•			,				
superior conj	8101 Feb 25 04:19	7°) 55'32	-0°36'54	desc. node	8103 Jul 28 08:53	6° Ω 18'52	
minimum elong	8101 Feb 24 19:42	7°) €28'36		morning rise	8103 Jul 31 15:30	4° Ω 26'21	
Č	8101 Mar 14 19:01	$_0$ ° γ		direct	8103 Aug 15 07:42	0° Ω 15'37	
evening rise	8101 Apr 06 08:58	28° Ƴ 21'12		greatest brilliancy	8103 Aug 25 03:09	2° Ω 00'19	-4.8m
Z .	8101 Apr 07 16:26	0°8		ž ,	8103 Oct 02 23:00	0° m/	
	8101 May 01 14:18	0°II		morning max el	8103 Oct 03 03:04	0° m 09'41	45°46'07
	8101 May 25 15:05	0.ee			8103 Nov 01 00:13	0∘ ⊽	
asc. node	8101 Jun 02 11:29	9° 5 44'33		asc. node	8103 Nov 18 08:10	19° £ 21'49	
ase. noue	8101 Jun 18 21:25	0° Ω		use. Houe	8103 Nov 27 14:27	0°M	
	8101 Jul 13 12:21	0° mp			8103 Dec 23 01:13	0° ∡ 7	
	8101 Aug 07 16:43	0∘ ರ ೧.ಗಿ			8104 Jan 16 20:17	0°ਤ	
	8101 Sep 02 20:46	0°M			8104 Feb 10 05:50	0° ≈	
desc. node	8101 Sep 22 05:49	20°M56'01			8104 Mar 05 09:25	0° ₩	
dese. Hode	8101 Oct 01 03:50	0° √		desc. node	8104 Mar 09 00:53	4°) 32'57	
evening max el	8101 Oct 01 05:30 8101 Oct 06 05:06	4° ∡ 755'31	45°40'48	uese. Houe	8104 Mar 29 08:58	4 γ (3237	
evening max er	8101 Oct 00 03:00 8101 Nov 07 09:13	0°중	45 40 46	morning set	8104 Apr 01 04:39	3° Υ 32'18	
grantast brillianav		0 0 2° る 59'04	-4.7m	morning set		0° 8	
greatest brilliancy	8101 Nov 14 08:33		-4./111		8104 Apr 22 06:09	0.0	
retrograde	8101 Nov 23 20:24	4° る 36'52			0104 M 11 22.52	240 47101	1025140
. ,	8101 Dec 09 09:18	30°₹ ⋌ 7		superior conj	8104 May 11 22:53	24° 8 46'01	
evening set	8101 Dec 10 14:07	29° ₹ 18'59	6022145	minimum elong	8104 May 12 03:43	25° 8 01'13	
inferior conj	8101 Dec 15 02:46	26° ₹ 33'13		max. Earth dist.	8104 May 13 15:39		1.71317 AU
minimum elong	8101 Dec 15 12:53	26° ₹ 17'25			8104 May 16 02:52	0°II	
min. Earth dist.	8101 Dec 15 22:53	26° ₹ 01'46	0.28452 AU		8104 Jun 09 01:11	0.22	
morning rise	8101 Dec 20 11:10	23° ∡ 18′02		evening rise	8104 Jun 21 06:11	15° © 14'35	
direct	8102 Jan 05 11:21	18° ₹ 20'38		asc. node	8104 Jun 29 23:24	26°905'47	
asc. node	8102 Jan 13 05:42	19° ₹ 29'03			8104 Jul 03 02:45	0 $^{\circ}$ Ω	
greatest brilliancy	8102 Jan 16 14:09	20° ∡ 37'18	-4.8m		8104 Jul 27 08:40	0° m)	
	8102 Feb 01 12:29	0°ಕ			8104 Aug 20 20:07	0。 ಹ	
morning max el	8102 Feb 24 14:05	20° る 36'13	46°34'34		8104 Sep 14 15:18	0° M	
	8102 Mar 05 16:41	0° ≈			8104 Oct 09 22:13	0° ∡ 7	
	8102 Apr 01 15:38	0° ∀		desc. node	8104 Oct 19 17:18	11° ∡ ¹24'07	
	8102 Apr 27 01:53	0 ° Υ			8104 Nov 04 23:44	0°₹	
desc. node	8102 May 04 23:24	9° Ƴ 30'39			8104 Dec 02 11:11	0° ≈	
	8102 May 21 19:53	0°8		evening max el	8104 Dec 17 00:34	14° ≈ 43′27	46°10'04
	8102 Jun 15 06:24	Π $^{\circ}0$			8105 Jan 02 23:43	0° ℋ	
	8102 Jul 09 14:14	0		greatest brilliancy	8105 Jan 25 18:11	14° ∺ 01′02	-4.8m
	8102 Aug 02 21:55	$0 {\circ} \Omega$		retrograde	8105 Feb 04 13:14	15°) 48′29	
asc. node	8102 Aug 25 21:28	28° Ω 19'26		asc. node	8105 Feb 09 17:20	15° ∺ 15'48	
	8102 Aug 27 06:06	O° Mp		evening set	8105 Feb 19 03:18	11° ∺ 37'15	
morning set	8102 Aug 29 08:00	2° m/33'42		inferior conj	8105 Feb 25 06:11	8° ₩ 01'53	3°52'58
	8102 Sep 20 14:24	0∘ ⊽		minimum elong	8105 Feb 24 21:54	8° 升 14'35	3°50'36
				min. Earth dist.	8105 Feb 25 07:15	8° ₩ 00'15	0.27078 AU
superior conj	8102 Oct 05 09:54	18° ≏ 15'28	1°18'04	morning rise	8105 Mar 02 16:10	4°) 48'40	
minimum elong	8102 Oct 05 02:44	17° ♀ 53'23	1°17'58	direct	8105 Mar 17 23:29	0° ₩ 10'35	
max. Earth dist.	8102 Oct 05 13:27	18° ≏ 26'25	1.73309 AU	greatest brilliancy	8105 Mar 28 04:31	2°) €08'46	-4.9m
	8102 Oct 14 22:32	0°M			8105 May 04 09:58	0 ° $\mathbf{\Upsilon}$	
	8102 Nov 08 06:53	0°⊀		morning max el	8105 May 07 12:44	3° Y ′06′10	46°59'30
evening rise	8102 Nov 10 19:47	3° ₹ 07'26		desc. node	8105 Jun 01 11:34	29° Ƴ 51'19	
Ü	8102 Dec 02 16:08	8°0			8105 Jun 01 14:40	0° ႘	
desc. node	8102 Dec 15 14:47	15° る 53'48			8105 Jun 27 15:52	$0^{\circ}\Pi$	
	8102 Dec 27 02:35	0° ≈			8105 Jul 22 22:22	0° ©	
	8103 Jan 20 14:10	0°) €			8105 Aug 16 21:01	0°N	
	8103 Feb 14 03:28	0°Υ			8105 Sep 10 15:30	0° m)	
	8103 Mar 10 21:38	0°8		asc. node	8105 Sep 22 09:40	14° m) 18'16	
	8103 Apr 05 04:33	0°II		use. Houe	8105 Oct 05 06:25	0∘ ত	
asc. node	8103 Apr 03 04:35 8103 Apr 07 14:06	2° ∏ 47'11			8105 Oct 05 00:25 8105 Oct 29 17:47	0° ™	
ase. Houe	8103 May 01 18:44	0°95		morning set	8105 Nov 05 23:43	8°M54'48	
evening max el	8103 May 14 20:33	13° © 40'09	46°49'04	morning set	8105 Nov 23 02:10	0° √	
Cvening max ti	8103 Jun 01 10:05	13 3 40 09 0° Ω	-ru =7.0 1	max. Earth dist.	8105 Dec 10 21:21	0 x . 21° x 59'48	1.72895 AU
		0 96		max. Earth dist.	6103 Dec 10 21:21	21 X 39 48	1.72893 AU
grantact brillianar-		1100006151	1 2m				
greatest brilliancy	8103 Jun 23 10:58	14°Ω06'56	-4.8m	aumania '	0105 D 12 16 21	240.7112122	1004157
retrograde	8103 Jun 23 10:58 8103 Jul 04 04:07	16° Ω 15′29	-4.8m	superior conj	8105 Dec 12 16:31		1°04'57
retrograde evening set	8103 Jun 23 10:58 8103 Jul 04 04:07 8103 Jul 19 03:17	16° Ω 15'29 11° Ω 52'33		superior conj minimum elong	8105 Dec 13 02:12	24° ∡ °43′19	
retrograde evening set inferior conj	8103 Jun 23 10:58 8103 Jul 04 04:07 8103 Jul 19 03:17 8103 Jul 25 07:23	16°Ω15'29 11°Ω52'33 8°Ω11'44	0°46'00		8105 Dec 13 02:12 8105 Dec 17 08:31	24° メ ⁴43'19 0° る	
retrograde evening set	8103 Jun 23 10:58 8103 Jul 04 04:07 8103 Jul 19 03:17	16° N 15'29 11° N 52'33 8° N 11'44 8° N 09'02	0°46'00		8105 Dec 13 02:12	24° ∡ °43′19	

	0106 I 10 22:20	1102011			0100 I 20 22.20	0° I I	
evening rise	8106 Jan 19 22:29 8106 Feb 03 17:08	11° ≈ 38'16 0°) €		mamina may al	8108 Jun 30 22:39 8108 Jul 19 16:47	0° П 17° П 01'50	46°27'47
	8106 Feb 03 17:08 8106 Feb 27 19:33	0 Υ 0° Υ		morning max el	8108 Aug 01 09:20	0°9	40 2/4/
	8106 Feb 27 19.33 8106 Mar 23 21:57	0° 8			8108 Aug 01 09.20 8108 Aug 28 17:31	0° U	
	8106 Mai 23 21:37 8106 Apr 17 03:07	0°U			•	0°m)	
asc. node	8106 Apr 17 03:07 8106 May 05 01:48	0 П 22°П00'37			8108 Sep 23 19:04 8108 Oct 19 04:41	0∘ ऌ ० ाप्र	
asc. node	8106 May 03 01.48 8106 May 11 15:32	0°9		asc. node	8108 Oct 19 04.41 8108 Oct 19 21:59	0° £ 51'34	
	8106 May 11 13.32 8106 Jun 05 18:01	0°Ω 0 €3		asc. node	8108 Oct 19 21.39 8108 Nov 13 03:15	0°M	
	8106 Jul 03 18:01 8106 Jul 01 23:54	0°Mp			8108 Nov 13 03:13 8108 Dec 07 17:28	0° ⊼ 7	
avanina may al	8106 Jul 24 22:17	رانا 0 24° الل 05'32	46°03'30		8109 Jan 01 01:46	0°중	
evening max el	8106 Jul 31 02:10	0° ⊡	40 03 30	morning set	8109 Jan 14 08:42	0 3 16° る 28'15	
desc. node	8106 Aug 24 20:25	0 = 19° £ 19'24		morning set	8109 Jan 25 05:58	10 3 28 13	
	8106 Aug 24 20.23 8106 Sep 01 10:20	19 2 19 24 22° 2 57'15	1 9m	desc. node	8109 Jan 23 03.38 8109 Feb 08 14:41	0 ≈ 17°≈53'55	
greatest brilliancy	=	22 ⊆ 37 13 25° ⊆ 07'10	-4.0111	desc. node	8109 Feb 18 07:11	0° \	
retrograde evening set	8106 Sep 12 08:34 8106 Sep 29 10:19	23 ⊆ 07 10 19° ⊆ 32'37		max. Earth dist.	8109 Feb 18 07:11 8109 Feb 19 14:09		1.71705 AU
inferior conj	8106 Sep 29 10.19 8106 Oct 03 20:55	19 = 32 37 16° ⊆ 48'35	7945105	max. Earth dist.	8109 FCU 19 14.09	1 / 3046	1./1/03 AU
	8106 Oct 03 20:53 8106 Oct 03 12:57	10 = 48 33		superior conj	8109 Feb 22 16:25	5°) 29'00	0022122
minimum elong min. Earth dist.	8106 Oct 03 12.37 8106 Oct 03 10:06		0.29072 AU		8109 Feb 22 16.23 8109 Feb 22 08:32	5° \ 04'20	
		17 2 03 32 14° 2 28'25	0.29072 AU	minimum elong	8109 Feb 22 08:32 8109 Mar 14 06:01	5 π0420 0°Υ	0 32 37
morning rise direct	8106 Oct 07 15:45 8106 Oct 25 09:24	8° £ 33'38		evening rise	8109 Mai 14 00.01 8109 Apr 03 19:55	25° Υ 50'04	
	8106 Oct 23 09.24 8106 Nov 04 11:18		-4.7m	evening rise	8109 Apr 07 03:31	0° 8	
greatest brilliancy	8106 Nov 04 11.18 8106 Dec 03 21:32	0°M	-4./111			0°II	
marning may al	8106 Dec 03 21.32 8106 Dec 13 10:18	8°M52'28	45°50'08		8109 May 01 01:30 8109 May 25 02:27	0°©	
morning max el asc. node	8106 Dec 15 10:18 8106 Dec 15 20:01	11°M13'42	43 30 08	asc. node	8109 Jun 01 13:30	9° © 15'21	
asc. Houe	8100 Dec 13 20:01 8107 Jan 02 20:59	0° × 7		asc. node	8109 Jun 18 09:04	9 3 1321	
	8107 Jan 29 10:40	0°중			8109 Jul 13 00:30	0°m)	
	8107 Feb 23 17:16	0°≈				0∘ ऌ ० ाप्र	
	8107 Feb 23 17:16 8107 Mar 20 08:22	0 ≈ 0° ∀			8109 Aug 07 05:50 8109 Sep 02 11:57	0°M	
desc. node	8107 Apr 06 13:07	21°) 13'42		desc. node	8109 Sep 02 11.57 8109 Sep 21 07:51	20°M13'52	
desc. flode	8107 Apr 13 14:47	21 χ1342 0° γ		desc. Hode	8109 Sep 21 07:31 8109 Oct 01 00:48	20 lic13 32 0° x̄ 1	
	8107 May 07 16:24	0°8		evening max el	8109 Oct 01 00.48 8109 Oct 03 18:46	0 x ⁴ 2° x ⁴39'32	45940!26
	8107 May 31 16:10	0°U		evening max er	8109 Oct 03 18.46 8109 Nov 09 20:05	2 x・39 32 0°る	45 40 50
morning set	8107 Jun 16 20:15	20° Ⅱ 12'50		greatest brilliancy	8109 Nov 11 23:27	0° ろ 46'33	4.7m
morning set	8107 Jun 10 20:13 8107 Jun 24 16:23	20 H 12 30		retrograde	8109 Nov 21 10:55	2°る24'24	-4. / 111
	8107 Jul 18 18:33	0°Ω		renograde	8109 Nov 21 10:55 8109 Dec 02 12:55	2 024 24 30°R. ₹	
	010/Jul 10 10.33	0 00		evening set	8109 Dec 02 12:33 8109 Dec 08 08:15	27° ₹ 101'42	
superior conj	8107 Jul 25 17:37	8° Ω 38'46	-0°06'40	inferior conj	8109 Dec 12 18:14	24° × 19'54	-6°37'16
minimum elong	8107 Jul 25 17:37 8107 Jul 25 19:12	8° Ω 43'40	0°06'42	minimum elong	8109 Dec 13 04:15	24°×704'13	6°35'09
behind sun begin	8107 Jul 23 19:12 8107 Jul 24 21:05	7° Ω 35'01	0 00 42	min. Earth dist.	8109 Dec 13 04:13 8109 Dec 13 14:23	23°×748'21	0.28511 AU
behind sun end	8107 Jul 26 17:19	9° £ 53'01		morning rise	8109 Dec 17 23:45	21°× 08'38	0.20311710
asc. node	8107 Jul 28 11:17	12° Ω 02'29		direct	8110 Jan 03 02:38	16° ₹ 06'26	
max. Earth dist.	8107 Jul 28 16:55	12°Ω19'58	1.72519 AU	asc. node	8110 Jan 12 07:37	17° 🖈 41'13	
max. Darur dist.	8107 Aug 11 23:07	0° m	1.72317110	greatest brilliancy	8110 Jan 14 06:36	18° × ⁷ 23'38	-4.8m
evening rise	8107 Sep 01 09:58	25° m/ 15'51		greatest orimane y	8110 Feb 02 02:17	0°る	1.0111
e vennig rise	8107 Sep 05 06:11	0° ت		morning max el	8110 Feb 22 04:23	18° る 16'30	46°33'03
	8107 Sep 29 16:09	0° M		morning max or	8110 Mar 05 11:40	0° ≈	10 33 03
	8107 Oct 24 06:07	0° ∡ 7			8110 Apr 01 06:36	0°) €	
desc. node	8107 Oct 24 00:07 8107 Nov 17 05:01	28° 🖈 58'23			8110 Apr 26 15:08	0° Υ	
acce. node	8107 Nov 17 03:01 8107 Nov 18 01:30	0°る		desc. node	8110 May 04 01:31	8° Υ 58'04	
	8107 Dec 13 03:41	0° ≈		dese. Hode	8110 May 21 08:13	0°8	
	8108 Jan 07 15:14	0° ∀			8110 Jun 14 18:08	0°II	
	8108 Feb 02 20:31	0° Υ			8110 Jul 09 01:34	0°©	
evening max el	8108 Feb 28 21:49	27° Υ 51'42	46°54'15		8110 Aug 02 08:57	$0^{\circ}\Omega$	
o voiming main or	8108 Mar 02 01:15	0°8	.0 0 . 10	asc. node	8110 Aug 24 23:24	27° £ 52′02	
asc. node	8108 Mar 09 04:43	6° 8 52'22			8110 Aug 26 16:56	0° m	
greatest brilliancy	8108 Apr 09 12:21	28° 8 51'28	-4.9m	morning set	8110 Aug 27 00:24	0° mp 23'01	
5. Carest Orimancy	8108 Apr 13 09:51	0°II	1.7111	morning set	8110 Aug 27 00:24 8110 Sep 20 01:05	0° ⊡	
retrograde	8108 Apr 19 08:54	0° П 41'28			22.2.2 ep 2 0 01.00		
	8108 Apr 25 04:05	30°R\bigs		superior conj	8110 Oct 03 03:40	16° ≏ 09'36	1°16'39
evening set	8108 May 07 11:41	24° 8 24'37		minimum elong	8110 Oct 03 03:40 8110 Oct 02 20:04		1°16'32
inferior conj	8108 May 10 00:49	22° 8 50'53	9°03'19	max. Earth dist.	8110 Oct 02 20:04 8110 Oct 03 07:30	16° £ 21'23	1.73302 AU
minimum elong	8108 May 10 00:43	22° 8 44'52	9°03'00	man. Durin dist.	8110 Oct 14 09:10	0°M	1.,5502 110
min. Earth dist.	8108 May 09 23:01	22° 8 53'39	0.27162 AU		8110 Oct 14 09:10 8110 Nov 07 17:35	0° ⊼ 7	
morning rise	8108 May 12 21:50	21° 8 05'32	0.27102 AU	evening rise	8110 Nov 07 17.33 8110 Nov 08 13:08	0 x ⁴ 1° x ⁴00'09	
direct	8108 May 30 17:14	15° 8 03'44		evening 1150	8110 Nov 08 13:08 8110 Dec 02 03:02	0°る	
greatest brilliancy	8108 Jun 09 05:43	16° 8 46'28	-4.9m	desc. node	8110 Dec 02 03:02 8110 Dec 14 16:46	0 5 15° る 25'57	
desc. node	8108 Jun 28 23:10	28° 8 25'48	7.7111	desc. Houc	8110 Dec 14 16:46 8110 Dec 26 13:49	13 3 23 37 0° ≈	
desc. Hode	5100 Juli 20 23.10	20 025 40			5110 Dec 20 15.79	0 /0	

	0111 7 20 01 50	001/			0112 1 27 05 42	00 T	
	8111 Jan 20 01:50	0° ℋ 0° Ƴ			8113 Jun 27 05:42	0° I I	
	8111 Feb 13 15:45				8113 Jul 22 10:52	0°©	
	8111 Mar 10 10:50	0°B 0°B			8113 Aug 16 08:42	0° N	
asc. node	8111 Apr 04 19:24 8111 Apr 06 16:11	0°П 2°П09'40		1-	8113 Sep 10 02:38	0° Т р 13° Т р51'08	
asc. node	8111 Apr 00 10.11 8111 May 01 13:24	2 п 0940		asc. node	8113 Sep 21 11:42 8113 Oct 04 17:11	0₀ ʊ 12 M2109	
avanina may al	8111 May 01 13.24 8111 May 12 09:55	11° © 17'16	46050122		8113 Oct 04 17:11 8113 Oct 29 04:22	0°M	
evening max el	8111 Jun 01 20:48	0°Ω	40 30 22	morning set	8113 Oct 29 04.22 8113 Nov 03 17:08	6°M48'14	
greatest brilliancy	8111 Jun 21 02:43	11° Ω 49'32	-4.8m	morning set	8113 Nov 03 17:08 8113 Nov 22 12:40	0° 📈	
retrograde	8111 Jul 01 19:03	13° Ω 57'50	-4.0111	max. Earth dist.	8113 Dec 08 15:56	19° ∡ 56′21	1.72922 AU
evening set	8111 Jul 16 19:08	9° Ω 33'04		max. Lartii dist.	0113 DCC 00 13.30	17 × 3021	1.72722 AO
inferior conj	8111 Jul 22 21:54	5° Ω 54'33	1°08'09	superior conj	8113 Dec 10 09:04	22° ₹ '03'35	1°07'06
minimum elong	8111 Jul 23 00:29	5° Ω 50'33	1°07'13	minimum elong	8113 Dec 10 03:04		1°06'58
min. Earth dist.	8111 Jul 22 13:33	6° Ω 07'30	0.27782 AU	minimum crong	8113 Dec 16 19:03	0°る。	1 00 20
desc. node	8111 Jul 27 10:48	3° Ω 09'47	0.27702710		8114 Jan 10 00:06	0° ≈	
morning rise	8111 Jul 29 06:19	2°Ω09'04		desc. node	8114 Jan 11 04:37	1° ≈ 28'25	
morning 1150	8111 Aug 02 19:46	30°R.55		evening rise	8114 Jan 17 13:11	9° ≈ 21'48	
direct	8111 Aug 12 21:22	27° © 58'42			8114 Feb 03 03:54	0° ∀	
greatest brilliancy	8111 Aug 22 17:54	29°5544'30	-4.8m		8114 Feb 27 06:32	0° Υ	
greatest similare	8111 Aug 23 11:26	0°Ω			8114 Mar 23 09:15	0°8	
morning max el	8111 Sep 30 18:09	27° Ω 56'36	45°47'04		8114 Apr 16 14:52	0°II	
	8111 Oct 02 21:23	0° m)		asc. node	8114 May 04 03:45	21° I I29'28	
	8111 Oct 31 15:45	0∘ ⊽		use. Hour	8114 May 11 03:57	0.2 2	
asc. node	8111 Nov 17 10:08	ა — 18° ჲ 48'14			8114 Jun 05 07:38	$0^{\circ}\Omega$	
	8111 Nov 27 03:33	0°M₊			8114 Jul 01 16:10	0° m)	
	8111 Dec 22 13:11	0° ∡ ¹		evening max el	8114 Jul 22 14:38	21° m 54'39	46°05'04
	8112 Jan 16 07:41	0°ెవ		<i>5</i>	8114 Jul 31 03:06	0∘ <u>⊽</u>	
	8112 Feb 09 16:59	0° ≈		desc. node	8114 Aug 23 22:28	17° ≙ 56'51	
	8112 Mar 04 20:25	0°) €		greatest brilliancy	8114 Aug 30 02:04	20° ≏ 47'28	-4.8m
desc. node	8112 Mar 08 02:54	4°) €04'54		retrograde	8114 Sep 10 00:59	22° ♀ 57'43	
	8112 Mar 28 19:54	$0^{\circ}\mathbf{Y}$		evening set	8114 Sep 26 23:29	17° ≏ 28'13	
morning set	8112 Mar 29 15:02	0° Y 59'58		min. Earth dist.	8114 Oct 01 01:15	14° ≏ 58'04	0.29044 AU
	8112 Apr 21 17:01	0°8		inferior conj	8114 Oct 01 13:09	14° ≏ 39'23	-7°36'11
	-			minimum elong	8114 Oct 01 04:44	14° ≏ 52'36	7°34'59
superior conj	8112 May 09 09:58	22° 8 15'59	-1°26'32	morning rise	8114 Oct 05 10:13	12° ≏ 15'48	
minimum elong	8112 May 09 13:49	22° 8 28'04	1°26'38	direct	8114 Oct 23 01:54	6° ₽ 25'13	
max. Earth dist.	8112 May 10 21:55	24° 8 08'55	1.71296 AU	greatest brilliancy	8114 Nov 02 01:44	8° ≏ 14'11	-4.7m
	8112 May 15 13:41	Π $^{\circ}0$			8114 Dec 03 23:16	0° M	
	8112 Jun 08 11:59	0° ©		morning max el	8114 Dec 11 01:23	6° M 40'11	45°49'06
evening rise	8112 Jun 18 18:33	12° © 49'49		asc. node	8114 Dec 14 21:55	10° M 27'34	
asc. node	8112 Jun 29 01:15	25° © 37'54			8115 Jan 02 13:13	0° ∡	
	8112 Jul 02 13:36	$0^{\circ}\Omega$			8115 Jan 29 00:07	8°0	
	8112 Jul 26 19:37	0° m)			8115 Feb 23 05:29	0° ≈	
	8112 Aug 20 07:18	0∘ ⊽			8115 Mar 19 19:56	0° ∀	
	8112 Sep 14 02:59	0° M ₊		desc. node	8115 Apr 05 15:13	20°) 45′13	
	8112 Oct 09 10:51	0° ∡			8115 Apr 13 01:59	0° Y	
desc. node	8112 Oct 18 19:22	10° х 52′09			8115 May 07 03:22	9° 8	
	8112 Nov 04 14:10	0°ಕ			8115 May 31 02:59	Π °0	
	8112 Dec 02 05:49	0° ≈		morning set	8115 Jun 14 09:25	17° Ⅲ 50'33	
evening max el	8112 Dec 14 15:25	12° ≈ 27'47	46°08'31		8115 Jun 24 03:04	0 \circ	
	8113 Jan 03 11:56	0° ∀			8115 Jul 18 05:07	0 $^{\circ}$ Ω	
greatest brilliancy	8113 Jan 23 06:45	11° ∺ 38′06	-4.8m				
retrograde	8113 Feb 02 02:46	13° ¥ 25′51		superior conj	8115 Jul 23 08:11	6° Ω 22'11	
asc. node	8113 Feb 08 19:16	12° ∺ 31′08		minimum elong	8115 Jul 23 10:37	6° Ω 29'42	0°10'14
evening set	8113 Feb 16 15:06	9° ∺ 16'21		behind sun begin	8115 Jul 22 15:46	5° Ω 31'11	
inferior conj	8113 Feb 22 19:22	5°) 38'48	3°31'03	behind sun end	8115 Jul 24 05:27	7° Ω 28'11	
minimum elong	8113 Feb 22 11:44	5° ¥ 50′30	3°28'50	max. Earth dist.	8115 Jul 26 10:57		1.72473 AU
min. Earth dist.	8113 Feb 22 20:55	5°) 36′26	0.27102 AU	asc. node	8115 Jul 27 13:15	11° Ω 35'49	
morning rise	8113 Feb 28 08:06	2° ∺ 21'56			8115 Aug 11 09:39	0° m	
	8113 Mar 05 03:58	30°R≈		evening rise	8115 Aug 30 02:46	23° m, 07'08	
direct	8113 Mar 15 13:42	27° ≈ 47'06			8115 Sep 04 16:43	0∘ ত	
greatest brilliancy	8113 Mar 25 18:37	29° ≈ 45'36	-4.9m		8115 Sep 29 02:50	0° M -	
	8113 Mar 26 09:47	0° ∀			8115 Oct 23 17:07	0° ∡ ¹	
	8113 May 04 09:16	0° Υ		desc. node	8115 Nov 16 06:57	28° ₹ 29'42	
morning max el	8113 May 05 03:28	0° Υ 45'44	46°59'31		8115 Nov 17 13:00	5°0	
desc. node	8113 May 31 13:28	29° Y 10′28			8115 Dec 12 16:01	0° ≈	
	8113 Jun 01 07:03	9° 8			8116 Jan 07 04:58	0° ∀	

