Ω39'52			9087 Jan 28 21:04	0°ਤ	
asc. Houc	9084 Jul 27 06:00	0° Mp			9087 Jan 28 21:04 9087 Feb 23 10:55	0°≈	
	9084 Aug 20 14:42	0∘ ʊ ৹ m⁄			9087 Mar 20 06:23	0° ∀	
	9084 Sep 14 06:33	0° M		desc. node	9087 Apr 13 11:46	29°) (48'32	
	9084 Oct 09 09:19	0°× 7 1		dese. Hode	9087 Apr 13 15:28	0°Υ	
desc. node	9084 Oct 26 15:03	20° ₹ 08'15			9087 May 07 18:23	0°8	
dese. node	9084 Nov 04 05:16	0°ප			9087 May 31 18:08	0°II	
	9084 Dec 01 07:07	0° ≈		morning set	9087 Jun 21 17:47	26° Ⅱ 16′20	
evening max el	9084 Dec 22 05:25	21° ≈ 25'04	46°03'21		9087 Jun 24 17:17	0°95	
<i>5</i>	9084 Dec 31 10:21	0°) €	•		9087 Jul 18 17:44	$0^{\circ}\Omega$	
greatest brilliancy	9085 Jan 30 19:39	20°) €27'51	-4.8m				
retrograde	9085 Feb 09 13:40	22°) 14'02		superior conj	9087 Jul 30 21:28	15° Ω 08'19	-0°10'50
asc. node	9085 Feb 16 15:06	21°) 13′28		minimum elong	9087 Jul 31 00:05	15° Ω 16′28	
evening set	9085 Feb 24 04:03	18°) €03'35		behind sun begin	9087 Jul 30 05:56	14° Ω 20′00	
inferior conj	9085 Mar 02 08:50	14°) €25'00	3°26'26	behind sun end	9087 Jul 31 18:14	16° Ω 12'56	
minimum elong	9085 Mar 02 01:21	14°) (36′30	3°24'17	max. Earth dist.	9087 Aug 02 20:36	18° Ω 49'33	1.72290 AU
min. Earth dist.	9085 Mar 02 12:12	14°) 19'48	0.27272 AU	asc. node	9087 Aug 04 08:23	20° Ω 40'48	

	9087 Aug 11 20:27	0° m		greatest brilliancy	9090 Jan 19 19:28	25° ₹ 129'56	-4.8m
	9087 Sep 05 01:45	0∘ ʊ		greatest orimancy	9090 Jan 28 16:37	23×2730 0°る	- 1 .0111
evening rise	9087 Sep 06 21:45	° – 2° ⊆ 15'56		morning max el	9090 Feb 27 16:03	25° පි 10'03	46°25'22
e vennig rise	9087 Sep 29 10:03	0°M		moming must vi	9090 Mar 04 10:29	0°≈	.0 20 22
	9087 Oct 23 22:28	0° ∡ ¹			9090 Mar 31 21:14	0°) €	
	9087 Nov 17 16:30	ა-ნ			9090 Apr 26 12:14	$0^{\circ}\Upsilon$	
desc. node	9087 Nov 24 02:35	7° る 43'34		desc. node	9090 May 11 00:17	17° Ƴ 26'50	
	9087 Dec 12 17:42	0° ≈			9090 May 21 08:03	$0^{\circ}B$	
	9088 Jan 07 04:19	0°)			9090 Jun 14 18:28	$\Pi^{\circ}0$	
	9088 Feb 02 06:43	$0^{\circ}\mathbf{\Upsilon}$			9090 Jul 09 00:58	0°ಅ	
	9088 Feb 29 23:13	9° 8			9090 Aug 02 06:48	$0^{\circ}\Omega$	
evening max el	9088 Mar 04 23:00	4° 8 02'36	46°46'46		9090 Aug 26 13:15	0° m)	
asc. node	9088 Mar 16 02:10	14° 8 42'11		asc. node	9090 Aug 31 20:43	6° Mp 33′43	
	9088 Apr 04 16:13	$\Pi^{\circ}0$		morning set	9090 Sep 01 12:22	7° m 22'02	
greatest brilliancy	9088 Apr 14 12:11	4° Ⅱ 50'01	-4.9m		9090 Sep 19 20:18	0∘ ত	
retrograde	9088 Apr 24 07:19	6° Ⅱ 38'30					
evening set	9088 May 12 11:23	0° Ⅱ 19'33		superior conj	9090 Oct 08 21:01	23° ≏ 29'16	1°15'28
	9088 May 13 00:16	30° ₹ 8		minimum elong	9090 Oct 08 12:57	23° ≏ 04'24	1°15'23
inferior conj	9088 May 14 22:17	28° 8 49'25	9°09'47	max. Earth dist.	9090 Oct 09 16:06	24° ≙ 28'10	1.73202 AU
minimum elong	9088 May 15 00:53	28° 8 45'25	9°09'28		9090 Oct 14 03:42	0° M .	
min. Earth dist.	9088 May 14 22:16	28° 8 49'27	0.27139 AU		9090 Nov 07 11:46	0° ∡ ¹	
morning rise	9088 May 17 14:25	27° 8 11'34		evening rise	9090 Nov 14 08:30	8° ∡ ¹26'53	
direct	9088 Jun 04 14:46	21° 8 01'42			9090 Dec 01 21:15	0° ප	
greatest brilliancy	9088 Jun 14 04:54	22° 8 46'17	-4.9m	desc. node	9090 Dec 21 14:20	24° る 10'10	
	9088 Jun 27 19:48	Π °0			9090 Dec 26 08:37	0° ≈	
desc. node	9088 Jul 05 22:10	6° Ⅱ 04'38			9091 Jan 19 21:43	0° ∺	
morning max el	9088 Jul 24 19:01	23° Ⅱ 18'01	46°35'21		9091 Feb 13 12:43	0° Υ	
	9088 Jul 31 10:02	0ංම			9091 Mar 10 07:50	0°B	
	9088 Aug 28 02:24	0 ° Ω			9091 Apr 04 13:43	$\Pi^{\circ}0$	
	9088 Sep 23 06:37	0° т р		asc. node	9091 Apr 13 13:15	10° Ⅱ 25'28	
ī	9088 Oct 18 18:03	0° ™			9091 Apr 30 22:20	0°95	46052111
asc. node	9088 Oct 26 19:54	9° Ω 37'54		evening max el	9091 May 17 17:18	17°543'16	46°53'11
	9088 Nov 12 18:35	0°M		4 41 711	9091 May 30 13:44	0° Ω	4.0
	9088 Dec 07 10:54	0°る 0°≯		greatest brilliancy	9091 Jun 26 13:31	18° Ω 21'36	-4.9m
marning got	9088 Dec 31 21:16	0°る 23° る 26'08		retrograde	9091 Jul 07 02:57 9091 Jul 22 02:57	20° \(\Omega\) 26'57 16° \(\Omega\) 02'39	
morning set	9089 Jan 19 20:22 9089 Jan 25 03:30	23 O2008 0°≈		evening set inferior conj	9091 Jul 22 02:37 9091 Jul 28 03:36	$10^{\circ} 02^{\circ} 39$ $12^{\circ} \Omega 27'40$	1°34'33
desc. node	9089 Feb 15 12:41	0 ∞ 26°≈34'30		minimum elong	9091 Jul 28 07:11		1°33'12
desc. Hode	9089 Feb 13 12:41 9089 Feb 18 06:40	20 ≈ 34 30 0° ∺		min. Earth dist.	9091 Jul 27 20:22	• • • • • • • • • • • • • • • • • • • •	0.27559 AU
max. Earth dist.	9089 Feb 24 14:18		1.71922 AU	morning rise	9091 Jul 27 20:22 9091 Aug 03 11:52	8° Ω 43'06	0.27339 AU
max. Earth dist.	7007100 24 14.10	7 7(3230	1.71)22 710	desc. node	9091 Aug 03 09:27	8° Ω 46'20	
superior conj	9089 Feb 27 19:41	11°) 54'01	-0°29'21	direct	9091 Aug 18 01:10	4° Ω 35'32	
minimum elong	9089 Feb 27 12:44	11° X 34'01		greatest brilliancy	9091 Aug 27 20:58	6° Ω 20'55	-4 8m
g	9089 Mar 14 07:12	0°Υ	0 2000	greatest stilliane;	9091 Sep 30 23:11	0° m)	
	9089 Apr 07 05:43	0°8		morning max el	9091 Oct 06 00:40	4° m 45'33	45°51'28
evening rise	9089 Apr 08 16:01	1° 8 47'33			9091 Oct 30 15:05	0∘ ⊽	
Č	9089 May 01 03:43	0° I I		asc. node	9091 Nov 24 08:16	27° £ 32'41	
	9089 May 25 03:30	0°9			9091 Nov 26 11:41	0° M	