	8116 Feb 02 12:57	0° Y		asc. node	8118 Aug 24 01:26	27° Ω 25'36	
evening max el	8116 Feb 26 10:53	25° Y 27′28	46°53'13	morning set	8118 Aug 24 16:50	28° Ω 13'05	
aga mada	8116 Mar 02 01:08	0°8			8118 Aug 26 03:31	0 ்⊽ 0 ்மி	
asc. node greatest brilliancy	8116 Mar 08 06:50 8116 Apr 07 02:23	5° 8 53'40 26° 8 28'05	-4.9m		8118 Sep 19 11:35	0-22	
retrograde	8116 Apr 16 21:35	28° 8 17'00	- 4 .7III	superior conj	8118 Sep 30 21:20	14° ≙ 03'49	1°15'08
evening set	8116 May 05 01:58	21° 8 59'00		minimum elong	8118 Sep 30 13:19	13° ≏ 39'08	1°14'58
inferior conj	8116 May 07 13:55	20° 8 26'58	9°07'06	max. Earth dist.	8118 Oct 01 02:26	14° ≏ 19'33	1.73298 AU
minimum elong	8116 May 07 16:52	20° 8 22'25	9°06'52		8118 Oct 13 19:38	0° M	
min. Earth dist.	8116 May 07 12:01	20° 8 29'55	0.27150 AU	evening rise	8118 Nov 06 06:24	28°M53'08	
morning rise	8116 May 10 07:49	18° 8 46'07			8118 Nov 07 04:08	0° ∡ ¹	
direct	8116 May 28 05:46	12° 8 39'56	4.0	1 1	8118 Dec 01 13:47	0°る	
greatest brilliancy desc. node	8116 Jun 06 18:46 8116 Jun 28 01:09	14° 8 22'39 27° 8 15'46	-4.9m	desc. node	8118 Dec 13 18:38 8118 Dec 26 00:53	14°る58'18 0°≈	
desc. node	8116 Jul 28 01:09 8116 Jul 01 08:54	27 Ο 13 46			8119 Jan 19 13:22	0 ≈ 0° ∺	
morning max el	8116 Jul 17 05:14	14° ∏ 37'58	46°29'21		8119 Feb 13 03:55	0° Υ	
morning must be	8116 Aug 01 03:51	0.ಪ	.0 29 21		8119 Mar 09 23:58	0°8	
	8116 Aug 28 08:00	$0^{\circ}\Omega$			8119 Apr 04 10:18	0°II	
	8116 Sep 23 07:43	0° m		asc. node	8119 Apr 05 18:09	1° Ⅲ 31'55	
asc. node	8116 Oct 18 23:56	0° ≏ 22'40			8119 May 01 08:25	0ංම	
	8116 Oct 18 16:21	0∘ ⊽		evening max el	8119 May 10 00:21	8°957'37	46°51'41
	8116 Nov 12 14:19	0°M			8119 Jun 02 10:54	0 $^{\circ}\Omega$	
	8116 Dec 07 04:14	0° ∡ 7		greatest brilliancy	8119 Jun 18 18:06	9° Ω 32'21	-4.8m
marning gat	8116 Dec 31 12:22 8117 Jan 11 23:36	0°る 14°る12'39		retrograde	8119 Jun 29 10:34	11° Ω 40'49 7° Ω 14'01	
morning set	8117 Jan 24 16:33	0°≈		evening set min. Earth dist.	8119 Jul 14 11:14 8119 Jul 20 04:37	3° Ω 50'01	0.27745 AU
desc. node	8117 Feb 07 16:42	0 ~ 17° ≈ 27'07		inferior conj	8119 Jul 20 12:28	3° Ω 37'53	1°30'12
max. Earth dist.	8117 Feb 17 01:03	29° ≈ 07'38	1.71747 AU	minimum elong	8119 Jul 20 15:52	3° Ω 32'37	1°29'01
	8117 Feb 17 17:48	0°) €		morning rise	8119 Jul 26 21:01	29°552'42	
				desc. node	8119 Jul 26 12:49	0° Ω 03'47	
superior conj	8117 Feb 20 04:51	3°) €04'35			8119 Jul 26 15:36	30° ℝ ∽	
minimum elong	8117 Feb 19 21:43	2°) (42'18	0°29'24	direct	8119 Aug 10 11:33	25°9542'24	
	8117 Mar 13 16:42	0° Υ		greatest brilliancy	8119 Aug 20 08:04	27° © 28'39	-4.8m
evening rise	8117 Apr 01 07:19 8117 Apr 06 14:15	23° Y 21'30 0° ႘		mamina may al	8119 Aug 26 06:05	0° Ω 25° Ω 45'46	45°47'52
	8117 Apr 06 14:15 8117 Apr 30 12:19	0°U		morning max el	8119 Sep 28 10:01 8119 Oct 02 18:44	25° 3′2 45′46	45-47-52
	8117 May 24 13:26	0° ©			8119 Oct 31 07:00	0∘ ⊽	
asc. node	8117 May 31 15:23	8°546'54		asc. node	8119 Nov 16 12:00	18° ♀ 14'34	
	8117 Jun 17 20:22	$0^{\circ}\Omega$			8119 Nov 26 16:33	0°M	
	8117 Jul 12 12:22	0° Mp			8119 Dec 22 01:08	0° ∡ ¹	
	8117 Aug 06 18:45	0∘ ⊽			8120 Jan 15 19:05	ರ°0	
	8117 Sep 02 03:06	0° M			8120 Feb 09 04:06	0° ≈	
desc. node	8117 Sep 20 09:55	19°M31'53			8120 Mar 04 07:24	0° \	
evening max el	8117 Sep 30 22:18 8117 Oct 01 08:39	0° ⊀ 7 0° ⊀ 24'52	45940127	desc. node morning set	8120 Mar 07 04:53 8120 Mar 27 01:30	3° ∺ 36'54 28° ∺ 28'11	
greatest brilliancy	8117 Oct 01 08:39 8117 Nov 09 13:59	28° х 34'35		morning set	8120 Mar 28 06:47	20 γ 20 11	
greatest orimaney	8117 Nov 15 16:35	0°る	4.7m		8120 Apr 21 03:52	0°8	
retrograde	8117 Nov 19 01:59	0° る 13'09			r	. •	
	8117 Nov 22 10:04	30°R. ✓		superior conj	8120 May 06 21:02	19° 8 45'44	-1°27'06
evening set	8117 Dec 06 02:25	24° ₹ 45′28		minimum elong	8120 May 06 23:50	19° 8 54'33	1°27'12
inferior conj	8117 Dec 10 09:46	22° 尽 07'41		max. Earth dist.	8120 May 08 06:24	21° 8 30'37	1.71279 AU
minimum elong	8117 Dec 10 19:38	21° 🗷 52'16	6°48'05		8120 May 15 00:32	0°II	
min. Earth dist.	8117 Dec 11 05:44	21° х 36'29	0.28567 AU		8120 Jun 07 22:51	0°©	
morning rise direct	8117 Dec 15 12:22 8117 Dec 31 18:07	19° х 00′41 13° х 53′20		evening rise asc. node	8120 Jun 16 06:51 8120 Jun 28 03:17	10°©24'42 25°©10'23	
asc. node	8118 Jan 11 09:38	15° ₹ 58'27		asc. node	8120 Jul 02 00:29	0°Ω	
greatest brilliancy	8118 Jan 11 22:58	16° ₹ 11'12	-4.8m		8120 Jul 26 06:37	0° m)	
<u> </u>	8118 Feb 02 12:03	0°ප			8120 Aug 19 18:33	0∘ ⊽	
morning max el	8118 Feb 19 19:40	16° පි 00'22	46°31'30		8120 Sep 13 14:46	0° M	
	8118 Mar 05 05:49	0° ≈			8120 Oct 08 23:38	0° ∡ ¹	
	8118 Mar 31 21:04	0°) €		desc. node	8120 Oct 17 21:15	10° ∡ 19′12	
	8118 Apr 26 04:01	0°Υ			8120 Nov 04 04:56	0°ප	
desc. node	8118 May 03 03:21	8°Υ25'32		• •	8120 Dec 02 01:13	0° ≈	46006154
	8118 May 20 20:13 8118 Jun 14 05:33	0°B 0°B		evening max el	8120 Dec 12 06:42 8121 Jan 04 04:41	10° ≈ 12'39 0° 米	46°06'54
	8118 Jul 08 12:36	0. 0.П		greatest brilliancy	8121 Jan 04 04:41 8121 Jan 20 19:54	0° π 9° ∺ 15'28	-4.8m
	8118 Aug 01 19:43	0°Ω		retrograde	8121 Jan 30 16:03	11° X 02'39	1.0111
	8118 Aug 01 19:45	U AI.					

asc. node	8121 Feb 07 21:21	9°) 40′20		minimum elong	8123 Jul 21 01:54	4° Ω 14'14	0°13'44
evening set	8121 Feb 14 03:14	6° 升 54'57		behind sun begin	8123 Jul 20 13:12	3° Ω 34'48	
inferior conj	8121 Feb 20 08:35	3° 升 15′29	3°08'51	behind sun end	8123 Jul 21 14:36	4° Ω 53'41	
minimum elong	8121 Feb 20 01:40	3° ¥ 26′07	3°06'49	max. Earth dist.	8123 Jul 24 03:14	8° Ω 01'53	1.72427 AU
min. Earth dist.	8121 Feb 20 10:51	3°) 12′00	0.27123 AU	asc. node	8123 Jul 26 15:17	11° Ω 08'15	
morning rise	8121 Feb 25 23:52	29° ≈ 54'56			8123 Aug 10 20:33	0° m/y	
morning rise	8121 Feb 25 20:12	30°R≈		evening rise	8123 Aug 27 19:32	20° mp 57'06	
direct		25°≈23'33		evening rise	•	20 m/3700 0° Ω	
direct	8121 Mar 13 03:48		4.0		8123 Sep 04 03:41		
greatest brilliancy	8121 Mar 23 08:48	27°≈22'08	-4.9m		8123 Sep 28 13:56	0°M	
	8121 Mar 29 03:48	0° ∀			8123 Oct 23 04:30	0°⊀	
morning max el	8121 May 02 17:27	28°) 23′04	46°59'24	desc. node	8123 Nov 15 08:56	28° ≯ 00'01	
	8121 May 04 07:43	0 ° $\mathbf{\Upsilon}$			8123 Nov 17 00:55	0°₹	
desc. node	8121 May 30 15:28	28° Ƴ 29'57			8123 Dec 12 04:48	0° ≈	
	8121 May 31 23:16	$6^{\circ}B$			8124 Jan 06 19:16	0°) €	
	8121 Jun 26 19:33	$\Pi^{\circ}0$			8124 Feb 02 06:13	$0^{\circ}\mathbf{\Upsilon}$	
	8121 Jul 21 23:28	0°ಅ		evening max el	8124 Feb 23 23:15	22° Y 59'55	46°52'01
	8121 Aug 15 20:31	$0^{\circ}\Omega$		Ü	8124 Mar 02 02:59	0°8	
	8121 Sep 09 13:55	0° mp		asc. node	8124 Mar 07 08:45	4° 8 51'14	
asc. node	8121 Sep 09 13:39	13° m)23'11		greatest brilliancy	8124 Apr 04 16:15	24° 8 02'11	-4.9m
asc. Houe	-				•	_	-4.9111
	8121 Oct 04 04:07	0∘ 亚		retrograde	8124 Apr 14 10:05	25° 8 50'16	
	8121 Oct 28 15:07	0° ™		evening set	8124 May 02 15:29	19° 8 31'41	
morning set	8121 Nov 01 10:39	4°M41'30		inferior conj	8124 May 05 02:49	18° 8 00'42	9°09'53
	8121 Nov 21 23:23	0° √		minimum elong	8124 May 05 04:47	17° 8 57'40	9°09'42
max. Earth dist.	8121 Dec 06 08:57	17° ∡ ⁴47'23	1.72954 AU	min. Earth dist.	8124 May 05 00:56	18° 8 03'37	0.27138 AU
				morning rise	8124 May 07 18:07	16° 8 23'45	
superior conj	8121 Dec 08 01:43	19° ∡ 53′27	1°09'09	direct	8124 May 25 17:46	10° 8 13'33	
minimum elong	8121 Dec 08 11:01	20° ∡ ¹22'11	1°09'02	greatest brilliancy	8124 Jun 04 07:55	11° 8 56'55	-4.9m
Č	8121 Dec 16 05:49	0°ರ		desc. node	8124 Jun 27 03:14	26° 8 06'13	
	8122 Jan 09 11:00	0° ≈		***************************************	8124 Jul 01 17:06	0°П	
desc. node	8122 Jan 10 06:42	1°≈01'03		morning max el	8124 Jul 14 17:57	12° Ⅱ 13'08	46°31'03
evening rise	8122 Jan 15 03:44	7°≈04'00		morning max ci		0°95	40 31 03
evening rise					8124 Jul 31 22:23		
	8122 Feb 02 14:58	0°) €			8124 Aug 27 22:44	0° Ω	
	8122 Feb 26 17:50	0°Υ			8124 Sep 22 20:42	0° m	
	8122 Mar 22 20:51	0°8		asc. node	8124 Oct 18 01:48	29° m 52'17	
	8122 Apr 16 02:54	Π $\circ 0$			8124 Oct 18 04:23	0∘ ⊽	
asc. node	8122 May 03 05:39	20° Ⅱ 57'17			8124 Nov 12 01:48	0° M	
	8122 May 10 16:41	0ಂ ತಾ			8124 Dec 06 15:23	0° ∡ 7	
	8122 Jun 04 21:40	$0^{\circ}\Omega$			8124 Dec 30 23:22	o°る	
	8122 Jul 01 09:05	0° m		morning set	8125 Jan 09 14:54	11° る 57'06	
evening max el	8122 Jul 20 06:22	19° m 41'03	46°06'33	Ü	8125 Jan 24 03:31	0° ≈	
* · · · · · · · · · · · · · · · · · · ·	8122 Jul 31 05:54	0∘ ಹ		desc. node	8125 Feb 06 18:42	16° ≈ 59'05	
desc. node	8122 Aug 23 00:33	16° ≏ 30'29		max. Earth dist.	8125 Feb 14 15:05	26° ≈ 47'09	1.71792 AU
greatest brilliancy	8122 Aug 27 18:21	18° ⊆ 37'06	-4.8m	max. Lartii dist.	8125 Feb 17 04:48	0° H	1./1/ <i>)</i> 2 AO
	-		-4.0111		6123 Feb 17 04.46	0 /(
retrograde	8122 Sep 07 16:58	20° £ 47'09			0125 F 1 17 17 26	001/20120	0026114
evening set	8122 Sep 24 12:35	15° Ω 22'48		superior conj	8125 Feb 17 17:26	0°) (39'29	
min. Earth dist.	8122 Sep 28 16:47	12° ≏ 48'59	0.29013 AU	minimum elong	8125 Feb 17 11:07	0°) 19'42	0°25'50
inferior conj	8122 Sep 29 05:21	12° ≏ 29'13			8125 Mar 13 03:48	0° Υ	
minimum elong	8122 Sep 28 20:33	12° ≏ 43'04	7°25'15	evening rise	8125 Mar 29 18:41	20° Y 51'33	
morning rise	8122 Oct 03 04:45	10° ≏ 01'58			8125 Apr 06 01:27	9° 8	
direct	8122 Oct 20 17:49	4° ≙ 15'49			8125 Apr 29 23:38	Π $^{\circ}0$	
greatest brilliancy	8122 Oct 30 16:32	6° ₽ 03'22	-4.7m		8125 May 24 00:57	0 \circ \odot	
	8122 Dec 04 00:03	0°M		asc. node	8125 May 30 17:25	8° © 17'22	
morning max el	8122 Dec 08 15:36	4°M24'57	45°48'08		8125 Jun 17 08:12	$0^{\circ}\Omega$	
asc. node	8122 Dec 13 23:58	9° M 41'40			8125 Jul 12 00:46	0° m	
use. House	8123 Jan 02 05:31	0° ∡ 7			8125 Aug 06 08:14	0∘ ⊽	
		% ਰ ੇ			=	0° m .	
	8123 Jan 28 13:50	0°≈		desc. node	8125 Sep	18°M47'31	
	8123 Feb 22 18:03				8125 Sep 19 11:48		45040142
	8123 Mar 19 07:53	0° ∀		evening max el	8125 Sep 28 23:24	28°M11'01	45°40'42
desc. node	8123 Apr 04 17:08	20°) 14'49			8125 Sep 30 21:12	0° ∡	
	8123 Apr 12 13:34	0° Υ		greatest brilliancy	8125 Nov 07 03:55	26° ₹ 20'54	-4.7m
	8123 May 06 14:44	9° 8		retrograde	8125 Nov 16 17:29	28° х 00′50	
	8123 May 30 14:08	Π $^{\circ}0$		evening set	8125 Dec 03 20:35	22° ₰ 28'10	
morning set	8123 Jun 11 22:15	15° Ⅱ 26′08		inferior conj	8125 Dec 08 01:18	19° ₰ 754'20	-7°02'18
	8123 Jun 23 14:05	0ಂತಾ		minimum elong	8125 Dec 08 10:57	19° ∡ ³39'15	7°00'26
	8123 Jul 17 16:03	$0^{\circ}\Omega$		min. Earth dist.	8125 Dec 08 20:42	19° ∡ °24′02	0.28621 AU
				morning rise	8125 Dec 13 00:53	16° ₹ '51'54	
superior conj	8123 Jul 20 22:39	4° Ω 04'09	-0°13'46	direct	8125 Dec 29 10:06	11° ∡ ³39'16	
2-F 201 4011)	, 20 22.07	. 000107	,0		10.00	7. 57 10	