asc. node	9089 Jun 08 10:17	17° 5 45'24			9091 Dec 22 03:00	0° ∡ ¹	
	9089 Jun 18 07:48	$0^{\circ}\Omega$			9092 Jan 16 01:41	0°ರ	
	9089 Jul 12 19:40	0° ™			9092 Feb 09 14:13	0° ≈	
	9089 Aug 06 19:32	0∘ ⊽			9092 Mar 04 20:14	0° ∀	
	9089 Sep 01 16:27	0° M ₊		desc. node	9092 Mar 15 01:06	12°) 42′00	
desc. node	9089 Sep 28 05:52	28°M49'52			9092 Mar 28 21:36	0 ° Υ	
	9089 Sep 29 09:13	0° ∡ ¹		morning set	9092 Apr 03 09:58	6° Ƴ 54'16	
evening max el	9089 Oct 09 06:44	9° ∡ ¹49'47	45°43'38		9092 Apr 21 19:45	$_{0\circ}$ 8	
	9089 Nov 02 05:52	0°₹					
greatest brilliancy	9089 Nov 17 08:46	7° 云 57'56	-4.7m	superior conj	9092 May 14 02:47	28° 8 01'41	
retrograde	9089 Nov 26 23:38	9° ප 38'17		minimum elong	9092 May 14 05:11	28° 8 09'12	
evening set	9089 Dec 14 00:32	4°る09'36		max. Earth dist.	9092 May 14 14:06		1.71255 AU
inferior conj	9089 Dec 18 08:11	1°る30'29			9092 May 15 16:25	0°II	
minimum elong	9089 Dec 18 18:04	1°る14'58			9092 Jun 08 13:41	0°95	
min. Earth dist.	9089 Dec 19 01:49	1°る02'47	0.28676 AU	evening rise	9092 Jun 23 13:48	18°9547'03	
	9089 Dec 20 18:06	30°₹ <i>⊀</i> 7		000 -1-	9092 Jul 02 13:27	0° Ω 4° Ω 11120	
morning rise	9089 Dec 23 11:15	28° 🗷 22'19		asc. node	9092 Jul 05 22:09	4° Ω 11'29	
direct	9090 Jan 08 18:12	23°×15'28			9092 Jul 26 17:06	0 ்⊽ 0°™	
asc. node	9090 Jan 19 05:42	25° ≯ 16'53			9092 Aug 20 01:58	0 ==	

	9092 Sep 13 18:16	0°M₊		desc. node	9095 Apr 12 13:50	29°) 18′56	
	9092 Oct 08 21:51	0° ∡ ¹			9095 Apr 13 03:06	$0^{\circ}\mathbf{\Upsilon}$	
desc. node	9092 Oct 25 17:04	19° ∡ ³35′20			9095 May 07 05:45	0°8	
	9092 Nov 03 19:21	8°0			9095 May 31 05:19	$\Pi^{\circ}0$	
	9092 Dec 01 00:39	0° ≈		morning set	9095 Jun 19 06:20	23° I I50'51	
evening max el	9092 Dec 19 20:02	19° ≈ 08'36	46°02'03	morning set	9095 Jun 24 04:20	0°95	
evening max ci		0°) €	40 02 03			0°Ω	
	9092 Dec 31 15:26		4.0		9095 Jul 18 04:40	0.95	
greatest brilliancy	9093 Jan 28 08:30	18°) €05'35	-4.8m				
retrograde	9093 Feb 07 03:28	19° ¥ 52′20		superior conj	9095 Jul 28 11:24	12° Ω 48′22	
asc. node	9093 Feb 15 16:59	18°) €23'06		minimum elong	9095 Jul 28 14:53	12° Ω 59'11	0°14'28
evening set	9093 Feb 21 16:29	15°) 42′50		behind sun begin	9095 Jul 28 04:04	12° Ω 25'32	
inferior conj	9093 Feb 27 22:23	12°) €02'40	3°04'20	behind sun end	9095 Jul 29 01:41	13° Ω 32'50	
minimum elong	9093 Feb 27 15:36	12°) 13′05	3°02'23	max. Earth dist.	9095 Jul 31 13:46	16° Ω 39'44	1.72246 AU