greatest brilliancy	8126 Jan 09 14:47	13° ∡ '57'18	-4 8m		8128 Jul 01 11:28	$0^{\circ}\Omega$	
asc. node	8126 Jan 10 11:38	14° √ 18'21			8128 Jul 25 17:44	0° m)	
	8126 Feb 02 19:33	0°る			8128 Aug 19 05:57	0∘ ⊽	
morning max el	8126 Feb 17 11:46	13° る 45'32	46°30'00		8128 Sep 13 02:43	0°M	
S	8126 Mar 04 23:53	0° ≈			8128 Oct 08 12:37	0° ∡ ¹	
	8126 Mar 31 11:43	0°) €		desc. node	8128 Oct 16 23:17	9° ∡ ¹46'13	
	8126 Apr 25 17:10	0° Υ			8128 Nov 03 19:58	0°ರ	
desc. node	8126 May 02 05:21	7° Y ′52′31			8128 Dec 01 21:16	0° ≈	
	8126 May 20 08:33	0°8		evening max el	8128 Dec 09 21:29	7° ≈ 56'16	46°05'15
	8126 Jun 13 17:22	$\Pi^{\circ}0$			8129 Jan 05 03:17	0° ∀	
	8126 Jul 08 00:02	0 \circ \odot		greatest brilliancy	8129 Jan 18 09:42	6° ¥ 53'45	-4.8m
	8126 Aug 01 06:53	$0 {\circ} \Omega$		retrograde	8129 Jan 28 04:50	8°) 39′39	
morning set	8126 Aug 22 08:59	26° Ω 01′05		asc. node	8129 Feb 06 23:17	6°) 44′27	
asc. node	8126 Aug 23 03:21	26° Ω 57'42		evening set	8129 Feb 11 15:40	4°) €33'30	
	8126 Aug 25 14:28	0° ™		inferior conj	8129 Feb 17 21:54	0°) 52'34	
	8126 Sep 18 22:24	0∘ ⊽		minimum elong	8129 Feb 17 15:45		2°44'28
				min. Earth dist.	8129 Feb 18 01:18	0°) (47′20	0.27145 AU
superior conj	8126 Sep 28 14:46		1°13'30		8129 Feb 19 08:06	30° ₹ ≈	
minimum elong	8126 Sep 28 06:23	11° ≙ 30′28	1°13'18	morning rise	8129 Feb 23 15:31	27° ≈ 28'21	
max. Earth dist.	8126 Sep 28 23:20	12° Ω 22'43	1.73291 AU	direct	8129 Mar 10 17:33	23°≈00'16	
	8126 Oct 13 06:27	0° ™		greatest brilliancy	8129 Mar 20 23:39	24°≈59'30	-4.9m
evening rise	8126 Nov 03 23:42	26° ™ 45'11			8129 Mar 30 20:24	0° ∀	
	8126 Nov 06 15:02	0° ⊀ ⁷		morning max el	8129 Apr 30 06:32	25°) 58'18	46°59'25
	8126 Dec 01 00:53	0°る		1 1	8129 May 04 05:14	0°Υ 27°00 5012 4	
desc. node	8126 Dec 12 20:44	14° る 30'18		desc. node	8129 May 29 17:32	27° Y 50′24	
	8126 Dec 25 12:18	0° ≈			8129 May 31 15:05	8°0	
	8127 Jan 19 01:12	0° ℋ 0° Ƴ			8129 Jun 26 09:08	0° Ⅱ	
	8127 Feb 12 16:22	0°Y			8129 Jul 21 11:52	0 ಂ ${f V}$	
	8127 Mar 09 13:24	0°U			8129 Aug 15 08:12	0° m)	
asc. node	8127 Apr 04 01:37 8127 Apr 04 20:03	0° П 53'01		asc. node	8129 Sep 09 01:06 8129 Sep 19 15:34	ربان 0 12° m ر55'19	
asc. Houe	8127 May 01 04:19	0.82 0.1722.01		asc. node	8129 Oct 03 14:59	0° ⊽	
evening max el	8127 May 07 04:19 8127 May 07 15:38		46°52'43		8129 Oct 03 14:39 8129 Oct 28 01:48	0 <u>=</u> 0°M	
evening max er	8127 Jun 03 06:35	0°Ω	40 32 43	morning set	8129 Oct 30 04:02	2°M34'31	
greatest brilliancy	8127 Jun 16 09:16	7° Ω 13'29	-4.9m	morning set	8129 Nov 21 10:01	2 1103∓31 0° √	
retrograde	8127 Jun 27 01:59	9° Ω 21'51	4.7111	max. Earth dist.	8129 Dec 04 01:06	15° ∡ 736'09	1.72983 AU
evening set	8127 Jul 12 03:21	4°Ω53'04		max. Bartii dist.	012) Bee 01 01.00	13 7 30 0)	1.72703710
inferior conj	8127 Jul 18 02:48	1° Ω 19'20	1°52'26	superior conj	8129 Dec 05 18:24	17° ∡ °43'47	1°11'05
minimum elong	8127 Jul 18 07:01		1°50'59	minimum elong	8129 Dec 06 03:24	18° х 11'39	
min. Earth dist.	8127 Jul 17 19:21		0.27709 AU	Č	8129 Dec 15 16:29	ರ°0	
	8127 Jul 20 06:28	30° ₹ 5			8130 Jan 08 21:46	0° ≈	
morning rise	8127 Jul 24 11:17	27° © 34'43		desc. node	8130 Jan 09 08:37	0° ≈ 33'37	
desc. node	8127 Jul 25 14:51	26° © 58'49		evening rise	8130 Jan 12 18:22	4° ≈ 47'00	
direct	8127 Aug 08 02:00	23° 5 24'26			8130 Feb 02 01:55	0°) €	
greatest brilliancy	8127 Aug 17 21:38	25° © 10'31	-4.8m		8130 Feb 26 05:02	0° Y	
	8127 Aug 27 23:41	$0^{\circ}\Omega$			8130 Mar 22 08:22	0°8	
morning max el	8127 Sep 26 01:43	23° Ω 33'32	45°48'44		8130 Apr 15 14:50	Π°	
		00 80			015011pr 15 11.50		
	8127 Oct 02 15:40	0° m)		asc. node	8130 May 02 07:44	20° Ⅱ 26′07	
	8127 Oct 30 22:15	0 ்⊽ 0்மி		asc. node	8130 May 02 07:44 8130 May 10 05:18	0∘დ	
asc. node	8127 Oct 30 22:15 8127 Nov 15 14:06	0° ჲ 17° ჲ 41'09		asc. node	8130 May 02 07:44 8130 May 10 05:18 8130 Jun 04 11:35	0 $_{\circ}$ \mathfrak{V}	
asc. node	8127 Oct 30 22:15 8127 Nov 15 14:06 8127 Nov 26 05:38	0° ჲ 17° ჲ 41'09 0°M			8130 May 02 07:44 8130 May 10 05:18 8130 Jun 04 11:35 8130 Jul 01 02:02	0°₩ 0°Ω 0°©	
asc. node	8127 Oct 30 22:15 8127 Nov 15 14:06 8127 Nov 26 05:38 8127 Dec 21 13:11	0° ⊆ 17° ⊆ 41'09 0° ™ 0° ⊀		asc. node	8130 May 02 07:44 8130 May 10 05:18 8130 Jun 04 11:35 8130 Jul 01 02:02 8130 Jul 17 21:16	0°5 0° Ω 0°m 17°m,26′11	46°07'59
asc. node	8127 Oct 30 22:15 8127 Nov 15 14:06 8127 Nov 26 05:38 8127 Dec 21 13:11 8128 Jan 15 06:37	0° <u>೧</u> 17° <u>೧</u> 41'09 0° M 0° % 0° %		evening max el	8130 May 02 07:44 8130 May 10 05:18 8130 Jun 04 11:35 8130 Jul 01 02:02 8130 Jul 17 21:16 8130 Jul 31 09:59	0°ഒ 0°മ 0°ൂ 17°ൂ26'11 0°െ	46°07'59
asc. node	8127 Oct 30 22:15 8127 Nov 15 14:06 8127 Nov 26 05:38 8127 Dec 21 13:11 8128 Jan 15 06:37 8128 Feb 08 15:22	0° Ω 17° Ω 41'09 0° M 0° ♂ 0° ♂		evening max el desc. node	8130 May 02 07:44 8130 May 10 05:18 8130 Jun 04 11:35 8130 Jul 01 02:02 8130 Jul 17 21:16 8130 Jul 31 09:59 8130 Aug 22 02:24	0°ഒ 0° Л 0°ആ 17°ആ26'11 0° ച 15° ച 01'43	
	8127 Oct 30 22:15 8127 Nov 15 14:06 8127 Nov 26 05:38 8127 Dec 21 13:11 8128 Jan 15 06:37 8128 Feb 08 15:22 8128 Mar 03 18:30	0° Ω 17° Ω 41'09 0° M 0° Ґ 0° Ґ 0° ద 0° ≈ 0° 升		evening max el desc. node greatest brilliancy	8130 May 02 07:44 8130 May 10 05:18 8130 Jun 04 11:35 8130 Jul 01 02:02 8130 Jul 17 21:16 8130 Jul 31 09:59 8130 Aug 22 02:24 8130 Aug 25 10:43	0°ഒ 0°ഒ 0°ൺ 17°ൺ26'11 0°ഒ 15°ഒ01'43	46°07'59 -4.8m
desc. node	8127 Oct 30 22:15 8127 Nov 15 14:06 8127 Nov 26 05:38 8127 Dec 21 13:11 8128 Jan 15 06:37 8128 Feb 08 15:22 8128 Mar 03 18:30 8128 Mar 06 06:48	0° £ 17° £41'09 0° M. 0° ⊀ 0° ♂ 0° ≈ 0° ¥ 3° ¥ (08'14		evening max el desc. node greatest brilliancy retrograde	8130 May 02 07:44 8130 May 10 05:18 8130 Jun 04 11:35 8130 Jul 01 02:02 8130 Jul 17 21:16 8130 Jul 31 09:59 8130 Aug 22 02:24 8130 Aug 25 10:43 8130 Sep 05 08:50	0°െ 0° വ 0° സ 17° സ 26'11 0° മ 15° മ01'43 16° മ27'33 18° മ37'37	
	8127 Oct 30 22:15 8127 Nov 15 14:06 8127 Nov 26 05:38 8127 Dec 21 13:11 8128 Jan 15 06:37 8128 Feb 08 15:22 8128 Mar 03 18:30 8128 Mar 06 06:48 8128 Mar 24 12:25	0° £ 17° £41'09 0° M. 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ¥ 3° ¥ 08'14 25° ¥ 57'28		evening max el desc. node greatest brilliancy retrograde evening set	8130 May 02 07:44 8130 May 10 05:18 8130 Jun 04 11:35 8130 Jul 01 02:02 8130 Jul 17 21:16 8130 Jul 31 09:59 8130 Aug 22 02:24 8130 Aug 25 10:43 8130 Sep 05 08:50 8130 Sep 22 01:45	0°© 0°П 0°Т 17°Т26'11 0° <u>മ</u> 15° <u>മ</u> 01'43 16° <u>മ</u> 27'33 18° <u>മ</u> 37'37	-4.8m
desc. node	8127 Oct 30 22:15 8127 Nov 15 14:06 8127 Nov 26 05:38 8127 Dec 21 13:11 8128 Jan 15 06:37 8128 Feb 08 15:22 8128 Mar 03 18:30 8128 Mar 06 06:48 8128 Mar 24 12:25 8128 Mar 27 17:47	0° Ω 17° Ω41'09 0° M 0° ౘ 0° ౘ 0° ‰ 0° ¥ 3° ¥ 08'14 25° ¥ 57'28 0° ❤		evening max el desc. node greatest brilliancy retrograde evening set inferior conj	8130 May 02 07:44 8130 May 10 05:18 8130 Jun 04 11:35 8130 Jul 01 02:02 8130 Jul 17 21:16 8130 Jul 31 09:59 8130 Aug 22 02:24 8130 Aug 25 10:43 8130 Sep 05 08:50 8130 Sep 22 01:45 8130 Sep 26 21:39	0°© 0°П 0°Т 17°Т26'11 0°മ 15°മ01'43 16°മ27'33 18°മ37'37 13°മ18'08 10°മ20'04	-4.8m -7°16'16
desc. node	8127 Oct 30 22:15 8127 Nov 15 14:06 8127 Nov 26 05:38 8127 Dec 21 13:11 8128 Jan 15 06:37 8128 Feb 08 15:22 8128 Mar 03 18:30 8128 Mar 06 06:48 8128 Mar 24 12:25	0° £ 17° £41'09 0° M. 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ¥ 3° ¥ 08'14 25° ¥ 57'28		evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong	8130 May 02 07:44 8130 May 10 05:18 8130 Jun 04 11:35 8130 Jul 01 02:02 8130 Jul 17 21:16 8130 Jul 31 09:59 8130 Aug 22 02:24 8130 Aug 25 10:43 8130 Sep 05 08:50 8130 Sep 22 01:45 8130 Sep 26 21:39 8130 Sep 26 12:31	0°© 0° N 0° M 17° M 26'11 0° മ 15° മ01'43 16° മ27'33 18° മ37'37 13° മ18'08 10° മ20'04 10° മ34'27	-4.8m -7°16'16 7°14'47
desc. node morning set	8127 Oct 30 22:15 8127 Nov 15 14:06 8127 Nov 26 05:38 8127 Dec 21 13:11 8128 Jan 15 06:37 8128 Feb 08 15:22 8128 Mar 03 18:30 8128 Mar 06 06:48 8128 Mar 24 12:25 8128 Mar 27 17:47 8128 Apr 20 14:47	0° ♀ 17° ♀41'09 0° M. 0° ♐ 0° ⋜ 0° ≈ 0° ¥ 3° ¥08'14 25° ¥57'28 0° ♀ 0° ♀	-1°27'28	evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	8130 May 02 07:44 8130 May 10 05:18 8130 Jun 04 11:35 8130 Jul 01 02:02 8130 Jul 17 21:16 8130 Jul 31 09:59 8130 Aug 22 02:24 8130 Aug 25 10:43 8130 Sep 05 08:50 8130 Sep 22 01:45 8130 Sep 26 21:39 8130 Sep 26 12:31 8130 Sep 26 08:46	0°റ 0° M 17° Mp 26'11 0° മ 15° മ01'43 16° മ27'33 18° മ37'37 13° മ18'08 10° മ20'04 10° മ34'27 10° മ40'21	-4.8m -7°16'16
desc. node morning set	8127 Oct 30 22:15 8127 Nov 15 14:06 8127 Nov 26 05:38 8127 Dec 21 13:11 8128 Jan 15 06:37 8128 Feb 08 15:22 8128 Mar 03 18:30 8128 Mar 06 06:48 8128 Mar 24 12:25 8128 Mar 27 17:47 8128 Apr 20 14:47	0° Ω 17° Ω 41'09 0° M. 0° 🖈 0° ౘ 0° ౘ 0° ¥ 3° ¥ 08'14 25° ¥ 57'28 0° ❤ 0° ℧		evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8130 May 02 07:44 8130 May 10 05:18 8130 Jun 04 11:35 8130 Jul 01 02:02 8130 Jul 17 21:16 8130 Jul 31 09:59 8130 Aug 22 02:24 8130 Aug 25 10:43 8130 Sep 05 08:50 8130 Sep 26 21:39 8130 Sep 26 12:31 8130 Sep 26 08:46 8130 Sep 30 23:28	0°© 0°N 0°M 17°M26'11 0° உ 15°	-4.8m -7°16'16 7°14'47
desc. node morning set superior conj minimum elong	8127 Oct 30 22:15 8127 Nov 15 14:06 8127 Nov 26 05:38 8127 Dec 21 13:11 8128 Jan 15 06:37 8128 Feb 08 15:22 8128 Mar 03 18:30 8128 Mar 06 06:48 8128 Mar 24 12:25 8128 Mar 27 17:47 8128 Apr 20 14:47 8128 May 04 08:23 8128 May 04 10:06	0°亞 17°亞41'09 0°肌 0°ズ 0°ズ 0°ズ 0°ズ 0°※ 0°米 3°米08'14 25°米57'28 0°Ƴ 0°℧	1°27'35	evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8130 May 02 07:44 8130 May 10 05:18 8130 Jun 04 11:35 8130 Jul 01 02:02 8130 Jul 17 21:16 8130 Jul 31 09:59 8130 Aug 22 02:24 8130 Aug 25 10:43 8130 Sep 05 08:50 8130 Sep 22 01:45 8130 Sep 26 21:39 8130 Sep 26 12:31 8130 Sep 26 08:46 8130 Sep 30 23:28 8130 Oct 18 09:21	0°© 0°N 17°M26'11 0°ഇ 15°ഇ01'43 16°ഇ27'33 18°ഇ37'37 13°ഇ18'08 10°ഇ20'04 10°ഇ34'27 10°ഇ40'21 7°ഇ49'03 2°ഇ07'10	-4.8m -7°16'16 7°14'47 0.28983 AU
desc. node morning set	8127 Oct 30 22:15 8127 Nov 15 14:06 8127 Nov 26 05:38 8127 Dec 21 13:11 8128 Jan 15 06:37 8128 Feb 08 15:22 8128 Mar 03 18:30 8128 Mar 06 06:48 8128 Mar 24 12:25 8128 Mar 27 17:47 8128 Apr 20 14:47 8128 May 04 08:23 8128 May 04 10:06 8128 May 05 16:36	0°亞 17°亞41'09 0°肌 0°ズ 0°云 0°云 0°云 0°米 3°升08'14 25°升57'28 0°Ƴ 0°엉 17°엉16'11 17°엉21'37 18°엉57'29		evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8130 May 02 07:44 8130 May 10 05:18 8130 Jun 04 11:35 8130 Jul 01 02:02 8130 Jul 17 21:16 8130 Jul 31 09:59 8130 Aug 22 02:24 8130 Aug 25 10:43 8130 Sep 05 08:50 8130 Sep 26 12:31 8130 Sep 26 12:31 8130 Sep 26 08:46 8130 Sep 30 23:28 8130 Oct 18 09:21 8130 Oct 28 08:13	0°© 0°N 17°M26'11 0°ഇ 15°ഇ01'43 16°ഇ27'33 18°ഇ37'37 13°ഇ18'08 10°ഇ20'04 10°ഇ34'27 10°ഇ40'21 7°ഇ49'03 2°ഇ07'10 3°ഇ54'15	-4.8m -7°16'16 7°14'47
desc. node morning set superior conj minimum elong	8127 Oct 30 22:15 8127 Nov 15 14:06 8127 Nov 26 05:38 8127 Dec 21 13:11 8128 Jan 15 06:37 8128 Feb 08 15:22 8128 Mar 03 18:30 8128 Mar 06 06:48 8128 Mar 24 12:25 8128 Mar 27 17:47 8128 Apr 20 14:47 8128 May 04 08:23 8128 May 04 10:06 8128 May 05 16:36 8128 May 14 11:26	0°亞 17°亞41'09 0°肌 0°♂ 0°♂ 0°♂ 0°% 3°升08'14 25°升57'28 0°℃ 0°℃ 17°♂16'11 17°♂21'37 18°♂57'29 0°Ⅱ	1°27'35	evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8130 May 02 07:44 8130 May 10 05:18 8130 Jun 04 11:35 8130 Jul 01 02:02 8130 Jul 17 21:16 8130 Jul 31 09:59 8130 Aug 22 02:24 8130 Aug 25 10:43 8130 Sep 05 08:50 8130 Sep 26 21:39 8130 Sep 26 12:31 8130 Sep 26 08:46 8130 Sep 30 23:28 8130 Oct 18 09:21 8130 Oct 28 08:13 8130 Dec 03 23:24	0°© 0°N 17°M26'11 0°മ 15°മ01'43 16°മ27'33 18°മ37'37 13°മ18'08 10°മ20'04 10°മ34'27 10°മ40'21 7°മ49'03 2°മ07'10 3°മ54'15	-4.8m -7°16'16 7°14'47 0.28983 AU -4.7m
desc. node morning set superior conj minimum elong max. Earth dist.	8127 Oct 30 22:15 8127 Nov 15 14:06 8127 Nov 26 05:38 8127 Dec 21 13:11 8128 Jan 15 06:37 8128 Feb 08 15:22 8128 Mar 03 18:30 8128 Mar 06 06:48 8128 Mar 24 12:25 8128 Mar 27 17:47 8128 Apr 20 14:47 8128 May 04 08:23 8128 May 04 10:06 8128 May 05 16:36	0°亞 17°亞41'09 0°肌 0°ズ 0°云 0°云 0°云 0°米 3°升08'14 25°升57'28 0°Ƴ 0°엉 17°엉16'11 17°엉21'37 18°엉57'29	1°27'35	evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8130 May 02 07:44 8130 May 10 05:18 8130 Jun 04 11:35 8130 Jul 01 02:02 8130 Jul 17 21:16 8130 Jul 31 09:59 8130 Aug 22 02:24 8130 Aug 25 10:43 8130 Sep 05 08:50 8130 Sep 26 12:31 8130 Sep 26 12:31 8130 Sep 26 08:46 8130 Sep 30 23:28 8130 Oct 18 09:21 8130 Oct 28 08:13	0°© 0°N 17°M26'11 0°ഇ 15°ഇ01'43 16°ഇ27'33 18°ഇ37'37 13°ഇ18'08 10°ഇ20'04 10°ഇ34'27 10°ഇ40'21 7°ഇ49'03 2°ഇ07'10 3°ഇ54'15	-4.8m -7°16'16 7°14'47 0.28983 AU -4.7m
desc. node morning set superior conj minimum elong	8127 Oct 30 22:15 8127 Nov 15 14:06 8127 Nov 26 05:38 8127 Dec 21 13:11 8128 Jan 15 06:37 8128 Feb 08 15:22 8128 Mar 03 18:30 8128 Mar 06 06:48 8128 Mar 24 12:25 8128 Mar 27 17:47 8128 Apr 20 14:47 8128 May 04 08:23 8128 May 04 10:06 8128 May 05 16:36 8128 May 14 11:26 8128 Jun 07 09:47	0°至 17°至41'09 0°爪 0°ズ 0°云 0°云 0°云 0°景 0°景 0°景 17°号16'11 17°号21'37 18°号57'29 0°Ⅱ 0°雪	1°27'35	evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	8130 May 02 07:44 8130 May 10 05:18 8130 Jun 04 11:35 8130 Jul 01 02:02 8130 Jul 17 21:16 8130 Jul 31 09:59 8130 Aug 22 02:24 8130 Aug 25 10:43 8130 Sep 05 08:50 8130 Sep 26 21:39 8130 Sep 26 12:31 8130 Sep 26 08:46 8130 Sep 30 23:28 8130 Oct 18 09:21 8130 Oct 28 08:13 8130 Dec 03 23:24 8130 Dec 06 05:51	0°© 0°R 0°M 17°M26'11 0°ഇ 15°ഇ01'43 16°ഇ27'33 18°ഇ37'37 13°ഇ18'08 10°ഇ20'04 10°934'27 10°940'21 7°949'03 2°907'10 3°954'15 0°M 2°M10'27	-4.8m -7°16'16 7°14'47 0.28983 AU -4.7m

	8131 Jan 28 03:10	0°₹		evening max el	8133 Sep 26 15:00	26°M00'54	45°40'55
	8131 Feb 22 06:16	0° ≈			8133 Sep 30 20:27	0° ∡	
	8131 Mar 18 19:31	0° ∀		greatest brilliancy	8133 Nov 04 17:33	24° ≯ 08'56	-4.7m
desc. node	8131 Apr 03 19:03	19° ¥ 45′26		retrograde	8133 Nov 14 09:17	25° ≯ 50′23	
	8131 Apr 12 00:52	0 ° $\mathbf{\Upsilon}$		evening set	8133 Dec 01 14:53	20° ∡ 12'58	
	8131 May 06 01:48	9° 8		inferior conj	8133 Dec 05 16:58	17° ∡ ¹42'50	-7°13'45
	8131 May 30 01:01	$\Pi^{\circ}0$		minimum elong	8133 Dec 06 02:23	17° ∡ ¹28'09	7°12'01
morning set	8131 Jun 09 11:09	13° Ⅲ 02'38		min. Earth dist.	8133 Dec 06 11:26	17° ∡ 14′01	0.28675 AU
	8131 Jun 23 00:48	0ංම		morning rise	8133 Dec 10 13:31	14° ∡ ⁴44'59	
	8131 Jul 17 02:38	$0^{\circ}\Omega$		direct	8133 Dec 27 02:41	9° ∡ ¹27'17	
				greatest brilliancy	8134 Jan 07 06:10	11° ∡ ¹44'35	-4.8m
superior conj	8131 Jul 18 13:21	1° Ω 47'51	-0°17'17	asc. node	8134 Jan 09 13:34	12° ∡ ¹43'14	
minimum elong	8131 Jul 18 17:24	2°Ω00'28		use. Houe	8134 Feb 03 00:17	0°る	
max. Earth dist.	8131 Jul 21 18:05	5° Ω 46'11		morning max el	8134 Feb 15 04:19	0 3 11° る 33'12	46°28'18
asc. node	8131 Jul 25 17:10	10° Ω 41'18	1.72377 AU	morning max ci	8134 Mar 04 17:09	0°≈	40 28 18
asc. node						0 ≈ 0° ∀	
	8131 Aug 10 07:05	0° M)			8134 Mar 31 01:50	0° Υ	
evening rise	8131 Aug 25 12:34	18° m 48'59			8134 Apr 25 05:51		
	8131 Sep 03 14:16	0∘ ⊽		desc. node	8134 May 01 07:26	7° Y 21'04	
	8131 Sep 28 00:41	0°M₊			8134 May 19 20:26	0°8	
	8131 Oct 22 15:34	0° ∡ ¹			8134 Jun 13 04:44	Π $^{\circ}0$	
desc. node	8131 Nov 14 10:58	27° ₹ 31'24			8134 Jul 07 11:04	0	
	8131 Nov 16 12:32	0°ප			8134 Jul 31 17:39	$0 {\circ} \Omega$	
	8131 Dec 11 17:19	0° ≈		morning set	8134 Aug 20 01:08	23° Ω 50′06	
	8132 Jan 06 09:21	0° ∀		asc. node	8134 Aug 22 05:17	26° Ω 30′58	
	8132 Feb 01 23:28	0 ° $\mathbf{\Upsilon}$			8134 Aug 25 01:03	0° m/	
evening max el	8132 Feb 21 11:40	20° Ƴ 33'45	46°50'54		8134 Sep 18 08:51	0∘ ⊽	
C	8132 Mar 02 05:48	0°B			1		
asc. node	8132 Mar 06 10:43	3° 8 48'30		superior conj	8134 Sep 26 08:15	9° £ 50'04	1°11'45
greatest brilliancy	8132 Apr 02 05:29	21° 8 36'42	-4.9m	minimum elong	8134 Sep 25 23:34		1°11'32
retrograde	8132 Apr 11 22:53	23° 8 24'50	4.7111	max. Earth dist.	8134 Sep 26 21:11	10° £ 29'56	1.73276 AU
•	-	17° 8 06'15		max. Earth dist.	8134 Oct 12 16:51	0°M	1.73270 AU
evening set	8132 Apr 30 04:18		0011120				
inferior conj	8132 May 02 15:40	15° 8 35'24		evening rise	8134 Nov 01 17:12	24°M39'05	
minimum elong	8132 May 02 16:39	15° 8 33'54			8134 Nov 06 01:31	0° ∡	
min. Earth dist.	8132 May 02 13:37	15° 8 38'34	0.27130 AU		8134 Nov 30 11:35	0° ろ	
morning rise	8132 May 05 05:02	14° 8 01'30		desc. node	8134 Dec 11 22:41	14° る 03'05	
direct	8132 May 23 06:03	7° 8 47'57			8134 Dec 24 23:21	0° ≈	
greatest brilliancy	8132 Jun 01 20:58	9° 8 32'06	-4.9m		8135 Jan 18 12:44	0° ℋ	
desc. node	8132 Jun 26 05:09	24° 8 59'12			8135 Feb 12 04:34	$0^{\circ}\Upsilon$	
	8132 Jul 01 22:31	$\Pi^{\circ}0$			8135 Mar 09 02:40	8°	
morning max el	8132 Jul 12 07:45	9° Ⅱ 52'00	46°32'53	asc. node	8135 Apr 03 22:09	0° Ⅱ 15′03	
	8132 Jul 31 16:02	0° ©			8135 Apr 03 16:54	$\Pi^{\circ}0$	
	8132 Aug 27 12:51	$0^{\circ}\Omega$			8135 May 01 00:33	0°ಅ	
	8132 Sep 22 09:09	0° m)		evening max el	8135 May 05 07:10	4° © 22'03	46°53'44
asc. node	8132 Oct 17 03:53	29° m) 24'00		Č	8135 Jun 04 09:05	$0^{\circ}\Omega$	
	8132 Oct 17 15:54	0∘ ಹ		greatest brilliancy	8135 Jun 14 00:35	4°Ω55'24	-4.9m
	8132 Nov 11 12:48	0° M		retrograde	8135 Jun 24 17:00	7° Ω 03'00	,
	8132 Dec 06 02:07	0° ₹ ¹		evening set	8135 Jul 09 19:30	2° Ω 32'19	
		0°ਤ ਹ`੨		evening set			
morning sat	8132 Dec 30 09:59 8133 Jan 07 06:14	0°る 9° る 42'57		inferior coni	8135 Jul 14 02:46	30°№ 20°©01'03	2014124
morning set	8133 Jan 07 06:14 8133 Jan 23 14:07			inferior conj	8135 Jul 15 16:57	29°501'03	
		0° ≈		minimum elong	8135 Jul 15 21:58	28°953'18	2°12'53
desc. node	8133 Feb 05 20:36	16°≈31'52		min. Earth dist.	8135 Jul 15 09:58	29° © 11'52	0.27672 AU
max. Earth dist.	8133 Feb 12 05:47	24° ≈ 29'57	1.71834 AU	morning rise	8135 Jul 22 01:05	25°517'03	
				desc. node	8135 Jul 24 16:47	23° © 57'38	
superior conj	8133 Feb 15 05:57	28° ≈ 15′21	-0°22'35	direct	8135 Aug 05 16:23	21° © 06'51	
minimum elong	8133 Feb 15 00:28	27° ≈ 58'12	0°22'14	greatest brilliancy	8135 Aug 15 10:54	22° © 52'18	-4.8m
	8133 Feb 16 15:27	0° ℋ			8135 Aug 29 04:07	$0 { m s} \Omega$	
	8133 Mar 12 14:30	0 ° $\mathbf{\Upsilon}$		morning max el	8135 Sep 23 16:44	21° Ω 20′19	45°49'41
evening rise	8133 Mar 27 06:06	18° Ƴ 23'00			8135 Oct 02 11:37	0° ™	
	8133 Apr 05 12:15	8° 0			8135 Oct 30 12:58	0 o $\overline{\mathbf{v}}$	
	8133 Apr 29 10:35	$\Pi^{\circ}0$		asc. node	8135 Nov 14 16:02	17° ≏ 08'18	
	8133 May 23 12:06	0°9			8135 Nov 25 18:18	0°M	
asc. node	8133 May 29 19:25	7°948'50			8135 Dec 21 00:52	0° ⊼ 7	
	8133 Jun 16 19:41	0° Ω			8136 Jan 14 17:48	°ੇਂਤ	
	8133 Jul 11 12:50	0° m)			8136 Feb 08 02:18	0°≈	
	8133 Aug 05 21:23	0° ت			8136 Mar 03 05:19	0 ≈	
	•			dono J-			
	8133 Sep 01 10:33	0°M		desc. node	8136 Mar 05 08:48	2°) (40'43	
desc. node	8133 Sep 18 13:52	18° M .04'31		morning set	8136 Mar 21 23:07	23° ∺ 26′50	

	8136 Mar 27 04:33	$0^{\circ}\mathbf{\Upsilon}$		min. Earth dist.	8138 Sep 24 00:27	8° D 30'39	0.28952 AU
	8136 Apr 20 01:32	0°8		inferior conj	8138 Sep 24 13:43	8° ⊆ 09'49	
	013011pr 20 01.32	° O		minimum elong	8138 Sep 24 04:16	8° ≏ 24'39	
superior conj	8136 May 01 19:21	14° 8 46'00	-1°27'40	morning rise	8138 Sep 28 18:04	5° Ω 35'04	
minimum elong	8136 May 01 19:59	14° 8 47'59		Č	8138 Oct 14 11:36	30°R ™	
max. Earth dist.	8136 May 02 23:57	16° 8 15'56	1.71245 AU	direct	8138 Oct 16 00:32	29° m 57'14	
	8136 May 13 22:11	$\Pi^{\circ}0$			8138 Oct 17 13:47	0∘ ⊽	
	8136 Jun 06 20:32	0 \circ \odot		greatest brilliancy	8138 Oct 26 00:03	1° ≏ 44'33	-4.7m
evening rise	8136 Jun 11 06:57	5° 5 32'35			8138 Dec 03 21:57	0° M	
asc. node	8136 Jun 26 07:09	24°9514'51		morning max el	8138 Dec 03 20:28		45°46'33
	8136 Jun 30 22:16	$0^{\circ}\Omega$		asc. node	8138 Dec 12 03:52	8°M12'08	
	8136 Jul 25 04:41	0° m p			8139 Jan 01 12:55	0° ∡	
	8136 Aug 18 17:13	0∘ ⊽			8139 Jan 27 16:28	0°る	
	8136 Sep 12 14:34	0°M			8139 Feb 21 18:28	0° ≈	
	8136 Oct 08 01:32	0° ∡ 7		1 1	8139 Mar 18 07:08	0°) (1€121	
desc. node	8136 Oct 16 01:20	9° メ 13'39 0° る		desc. node	8139 Apr 02 21:08	19° ¥ 16'31 0° Ƴ	
	8136 Nov 03 11:00	0° ≈			8139 Apr 11 12:10	0° 8	
evening max el	8136 Dec 01 17:39 8136 Dec 07 11:28	0°≈ 5°≈38'55	46°03'45		8139 May 05 12:53 8139 May 29 11:58	0°U	
evening max er	8137 Jan 06 09:49	0° \	40 03 43	morning set	8139 Jun 06 23:48	10° Ⅱ 37'55	
greatest brilliancy	8137 Jan 15 23:52	4°) 33'42	-4 8m	morning set	8139 Jun 22 11:39	0°9	
retrograde	8137 Jan 25 17:18	6° ₩ 18'15	1.0111		013) Juli 22 11.3)	~~	
asc. node	8137 Feb 06 01:14	3°) 44′59		superior conj	8139 Jul 16 03:35	29°529'26	-0°20'49
evening set	8137 Feb 09 04:28	2°) 12′59		minimum elong	8139 Jul 16 08:27	29°5544'34	
C	8137 Feb 13 01:21	30° R ≈		C	8139 Jul 16 13:25	$0^{\circ}\Omega$	
inferior conj	8137 Feb 15 11:25	28° ≈ 31'07	2°23'37	max. Earth dist.	8139 Jul 19 06:45	3° £ 23′02	1.72334 AU
minimum elong	8137 Feb 15 06:03	28° ≈ 39′25	2°22'02	asc. node	8139 Jul 24 19:10	10° Ω 14′06	
min. Earth dist.	8137 Feb 15 16:08	28° ≈ 23'52	0.27173 AU		8139 Aug 09 17:50	0° ™	
morning rise	8137 Feb 21 07:11	25° ≈ 03′29		evening rise	8139 Aug 23 05:02	16°M 38'32	
direct	8137 Mar 08 07:04	20° ≈ 38'10			8139 Sep 03 01:05	0∘ ⊽	
greatest brilliancy	8137 Mar 18 15:15	22° ≈ 38'47	-4.9m		8139 Sep 27 11:40	0° M	
	8137 Apr 01 00:09	0°) (8139 Oct 22 02:54	0° ∡	
morning max el	8137 Apr 27 19:11	23°) € 32'40	46°59'10	desc. node	8139 Nov 13 12:53	27° ₹ 01'37	
11-	8137 May 04 01:53	0°Υ 27°Υ10144			8139 Nov 16 00:26	5°0	
desc. node	8137 May 28 19:25	27° Ƴ 10'44 0° ႘			8139 Dec 11 06:11 8140 Jan 05 23:52	0° ₩	
	8137 May 31 06:39 8137 Jun 25 22:36	0°II			8140 Jan 03 23:32 8140 Feb 01 17:20	0°Υ	
	8137 Jul 23 22:30 8137 Jul 21 00:13	0ಂ ತಾ		evening max el	8140 Feb 19 01:00	18° Υ 09'41	46°49'56
	8137 Aug 14 19:48	$0 {\circ} \Omega$		evening max er	8140 Mar 02 10:30	0°8	40 47 50
	8137 Sep 08 12:12	0° mp		asc. node	8140 Mar 05 12:49	2° 8 44'08	
asc. node	8137 Sep 18 17:36	12° m 28'02		greatest brilliancy	8140 Mar 30 18:06	19° 8 10'30	-4.9m
	8137 Oct 03 01:48	0∘ ⊽		retrograde	8140 Apr 09 12:16	20° 8 59'31	
morning set	8137 Oct 27 21:12	0°M26'54		evening set	8140 Apr 27 16:34	14° 8 41'42	
	8137 Oct 27 12:27	0° M ₊		inferior conj	8140 Apr 30 04:37	13° 8 10'02	9°12'03
	8137 Nov 20 20:36	0°⊀		minimum elong	8140 Apr 30 04:36	13° 8 10'04	9°11'57
max. Earth dist.	8137 Dec 01 17:21	13° ∡ ²25′21	1.73009 AU	min. Earth dist.	8140 Apr 30 01:57	13° 8 14'09	0.27121 AU
		_		morning rise	8140 May 02 16:39	11° 8 38'21	
superior conj	8137 Dec 03 11:09	15° ∡ 34'32		direct	8140 May 20 19:03	5° 8 22'29	
minimum elong	8137 Dec 03 19:51	16° ₹ 01'22	1°12'50	greatest brilliancy	8140 May 30 09:30	7° 8 06'48	-4.9m
	8137 Dec 15 03:06	0° る		desc. node	8140 Jun 25 07:08	23° 8 53'53	
desc. node	8138 Jan 08 10:32 8138 Jan 08 08:29	0°≈06'22 0°≈		morning may al	8140 Jul 02 02:10 8140 Jul 09 22:15	0°П 7°П32'13	16021125
evening rise	8138 Jan 10 09:16	0 ≈ 2°≈31'09		morning max el	8140 Jul 31 09:31	7 п 32 13	40 34 23
evening rise	8138 Feb 01 12:48	0° ∺			8140 Aug 27 03:07	0°Ω	
	8138 Feb 25 16:10	0° Υ			8140 Sep 21 21:52	0° mp	
	8138 Mar 21 19:50	0°8		asc. node	8140 Oct 16 05:49	28° m) 54'21	
	8138 Apr 15 02:47	0°II			8140 Oct 17 03:44	0∘ <u>⊽</u>	
asc. node	8138 May 01 09:40	19° Ⅱ 54'15			8140 Nov 11 00:07	0°M	
	8138 May 09 18:01	0ಂತಾ			8140 Dec 05 13:08	0°⊀	
	8138 Jun 04 01:45	$0^{\circ}\Omega$			8140 Dec 29 20:52	5°0	
	8138 Jun 30 19:32	0° m		morning set	8141 Jan 04 21:28	7° る 27'40	
evening max el	8138 Jul 15 11:34	15° m 09'10	46°09'35		8141 Jan 23 01:00	0° ≈	
	8138 Jul 31 16:24	0∘ ত		desc. node	8141 Feb 04 22:38	16° ≈ 04'11	
desc. node	8138 Aug 21 04:27	13° ≏ 29'14		max. Earth dist.	8141 Feb 09 19:33	22° ≈ 08'56	1.71874 AU
greatest brilliancy	8138 Aug 23 02:27	14° £ 16'16	-4.8m		0141 77 17 17	250 5	0010:
retrograde	8138 Sep 03 00:37	16° £ 27'08		superior conj	8141 Feb 12 18:28	25°≈50'21	
evening set	8138 Sep 19 14:38	11° ≏ 12'08		minimum elong	8141 Feb 12 13:52	25° ≈ 35'58	0°18'34

	8141 Feb 16 02:23	0° ∀			8143 Aug 30 00:56	0°N	
		0 Υ 0° Υ			•	19° Ω 04'20	45950125
	8141 Mar 12 01:30	0° γ 15° Υ 54'06		morning max el	8143 Sep 21 06:53		45-50-55
evening rise	8141 Mar 24 17:41				8143 Oct 02 07:09	0° m	
	8141 Apr 04 23:19	8°0			8143 Oct 30 03:47	0° ™	
	8141 Apr 28 21:45	0° I I		asc. node	8143 Nov 13 17:56	16° £ 34'39	
,	8141 May 22 23:27	0°95			8143 Nov 25 07:13	0°M	
asc. node	8141 May 28 21:18	7° © 19'22			8143 Dec 20 12:53	0° ∡ ¹	
	8141 Jun 16 07:24	0° N			8144 Jan 14 05:21	ව°0 0°3	
	8141 Jul 11 01:10	0° m			8144 Feb 07 13:36	0° ≈	
	8141 Aug 05 10:56	0° ™			8144 Mar 02 16:28	0°) (
	8141 Sep 01 02:49	0°M		desc. node	8144 Mar 04 10:48	2° H 12'05	
desc. node	8141 Sep 17 15:54	17°M19'29		morning set	8144 Mar 19 09:43	20°) 54'51	
evening max el	8141 Sep 24 07:02	23°M50'30	45°41'01		8144 Mar 26 15:38	0° Υ	
	8141 Sep 30 21:27	0° ∡ 7			8144 Apr 19 12:36	9° 8	
greatest brilliancy	8141 Nov 02 07:28	21° 🖈 55'53	-4.7m		20.0610	100111110	1007110
retrograde	8141 Nov 12 00:48	23°×38'12		superior conj	8144 Apr 29 06:19	12° 8 14'48	
evening set	8141 Nov 29 09:02	17° 🗷 56'31		minimum elong	8144 Apr 29 05:52	12° 8 13'21	
inferior conj	8141 Dec 03 08:33	15° ₹ 29'51		max. Earth dist.	8144 Apr 30 04:12	_	1.71231 AU
minimum elong	8141 Dec 03 17:37	15° ₹ 15'40	7°22'55		8144 May 13 09:15	0° Π	
min. Earth dist.	8141 Dec 04 01:58	15° ₹ 02'37	0.28725 AU		8144 Jun 06 07:36	0°95	
morning rise	8141 Dec 08 01:56	12° ∡ 36'31		evening rise	8144 Jun 08 18:40	3°504'36	
direct	8141 Dec 24 19:17	7° ∡ 14'02		asc. node	8144 Jun 25 09:12	23°9546'44	
greatest brilliancy	8142 Jan 04 21:00	9° ₹ 29'50	-4.8m		8144 Jun 30 09:23	0° N	
asc. node	8142 Jan 08 15:36	11°× 10'01			8144 Jul 24 15:53	0° m	
	8142 Feb 03 03:46	0°る			8144 Aug 18 04:43	0° ™	
morning max el	8142 Feb 12 20:03	9° ට 17'42	46°26'34		8144 Sep 12 02:39	0°M	
	8142 Mar 04 10:27	0° ≈			8144 Oct 07 14:46	0° ₹	
	8142 Mar 30 16:10	0°) €		desc. node	8144 Oct 15 03:12	8° ₹ 39'38	
	8142 Apr 24 18:48	0° Υ 6° Υ 47'55			8144 Nov 03 02:33	5°0	
desc. node	8142 Apr 30 09:15				8144 Dec 01 15:12	0°≈	46°02'05
	8142 May 19 08:35 8142 Jun 12 16:22	0°B 8°0		evening max el	8144 Dec 05 00:37 8145 Jan 08 07:43	3°≈18'33 0°¥	46 02 03
	8142 Jul 12 10:22 8142 Jul 06 22:20	0°©		greatest brilliancy	8145 Jan 13 14:00	2° 	-4.8m
	8142 Jul 31 04:40	0°Ω		retrograde	8145 Jan 23 05:48	3°)(55'52	-4.0111
morning set	8142 Aug 17 17:32	21° Ω 39'09		asc. node	8145 Feb 05 03:18	0° ¥ 39′25	
asc. node	8142 Aug 21 07:19	26° Ω 03'48		ase. Hode	8145 Feb 06 10:25	30°R≈	
use. Houe	8142 Aug 24 11:54	0° m/y		evening set	8145 Feb 06 17:25	29°≈50'47	
	8142 Sep 17 19:36	0∘ ರ ∘ .ಚ		inferior conj	8145 Feb 13 00:53	26°≈08'32	2°00'44
	01.2 Sep 17 13.50	~		minimum elong	8145 Feb 12 20:19	26°≈15'34	
superior conj	8142 Sep 24 01:47	7° ≏ 42'56	1°09'54	min. Earth dist.	8145 Feb 13 07:02	25° ≈ 59'03	0.27206 AU
minimum elong	8142 Sep 23 16:51	7° ≏ 15'23	1°09'40	morning rise	8145 Feb 18 22:40	22° ≈ 37'52	
max. Earth dist.	8142 Sep 24 18:39	8° ≏ 34'56	1.73266 AU	direct	8145 Mar 05 20:21	18° ≈ 14'41	
	8142 Oct 12 03:37	0°M		greatest brilliancy	8145 Mar 16 07:09	20°≈17'24	-4.9m
evening rise	8142 Oct 30 10:33	22°M31'20		c ,	8145 Apr 01 20:57	0° ∀	
-	8142 Nov 05 12:24	0° ∡ ¹		morning max el	8145 Apr 25 08:03	21° ₩ 06'37	46°59'00
	8142 Nov 29 22:42	0°రె			8145 May 03 22:13	$0^{\circ}\mathbf{\Upsilon}$	
desc. node	8142 Dec 11 00:34	13° る 34'26		desc. node	8145 May 27 21:25	26° Ƴ 31′00	
	8142 Dec 24 10:49	0° ≈			8145 May 30 22:16	0°8	
	8143 Jan 18 00:41	0° ∀			8145 Jun 25 12:14	Π $^{\circ}0$	
	8143 Feb 11 17:13	0 ° Υ			8145 Jul 20 12:43	0 \circ \odot	
	8143 Mar 08 16:28	9° 8			8145 Aug 14 07:35	$0^{\circ}\Omega$	
asc. node	8143 Apr 03 00:05	29° 8 35'02			8145 Sep 07 23:29	O° Mp	
	8143 Apr 03 08:50	Π $^{\circ}0$		asc. node	8145 Sep 17 19:32	11° m 59'54	
	8143 Apr 30 21:55	0 \circ			8145 Oct 02 12:45	0∘ ⊽	
evening max el	8143 May 02 22:19	2° 5 02'48	46°54'44	morning set	8145 Oct 25 14:43	28° ≏ 19'58	
	8143 Jun 05 23:32	$0^{\circ}\Omega$			8145 Oct 26 23:14	0° M	
greatest brilliancy	8143 Jun 11 16:41	2° Ω 37'33	-4.9m		8145 Nov 20 07:21	0° ∡ ¹	
retrograde	8143 Jun 22 07:47	4° Ω 43'36		max. Earth dist.	8145 Nov 29 12:04	11° ₹ 21'42	1.73042 AU
evening set	8143 Jul 07 12:00	0° Ω 11'04			01457	100 == :::	101
	8143 Jul 07 19:54	30°Rூ	202721	superior conj	8145 Dec 01 04:13	13° ₹ 25'45	
inferior conj	8143 Jul 13 07:18	26°542'32		minimum elong	8145 Dec 01 12:33	13° ∡ 751′29	1~14'33
minimum elong	8143 Jul 13 13:04			, ,	8145 Dec 14 13:53	0°る	
min. Earth dist.	8143 Jul 13 00:59	26°952'19	0.27631 AU	desc. node	8146 Jan 07 12:37	29° る 38'55	
morning rise	8143 Jul 19 14:48	22°959'12		ovonina risa	8146 Jan 07 19:25	0° ≈ 0° ≈ 15'13	
desc. node direct	8143 Jul 23 18:47 8143 Aug 03 06:35	21°500'22 18°549'07		evening rise	8146 Jan 08 00:20 8146 Jan 31 23:57	0°≈15′13	
greatest brilliancy	8143 Aug 03 00:35 8143 Aug 13 00:34	20°934'03	-4 8m		8146 Feb 25 03:35	0° Υ	
51 carest of financy	51 15 11ug 15 00.54	20 -3703	1.0111		5110100 25 05.55	V 1	