min. Earth dist.	9093 Feb 28 02:18	11° ¥ 56'38	0.27301 AU	asc. node	9095 Aug 03 10:16	20° Ω 12'43	
morning rise	9093 Mar 05 14:18	8°) 40′24			9095 Aug 11 07:20	0° m)	
direct	9093 Mar 20 18:26	4°) €06'52		evening rise	9095 Sep 04 14:11	0° ჲ 04'48	
greatest brilliancy	9093 Mar 31 03:27	6° ₩ 08'35	-4 9m	evening rise	9095 Sep 04 12:38	0∘ ⊽	
greatest orimancy		0°Υ	-4.7111		•	0°M	
	9093 May 03 04:00		46050150		9095 Sep 28 21:01		
morning max el	9093 May 10 07:33	7° Y 00'34	46°58'52		9095 Oct 23 09:38	0° ₹	
	9093 May 31 21:00	0°8			9095 Nov 17 04:05	0° る	
desc. node	9093 Jun 07 12:28	7° 8 27'35		desc. node	9095 Nov 23 04:37	7° る 14'22	
	9093 Jun 27 00:45	Π $^{\circ}0$			9095 Dec 12 06:02	0° ≈	
	9093 Jul 22 06:42	0ಂ ತಾ			9096 Jan 06 17:56	0° ∀	
	9093 Aug 16 03:45	$0^{\circ}\Omega$			9096 Feb 01 22:44	$0^{\circ}\mathbf{\Upsilon}$	
	9093 Sep 09 20:44	0° m)			9096 Feb 29 21:14	0°B	
asc. node	9093 Sep 28 09:21	22° m/35'23		evening max el	9096 Mar 02 12:49	1° 8 39'28	46°45'20
	9093 Oct 04 10:54	0∘ ⊽		asc. node	9096 Mar 15 04:13	13° 8 40'07	
	9093 Oct 28 22:21	0° m		ase. Houe	9096 Apr 06 12:53	0° П	
marning got		14°M14'16		areatast brillianav	•	2° П 24'05	4.000
morning set	9093 Nov 09 12:17			greatest brilliancy	9096 Apr 12 01:29		-4.9111
P. J. P.	9093 Nov 22 07:21	0° ⊀ ⁷	1.50056.433	retrograde	9096 Apr 21 19:45	4° Ⅱ 11'42	
max. Earth dist.	9093 Dec 14 21:27	27°×'52'32	1.73056 AU		9096 May 06 08:24	30°₹ 8	
				evening set	9096 May 10 00:31	27° 8 52'50	
superior conj	9093 Dec 16 02:59	29° ∡ ¹23'47	1°08'52	inferior conj	9096 May 12 11:03	26° 8 23'07	9°11'59
minimum elong	9093 Dec 16 12:19	29° ₹ 52'36	1°08'52	minimum elong	9096 May 12 12:39	26° 8 20'39	9°11'44
	9093 Dec 16 14:43	5°0		min. Earth dist.	9096 May 12 10:46	26° 8 23'32	0.27134 AU
	9094 Jan 09 21:03	0° ≈		morning rise	9096 May 15 00:49	24° 8 48'38	
desc. node	9094 Jan 18 02:21	10°≈10'34		direct	9096 Jun 02 03:30	18° 8 35'34	
evening rise	9094 Jan 23 01:46	16° ≈ 20'18		greatest brilliancy	9096 Jun 11 17:29	20° 8 19'44	-4.9m
evening rise	9094 Feb 03 02:25	0°) €		greatest orimane)	9096 Jun 28 18:19	0°П	,
	9094 Feb 27 06:38	0°Υ		desc. node	9096 Jul 05 00:02	4°∏55'22	
							46926151
	9094 Mar 23 10:21	0° B		morning max el	9096 Jul 22 07:28	20° ∏ 52'26	46°36'51
	9094 Apr 16 15:43	0°Ⅱ			9096 Jul 31 06:29	0°©	
asc. node	9094 May 11 00:39	29° ∏ 53'35			9096 Aug 27 17:51	0 ° Ω	
	9094 May 11 02:45	0₀ ©			9096 Sep 22 19:55	0° ™	
	9094 Jun 05 01:42	$0^{\circ}\Omega$			9096 Oct 18 06:12	0∘ ⊽	
	9094 Jul 01 00:15	0° m)		asc. node	9096 Oct 25 21:53	9° ഫ 08'19	
evening max el	9094 Jul 28 01:22	28° Mp 47'39	46°13'48		9096 Nov 12 06:02	0° M $_{\circ}$	
	9094 Jul 29 06:46	0∘ ⊽			9096 Dec 06 21:57	0° ∡ ¹	
desc. node	9094 Aug 30 20:49	25° ≏ 48'51			9096 Dec 31 08:05	8°0	
greatest brilliancy	9094 Sep 04 16:32	27° £ 58'43	-4.8m	morning set	9097 Jan 17 12:03	21° る 12'43	
8	9094 Sep 12 13:51	0°M		3	9097 Jan 24 14:15	0° ≈	
retrograde	9094 Sep 15 17:07	0°M11'26		desc. node	9097 Feb 14 14:37	26°≈06'55	
retrograde	9094 Sep 18 19:10	30°R <u>Ω</u>		dese. Hode	9097 Feb 17 17:27	0° ∀	
	-			Fauth diat			1 71070 AII
evening set	9094 Oct 02 12:44	24° £ 45'11	0.20020 444	max. Earth dist.	9097 Feb 22 01:41	3°π24'30	1.71970 AU
min. Earth dist.	9094 Oct 06 13:54	22° £ 16'35			00000	001/2:	0005::-
inferior conj	9094 Oct 07 04:32	21° £ 53'40		superior conj	9097 Feb 25 08:50	9°) (31′36	
minimum elong	9094 Oct 06 19:44	22° ≏ 07'28	7°28'29	minimum elong	9097 Feb 25 02:41	9°) 12′27	0°25'24
morning rise	9094 Oct 11 03:00	19° ≏ 28'25			9097 Mar 13 18:04	0° Y	
direct	9094 Oct 28 15:10	13° ≏ 42'02		evening rise	9097 Apr 06 03:42	29° Y 19'14	
greatest brilliancy	9094 Nov 07 12:44	15° ≏ 28'53	-4.7m		9097 Apr 06 16:42	0° 8	
	9094 Dec 01 03:55	0° M			9097 Apr 30 14:49	Π $^{\circ}0$	
morning max el	9094 Dec 16 13:17	13° M 49'35	45°45'21		9097 May 24 14:47	0ంతె	
asc. node	9094 Dec 21 20:07	19° M 01'46		asc. node	9097 Jun 07 12:10	17° © 15'49	
	9095 Jan 01 11:00	0° √			9097 Jun 17 19:22	0°Ω	
	9095 Jan 28 11:18	0°පි			9097 Jul 12 07:41	0° my	
	9095 Feb 22 23:41	0°≈			9097 Aug 06 08:26	0° ت 0 مال	
					•		
	9095 Mar 19 18:25	0° ∀			9097 Sep 01 07:09	0° M	

						0.000	
desc. node	9097 Sep 27 07:56	28°M06'37			9100 Mar 29 08:20	0°Υ	
	9097 Sep 29 04:33	0° ⊀ 7 7° ₹2.42.6	45042156	morning set	9100 Apr 01 21:15	4°Υ25'42	
evening max el	9097 Oct 06 20:41	7° ₹ 34'26	45~43~56		9100 Apr 22 06:25	0° 8	
	9097 Nov 03 05:18	0°궁 5° 궁 46'51	-4.7m		0100 M 12 14-12	25° 8 33'08	1927/20
greatest brilliancy retrograde	9097 Nov 15 00:02 9097 Nov 24 14:38	7° る 27'28	-4. /III	superior conj minimum elong	9100 May 12 14:13 9100 May 12 15:32	25° 8 37'19	