	8146 Mar 21 07:35	9° 8		asc. node	8148 Oct 15 07:41	28° Mp 24'52	
	8146 Apr 14 15:00	Π $^{\circ}0$			8148 Oct 16 15:24	0∘ ত	
asc. node	8146 Apr 30 11:35	19° Ⅱ 21'33			8148 Nov 10 11:15	0° M $_{\circ}$	
	8146 May 09 07:02	0°€			8148 Dec 04 23:58	0° ∡ ¹	
	8146 Jun 03 16:17	$0^{\circ}\Omega$			8148 Dec 29 07:35	8°0	
	8146 Jun 30 13:39	0° m		morning set	8149 Jan 02 13:24	5° る 15'12	
evening max el	8146 Jul 13 02:18	12° m 52'48	46°11'18	Č	8149 Jan 22 11:42	0° ≈	
	8146 Aug 01 01:30	0∘ ಹ		desc. node	8149 Feb 04 00:36	15° ≈ 36'59	
desc. node	8146 Aug 20 06:31	11° ≏ 53'22		max. Earth dist.	8149 Feb 07 09:06	19° ≈ 48'00	1.71916 AU
greatest brilliancy	8146 Aug 20 17:53	12° £ 04'27	-4.8m	man. Bartii dibt.	01.9100 07 09.00	15 10 10 00	1.,1910110
retrograde	8146 Aug 31 17:03	14° ⊆ 16'49	4.0111	superior conj	8149 Feb 10 07:36	23° ≈ 27'59	-0°15'14
evening set	8146 Sep 17 03:45	9° £ 06'01		minimum elong	8149 Feb 10 07:50	23°≈16'23	
•	•		0.28917 AU	•			0 1437
min. Earth dist.	8146 Sep 21 16:00	6° £ 21'24		behind sun begin	8149 Feb 09 18:15	22°≈46'17	
inferior conj	8146 Sep 22 05:54	5° Ω 59'37		behind sun end	8149 Feb 10 13:32	23°≈46'28	
minimum elong	8146 Sep 21 20:13	6° £ 14'48	6,21,21		8149 Feb 15 13:08	0°) €	
morning rise	8146 Sep 26 12:52	3° £ 21′20			8149 Mar 11 12:20	0°Υ	
	8146 Oct 03 02:19	30°₽ ™		evening rise	8149 Mar 22 05:28	13° Y 26′19	
direct	8146 Oct 13 16:01	27° m 47'29			8149 Apr 04 10:16	0°B	
greatest brilliancy	8146 Oct 23 15:42	29° m 35'01	-4.7m		8149 Apr 28 08:51	Π °0	
	8146 Oct 24 19:25	0∘ ⊽			8149 May 22 10:48	0	
morning max el	8146 Dec 01 11:59	27° ≏ 44'53	45°45'53	asc. node	8149 May 27 23:20	6° ॐ 50′25	
	8146 Dec 03 19:32	0° M.			8149 Jun 15 19:06	$0^{\circ}\Omega$	
asc. node	8146 Dec 11 05:55	7°M28'28			8149 Jul 10 13:30	0° m y	
	8147 Jan 01 04:17	0° ∡ ¹			8149 Aug 05 00:30	0∘ ত	
	8147 Jan 27 05:42	0°రె			8149 Aug 31 19:13	0° M	
	8147 Feb 21 06:44	0° ≈		desc. node	8149 Sep 16 17:47	16° ™ 33'56	
	8147 Mar 17 18:54	0°) €		evening max el	8149 Sep 21 22:55	21°M40'13	45°41'13
desc. node	8147 Apr 01 23:00	18°) 46′26		evening man er	8149 Sep 30 23:31	0°×7	
dese. Hode	8147 Apr 10 23:37	0°Υ		greatest brilliancy	8149 Oct 30 22:12	19° × 744'47	-4.7m
	8147 May 05 00:07	0°8		retrograde	8149 Nov 09 16:06	21° × ⁷ 27'18	4.7111
	8147 May 28 23:01	0°II		evening set	8149 Nov 27 03:21	15° х 41'43	
marning sat	•	8° Ⅱ 11'47		•		13°×14143	7024126
morning set	8147 Jun 04 12:07	о п 1147		inferior conj	8149 Dec 01 00:20		
	8147 Jun 21 22:34	0.50		minimum elong	8149 Dec 01 09:01	13° × 704'50	
	0145 1 10 15 05	27001010	000 4100	min. Earth dist.	8149 Dec 01 16:51	12° ₹ 52'33	0.28767 AU
superior conj	8147 Jul 13 17:35	27° © 10'03		morning rise	8149 Dec 05 14:29	10° ₹ 29'33	
minimum elong	8147 Jul 13 23:15	27° © 27'40	0°24'12	direct	8149 Dec 22 11:47	5° ∡ '02'28	
	8147 Jul 16 00:15	$0^{\circ}\Omega$		greatest brilliancy	8150 Jan 02 11:56	7° ∡ 16'35	-4.8m
max. Earth dist.	8147 Jul 16 20:25	1° Ω 02'41	1.72290 AU	asc. node	8150 Jan 07 17:35	9° ∡ ′41′08	
asc. node	8147 Jul 23 21:10	9° Ω 46'46			8150 Feb 03 05:13	0°ಕ	
	8147 Aug 09 04:39	O° My		morning max el	8150 Feb 10 10:58	7° る 01'26	46°24'55
evening rise	8147 Aug 20 21:36	14° m 28'08			8150 Mar 04 03:00	0° ≈	
	8147 Sep 02 11:56	0∘ ত					
	8147 Sep 26 22:40	0° M			8150 Mar 30 05:59	0° ∀	
		O IIG			8150 Mar 30 05:59 8150 Apr 24 07:22	0° Υ	
4 4-	8147 Oct 21 14:13	0° ∡ 7		desc. node			
desc. node	8147 Oct 21 14:13 8147 Nov 12 14:53			desc. node	8150 Apr 24 07:22	0 ° Υ	
desc. node		0° ₹		desc. node	8150 Apr 24 07:22 8150 Apr 29 11:16	0°Ƴ 6°Ƴ16'20 0°℧	
desc. node	8147 Nov 12 14:53 8147 Nov 15 12:19	0° ⊀ 26° ⊀ 32'15		desc. node	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47	0°Υ 6°Υ16'20 0°႘ 0°Ⅱ	
desc. node	8147 Nov 12 14:53	0°♬ 26°♬32'15 0°중		desc. node	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26	0°Ƴ 6°Ƴ16'20 0°℧	
desc. node	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28	0°♂ 26°♂32'15 0°♂ 0°≈ 0°升			8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31	0°Y 6°Y16'20 0°B 0°B 0°の	
	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36	0°♂ 26°♂32'15 0°云 0°≈ 0°升 0°介	46°48'36	morning set	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27	0°Y 6°Y16'20 0°℧ 0°Ⅱ 0°邱 0°Ω 19°Ω27'12	
evening max el	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36 8148 Feb 16 15:08	0°水 26°水32'15 0°ጜ 0°≈ 0°升 0°Υ 15°Υ47'38	46°48'36		8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27 8150 Aug 20 09:12	0° Υ 6° Υ 16'20 0° ႘ 0° ႘ 0° Ω 19° Ω 27'12 25° Ω 36'44	
evening max el	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36 8148 Feb 16 15:08 8148 Mar 02 17:25	0°水 26°水32'15 0°ጜ 0°≈ 0°升 0°Υ 15°Υ47'38 0°႘	46°48'36	morning set	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27 8150 Aug 20 09:12 8150 Aug 23 22:32	0°Y 6°Y16'20 0°B 0°I 0°B 0°A 19°A27'12 25°A36'44 0°M	
evening max el asc. node	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36 8148 Feb 16 15:08 8148 Mar 02 17:25 8148 Mar 04 14:42	0°♂ 26°♂32'15 0°云 0°≈ 0°升 0°Y 15°Y47'38 0°엉 1°엉37'09		morning set	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27 8150 Aug 20 09:12	0° Υ 6° Υ 16'20 0° ႘ 0° ႘ 0° Ω 19° Ω 27'12 25° Ω 36'44	
evening max el asc. node greatest brilliancy	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36 8148 Feb 16 15:08 8148 Mar 02 17:25 8148 Mar 04 14:42 8148 Mar 28 06:03	0°♂ 26°♂32'15 0°♂ 0°≈ 0°∀ 15°°¥47'38 0°∀ 1°♥37'09 16°♥42'52		morning set asc. node	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27 8150 Aug 20 09:12 8150 Aug 23 22:32 8150 Sep 17 06:07	0°Y 6°Y16'20 0°B 0°I 0°B 0°A 19°A27'12 25°A36'44 0°™ 0°A	1007157
evening max el asc. node greatest brilliancy retrograde	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36 8148 Feb 16 15:08 8148 Mar 02 17:25 8148 Mar 04 14:42 8148 Mar 28 06:03 8148 Apr 07 01:43	0°♂ 26°♂32'15 0°♂ 0°≈ 0°भ 0°भ 15°°47'38 0°ੳ 1°♂37'09 16°♂42'52 18°♂32'58		morning set asc. node	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27 8150 Aug 20 09:12 8150 Aug 23 22:32 8150 Sep 17 06:07	0°Y 6°Y16'20 0°B 0°II 0°© 0°A 19°A27'12 25°A36'44 0°™ 0°Ω 5°Ω35'39	1°07'57
evening max el asc. node greatest brilliancy retrograde evening set	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36 8148 Feb 16 15:08 8148 Mar 02 17:25 8148 Mar 04 14:42 8148 Mar 28 06:03 8148 Apr 07 01:43 8148 Apr 25 03:58	0°♂ 26°♂32'15 0°♂ 0°≈ 0°भ 0°भ 15°°47'38 0°∀ 1°∀37'09 16°∀42'52 18°∀32'58 12°∀17'00	-4.9m	morning set asc. node superior conj minimum elong	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27 8150 Aug 20 09:12 8150 Aug 23 22:32 8150 Sep 17 06:07 8150 Sep 21 19:00 8150 Sep 21 09:51	0° Υ 6° Υ 16'20 0° ႘ 0° Ц 0° ዴ 0° Ω 19° Ω 27'12 25° Ω 36'44 0° फ 0° Ω 5° Ω 35'39 5° Ω 07'27	1°07'40
evening max el asc. node greatest brilliancy retrograde evening set inferior conj	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36 8148 Feb 16 15:08 8148 Mar 02 17:25 8148 Mar 04 14:42 8148 Mar 28 06:03 8148 Apr 07 01:43 8148 Apr 25 03:58 8148 Apr 27 17:18	0°♂ 26°♂32'15 0°♂ 0°≈ 0°भ 0°भ 15°°47'38 0°८ 1°837'09 16°842'52 18°832'58 12°817'00 10°843'27	-4.9m 9°11'35	morning set asc. node	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27 8150 Aug 20 09:12 8150 Aug 23 22:32 8150 Sep 17 06:07 8150 Sep 21 19:00 8150 Sep 21 09:51 8150 Sep 22 14:36	0° Υ 6° Υ 16'20 0° ႘ 0° Ц 0° ዴ 0° Ω 19° Ω 27'12 25° Ω 36'44 0° फ 0° Ω 5° Ω 35'39 5° Ω 07'27 6° Ω 36'04	
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36 8148 Feb 16 15:08 8148 Mar 02 17:25 8148 Mar 04 14:42 8148 Mar 28 06:03 8148 Apr 07 01:43 8148 Apr 25 03:58 8148 Apr 27 17:18 8148 Apr 27 16:17	0°♂ 26°♂32'15 0°♂ 0°≈ 0°भ 0°भ 15°°47'38 0°८ 1°837'09 16°842'52 18°832'58 12°817'00 10°843'27 10°845'01	-4.9m 9°11'35 9°11'28	morning set asc. node superior conj minimum elong max. Earth dist.	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27 8150 Aug 20 09:12 8150 Aug 23 22:32 8150 Sep 17 06:07 8150 Sep 21 19:00 8150 Sep 21 09:51 8150 Sep 22 14:36 8150 Oct 11 14:07	0° Υ 6° Υ 16'20 0° ႘ 0° Ц 0° Ω 19° Ω 27'12 25° Ω 36'44 0° ዂ 0° Ω 5° Ω 35'39 5° Ω 07'27 6° Ω 36'04 0° ጤ	1°07'40
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36 8148 Feb 16 15:08 8148 Mar 02 17:25 8148 Mar 04 14:42 8148 Mar 28 06:03 8148 Apr 07 01:43 8148 Apr 25 03:58 8148 Apr 27 17:18 8148 Apr 27 16:17 8148 Apr 27 13:46	0° ₹ 26° ₹32'15 0° ₹ 0° ₹ 0° ₩ 0° ₩ 0° ₩ 15° ¥47'38 0° ₹ 1° ₹37'09 16° ₹42'52 18° ₹32'58 12° ₹17'00 10° ₹43'27 10° ₹45'01 10° ₹48'53	-4.9m 9°11'35	morning set asc. node superior conj minimum elong	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27 8150 Aug 20 09:12 8150 Aug 23 22:32 8150 Sep 17 06:07 8150 Sep 21 19:00 8150 Sep 21 09:51 8150 Sep 21 14:36 8150 Oct 11 14:07 8150 Oct 28 03:50	0°	1°07'40
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36 8148 Feb 16 15:08 8148 Mar 02 17:25 8148 Mar 04 14:42 8148 Mar 28 06:03 8148 Apr 07 01:43 8148 Apr 25 03:58 8148 Apr 27 17:18 8148 Apr 27 16:17 8148 Apr 27 13:46 8148 Apr 30 04:39	0° ₹ 26° ₹32'15 0° ₹ 0° ₹ 0° ₩ 0° ₩ 0° ₩ 15° ₹47'38 0° ₹ 1° ₹37'09 16° ₹42'52 18° ₹32'58 12° ₹17'00 10° ₹43'27 10° ₹45'01 10° ₹48'53 9° ₹12'57	-4.9m 9°11'35 9°11'28	morning set asc. node superior conj minimum elong max. Earth dist.	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27 8150 Aug 20 09:12 8150 Aug 23 22:32 8150 Sep 17 06:07 8150 Sep 21 19:00 8150 Sep 21 09:51 8150 Sep 21 09:51 8150 Oct 11 14:07 8150 Oct 28 03:50 8150 Nov 04 23:02	0°	1°07'40
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36 8148 Feb 16 15:08 8148 Mar 02 17:25 8148 Mar 04 14:42 8148 Mar 28 06:03 8148 Apr 07 01:43 8148 Apr 25 03:58 8148 Apr 27 17:18 8148 Apr 27 16:17 8148 Apr 27 13:46	0°♂ 26°♂32'15 0°♂ 0°≈ 0°भ 0°भ 15°°47'38 0°८ 1°837'09 16°842'52 18°832'58 12°817'00 10°843'27 10°845'01 10°848'53 9°812'57 2°856'05	-4.9m 9°11'35 9°11'28 0.27113 AU	morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27 8150 Aug 20 09:12 8150 Aug 23 22:32 8150 Sep 17 06:07 8150 Sep 21 19:00 8150 Sep 21 09:51 8150 Sep 21 14:36 8150 Oct 11 14:07 8150 Oct 28 03:50	0° \(\begin{align*} 0° \(\begin{align*} 0° \\ \begin{align*} 0° \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	1°07'40
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36 8148 Feb 16 15:08 8148 Mar 02 17:25 8148 Mar 04 14:42 8148 Mar 28 06:03 8148 Apr 07 01:43 8148 Apr 25 03:58 8148 Apr 27 17:18 8148 Apr 27 16:17 8148 Apr 27 13:46 8148 Apr 30 04:39	0° ₹ 26° ₹32'15 0° ₹ 0° ₹ 0° ₩ 0° ₩ 0° ₩ 15° ₹47'38 0° ₹ 1° ₹37'09 16° ₹42'52 18° ₹32'58 12° ₹17'00 10° ₹43'27 10° ₹45'01 10° ₹48'53 9° ₹12'57	-4.9m 9°11'35 9°11'28 0.27113 AU	morning set asc. node superior conj minimum elong max. Earth dist.	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27 8150 Aug 20 09:12 8150 Aug 23 22:32 8150 Sep 17 06:07 8150 Sep 21 19:00 8150 Sep 21 09:51 8150 Sep 21 09:51 8150 Oct 11 14:07 8150 Oct 28 03:50 8150 Nov 04 23:02	0°	1°07'40
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36 8148 Feb 16 15:08 8148 Mar 02 17:25 8148 Mar 04 14:42 8148 Mar 28 06:03 8148 Apr 07 01:43 8148 Apr 25 03:58 8148 Apr 27 17:18 8148 Apr 27 16:17 8148 Apr 27 13:46 8148 Apr 30 04:39 8148 May 18 08:14	0°♂ 26°♂32'15 0°♂ 0°≈ 0°भ 0°भ 15°°47'38 0°८ 1°837'09 16°842'52 18°832'58 12°817'00 10°843'27 10°845'01 10°848'53 9°812'57 2°856'05	-4.9m 9°11'35 9°11'28 0.27113 AU	morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27 8150 Aug 20 09:12 8150 Aug 23 22:32 8150 Sep 17 06:07 8150 Sep 21 19:00 8150 Sep 21 19:00 8150 Sep 21 09:51 8150 Oct 11 14:07 8150 Oct 28 03:50 8150 Nov 04 23:02 8150 Nov 29 09:33	0°Y 6°Y16'20 0°႘ 0°Ⅱ 0°Ω 19°Ω27'12 25°Ω36'44 0°™ 0°Ω 5°Ω35'39 5°Ω07'27 6°Ω36'04 0°™ 20°M24'17 0°% 13°♂07'19 0°≈	1°07'40
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36 8148 Feb 16 15:08 8148 Mar 02 17:25 8148 Mar 04 14:42 8148 Mar 28 06:03 8148 Apr 07 01:43 8148 Apr 25 03:58 8148 Apr 27 17:18 8148 Apr 27 16:17 8148 Apr 27 13:46 8148 Apr 30 04:39 8148 May 18 08:14 8148 May 27 21:22	0°♂ 26°♂32'15 0°♂ 0°≈ 0°∀ 0°∀ 15°Y47'38 0°℧ 1°℧37'09 16°℧42'52 18°℧32'58 12°℧17'00 10°℧43'27 10°℧45'01 10°℧48'53 9°℧12'57 2°℧56'05 4°℧39'48	-4.9m 9°11'35 9°11'28 0.27113 AU	morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27 8150 Aug 20 09:12 8150 Aug 23 22:32 8150 Sep 17 06:07 8150 Sep 21 19:00 8150 Sep 21 09:51 8150 Sep 21 14:36 8150 Oct 11 14:07 8150 Oct 28 03:50 8150 Nov 04 23:02 8150 Nov 29 09:33 8150 Dec 10 02:40	0° \(\begin{align*} 0° \(\begin{align*} 0° \\ \begin{align*} 0° \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	1°07'40
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36 8148 Feb 16 15:08 8148 Mar 02 17:25 8148 Mar 04 14:42 8148 Mar 28 06:03 8148 Apr 07 01:43 8148 Apr 25 03:58 8148 Apr 27 17:18 8148 Apr 27 16:17 8148 Apr 27 13:46 8148 Apr 30 04:39 8148 May 18 08:14 8148 May 27 21:22 8148 Jun 24 09:11	0°♂ 26°♂32'15 0°♂ 0°≈ 0°भ 0°भ 1°°Y47'38 0°∀ 1°∀37'09 16°∀42'52 18°∀32'58 12°∀17'00 10°∀43'27 10°∀48'53 9°∀12'57 2°∀56'05 4°∀39'48 22°∀49'52	-4.9m 9°11'35 9°11'28 0.27113 AU -4.9m	morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27 8150 Aug 20 09:12 8150 Aug 23 22:32 8150 Sep 17 06:07 8150 Sep 21 19:00 8150 Sep 21 09:51 8150 Sep 21 09:51 8150 Oct 11 14:07 8150 Oct 28 03:50 8150 Nov 04 23:02 8150 Dec 10 02:40 8150 Dec 23 21:59	0°Y 6°Y16'20 0°႘ 0°Ⅱ 0°Ω 19°Ω27'12 25°Ω36'44 0°™ 0°Ω 5°Ω35'39 5°Ω07'27 6°Ω36'04 0°™ 20°M24'17 0°% 13°♂07'19 0°≈	1°07'40
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36 8148 Feb 16 15:08 8148 Mar 02 17:25 8148 Mar 04 14:42 8148 Mar 28 06:03 8148 Apr 07 01:43 8148 Apr 25 03:58 8148 Apr 27 17:18 8148 Apr 27 16:17 8148 Apr 27 13:46 8148 Apr 30 04:39 8148 May 18 08:14 8148 May 27 21:22 8148 Jun 24 09:11 8148 Jul 02 04:25	0°♂ 26°♂32'15 0°♂ 0°≈ 0°भ 0°भ 1°°Y47'38 0°∀ 1°∀37'09 16°∀42'52 18°∀32'58 12°∀17'00 10°∀48'53 9°∀12'57 2°∀56'05 4°∀39'48 22°∀49'52 0°Ⅱ	-4.9m 9°11'35 9°11'28 0.27113 AU -4.9m	morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27 8150 Aug 20 09:12 8150 Aug 23 22:32 8150 Sep 17 06:07 8150 Sep 21 19:00 8150 Sep 21 09:51 8150 Sep 21 09:51 8150 Oct 11 14:07 8150 Oct 28 03:50 8150 Nov 04 23:02 8150 Dec 10 02:40 8150 Dec 23 21:59 8151 Jan 17 12:18	0°Y 6°Y16'20 0°႘ 0°Ⅱ 0°Ω 19°Ω27'12 25°Ω36'44 0°№ 0°Ω 5°Ω35'39 5°Ω07'27 6°Ω36'04 0°M 20°M24'17 0°% 0°% 13°♂07'19 0°%	1°07'40
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36 8148 Feb 16 15:08 8148 Mar 02 17:25 8148 Mar 04 14:42 8148 Mar 28 06:03 8148 Apr 07 01:43 8148 Apr 25 03:58 8148 Apr 27 17:18 8148 Apr 27 16:17 8148 Apr 27 16:17 8148 Apr 27 13:46 8148 Apr 30 04:39 8148 May 18 08:14 8148 May 27 21:22 8148 Jun 24 09:11 8148 Jul 02 04:25 8148 Jul 07 12:40	0°♂ 26°♂32'15 0°♂ 0°≈ 0°升 0°°Y 15°Y47'38 0°♂ 1°♂37'09 16°♂42'52 18°♂32'58 12°♂17'00 10°♂43'27 10°♂45'01 10°♂48'53 9°♂12'57 2°♂56'05 4°♂39'48 22°♂49'52 0°Ⅱ 5°Ⅱ11'56	-4.9m 9°11'35 9°11'28 0.27113 AU -4.9m	morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27 8150 Aug 20 09:12 8150 Aug 23 22:32 8150 Sep 17 06:07 8150 Sep 21 19:00 8150 Sep 21 09:51 8150 Sep 21 09:51 8150 Oct 11 14:07 8150 Oct 28 03:50 8150 Nov 04 23:02 8150 Nov 29 09:33 8150 Dec 10 02:40 8150 Dec 23 21:59 8151 Jan 17 12:18 8151 Feb 11 05:31	0°Υ 6°Υ16'20 0°႘ 0°Ⅱ 0°ಽ 0°Ω 19°Ω27'12 25°Ω36'44 0°♍ 0°료 5°£35'39 5°£07'27 6°£36'04 0°ጤ 20°ጤ24'17 0°Ґ 13°♂07'19 0°≋ 0°ዢ	1°07'40
evening max el asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8147 Nov 12 14:53 8147 Nov 15 12:19 8147 Dec 10 19:03 8148 Jan 05 14:28 8148 Feb 01 11:36 8148 Feb 16 15:08 8148 Mar 02 17:25 8148 Mar 04 14:42 8148 Mar 28 06:03 8148 Apr 07 01:43 8148 Apr 25 03:58 8148 Apr 27 17:18 8148 Apr 27 16:17 8148 Apr 27 13:46 8148 Apr 30 04:39 8148 May 18 08:14 8148 May 27 21:22 8148 Jun 24 09:11 8148 Jul 02 04:25 8148 Jul 07 12:40 8148 Jul 01 02:39	0°♂ 26°♂32'15 0°♂ 0°≈ 0°∀ 0°∀ 15°Y47'38 0°∀ 1°∀37'09 16°∀42'52 18°∀32'58 12°∀17'00 10°∀43'27 10°∀45'01 10°∀48'53 9°∀12'57 2°∀56'05 4°∀39'48 22°∀49'52 0°Ⅱ 5°Ⅱ11'56 0°©	-4.9m 9°11'35 9°11'28 0.27113 AU -4.9m	morning set asc. node superior conj minimum elong max. Earth dist. evening rise desc. node	8150 Apr 24 07:22 8150 Apr 29 11:16 8150 May 18 20:26 8150 Jun 12 03:47 8150 Jul 06 09:26 8150 Jul 30 15:31 8150 Aug 15 09:27 8150 Aug 20 09:12 8150 Aug 23 22:32 8150 Sep 17 06:07 8150 Sep 21 19:00 8150 Sep 21 09:51 8150 Sep 21 09:51 8150 Sep 21 09:51 8150 Oct 11 14:07 8150 Oct 28 03:50 8150 Nov 04 23:02 8150 Nov 29 09:33 8150 Dec 10 02:40 8150 Dec 23 21:59 8151 Jan 17 12:18 8151 Feb 11 05:31 8151 Mar 08 05:55	0° \boldsymbol{\psi} 6° \boldsymbol{\psi} 16'20 0° \boldsymbol{\psi} 0° \boldsymbol{\psi} 19° \boldsymbol{\psi} 27'12 25° \boldsymbol{\psi} 36'44 0° \boldsymbol{\psi} 5° \boldsymbol{\psi} 35'39 5° \boldsymbol{\psi} 07'27 6° \boldsymbol{\psi} 36'04 0° \boldsymbol{\psi} 20° \boldsymbol{\psi} 24'17 0° \boldsymbol{\psi} 13° \boldsymbol{\psi} 007'19 0° \boldsymbol{\psi} 0° \ps	1°07'40