evening set	9097 Nov 24 14.38 9097 Dec 11 19:00	1°る2728		max. Earth dist.	9100 May 12 13.32 9100 May 12 22:53		1.71253 AU
evening set	9097 Dec 11 19:00 9097 Dec 14 21:51	1 03407 30°R <i>X</i> 7		max. Earth dist.	9100 May 12 22:33 9100 May 16 03:05	0°II	1./1233 AU
inferior conj	9097 Dec 14 21:31 9097 Dec 16 00:01	29° ₹ 19'01	7°00'43		9100 May 10 03:03 9100 Jun 09 00:24	0°9	
minimum elong	9097 Dec 16 00:01 9097 Dec 16 09:42	29° х 1901 29° х 03'49		evening rise	9100 Jun 22 01:48	16° 9 21'05	
min. Earth dist.	9097 Dec 16 09.42 9097 Dec 16 17:32	28° х 103 49	0.28720 AU	evening rise	9100 Jul 22 01:48 9100 Jul 03 00:12	10 3 21 03	
morning rise	9097 Dec 10 17:32 9097 Dec 21 00:02	26° ₹ 15'09	0.28720 AU	asc. node	9100 Jul 05 00:12 9100 Jul 06 00:03	3°Ω43'48	
direct	9097 Dec 21 00:02 9098 Jan 06 09:44	20 x 13 09 21° x 03′25		asc. node	9100 Jul 27 03:58	0°M)	
greatest brilliancy	9098 Jan 17 11:56	21 × 03 23 23° × 18'18	-4.8m		9100 Jul 27 03:38 9100 Aug 20 13:04	0∘ ت بالا	
asc. node	9098 Jan 17 11:30 9098 Jan 18 07:33	23° x 1818 23° x 37'51	-4.0111		9100 Aug 20 13:04 9100 Sep 14 05:48	0° m	
asc. Houe	9098 Jan 29 18:33	23 メ ・37 31 0° る			9100 Sep 14 03:48 9100 Oct 09 10:14	0° ⊼ 7	
morning max el	9098 Feb 25 06:33	0 る 22° る 52'32	16023118	desc. node	9100 Oct 09 10:14 9100 Oct 25 19:05	0 x ⁴ 19° x ⁴02'57	
morning max ci	9098 PC0 23 00:33 9098 Mar 04 06:14	0° ≈	40 23 46	desc. Hode	9100 Oct 23 19:03 9100 Nov 04 09:21	19×0237 0°る	
	9098 Mar 31 12:17	0 ≈ 0° ∀			9100 Nov 04 09.21 9100 Dec 01 18:17	0°≈	
	9098 Mai 31 12.17 9098 Apr 26 01:28	0 Υ 0° Υ		evening max el	9100 Dec 01 18:17 9100 Dec 18 11:13	0 ≈ 16°≈54'27	46°00'47
desc. node	9098 May 10 02:15	16° Υ 54'35		evening max er	9100 Dec 18 11:13 9101 Jan 01 22:15	10 ≈3427 0° H	40 0047
desc. flode	9098 May 20 20:20	0° 8		greatest brilliancy	9101 Jan 26 21:29	15°) (44'42	-4.8m
	9098 Jun 14 06:11	0°II		retrograde	9101 Jan 20 21:29 9101 Feb 05 17:18	17°) (31'38	-4.0111
	9098 Jul	0°©		asc. node	9101 Feb 05 17:18 9101 Feb 15 19:06	17 X 31 38	
	9098 Aug 01 17:50	0°Ω 0 €3			9101 Feb 13 19.00 9101 Feb 20 05:14	13° X 28'34	
	Č			evening set			2042101
	9098 Aug 26 00:04	0° m/y		inferior conj	9101 Feb 26 11:56	9°) (41'35	
morning set	9098 Aug 30 04:00	5° Mp 08'46		minimum elong	9101 Feb 26 05:55	9° ¥ 50′51	2°40'16
asc. node	9098 Aug 30 22:44	6° Mp 06'40		min. Earth dist.	9101 Feb 26 16:20	9°) (34'48	0.27326 AU