evening max el	8151 Apr 30 12:17	29° ∏ 41'34	46°55'23		8153 Oct 01 23:24	0∘ ত	
evening max er	8151 Apr 30 19:36	0°99	40 33 23	morning set	8153 Oct 01 23:24 8153 Oct 23 07:56	0 — 26° ≏ 12'57	
	8151 Jun 08 12:07	$0^{\circ}\Omega$		morning sec	8153 Oct 26 09:45	0°M	
greatest brilliancy	8151 Jun 09 08:58	0° Ω 20'17	-4.9m		8153 Nov 19 17:48	0° ∡ 7	
retrograde	8151 Jun 19 21:47	2° Ω 24'22		max. Earth dist.	8153 Nov 27 08:01	9° × 122'41	1.73070 AU
	8151 Jun 30 19:49	30° ₹ 5					
evening set	8151 Jul 05 04:26	27° 5 49'35		superior conj	8153 Nov 28 21:01	11° × 17'01	1°16'12
inferior conj	8151 Jul 10 21:29	24°524'11	2°58'08	minimum elong	8153 Nov 29 04:56	11° ∡ ¹41'29	1°16'10
minimum elong	8151 Jul 11 03:58	24° 5 014'07	2°56'02	_	8153 Dec 14 00:23	0°ರ	
min. Earth dist.	8151 Jul 10 16:11	24° 5 32'24	0.27599 AU	evening rise	8154 Jan 05 15:18	28° පි 00'00	
morning rise	8151 Jul 17 04:06	20°5541'41		desc. node	8154 Jan 06 14:31	29° る 11'55	
desc. node	8151 Jul 22 20:49	18° © 07'27			8154 Jan 07 06:03	0° ≈	
direct	8151 Jul 31 20:12	16° © 31'15			8154 Jan 31 10:47	0° ∀	
greatest brilliancy	8151 Aug 10 14:46	18° © 16'23	-4.8m		8154 Feb 24 14:42	0 ° Υ	
	8151 Aug 30 16:16	0 $^{\circ}\Omega$			8154 Mar 20 19:01	9° 8	
morning max el	8151 Sep 18 20:14	16° Ω 46'42	45°51'37		8154 Apr 14 02:55	Π $^{\circ}0$	
	8151 Oct 02 01:54	0° m y		asc. node	8154 Apr 29 13:40	18° Ⅱ 50′23	
	8151 Oct 29 18:07	0∘ ⊽			8154 May 08 19:44	0°€	
asc. node	8151 Nov 12 20:01	16° ჲ 02'36			8154 Jun 03 06:33	$0^{\circ}\Omega$	
	8151 Nov 24 19:44	0°M₊			8154 Jun 30 07:43	O° m	
	8151 Dec 20 00:30	0°⊀		evening max el	8154 Jul 10 17:39	10° m 39'16	46°12'59
	8152 Jan 13 16:31	0°ಕ			8154 Aug 01 13:11	0∘ ಹ	
	8152 Feb 07 00:31	0° ≈		greatest brilliancy	8154 Aug 18 08:49	9° ჲ 53'02	-4.8m
	8152 Mar 02 03:14	0° ∀		desc. node	8154 Aug 19 08:22	10° ≏ 14'52	
desc. node	8152 Mar 03 12:41	1°) 44′25		retrograde	8154 Aug 29 09:53	12° ≏ 07'12	
morning set	8152 Mar 16 20:49	18° ∺ 25'40		evening set	8154 Sep 14 16:50	7° ≙ 00'26	
	8152 Mar 26 02:18	0° Υ		inferior conj	8154 Sep 19 21:58	3° £ 49'55	
	8152 Apr 18 23:14	9° 8		minimum elong	8154 Sep 19 12:07	4° £ 05'20	
				min. Earth dist.	8154 Sep 19 07:13	4° £ 13'01	0.28885 AU
superior conj	8152 Apr 26 17:44	9° 8 46'25		morning rise	8154 Sep 24 07:40	1° ≏ 08'00	
minimum elong	8152 Apr 26 16:11	9° 8 41'31		1'	8154 Sep 26 07:35	30°₹ ™	
max. Earth dist.	8152 Apr 27 07:18	10° 8 29'03	1.71220 AU	direct	8154 Oct 11 07:54	25° Mp 38'13	4.7
	8152 May 12 19:53 8152 Jun 05 18:15	0°€ 0°∏		greatest brilliancy	8154 Oct 21 06:53	27° Mp 25'30 0° <u> </u>	-4./m
avanina riaa	8152 Jun 05 18:15 8152 Jun 06 06:33	0°938'26		momina may al	8154 Oct 27 07:39	0° ≥ 25° ♀ 35'30	45945!10
evening rise asc. node	8152 Jun 06 06:33 8152 Jun 24 11:11	23° © 19'41		morning max el	8154 Nov 29 04:08 8154 Dec 03 16:08	0°M	45*45*10
asc. noue	8152 Jun 29 20:06	23 3 1941 0° Ω		asc. node	8154 Dec 10 07:54	6°M45'40	
	8152 Jul 24 02:48	0° m)		asc. node	8154 Dec 31 19:15	0° √ 7	
	8152 Aug 17 15:59	0∘ ʊ 0 ıııı			8154 Dec 31 19:13 8155 Jan 26 18:37	0°ਤ ਹ	
	8152 Sep 11 14:33	0°M			8155 Feb 20 18:42	0°≈	
	8152 Oct 07 03:49	0° ⊼ 7			8155 Mar 17 06:22	0°) €	
desc. node	8152 Oct 14 05:15	8° √ 06'47		desc. node	8155 Apr 01 00:59	18°) 17'37	
dese. node	8152 Nov 02 18:01	0°る。		dese. Hode	8155 Apr 10 10:48	0°Υ	
	8152 Dec 01 13:10	0° ≈			8155 May 04 11:05	0°8	
evening max el	8152 Dec 02 13:31	0° ≈ 58'51	46°00'40		8155 May 28 09:49	0°II	
greatest brilliancy	8153 Jan 11 03:46	29° ≈ 51'54	-4.8m	morning set	8155 Jun 02 00:31	5° Ⅱ 46'36	
,	8153 Jan 11 13:23	0°) €		Č	8155 Jun 21 09:13	0ಂತ	
retrograde	8153 Jan 20 18:50	1°) €35'06					
	8153 Jan 29 16:12	30° ₹ ≈		superior conj	8155 Jul 11 07:43	24° © 51'45	-0°27'48
evening set	8153 Feb 04 06:37	27° ≈ 29'34		minimum elong	8155 Jul 11 14:09	25° © 11'45	0°27'38
asc. node	8153 Feb 04 05:14	27° ≈ 31'24		max. Earth dist.	8155 Jul 14 12:17	28° © 49'56	1.72243 AU
inferior conj	8153 Feb 10 14:23	23° ≈ 47'15	1°37'39		8155 Jul 15 10:49	$0^{\circ}\Omega$	
minimum elong	8153 Feb 10 10:40	23° ≈ 52'58	1°36'33	asc. node	8155 Jul 22 23:03	9° Ω 19'56	
min. Earth dist.	8153 Feb 10 21:48	23° ≈ 35′50	0.27239 AU		8155 Aug 08 15:12	0° m	
morning rise	8153 Feb 16 14:04	20° ≈ 14′03		evening rise	8155 Aug 18 14:20	12° m 19'08	
direct	8153 Mar 03 09:51	15° ≈ 52′27			8155 Sep 01 22:32	0∘ ಹ	
greatest brilliancy	8153 Mar 13 22:56	17°≈57'20	-4.9m		8155 Sep 26 09:28	0° M ₊	
	8153 Apr 02 11:48	0° ∀			8155 Oct 21 01:23	0° ∡	
morning max el	8153 Apr 22 21:56	18°) (44′33	46°58'58	desc. node	8155 Nov 11 16:55	26° ∡ 03'15	
	8153 May 03 17:26	0° Υ			8155 Nov 15 00:08	0°ರ	
desc. node	8153 May 26 23:28	25° Y 53′13			8155 Dec 10 07:54	0° ≈	
	8153 May 30 13:09	0°8			8156 Jan 05 05:09	0° ∀	
	8153 Jun 25 01:15	0°∏			8156 Feb 01 06:13	0°Υ 13° W 2<150	46045126
	8153 Jul 20 00:42	0° ©		evening max el	8156 Feb 14 05:39	13° Y 26'59	46°47'20
	8153 Aug 13 18:54	$\Omega^{\circ}\Omega$		•	8156 Mar 03 02:43	0° 8	
aga m-J-	8153 Sep 07 10:24	0°Mp 11°m>22!4€		asc. node	8156 Mar 03 16:41	0° 8 29'01	4.0
asc. node	8153 Sep 16 21:27	11° m 32'46		greatest brilliancy	8156 Mar 25 18:14	14° 8 16'10	-4.9M

_							
retrograde	8156 Apr 04 15:06	16° 8 06'46		superior conj	8158 Sep 19 12:28	3° ≏ 28'36	1°05'53
evening set	8156 Apr 22 14:54	9° 8 53'48		minimum elong	8158 Sep 19 03:09	2° ≏ 59'54	1°05'36
inferior conj	8156 Apr 25 06:01	8° 8 17'25	9°10'09	max. Earth dist.	8158 Sep 20 08:52	4° ≙ 31'29	1.73229 AU
minimum elong	8156 Apr 25 04:03	8° 8 20'28	9°10'00		8158 Oct 11 00:48	0° M	
min. Earth dist.	8156 Apr 25 01:39	8° 8 24'08	0.27101 AU	evening rise	8158 Oct 25 21:27	18° M ₊17'48	
morning rise	8156 Apr 27 17:15	6° 8 47'05			8158 Nov 04 09:49	0° ∡ ¹	
direct	8156 May 15 21:32	0° 8 30'24			8158 Nov 28 20:34	0°₹	
greatest brilliancy	8156 May 25 09:10	2° 8 13'04	-4.9m	desc. node	8158 Dec 09 04:37	12° る 39'09	
desc. node	8156 Jun 23 11:08	21° 8 47'38	1.7111	dese. Hode	8158 Dec 23 09:22	0° ≈	
dese. Hode		0°II				0° ∺	
	8156 Jul 02 05:08		4.602.712.2		8159 Jan 17 00:13		
morning max el	8156 Jul 05 02:37	2° ∏ 50'48	46°37'33		8159 Feb 10 18:14	0° Υ	
	8156 Jul 30 19:16	0°€			8159 Mar 07 19:53	0° 8	
	8156 Aug 26 06:55	$0^{\circ}\Omega$		asc. node	8159 Apr 01 04:07	28° 8 15'53	
	8156 Sep 20 22:43	0° m y			8159 Apr 02 16:56	Π \circ 0	
asc. node	8156 Oct 14 09:48	27° Mp 56′38		evening max el	8159 Apr 28 01:20	27° Ⅱ 16'51	46°56'13
	8156 Oct 16 02:54	0∘ ⊽			8159 Apr 30 18:39	0 \circ \odot	
	8156 Nov 09 22:17	0°M		greatest brilliancy	8159 Jun 07 01:16	28°901'56	-4.9m
	8156 Dec 04 10:46	0° ∡ ¹		· ·	8159 Jun 15 13:49	$0^{\circ}\Omega$	
	8156 Dec 28 18:19	ි ව°0		retrograde	8159 Jun 17 11:45	0° Ω 04'22	
morning set	8156 Dec 31 05:08	³° ප 02'04		renograde	8159 Jun 19 09:20	30°RS	
morning set							
	8157 Jan 21 22:26	0°≈		evening set	8159 Jul 02 20:59	25°526'45	2010120
desc. node	8157 Feb 03 02:31	15°≈09'28		inferior conj	8159 Jul 08 11:40	22° © 04'54	3°19'38
max. Earth dist.	8157 Feb 04 19:51	17° ≈ 18'18	1.71957 AU	minimum elong	8159 Jul 08 18:51	21° © 53'46	3°17'21
				min. Earth dist.	8159 Jul 08 07:27	22° © 11'26	0.27566 AU
superior conj	8157 Feb 07 20:32	21° ≈ 04'57	-0°11'31	morning rise	8159 Jul 14 17:11	18° © 23'39	
minimum elong	8157 Feb 07 17:43	20° ≈ 56′12	0°11'17	desc. node	8159 Jul 21 22:45	15° © 18'36	
behind sun begin	8157 Feb 06 23:40	19° ≈ 59'53		direct	8159 Jul 29 09:26	14° © 12'16	
behind sun end	8157 Feb 08 11:46	21°≈52'32		greatest brilliancy	8159 Aug 08 05:15	15° © 58'10	-4.8m
	8157 Feb 14 23:55	0°) €			8159 Aug 31 04:01	$0^{\circ}\Omega$	
	8157 Mar 10 23:12	0°Υ		morning max el	8159 Sep 16 09:58	14° £ 29'02	45°52'49
evening rise	8157 Mar 19 17:00	10° Υ 57'45		morning max er	8159 Oct 01 20:26	0° m)	13 32 19
evening rise		0° 8				0∘ ত المار	
	8157 Apr 03 21:13			1	8159 Oct 29 08:33		
	8157 Apr 27 19:58	0°Щ		asc. node	8159 Nov 11 21:56	15° ≙ 29'30	
	8157 May 21 22:10	0°€			8159 Nov 24 08:26	0° M -	
asc. node	8157 May 27 01:19	6° © 21'11			8159 Dec 19 12:21	0° ∡ ¹	
	8157 Jun 15 06:51	$0 {\circ} \Omega$			8160 Jan 13 03:55	0°₹	
	8157 Jul 10 01:54	0° m)			8160 Feb 06 11:41	0°≈	
	8157 Aug 04 14:12	0∘ ⊽			8160 Mar 01 14:19	0° ∀	
	8157 Aug 31 11:56	0°M		desc. node	8160 Mar 02 14:44	1° ₩ 16'13	
desc. node	8157 Sep 15 19:53	15°M48'21		morning set	8160 Mar 14 07:45	15° ¥ 54'52	
evening max el	8157 Sep 19 13:59	19° M 27'58	45°41'27	· ·	8160 Mar 25 13:22	0° Υ	
<i>5</i>	8157 Oct 01 03:09	0° ∡ 7			8160 Apr 18 10:18	0°8	
greatest brilliancy	8157 Oct 28 13:22	17° ∡ ³34'19	-4.7m		010011p1 10 10.10	Ů O	
retrograde	8157 Nov 07 07:01	19° ∡ 16'41	- 	superior conj	8160 Apr 24 04:39	7° 8 15'03	1027112
•					•		
evening set	8157 Nov 24 21:35	13° × ⁷ 27'16	5 0.4015.6	minimum elong	8160 Apr 24 01:59	7° 8 06'40	
inferior conj	8157 Nov 28 16:13	11° × 707'15		max. Earth dist.	8160 Apr 24 09:41	7° 8 30'55	1.71216 AU
minimum elong	8157 Nov 29 00:27		7°42'40		8160 May 12 06:57	0°II	
min. Earth dist.	8157 Nov 29 08:05	10° ∡ ⁴42'21	0.28813 AU	evening rise	8160 Jun 03 17:53	28° Ⅱ 09'13	
morning rise	8157 Dec 03 03:07	8° ≯ 22'45			8160 Jun 05 05:19	0ంత	
direct	8157 Dec 20 03:54	2° ∡ ¹50'56		asc. node	8160 Jun 23 13:03	22° © 50'55	
greatest brilliancy	8157 Dec 31 03:25	5° ≯ 03'48	-4.8m		8160 Jun 29 07:14	$0^{\circ}\Omega$	
asc. node	8158 Jan 06 19:31	8° ∡ 14'47			8160 Jul 23 14:06	0° m)	
	8158 Feb 03 05:39	8°0			8160 Aug 17 03:38	0∘ ত	
morning max el	8158 Feb 08 01:15	4° ♂ 42'56	46°23'10		8160 Sep 11 02:51	0° M .	
	8158 Mar 03 19:31	0°≈			8160 Oct 06 17:20	0° ∡ 7	
	8158 Mar 29 19:55	0° ∀		desc. node	8160 Oct 13 07:17	7° ∡ ³32'38	
	8158 Apr 23 20:03	0°Υ		dese. Hode	8160 Nov 02 10:04	0°る	
daga rada	•			avanina ma1			15050125
desc. node	8158 Apr 28 13:22	5° Υ 44'35		evening max el	8160 Nov 30 03:24	28° る 41'03	45°59'25
	8158 May 18 08:24	8°0			8160 Dec 01 12:22	0° ≈	4.0
	8158 Jun 11 15:18	0°Щ		greatest brilliancy	8161 Jan 08 17:05	27° ≈ 30'53	-4.8m
	8158 Jul 05 20:38	0 \circ \odot		retrograde	8161 Jan 18 08:36	29° ≈ 14'22	
	8158 Jul 30 02:29	0 ° Ω		evening set	8161 Feb 01 20:17	25° ≈ 08′02	
morning set	8158 Aug 13 01:25	17° Ω 14'51		asc. node	8161 Feb 03 07:11	24° ≈ 20′13	
asc. node	8158 Aug 19 11:10	25° Ω 09′29		inferior conj	8161 Feb 08 04:05	21° ≈ 25'47	1°14'33
	8158 Aug 23 09:19	0° m		minimum elong	8161 Feb 08 01:13	21° ≈ 30′10	1°13'44
	8158 Sep 16 16:48	0∘ ⊽		min. Earth dist.	8161 Feb 08 12:22	21° ≈ 13′02	0.27278 AU
	1			morning rise	8161 Feb 14 05:31	17°≈50'26	
				5			

Section Sect	t' i	0161 M 01 00 02	12020105			01/2 0 01 00 22	00.0	
Section Sect	direct	8161 Mar 01 00:03	13°≈30'05	4.0		8163 Sep 01 09:32	0∘ ⊽	
Michigan	greatest brilliancy			-4.9m		•		
of concole 8161 May 80 1212 0°P control 8161 May 80 1422 0°P control 6161 May 80 1422 0°P 400 May 80 1422 0°P 100 May 80 1422		•						
Michany 19 01 19 19 19 19 19 19 1	morning max el	•		46°58'32	desc. node			
Sin Si								
	desc. node	-						
Section Sect		•	_					
1816 1816							• •	
Self Supplies Self Suppli					evening max el			46°46'01
1		8161 Aug 13 06:40			asc. node	8164 Mar 02 18:48		
Manipulation Mail Col 10 10 20 20 20 20 20 20		8161 Sep 06 21:42	0° m y			8164 Mar 03 15:26	_	
Manufaming and Manu	asc. node	8161 Sep 15 23:30	11°Mp04'54		greatest brilliancy	8164 Mar 23 07:15		-4.9m
Math		8161 Oct 01 10:26	0∘ ত		retrograde	8164 Apr 02 04:15		
max. Earth May 19437 0°2° 1790°	morning set	8161 Oct 21 01:15	24° £ 05'08		evening set	8164 Apr 20 01:27		
max. Earth dist. 8161 Nov 26 14.05 7°,8°,2°5° 1.730° minimate morning in the mor		8161 Oct 25 20:37	0°M₊		inferior conj	8164 Apr 22 18:59		9°07'36
superior condition 8161 Nov 26 14.05 9°-20°00 1°1740 moming neam 8164 May 03 17.50 03°07%		8161 Nov 19 04:37	0° ∡ 7		minimum elong	8164 Apr 22 16:02	5° 8 56'15	9°07'23
superior conj 8161 Nov 26 1405 9-Patron 11-74 side with the state of t	max. Earth dist.	8161 Nov 25 04:55	7° ∡ ¹25'32	1.73093 AU	min. Earth dist.	8164 Apr 22 14:05	5° 8 59'15	0.27087 AU
minimum elong 8161 Nov 2 6 2132 9°,3°101 1°1740 diece 8164 May 2 1032 28°Y0505 4°90 evening rise 8162 Jan 0 6 1627 2°5453 - 8ce node 8164 May 2 2 1321 2°7646 4°80 6es. node 8162 Jan 0 5 1627 2°5453 - 8ce node 8164 May 2 2 1321 2°9° 4674 8162 Jan 0 2 158 0°H morning mas 8164 Jan 0 10 143 0°E34 46°3853 8162 Jan 1 2 158 0°H morning mas 8164 Jan 0 1148 0°H 46°3853 8162 Jan 1 3 1516 0°H - 8164 Jan 0 1148 0°H 46°3853 8162 Jan 1 3 1516 0°H - 8164 Jan 0 1148 0°H 46°3853 8162 Jan 2 1 3 1516 0°H - 1614 Jan 0 1148 0°H 46°3853 8162 Jan 3 0 0.55 0°H - 1614 Jan 0 1148 0°H 0°H 46°3853 evening mas 1612 Jan 1 3 00.55 0°H 46°4433 18°4 be 0 2 1114 0°H 46°84534 evening mas 1612 Jan 2 0 0					morning rise	8164 Apr 25 06:41	4° 8 20'29	
cevening rise Si Cl Le 13 11:5 0°S See See Si Cl May 22 21:32 29°N 658 4-9m cevening rise Si Cl La Cl Cl Cl Cl Cl Cl Cl C	superior conj	8161 Nov 26 14:05	9° ₰ 08'00	1°17'41		8164 May 03 17:50	30° ₹Ƴ	
evening rise 8162 Jan 03 06-10 28° 548'03 6 6 6 6 6 1 1 1 1 1	minimum elong	8161 Nov 26 21:32	9° ∡ 31'01	1°17'40	direct	8164 May 13 10:43	28° Ƴ 05′05	
Mathematical Math		8161 Dec 13 11:15	8°0		greatest brilliancy	8164 May 22 21:32	29° Ƴ 46'54	-4.9m
Second	evening rise	8162 Jan 03 06:40	25° る 45'03			8164 May 23 12:18	9° 8	
Section Sec	desc. node	8162 Jan 05 16:27	28° る 43'56		desc. node	8164 Jun 22 13:07	20° 8 46'44	
Section Sec		8162 Jan 06 17:02	0° ≈			8164 Jul 02 04:50	Π° 0	
Section Sec		8162 Jan 30 21:58	0° ∀		morning max el	8164 Jul 02 15:41	0° Ⅲ 26′54	46°38'53
asc. node 8162 Apr 13 1515 0°I sec. node 8164 Oct 13 1141 27°P6258 18°P62 More 18°P6258 18°P62 More 18°P62 More 18°P6258 18°P62 More 18°		8162 Feb 24 02:08	$0^{\circ}\mathbf{\Upsilon}$			8164 Jul 30 11:48	0°©	
asc. node 8162 Apr 13 15.15 0°II		8162 Mar 20 06:50	0°8			8164 Aug 25 20:50	$0^{\circ}\Omega$	
Second		8162 Apr 13 15:16				-		
Part	asc. node	•	18° Ⅱ 17'14		asc. node	•	27° m) 26'58	
Side 10 10 10 10 10 10 10 1		•				8164 Oct 15 14:38	-	
evening max el 8162 Jun 30 02:55 0°Pm 40°1443 160 16		•	0°N					
evening max of greatest brilliance 8162 Jul 08 09:53 8° p2610 4° 14'43 moorning set 8164 Dec 28 05:11 0° 56 γ								
greatest brillian 8162 Aug 02 06.00 0°Φ morning set 8164 Dec 28 20.53 0°Φ48'37 desc. node 8162 Aug 18 10:27 7°Φ40'03 -4.8m 8165 Jan 21 09:19 0°±∞ 14°∞41'84 retrograde 8162 Aug 27 02:44 9°Φ55'31 max. Earth dist. 8165 Feb 02 06:37 14°∞48'22 1.72002 AU evening set 8162 Sep 16 22:17 2°Φ30'30 0.28845 AU superior conj 8165 Feb 05 09:42 18°∞42'22 -0°70'49 inferior conj 8162 Sep 17 13:55 1°Ф353'9 6°26'16 behind sun begin 8165 Feb 05 09:48 18°∞42'22 0°07'38 morning rise 8162 Sep 17 03:57 1°Ф353'9 6°26'16 behind sun begin 8165 Feb 05 07:48 18°∞42'22 0°07'38 morning rise 8162 Sep 20 05:52 30°R\mathbb{m} ebehind sun begin 8165 Feb 05 07:48 18°∞45'28 0°07'38 greatest brillian 8162 Oct 82 3:18 23°m272'7 evening rise 8165 Feb 10 09:54 10°2*1 0°9*1 greatest brillian 8162 Oct 82 3:12 25°m13'14 4.7m evening rise	evening max el			46°14'43				
greatest brilliancy 8162 Aug 15 23:55 7° 240'03 4.8m desc. node 8165 Feb 02 04:33 14° ≈41'154 14° ~ 48	<i>y</i>				morning set			
desc. node 8162 Aug 18 10.27 8°£31'12 desc. node 8165 Feb 02 0:433 14°≈41'54 17000 AU retrograde 8162 Aug 27 0:244 9°£55'31 max. Earth dist. 8165 Feb 02 0:637 14°≈48'22 1,72002 AU evening set 8162 Sep 12 05:57 4°£53'02 min 8165 Feb 02 0:632 18°≈42'22 0*07'49 min. Earth dist. 8162 Sep 17 03:57 1°£53'59 6*28'14 minimum elong 8165 Feb 05 09:42 18°≈42'22 0*07'49 minimum elong 8162 Sep 17 03:57 1°£53'59 6*26'16 behind sun begin 8165 Feb 04 09:44 18°≈42'22 0*07'49 morning rise 8162 Sep 20 05:22 30°R™ behind sun begin 8165 Feb 04 09:44 18°≈42'22 0*07'49 direct 8162 Sep 20 05:22 30:80 20°R™ behind sun begin 8165 Feb 04 09:44 18°×22'29 0*738 direct 8162 Sep 20 05:22 32:80 28°T2'72* 8165 Mar 10 10:11 0°Y 0*9** 0*9** 8165 Mar 10 10:11 0°Y 18°* 0*9** 18°* 0*9** 8165 Mar 10 10:11 0°Y 18°* 0*9** 18°* <td>greatest brilliancy</td> <td>Č</td> <td></td> <td>-4.8m</td> <td></td> <td></td> <td></td> <td></td>	greatest brilliancy	Č		-4.8m				
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min. Earth dist. 8162 Sep 16 22:11 2°\$\tamble 0301 0.28845 AU minimum elong 8165 Feb 05 07:48 18°\$\tamp 42'22 0°07'49 10°6 Feb 17 07:57 1°\$\tamp 43825 6°28'14 minimum elong 8165 Feb 05 07:48 18°\$\tamp 436'28 0°07'38 10°\$\tamp 455'59 0°26'16 behind sun begin 8165 Feb 05 07:48 18°\$\tamp 452'729 0°77'38 10°\$\tamp 455'59 0°26'16 behind sun begin 8165 Feb 06 07:56 19°\$\tamp 452'729 0°\$\tamp 455'729 0°\$\tamp 455'59 0°\$\tamp	_	•			man. Bartir dist.	0100100 02 00.57	1	1.,2002110
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Morning rise 8162 Sep 20 05:22 30°R m behind sun end 8165 Feb 06 05:56 19°≈45'28 morning rise 8162 Oct 08 23:58 28°m 52'50 cmorning max el 8165 Feb 14 10:51 0°H cmorning max el 8162 Oct 18 21:14 25°m 13'41 4.7m evening rise 8165 Mar 10 10:11 0°M cmorning max el 8162 Oct 28 22:12 0°Φ 8165 Mar 10 30 8:18 0°U 0°Φ 8165 Mar 20 30 8:18 0°U 0°Φ 0°Φ 0°Φ 8165 Mar 20 30 8:18 0°U 0°Φ 0°Φ 0°Φ 8165 Mar 20 30 8:18 0°U 0°Φ 0	-	-			•			0 07 30
moming rised direct 8162 Sep 22 02:18 28° m52'550 sevening rise 8165 Feb 14 10:51 0° χ sevening rise 8165 Mar 10 10:11 0° χ sevening rise 8165 Apr 30 80:88 0° χ 0° χ sevening rise 8165 Apr 30 80:88 0° χ 0° χ sevening rise 8165 Apr 30 80:88 0° χ 0° χ <td>minimum clong</td> <td>•</td> <td></td> <td>0 20 10</td> <td>•</td> <td></td> <td></td> <td></td>	minimum clong	•		0 20 10	•			
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morning max el 8162 Nov 26 20:13 23°Ω25'00 45°44'30 8165 Apr 27 07:12 0°∏ 1 asc. node 8162 Dec 03 12:28 0°∏ 8162 Dec 09 09:49 6°∏02'16 asc. node 8165 May 21 09:37 0°ℑ 1 asc. node 8162 Dec 31 10:20 0°ℑ 8165 May 26 03:14 5°ℑ51'33 1 8163 Feb 20 06:55 0°ӂ 8165 Jul 09 14:26 0°¶	greatest offinaley		-	-4.7111	evening rise			
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8162 Dec 31 10:20 0°\$\footnote{N}\$ 1663 Jan 26 07:46 0°\$\footnote{N}\$ 1663 Jan 26 07:46 0°\$\footnote{N}\$ 1663 Feb 20 06:55 0°\$\infty\$ 18163 Mar 16 18:05 0°\$\footnote{N}\$ 1865 Aug 04 04:07 0°\$\footnote{\Omega}\$ 1865 Aug 04:08:05 0°\$\Ome	asc node				asc node	•		
8163 Jan 26 07:46 0°€ 8165 Jul 09 14:26 0°₱ 14:26 0°₱ 14:26 10°₱	ase. Houe				ase. node	•		
8163 Feb 20 06:55 0°≈ 8165 Aug 04 04:07 0°Ω 1 15° Mc01'17 8163 Mar 16 18:05 0°								
8163 Mar 16 18:05 0°H desc. node 8165 Aug 31 05:09 0°M 15 15°M 01'17 15 16 18:05 Nov 26 18:05								
desc. node 8163 Mar 31 03:02 17° \(\) 48'16 desc. node 8165 Sep 14 21:53 15° \(\) 10' 11' 17° \(\) 13'36 45° 41'40 evening max el 8165 Sep 17 04:25 17° \(\) 13'36 45° 41'40 evening max el 8165 Oct 01 08:57 0° \(\) 2 18' 18' 18' 18' 18' 18' 18' 18' 18' 18'						•		
8163 Apr 09 22:12	dasa nada				dasa nada	•		
8163 May 27 20:54 0°Ⅱ greatest brilliancy 8165 Oct 26 04:48 15° ₹23'35 -4.7m morning set 8163 May 30 12:53 3° Ⅲ20'21 retrograde 8165 Nov 04 22:00 17° ₹05'56 8163 Jun 20 20:13 0°⑤ evening set inferior conj 8165 Nov 26 08:10 8° ₹55'59 -7° 52'26 superior conj 8163 Jul 08 21:30 22° ⑤31'05 -0° 31'15 minimum elong 8165 Nov 26 15:54 8° ₹43'49 7° 51'21 minimum elong 8163 Jul 09 04:39 22° ⑤53'21 0° 31'04 min. Earth dist. 8165 Nov 26 23:36 8° ₹31'44 0.28855 AU max. Earth dist. 8163 Jul 12 04:29 26° ⑤36'55 1.72200 AU morning rise 8165 Nov 30 15:53 6° ₹15'57 8163 Jul 14 21:46 0° € direct 8165 Dec 17 19:34 0° ₹39'14 asc. node 8163 Aug 08 02:08 0° № 30' № asc. node 8166 Jan 05 21:33 6° ₹51'15 8163 Aug 08 02:08 0° № 30' № asc. node 8166 Jan 05 21:33 6° ₹51'15	desc. Hode					*		45041140
morning set 8163 May 27 20:54 0°Ⅱ greatest brilliancy 8165 Oct 26 04:48 15° ₹23'35 -4.7m morning set 8163 May 30 12:53 3° Ⅲ20'21 retrograde 8165 Nov 04 22:00 17° ₹05'56 8163 Jun 20 20:13 0° © evening set 8165 Nov 22 15:42 11° ₹12'45 inferior conj 8165 Nov 26 08:10 8° ₹55'59 -7° 52'26 superior conj 8163 Jul 08 21:30 22° © 31'05 -0° 31'15 minimum elong 8165 Nov 26 15:54 8° ₹43'49 7° 51'21 minimum elong 8163 Jul 09 04:39 22° © 53'21 0° 31'04 min. Earth dist. 8165 Nov 26 23:36 8° ₹31'44 0.28855 AU max. Earth dist. 8163 Jul 12 04:29 26° © 36'55 1.72200 AU morning rise 8165 Nov 30 15:53 6° ₹15'57 8163 Jul 14 21:46 0° € direct 8165 Dec 17 19:34 0° ₹39'14 asc. node 8163 Aug 08 02:08 0° № 30'0 asc. node 8166 Jan 05 21:33 6° ₹51'15		•			evening max er	*		43 41 40
morning set 8163 May 30 12:53 3° II 20'21 retrograde 8165 Nov 04 22:00 17° 🗷 05'56 evening set 8163 Jun 20 20:13 0° S evening set 8165 Nov 22 15:42 11° 🗷 12'45 superior conj 8163 Jul 08 21:30 22° S31'05 -0° 31'15 minimum elong 8165 Nov 26 08:10 8° 🗷 43'49 7° 51'21 minimum elong 8163 Jul 09 04:39 22° S53'21 0° 31'04 min. Earth dist. 8165 Nov 26 23:36 8° 🗷 31'44 0.28855 AU max. Earth dist. 8163 Jul 12 04:29 26° S36'55 1.72200 AU morning rise 8165 Nov 30 15:53 6° 🗷 15'57 8163 Jul 14 21:46 0° Ω direct 8165 Dec 17 19:34 0° 🗷 39'14 asc. node 8163 Aug 08 02:08 0° ID section asc. node 8166 Jan 05 21:33 6° № 51'15 section asc. node 8166 Jan 05 21:34 6° № 51'15 section asc. node 8166 Jan 05 21:34 6° № 51'15 section asc. node 8166 Jan 05 21:34 6° № 51'15 section asc. node 8166 Jan 05 21:34 6° № 51'15 section asc. nod		•			grantast brillianav			4.7m
Superior conj S163 Jul O2 20:13 O2 O2:13 O2:14	morning act	•						-4 ./III
Superior conj S163 Jul OS 21:30 22°©31'05 -0°31'15 minimum elong S165 Nov 26 OS:10 S° ₹55'59 -7°52'26 Superior conj S163 Jul OS 21:30 22°©31'05 -0°31'15 minimum elong S165 Nov 26 DS:54 S° ₹43'49 7°51'21 Minimum elong S163 Jul OS 04:39 22°©53'21 O°31'04 min. Earth dist. S165 Nov 26 DS:54 S° ₹31'44 O.28855 AU Max. Earth dist. S163 Jul OS 04:29 OS 05'55'59 OS 05'51'21 Minimum elong S165 Nov 26 DS:54 OS ₹31'44 O.28855 AU Minimum elong S165 Nov 30 DS:55 OS ₹15'57 Minimum elong S165 Nov 26 DS:54 OS ₹15'57 Minimum elong S165 Nov 30 DS:55	morning set	-			-			
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minimum elong max. Earth dist. 8163 Jul 12 04:29 26°S36'55 1.72200 AU morning rise 8165 Nov 26 23:36 8° ₹31'44 0.28855 AU morning rise 8165 Nov 30 15:53 6° ₹15'57 direct 8165 Dec 17 19:34 0° ₹39'14 asc. node 8163 Jul 22 01:04 8° ₹52'14 greatest brilliancy 8165 Dec 28 19:26 2° ₹51'42 -4.8m asc. node 8163 Aug 08 02:08 0° № asc. node 8166 Jul 05 21:33 6° ₹51'15	gunorior cor:	9162 Jul 00 21.20	2206221107	0021115				
max. Earth dist. 8163 Jul 12 04:29 26°\$36'55 1.72200 AU morning rise 8165 Nov 30 15:53 6°\$\times\$15'57 8163 Jul 14 21:46 0°\$\tilde{\Omega}\$ direct 8165 Dec 17 19:34 0°\$\tilde{\Sigma}\$ asc. node 8163 Jul 22 01:04 8°\$\tilde{\Omega}\$52'14 greatest brilliancy 8165 Dec 28 19:26 2°\$\tilde{\Sigma}\$51'42 -4.8m 8163 Aug 08 02:08 0°\$\tilde{\Omega}\$ 02:08 0°\$\tilde{\Omega}\$ asc. node 8166 Jan 05 21:33 6°\$\tilde{\Sigma}\$51'15					•			
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asc. node 8163 Jul 22 01:04 8° € 52′14 greatest brilliancy 8165 Dec 28 19:26 2° ₹ 51′42 -4.8m 8163 Aug 08 02:08 0° ↑ asc. node 8166 Jan 05 21:33 6° ₹ 51′15	max. Earth dist.			1./2200 AU	•			
8163 Aug 08 02:08 0° Mp asc. node 8166 Jan 05 21:33 6° ₹751'15	1							4.0
	asc. node							-4.8m
evening rise 8163 Aug 16 06:34 10 100 1715 8166 Feb 03 04:57 0 5		=			asc. node			
	evening rise	8103 Aug 16 06:34	10°11 0 0'/'15			8100 Feb 03 04:57	0.0	