	9098 Sep 19 06:58	0∘ ⊽		morning rise	9101 Mar 04 06:13	6°) 16′08	
		_		direct	9101 Mar 19 09:02	1°) 45′28	
superior conj	9098 Oct 06 14:09	21° £ 21'25		greatest brilliancy	9101 Mar 29 17:52	3°) 47′26	-4.9m
minimum elong	9098 Oct 06 05:43	20° £ 55′23	1°13'42		9101 May 04 04:44	0° Υ	
max. Earth dist.	9098 Oct 07 09:19	22° ≏ 20'31	1.73188 AU	morning max el	9101 May 08 22:20	4° Υ 41'21	46°58'35
	9098 Oct 13 14:18	0°M₊			9101 Jun 01 13:34	0°8	
	9098 Nov 06 22:24	0°⊀		desc. node	9101 Jun 07 14:23	6° 8 48'34	
evening rise	9098 Nov 12 01:37	6° ₰ 19'05			9101 Jun 27 14:34	Π $^{\circ}0$	
	9098 Dec 01 08:02	0°ಕ			9101 Jul 22 19:11	0 \circ \odot	
desc. node	9098 Dec 20 16:13	23° る 42'20			9101 Aug 16 15:26	0 $^{\circ}$ Ω	
	9098 Dec 25 19:39	0° ≈			9101 Sep 10 07:53	O° My	
	9099 Jan 19 09:08	0° ℋ		asc. node	9101 Sep 28 11:21	22°M 08'13	
	9099 Feb 13 00:40	0 ° $\mathbf{\Upsilon}$			9101 Oct 04 21:42	0∘ ত	
	9099 Mar 09 20:40	9° 8			9101 Oct 29 08:55	0° M ₊	
	9099 Apr 04 04:07	Π $^{\circ}0$		morning set	9101 Nov 08 05:26	12°M07'04	
asc. node	9099 Apr 12 15:15	9° Ⅱ 47′26			9101 Nov 22 17:49	0°⊀	
	9099 Apr 30 16:12	0∘ হু		max. Earth dist.	9101 Dec 13 16:24	25° ₹ ¹50'33	1.73078 AU
evening max el	9099 May 15 06:40	15° © 20'13	46°53'51				
	9099 May 30 19:58	$0^{\circ}\Omega$		superior conj	9101 Dec 14 19:32	27° ҂ 14′22	1°10'49
greatest brilliancy	9099 Jun 24 04:48	16° Ω 02'11	-4.9m	minimum elong	9101 Dec 15 04:36	27° ∡ ¹42'22	1°10'51
retrograde	9099 Jul 04 17:21	18° Ω 07'08			9101 Dec 17 01:10	0° ප	
evening set	9099 Jul 19 18:39	13° Ω 40′27			9102 Jan 10 07:36	0° ≈	
inferior conj	9099 Jul 25 17:33	10° Ω 08′20	1°57'04				
minimum elong	9099 Jul 25 21:58	10° Ω 01'32	1°55'28				
min. Earth dist.	9099 Jul 25 11:19	10° Ω 17'57	0.27527 AU				
morning rise	9099 Aug 01 01:41	6° Ω 24'16					
desc. node	9099 Aug 02 11:28	5° Ω 40'36					
direct	9099 Aug 15 14:22	2° Ω 16′22					
greatest brilliancy	9099 Aug 25 11:16	4° Ω 02'57	-4.8m				
	9099 Sep 30 23:51	0° т р					
morning max el	9099 Oct 03 15:35	2°M 31'22	45°52'38				
	9099 Oct 30 07:16	0∘ ⊽					
asc. node	9099 Nov 23 10:11	26° ♀ 59'23					
	9099 Nov 26 01:04	0°M					
	9099 Dec 21 15:05	0°⊀					
	9100 Jan 15 13:06	ರ°0					
	9100 Feb 09 01:17	0° ≈					
	9100 Mar 05 07:05	0°) €					
desc. node	9100 Mar 15 03:12	12°) 14′54					
	-						