morning max el	8166 Feb 05 15:24	2° る 24'13	46°21'31	desc. node	8168 Oct 12 09:10	6° √ 58'41	
	8166 Mar 03 11:40	0° ≈			8168 Nov 02 02:07	0°る	
	8166 Mar 29 09:40	0°) €		evening max el	8168 Nov 27 18:07	26° ප් 26'03	45°58'02
	8166 Apr 23 08:37	$0^{\circ}\mathbf{Y}$		C	8168 Dec 01 12:26	0° ≈	
desc. node	8166 Apr 27 15:09	5° Υ 12'08		greatest brilliancy	8169 Jan 06 06:07	25° ≈ 10'01	-4.8m
	8166 May 17 20:18	0° 8		retrograde	8169 Jan 15 22:24	26° ≈ 53'45	
	8166 Jun 11 02:45	$\Pi^{\circ}0$		evening set	8169 Jan 30 10:05	22° ≈ 46′39	
	8166 Jul 05 07:45	0 \circ \odot		asc. node	8169 Feb 02 09:16	21° ≈ 06′18	
	8166 Jul 29 13:21	$0^{\circ}\Omega$		inferior conj	8169 Feb 05 17:37	19° ≈ 04'32	0°51'18
morning set	8166 Aug 10 17:29	15° Ω 02'58		minimum elong	8169 Feb 05 15:39	19° ≈ 07'35	0°50'47
asc. node	8166 Aug 18 13:12	24° Ω 42'41		min. Earth dist.	8169 Feb 06 02:37	18° ≈ 50'43	0.27317 AU
	8166 Aug 22 20:01	0° m		morning rise	8169 Feb 11 20:37	15° ≈ 27'17	
	8166 Sep 16 03:25	0∘ ⊽		direct	8169 Feb 26 14:32	11° ≈ 08′12	
				greatest brilliancy	8169 Mar 09 05:09	13° ≈ 15′22	-4.9m
superior conj	8166 Sep 17 05:54	1° ≏ 21'37			8169 Apr 03 07:24	0° ∀	
minimum elong	8166 Sep 16 20:29		1°03'26	morning max el	8169 Apr 18 04:12	14°) €05'34	46°58'04
max. Earth dist.	8166 Sep 18 01:59	2° ഫ 23'35	1.73215 AU		8169 May 03 06:56	0° Y	
	8166 Oct 10 11:27	0°M₊		desc. node	8169 May 25 03:23	24° Ƴ 36'12	
evening rise	8166 Oct 23 14:58	16°M11'07			8169 May 29 19:01	0°8	
	8166 Nov 03 20:35	0° ∡			8169 Jun 24 03:40	0°Щ	
	8166 Nov 28 07:34	0° る			8169 Jul 19 01:08	0ა ௐ	
desc. node	8166 Dec 08 06:31	12° る 10'59			8169 Aug 12 18:03	0 ° Ω	
	8166 Dec 22 20:43	0° ≈			8169 Sep 06 08:40	0° m	
	8167 Jan 16 12:05	0°) €		asc. node	8169 Sep 15 01:24	10° m 37'37	
	8167 Feb 10 06:53	0° Υ			8169 Sep 30 21:06	0∘ ⊽	
	8167 Mar 07 09:52	0°8		morning set	8169 Oct 18 18:42	21° ≏ 58'47	
asc. node	8167 Mar 31 06:02	27° 8 35'09			8169 Oct 25 07:07	0°M 0°. 7	
	8167 Apr 02 09:31	0°II	4.605.710.0	P. d. F.	8169 Nov 18 15:05	0° ⊼ ¹	1 72117 411
evening max el	8167 Apr 25 14:12	24° ∏ 51'58	46°57'00	max. Earth dist.	8169 Nov 23 01:40	5° ₹ 29'03	1.73117 AU
4 41 711	8167 Apr 30 18:36	0°95	4.0		01(03) 24 07 12	70 700117	1010102
greatest brilliancy	8167 Jun 04 17:08	25°543'09	-4.9m	superior conj	8169 Nov 24 07:13	7°× 7 '00'17	1°19'02
retrograde	8167 Jun 15 02:00	27°544'37		minimum elong	8169 Nov 24 14:10	7° メ 21'44 0°る	1°19'03
evening set	8167 Jun 30 13:32 8167 Jul 06 01:45	23°503'41	2940146		8169 Dec 12 21:47 8169 Dec 31 21:56	23° る 30'43	
inferior conj minimum elong	8167 Jul 06 09:35	19° © 45'43 19° © 33'36	3°40'46 3°38'20	evening rise desc. node	8170 Jan 04 18:33	23 3 3043 28° る 17'19	
min. Earth dist.	8167 Jul 05 09:33	19 933 30 19°950'45	0.27536 AU	desc. node	8170 Jan 06 03:44	28 ⊘ 1719 0° ≈	
morning rise	8167 Jul 12 05:59	16°906'17	0.27330 AU		8170 Jan 30 08:53	0° ∺	
desc. node	8167 Jul 21 00:46	12° © 35'09			8170 Feb 23 13:20	0°Υ	
direct	8167 Jul 26 22:27	11°953'16			8170 Mar 19 18:23	%8 0°8	
greatest brilliancy	8167 Aug 05 19:33	13°5540'12	-4 8m		8170 Apr 13 03:20	0°II	
greatest offinaley	8167 Aug 31 12:25	0°Ω	1.0111	asc. node	8170 Apr 27 17:31	17° Ⅱ 45'01	
morning max el	8167 Sep 14 00:25	12° Ω 13'40	45°54'04		8170 May 07 21:59	0°ತಾ	
morning man er	8167 Oct 01 14:16	0° mp			8170 Jun 02 12:20	$0^{\circ}\Omega$	
	8167 Oct 28 22:37	0∘ ⊽			8170 Jun 29 22:16	0° m)	
asc. node	8167 Nov 10 23:50	14° ≏ 57'04		evening max el	8170 Jul 06 02:25	6° m) 14'43	46°16'22
	8167 Nov 23 20:54	0°M		C	8170 Aug 03 04:08	0∘ <mark>⊽</mark>	
	8167 Dec 19 00:01	0°⊀		greatest brilliancy	8170 Aug 13 15:34	5° ≏ 28'36	-4.8m
	8168 Jan 12 15:09	ರ°0		desc. node	8170 Aug 17 12:29	6° ₽ 44'39	
	8168 Feb 05 22:40	0° ≈		retrograde	8170 Aug 24 19:15	7° ≏ 44'28	
	8168 Mar 01 01:10	0°) €		evening set	8170 Sep 09 19:07	2° ≏ 46'28	
desc. node	8168 Mar 01 16:42	0°){ 48′29			8170 Sep 14 09:09	30°R, Mp	
morning set	8168 Mar 11 18:44	13° ¥ 25′03		min. Earth dist.	8170 Sep 14 13:17	29° m 53'32	0.28801 AU
	8168 Mar 25 00:11	0 ° Υ		inferior conj	8170 Sep 15 05:45	29° m 27'46	-6°14'38
	8168 Apr 17 21:07	9° 8		minimum elong	8170 Sep 14 19:45	29° m 43'25	6°12'34
				morning rise	8170 Sep 19 20:50	26° № 38′22	
superior conj	8168 Apr 21 15:30	4° 8 44'16		direct	8170 Oct 06 16:01	21° m 17'43	
minimum elong	8168 Apr 21 11:46	4° 8 32'32		greatest brilliancy	8170 Oct 16 11:16	23°M 02'26	-4.7m
max. Earth dist.	8168 Apr 21 15:44		1.71216 AU		8170 Oct 30 00:27	0∘ ⊽	
	8168 May 11 17:45	Π °0		morning max el	8170 Nov 24 11:39	21° ≏ 14'09	45°43'53
evening rise	8168 Jun 01 05:15	25° ∏ 40′50			8170 Dec 03 07:41	0° M	
	8168 Jun 04 16:09	0∘ ௐ		asc. node	8170 Dec 08 11:53	5°M21'02	
asc. node	8168 Jun 22 15:07	22° © 23'30			8170 Dec 31 00:48	0° ∡ 7	
	8168 Jun 28 18:08	$\Omega^{\circ}\Omega$			8171 Jan 25 20:27	0°ರ	
	8168 Jul 23 01:10	0° m			8171 Feb 19 18:46	0° ≈	
	8168 Aug 16 15:02	0∘ 亚			8171 Mar 16 05:30	0°) {	
	8168 Sep 10 14:53	0°M 0°. 7		desc. node	8171 Mar 30 04:54	17°) € 19'14	
	8168 Oct 06 06:39	0° ∡			8171 Apr 09 09:21	0 ° Υ	

	8171 May 03 09:14	0° ႘			8173 Oct 01 16:49	0° ∡ ¹	
	8171 May 27 07:40	0°II		greatest brilliancy	8173 Oct 23 19:39	13° х 12'49	-4.7m
morning set	8171 May 28 00:53	0° П 53'56		retrograde	8173 Nov 02 13:12	14° 1 55'57	1.7111
	8171 Jun 20 06:52	0°ಅ		evening set	8173 Nov 20 09:36	8° х 58'51	
				inferior conj	8173 Nov 24 00:04	6° ∡ ¹45'14	-8°00'16
superior conj	8171 Jul 06 11:03	20°910'46	-0°34'40	minimum elong	8173 Nov 24 07:15	6° ∡ ³33'57	7°59'20
minimum elong	8171 Jul 06 18:54	20°535'12	0°34'28	min. Earth dist.	8173 Nov 24 14:59	6° ∡ 121'48	0.28896 AU
max. Earth dist.	8171 Jul 09 21:27	24°527'22	1.72153 AU	morning rise	8173 Nov 28 04:39	4° ₹ 09'48	
	8171 Jul 14 08:22	$0^{\circ}\Omega$			8173 Dec 06 17:15	30°RM₊	
asc. node	8171 Jul 21 03:04	8° Ω 25'37		direct	8173 Dec 15 11:07	28° M 27′52	
	8171 Aug 07 12:43	0° m)			8173 Dec 24 13:54	0° ∡ ¹	
evening rise	8171 Aug 13 22:39	7° m 55'55		greatest brilliancy	8173 Dec 26 11:40	0° х 40′32	-4.8m
	8171 Aug 31 20:11	0∘ ⊽		asc. node	8174 Jan 04 23:33	5° ∡ ′30'53	
	8171 Sep 25 07:28	0° M ○○ 7			8174 Feb 03 03:02	0°る	4.600.010.4
11-	8171 Oct 20 00:06	0°⊀ 7 25°∗ 7 03140		morning max el	8174 Feb 03 06:17		46°20'04
desc. node	8171 Nov 09 20:50 8171 Nov 14 00:09	25° メ 03'49 0°る			8174 Mar 03 03:19 8174 Mar 28 23:03	0° ∺	
	8171 Nov 14 00:09 8171 Dec 09 10:07	0°≈			8174 Apr 22 20:55	0°Υ	
	8171 Dec 09 10:07 8172 Jan 04 11:18	0° ∺		desc. node	8174 Apr 26 17:12	4° Υ 41'13	
	8172 Jan 31 21:13	0° Υ		dese. Hode	8174 May 17 07:59	0°8	
evening max el	8172 Feb 09 09:42	8° Y 42'57	46°44'26		8174 Jun 10 14:03	0°II	
asc. node	8172 Mar 01 20:40	28° Y ′06′36			8174 Jul 04 18:46	0ಂತಾ	
	8172 Mar 04 08:11	0°8			8174 Jul 29 00:08	$0^{\circ}\Omega$	
greatest brilliancy	8172 Mar 20 20:30	9° 8 24'51	-4.9m	morning set	8174 Aug 08 09:07	12° Ω 49'54	
retrograde	8172 Mar 30 16:33	11° 8 14'09		asc. node	8174 Aug 17 15:05	24° Ω 15'41	
evening set	8172 Apr 17 11:10	5° 8 10'40			8174 Aug 22 06:36	0° ™	
inferior conj	8172 Apr 20 07:41	3° 8 25'52					
minimum elong	8172 Apr 20 03:45	3° 8 31'55	9°03'42	superior conj	8174 Sep 14 22:58	29° m 13'53	1°01'29
min. Earth dist.	8172 Apr 20 02:42	3° 8 33'34	0.27077 AU	minimum elong	8174 Sep 14 13:30	28° Mp 44'40	1°01'08
morning rise	8172 Apr 22 20:24	1° 8 52'56			8174 Sep 15 13:56	0∘ 亚	
t' .	8172 Apr 26 02:39	30°RΥ		max. Earth dist.	8174 Sep 15 19:45	0° ≏ 17'57	1.73197 AU
direct	8172 May 10 23:06	25° Y 39'24	4.0		8174 Oct 09 21:59	0°M	
greatest brilliancy	8172 May 20 10:28 8172 May 26 12:28	27° Y 21'12 0° ႘	-4.9111	evening rise	8174 Oct 21 08:26 8174 Nov 03 07:16	14°M.04'38 0°⊀	
desc. node	8172 Jun 21 15:11	19° 8 47'49			8174 Nov 03 07.16 8174 Nov 27 18:30	0 x. 0°ਤ	
morning max el	8172 Jun 30 03:52	28° 8 01'05	46°40'23	desc. node	8174 Dec 07 08:35	11°る43'29	
morning max or	8172 Jul 02 03:22	0°II	10 10 23	dese. Hode	8174 Dec 22 08:01	0° ≈	
	8172 Jul 30 03:47	0°ಅ			8175 Jan 15 23:55	0° ∀	
	8172 Aug 25 10:17	$0^{\circ}\Omega$			8175 Feb 09 19:31	0° Υ	
	8172 Sep 19 23:25	0° m			8175 Mar 06 23:51	0°8	
asc. node	8172 Oct 12 13:35	26° Mp 58'21		asc. node	8175 Mar 30 08:00	26° 8 54'41	
	8172 Oct 15 02:01	0∘ ⊽			8175 Apr 02 02:14	Π °0	
	8172 Nov 08 20:27	0°M₁		evening max el	8175 Apr 23 03:44	22° II 29'20	46°57'42
	8172 Dec 03 08:26	0° ∡ ¹			8175 Apr 30 19:34	0 \circ	
morning set	8172 Dec 26 12:52	28° ∡ ³36'46		greatest brilliancy	8175 Jun 02 08:14	23° © 23'31	-4.9m
	8172 Dec 27 15:46	0°る		retrograde	8175 Jun 12 16:33	25° © 24'46	
To all III	8173 Jan 20 19:53	0°≈	1.72040.411	evening set	8175 Jun 28 06:08	20°540'03	4001140
max. Earth dist.	8173 Jan 30 19:28	12°≈25'50	1.72048 AU	inferior conj	8175 Jul 03 15:44	17°526'09	4°01'42
desc. node	8173 Feb 01 06:30	14° ≈ 14'59		minimum elong min. Earth dist.	8175 Jul 04 00:10 8175 Jul 03 13:10	17° © 13'08 17° © 30'07	3°59'08 0.27511 AU
superior conj	8173 Feb 02 23:10	16° ≈ 21'43	-0°04'09	morning rise	8175 Jul 09 18:31	17 \$3007 13°\$49'01	0.27311 AU
minimum elong	8173 Feb 02 22:11	16°≈18'40		desc. node	8175 Jul 20 02:47	9° 9 56'55	
behind sun begin	8173 Feb 01 22:02	15°≈03'25	0 03 09	direct	8175 Jul 24 11:52	9° 5 33'46	
behind sun end	8173 Feb 03 22:20	17° ≈ 33'56		greatest brilliancy	8175 Aug 03 09:31	11° 5 21'32	-4.8m
	8173 Feb 13 21:28	0° ∀		,	8175 Aug 31 18:31	$0^{\circ}\Omega$	
	8173 Mar 09 20:55	$0^{\circ}\mathbf{\Upsilon}$		morning max el	8175 Sep 11 15:48	10° Ω 00′16	45°55'20
evening rise	8173 Mar 14 16:53	6° Ƴ 03'16			8175 Oct 01 07:44	0° m	
	8173 Apr 02 19:10	9° 8			8175 Oct 28 12:34	0∘ ⊽	
	8173 Apr 26 18:15	$\Pi^{\circ}0$		asc. node	8175 Nov 10 01:57	14° ≏ 25'23	
	8173 May 20 20:56	0ංම			8175 Nov 23 09:18	0° M ₊	
asc. node	8173 May 25 05:16	5° © 22'43			8175 Dec 18 11:37	0° ∡ 7	
	8173 Jun 14 06:23	Ω°			8176 Jan 12 02:21	% ප	
	8173 Jul 09 02:51	0° m)		4 1	8176 Feb 05 09:40	0° ≈	
	8173 Aug 03 17:59	0° II L 0° ⊙		desc. node	8176 Feb 29 18:34	0° ∺ 20'19 0° ∺	
desc. node	8173 Aug 30 22:32 8173 Sep 13 23:46	0°แน 14° M L13'47		morning set	8176 Feb 29 12:04 8176 Mar 09 06:06	10° € 56'23	
evening max el	8173 Sep 13 23.46 8173 Sep 14 18:24	14 IIL1347 14°ML58'47	45°42'05	morning set	8176 Mar 24 11:01	10 χ3623 0° Υ	
Svening max ci	5175 Sep 17 10.24	17 IIUJ04/	TJ TZ UJ		51/0 WIGH 27 11.01	V 1	

	8176 Apr 17 07:55	0° ႘		minimum elong	8178 Sep 12 11:50	27° m 32'48	5°58'25
	r			morning rise	8178 Sep 17 15:31	24° m) 23'48	
superior conj	8176 Apr 19 02:39	2° 8 14'23	-1°25'59	direct	8178 Oct 04 08:04	19° m 07'59	
minimum elong	8176 Apr 18 21:53	1° 8 59'25	1°26'02	greatest brilliancy	8178 Oct 14 02:03	20° m 51'28	-4.7m
max. Earth dist.	8176 Apr 19 01:03	2° 8 09'21	1.71213 AU		8178 Oct 30 19:50	0∘ ⊽	
	8176 May 11 04:33	\mathfrak{I} 0°		morning max el	8178 Nov 22 02:26	19° ≙ 00'58	45°43'13
evening rise	8176 May 29 16:56	23° Ⅲ 13′22			8178 Dec 03 02:40	0° M	
	8176 Jun 04 02:59	0 \circ \odot		asc. node	8178 Dec 07 13:49	4°M39'12	
asc. node	8176 Jun 21 17:05	21° © 55'45			8178 Dec 30 15:24	0°⊀	
	8176 Jun 28 05:03	0 $^{\circ}\Omega$			8179 Jan 25 09:20	0°రె	
	8176 Jul 22 12:18	0° m p			8179 Feb 19 06:51	0° ≈	
	8176 Aug 16 02:33	0∘ ⊽			8179 Mar 15 17:09	0°) €	
	8176 Sep 10 03:06	0° M .		desc. node	8179 Mar 29 06:53	16°) 49'44	
	8176 Oct 05 20:12	0° ∡			8179 Apr 08 20:44	0 ° Υ	
desc. node	8176 Oct 11 11:14	6° ∡ ¹24'42			8179 May 02 20:27	0°8	
	8176 Nov 01 18:35	0° ろ		morning set	8179 May 25 12:47	28° 8 26'09	
evening max el	8176 Nov 25 09:30	24° る 12'30	45°56'43		8179 May 26 18:44	0°Щ	
	8176 Dec 01 13:50	0° ≈			8179 Jun 19 17:50	0 \circ \odot	
greatest brilliancy	8177 Jan 03 19:22	22°≈49'37	-4.8m		0170 1 1 04 00 42	170640140	0020102
retrograde	8177 Jan 13 12:04	24°≈33'07		superior conj	8179 Jul 04 00:43	17°549'49	
evening set	8177 Jan 28 00:15	20°≈25'17		minimum elong	8179 Jul 04 09:11	18°5516'14	
asc. node	8177 Feb 01 11:10	17°≈50'56	0020100	max. Earth dist.	8179 Jul 07 13:11	0° Ω	1.72100 AU
inferior conj	8177 Feb 03 07:16	16°≈43'22 16°≈45'02	0°28'08 0°27'53	aga mada	8179 Jul 13 19:15 8179 Jul 20 04:56	0°81 7° Ω 57'42	
minimum elong min. Earth dist.	8177 Feb 03 06:11 8177 Feb 03 16:58	16 ≈43 02 16°≈28'27	0.27356 AU	asc. node	8179 Aug 06 23:34	0°Mp	
morning rise	8177 Feb 03 10:38 8177 Feb 09 11:36	10 ≈2827 13°≈04'15	0.27330 AU	evening rise	8179 Aug 11 14:50	5° Mp 44'04	
direct	8177 Feb 09 11:30 8177 Feb 24 05:23	8°≈46′28		evening rise	8179 Aug 31 07:05	0° ⊽	
greatest brilliancy	8177 Mar 06 19:52		-4.9m		8179 Sep 24 18:34	0° ™	
greatest orimancy	8177 Apr 03 13:23	0° \	-4 .7III		8179 Oct 19 11:38	0° ⊼	
morning max el	8177 Apr 15 19:06	11°) (45'34	46°57'38	desc. node	8179 Nov 08 22:51	24° х 33'42	
morning max or	8177 May 03 00:57	0°Υ	10 37 30	dese. Hode	8179 Nov 13 12:24	0°る	
desc. node	8177 May 24 05:24	23°Υ58'34			8179 Dec 08 23:33	0° ≈	
	8177 May 29 09:36	0°8			8180 Jan 04 02:54	0°) €	
	8177 Jun 23 16:38	$\Pi^{\circ}0$			8180 Jan 31 17:52	0° Y	
	8177 Jul 18 13:11	0ංම		evening max el	8180 Feb 06 22:20	6° Y 16'55	46°42'53
	8177 Aug 12 05:31	$0^{\circ}\Omega$		asc. node	8180 Feb 29 22:40	26° Y 51'31	
	8177 Sep 05 19:46	0° m p			8180 Mar 05 07:24	9° 8	
asc. node	8177 Sep 14 03:20	10° m 09'57		greatest brilliancy	8180 Mar 18 09:56	6° 8 58'37	-4.9m
	8177 Sep 30 07:57	0∘ ত		retrograde	8180 Mar 28 04:44	8° 8 47'05	
morning set	8177 Oct 16 12:06	19° ≙ 51'46		evening set	8180 Apr 14 20:30	2° 8 49'08	
	8177 Oct 24 17:50	0° M ₊		inferior conj	8180 Apr 17 20:27	0° 8 59'15	8°59'22
	8177 Nov 18 01:45	0° ∡ ¹		minimum elong	8180 Apr 17 15:36	1° 8 06'45	8°58'56
max. Earth dist.	8177 Nov 20 20:40	3° ⊀ 26'31	1.73137 AU	min. Earth dist.	8180 Apr 17 15:38	1° 8 06'42	0.27068 AU
		_			8180 Apr 19 10:57	30° ₹ Υ	
superior conj	8177 Nov 22 00:22		1°20'16	morning rise	8180 Apr 20 10:44	29° Y 23′53	
minimum elong	8177 Nov 22 06:47	5° ∡ 11'50	1°20'18	direct	8180 May 08 11:13	23° Y 12'34	
	8177 Dec 12 08:30	0°る		greatest brilliancy	8180 May 18 00:04	24° Y 55'16	-4.9m
evening rise	8177 Dec 29 13:10	21°る15'45			8180 May 28 08:17	0° 8	
desc. node	8178 Jan 03 20:25	27° る 49'25		desc. node	8180 Jun 20 17:06	18° 8 48'51	40041150
	8178 Jan 05 14:37	0° ≈		morning max el	8180 Jun 27 16:12	25° ႘ 34'23	46°41'56
	8178 Jan 29 20:02 8178 Feb 23 00:47	0° ∀ 0° Υ			8180 Jul 02 01:26 8180 Jul 29 19:53	0°© ∏	
	8178 Mar 19 06:13	0° 8			8180 Aug 24 23:58	0°Ω	
	8178 Apr 12 15:43	0°II			8180 Sep 19 11:48	0° mp	
asc. node	8178 Apr 26 19:36	17° Ⅱ 12'23		asc. node	8180 Oct 11 15:41	26° Mp 29'32	
asc. node	8178 May 07 11:18	0°9		asc. node	8180 Oct 14 13:38	0° ي	
	8178 Jun 02 03:31	0°Ω			8180 Nov 08 07:38	0° m .	
	8178 Jun 29 18:22	0° m)			8180 Dec 02 19:24	0° ⊼	
evening max el	8178 Jul 03 18:36	4° m)01'56	46°18'02	morning set	8180 Dec 24 05:00	26° ₹ 24'21	
	8178 Aug 04 11:09	0∘ ಹ		5 ·	8180 Dec 27 02:41	0°ප	
greatest brilliancy	8178 Aug 11 07:54	3° £ 17'46	-4.8m		8181 Jan 20 06:50	0° ≈	
desc. node	8178 Aug 16 14:19	4° £ 54'00		max. Earth dist.	8181 Jan 28 09:52	10° ≈ 07'03	1.72095 AU
retrograde	8178 Aug 22 11:27	5° ≏ 33'18		desc. node	8181 Jan 31 08:25	13° ≈ 46'47	
evening set	8178 Sep 07 08:38	0° ჲ 39'44					
	8178 Sep 08 12:00	30°R, Mp		superior conj	8181 Jan 31 12:41	14° ≈ 00'07	-0°00'26
min. Earth dist.	8178 Sep 12 04:59	27° m 43'31	0.28758 AU	minimum elong	8181 Jan 31 12:36	13° ≈ 59'51	0°00'18
inferior conj	8178 Sep 12 21:49	27° m 17'09	-6°00'34	behind sun begin	8181 Jan 30 12:02	12° ≈ 43'17	

behind sun end	8181 Feb 01 13:10	15°≈16'26		greatest brilliancy	8183 Jul 31 22:44	9° © 00'55	-4.8m
	8181 Feb 13 08:28	0°) €		<i>g</i>	8183 Aug 31 22:58	$0^{\circ}\Omega$	
	8181 Mar 09 08:00	$0^{\circ}\mathbf{\Upsilon}$		morning max el	8183 Sep 09 07:29	7° Ω 46'51	45°56'34
evening rise	8181 Mar 12 04:55	3° Y 35'52			8183 Oct 01 01:06	0° ™	
	8181 Apr 02 06:23	9° 8			8183 Oct 28 02:36	0∘ ⊽	
	8181 Apr 26 05:40	$\Pi^{\circ}0$		asc. node	8183 Nov 09 03:49	13° ≏ 52'34	
	8181 May 20 08:37	0 \circ \odot			8183 Nov 22 21:49	0° M	
asc. node	8181 May 24 07:13	4°952'29			8183 Dec 17 23:21	0° ∡ 7	
	8181 Jun 13 18:30	0° N			8184 Jan 11 13:39	0°ರ	
	8181 Jul 08 15:43	0° Mp			8184 Feb 04 20:45	0°≈ 200 5212.4	
	8181 Aug 03 08:24 8181 Aug 30 16:42	0° ™ 0° 亚		desc. node	8184 Feb 28 20:38 8184 Feb 28 23:04	29° ≈ 52'24 0° 米	
evening max el	8181 Sep 12 08:53	12°M44'29	45°42'44	morning set	8184 Mar 06 17:39	8° ¥ 27'59	
desc. node	8181 Sep 13 01:52	13°M25'18	73 72 77	morning set	8184 Mar 23 22:02	0° Υ	
dese. node	8181 Oct 02 03:57	0° ₹			010111111 25 22.02	V 1	
greatest brilliancy	8181 Oct 21 09:56	11° ₹ 01'11	-4.7m	superior conj	8184 Apr 16 13:31	29° Y '42'57	-1°25'07
retrograde	8181 Oct 31 05:05	12° ∡ ¹45'59		minimum elong	8184 Apr 16 07:45	29° Y ′24'49	1°25'07
evening set	8181 Nov 18 03:31	6° ≯ 45′03		max. Earth dist.	8184 Apr 16 09:46	29° Y 31'11	1.71216 AU
inferior conj	8181 Nov 21 16:10	4° ҂ ³34'21	-8°07'21		8184 Apr 16 18:56	0° 8	
minimum elong	8181 Nov 21 22:46	4° х 23′59	8°06'32		8184 May 10 15:34	Π °0	
min. Earth dist.	8181 Nov 22 06:11	4° ҂ 12′22	0.28937 AU	evening rise	8184 May 27 03:59	20° Ⅱ 43'13	
morning rise	8181 Nov 25 17:48	2° ≯ 03'31			8184 Jun 03 14:01	0ം ತಾ	
	8181 Nov 29 09:49	30°RM₁		asc. node	8184 Jun 20 18:57	21°527'03	
direct	8181 Dec 13 03:13	26°M16'26	4.0		8184 Jun 27 16:11	0° N	
greatest brilliancy	8181 Dec 24 03:49	28°M29'11	-4.8m		8184 Jul 21 23:38	0° m)	
asc. node	8181 Dec 27 15:53 8182 Jan 04 01:27	0° ₰ 4° ₰ 12'28			8184 Aug 15 14:16	0° ೯	
morning max el	8182 Jan 31 22:11	4 x ·12 28 27° x ⁷ 53'48	46°18'24		8184 Sep 09 15:33 8184 Oct 05 10:03	0 11℃ 0° √ 7	
morning max cr	8182 Feb 03 00:36	0°る	40 1024	desc. node	8184 Oct 10 13:15	5° ∡ 749'56	
	8182 Mar 02 19:05	0° ≈		dese. Hode	8184 Nov 01 11:31	0°ਰ	
	8182 Mar 28 12:43	0°) €		evening max el	8184 Nov 23 00:51	21° る 58'48	45°55'29
	8182 Apr 22 09:32	$0^{\circ}\Upsilon$		8	8184 Dec 01 16:43	0° ≈	
desc. node	8182 Apr 25 19:15	4° Υ 09'20		greatest brilliancy	8185 Jan 01 09:15	20° ≈ 30'29	-4.8m
	8182 May 16 19:59	8° 0		retrograde	8185 Jan 11 01:30	22° ≈ 13′10	
	8182 Jun 10 01:39	$\Pi^{\circ}0$		evening set	8185 Jan 25 14:50	18° ≈ 04'34	
	8182 Jul 04 06:04	0 \circ \odot		inferior conj	8185 Jan 31 21:07	14° ≈ 23′07	0°05'05
	8182 Jul 28 11:12	$0^{\circ}\Omega$		minimum elong	8185 Jan 31 20:55	14° ≈ 23′26	0°05'08
morning set	8182 Aug 06 00:37	10° Ω 35'21		transit middle	8185 Jan 31 20:55	14° ≈ 23′26	0°05'08
asc. node	8182 Aug 16 17:04	23° Ω 47'58		transit begin	8185 Jan 31 17:04	14° ≈ 29'24	
	8182 Aug 21 17:31	0° m		transit end	8185 Feb 01 00:47	14°≈17'28	
	0102 G 12 16 02	250 m 05102	0050100	asc. node	8185 Jan 31 13:08	14°≈35'26	0.07205 444
superior conj	8182 Sep 12 16:02	27° m 05'03	0°59'08	min. Earth dist.	8185 Feb 01 07:38	14°≈06'54	0.27395 AU
minimum elong max. Earth dist.	8182 Sep 12 06:33 8182 Sep 13 14:41	26° Mp 35'46 28° Mp 14'53	0°58'46 1.73177 AU	morning rise direct	8185 Feb 07 02:30 8185 Feb 21 20:04	10°≈42'14 6°≈25'48	
max. Earm dist.	8182 Sep 15 14.41 8182 Sep 15 00:45	ე∘ ი	1.73177 AU	greatest brilliancy	8185 Mar 04 10:50	8°≈33'15	-4.9m
	8182 Oct 09 08:49	0° ™		greatest offinaley	8185 Apr 03 17:18	0° ∺	4.7111
evening rise	8182 Oct 19 02:08	11°M58'06		morning max el	8185 Apr 13 09:00	9° ¥ 23'14	46°56'52
<i>y</i>	8182 Nov 02 18:12	0° ∡ 7			8185 May 02 18:34	0°Υ	
	8182 Nov 27 05:39	8°0		desc. node	8185 May 23 07:18	23° Y ′20'47	
desc. node	8182 Dec 06 10:32	11° る 14'54			8185 May 29 00:05	9° 8	
	8182 Dec 21 19:33	0° ≈			8185 Jun 23 05:37	Π $^{\circ}0$	
	8183 Jan 15 12:02	0° ∀			8185 Jul 18 01:17	0	
	8183 Feb 09 08:32	0° Υ			8185 Aug 11 17:02	0 \circ Ω	
	8183 Mar 06 14:19	0°8			8185 Sep 05 06:52	0° m	
asc. node	8183 Mar 29 10:04	26° 8 12'59		asc. node	8185 Sep 13 05:23	9° m/42'39	
	8183 Apr 01 19:41	0°II	46050102		8185 Sep 29 18:47	0° 亞	
evening max el	8183 Apr 20 18:17	20°∏08'06	46°58'23	morning set	8185 Oct 14 05:14	17° ≏ 43'58	
greatest brilliancy	8183 Apr 30 22:25 8183 May 30 22:46	0°ତ 21° ତ 02'04	-4 9m		8185 Oct 24 04:31 8185 Nov 17 12:24	0° M 0° ∡ 7	
retrograde	8183 Jun 10 07:20	21 \$02 04 23°\$03'28	7.7111	max. Earth dist.	8185 Nov 18 13:32		1.73156 AU
evening set	8183 Jun 25 22:47	23 3 03 28		max. Larui Uist.	5105 110V 10 13.32	1 ^ 1/32	1.75130 AU
inferior conj	8183 Jul 01 05:33	15°905'07	4°22'20	superior conj	8185 Nov 19 17:33	2° ∡ ¹44'02	1°21'24
minimum elong	8183 Jul 01 14:33	14°951'15	4°19'39	minimum elong	8185 Nov 19 23:23	3° х 101′59	1°21'27
min. Earth dist.	8183 Jul 01 03:19	15° © 08'34	0.27486 AU		8185 Dec 11 19:14	0° る	•
morning rise	8183 Jul 07 06:41	11°930'41		evening rise	8185 Dec 27 04:34	19° る 01'29	
desc. node	8183 Jul 19 04:43	7° 5 23'02		desc. node	8186 Jan 02 22:23	27° る 21'56	
direct	8183 Jul 22 01:43	7°513'02			8186 Jan 05 01:29	0° ≈	

	8186 Jan 29 07:05	0°){			8188 Jul 01 22:07	0° Ⅱ	
		0° Υ					
	8186 Feb 22 12:05				8188 Jul 29 11:15	0°©	
	8186 Mar 18 17:53	8°0			8188 Aug 24 13:09	$\Omega^{\circ}\Omega$	
_	8186 Apr 12 04:00	0°II			8188 Sep 18 23:48	0° m)	
asc. node	8186 Apr 25 21:30	16° Ⅱ 39'30		asc. node	8188 Oct 10 17:34	26° Mp 01'01	
	8186 May 07 00:37	0°€			8188 Oct 14 00:56	0ಂ ರ	
	8186 Jun 01 18:54	0 ° Ω			8188 Nov 07 18:31	0°M₊	
	8186 Jun 29 15:13	0° m			8188 Dec 02 06:04	0° ∡ ¹	
evening max el	8186 Jul 01 09:52	1°Mp46'32	46°19'35	morning set	8188 Dec 21 21:01	24° ҂ 12'37	
	8186 Aug 06 09:48	0∘ ⊽			8188 Dec 26 13:16	0°ප	
greatest brilliancy	8186 Aug 09 00:27	1° ≏ 06'28	-4.8m		8189 Jan 19 17:26	0° ≈	
desc. node	8186 Aug 15 16:26	2° £ 58'43		max. Earth dist.	8189 Jan 26 02:14	7° ≈ 55'29	1.72141 AU
retrograde	8186 Aug 20 03:01	3° ₽ 21'22					
	8186 Sep 02 03:59	30°R, Mp		superior conj	8189 Jan 29 02:07	11° ≈ 39'19	0°03'18
evening set	8186 Sep 04 21:59	28° Mp 32'01		minimum elong	8189 Jan 29 02:56	11° ≈ 41'51	0°03'23
min. Earth dist.	8186 Sep 09 20:49	25° m 32'19	0.28714 AU	behind sun begin	8189 Jan 28 02:43	10° ≈ 26′27	
inferior conj	8186 Sep 10 13:39	25° m 05'56	-5°45'42	behind sun end	8189 Jan 30 03:08	12° ≈ 57'16	
minimum elong	8186 Sep 10 03:44	25° m 21'28	5°43'30	desc. node	8189 Jan 30 10:28	13° ≈ 20'07	
morning rise	8186 Sep 15 09:57	22° m 08'36			8189 Feb 12 19:08	0° ∀	
direct	8186 Oct 01 23:20	16° m 57'34			8189 Mar 08 18:45	$_0$ ° $\boldsymbol{\gamma}$	
greatest brilliancy	8186 Oct 11 17:11	18° Mp 40'31	-4 7m	evening rise	8189 Mar 09 17:07	1° Υ 10'02	
8	8186 Oct 31 10:14	0∘ ⊽	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		8189 Apr 01 17:16	0°8	
morning max el	8186 Nov 19 16:20	0 — 16° Ω 45'48	45°42'42		8189 Apr 25 16:41	0°II	
morning max ci	8186 Dec 02 21:01	0°M	73 72 72		8189 May 19 19:51	0°©	
asc. node	8186 Dec 06 15:46	3°M58'13		asc. node	8189 May 23 09:09	4°923'32	
asc. Houe				asc. node	•		
	8186 Dec 30 05:40	0° ∡			8189 Jun 13 06:09	0° N	
	8187 Jan 24 21:59	5°0			8189 Jul 08 04:09	0° Mp	
	8187 Feb 18 18:42	0° ≈			8189 Aug 02 22:29	0∘ 亚	
	8187 Mar 15 04:32	0° ∀			8189 Aug 30 10:53	0°M	
desc. node	8187 Mar 28 08:56	16° ∺ 21′21		evening max el	8189 Sep 10 00:13	10°M33'17	45°43'14
	8187 Apr 08 07:49	0° Υ		desc. node	8189 Sep 12 03:52	12°M36'47	
	8187 May 02 07:20	0°8			8189 Oct 02 18:25	0° ∡	
morning set	8187 May 23 00:46	25° 8 59'28		greatest brilliancy	8189 Oct 18 23:43	8° ∡ 749'49	-4.7m
	8187 May 26 05:31	Π $^{\circ}0$		retrograde	8189 Oct 28 21:14	10° ≯ 36'36	
	8187 Jun 19 04:32	0		evening set	8189 Nov 15 21:09	4° ҂ ³32'12	
				inferior conj	8189 Nov 19 08:08	2° ҂ 24′02	
superior conj	8187 Jul 01 14:16	15° © 29'15	-0°41'20	minimum elong	8189 Nov 19 14:08	2° ҂ 14'37	8°12'57
minimum elong	8187 Jul 01 23:19	15° © 57'29	0°41'05	min. Earth dist.	8189 Nov 19 20:54	2° ҂ ¹04'02	0.28976 AU
max. Earth dist.	8187 Jul 05 02:25	19° © 51'28	1.72055 AU	morning rise	8189 Nov 23 06:57	29°M57'38	
	8187 Jul 13 05:55	$0^{\circ}\Omega$			8189 Nov 23 05:22	30°RM₊	
asc. node	8187 Jul 19 06:59	7° Ω 30′56		direct	8189 Dec 10 19:45	24°M05'47	
	8187 Aug 06 10:14	0° m y		greatest brilliancy	8189 Dec 21 19:20	26°M18'02	-4.8m
evening rise	8187 Aug 09 06:38	3°m/31'31			8189 Dec 29 10:34	0° ∡ ¹	
•	8187 Aug 30 17:49	0∘ ⊽		asc. node	8190 Jan 03 03:30	2° ҂ 757'31	
	8187 Sep 24 05:31	0°M		morning max el	8190 Jan 29 14:26	25° ∡ ¹41'37	46°16'44
	8187 Oct 18 23:00	0° ∡ ¹		•	8190 Feb 02 21:01	0°ठ	
desc. node	8187 Nov 08 00:46	24° х 03′53			8190 Mar 02 10:13	0° ≈	
	8187 Nov 13 00:29	0°る			8190 Mar 28 01:52	0°) €	
	8187 Dec 08 12:51	0° ≈			8190 Apr 21 21:42	0° Υ	
	8188 Jan 03 18:28	0°) €		desc. node	8190 Apr 24 21:04	3° Υ 38'00	
	8188 Jan 31 14:53	0°Υ		dese. node	8190 May 16 07:33	0°8	
evening max el	8188 Feb 04 10:51	3° Υ 51'39	46°41'30		8190 Jun 09 12:48	0°II	
asc. node	8188 Feb 29 00:47	25° Υ 35'34	40 41 50		8190 Jul 03 16:54	0 . ಹ	
asc. node	8188 Mar 06 14:42	0° 8			8190 Jul 27 21:47	$0 {\circ} \Omega$	
greatest brilliancy	8188 Mar 15 23:11	4° 8 33'31	-4.9m	morning set	8190 Aug 03 16:29	8° Ω 23'24	
retrograde	8188 Mar 25 17:19	6° 8 21'56	-4.9111	asc. node	8190 Aug 15 19:05	23°Ω21'53	
•				asc. node	=		
evening set	8188 Apr 12 05:37	0° ႘ 29'42 30° ℝ Υ			8190 Aug 21 03:57	0° т р	
infaria	8188 Apr 13 01:26		0052140	aumori	0100 C 10 00 17	240 m. 5010 C	0056141
inferior conj	8188 Apr 15 09:23	28° Y 34'23	8°53'40	superior conj	8190 Sep 10 09:17	24° Mp 58'06	0°56'41
minimum elong	8188 Apr 15 03:39	28° Y 43'13	8°53'06	minimum elong	8190 Sep 09 23:50	24° Mp 28'59	0°56'19
min. Earth dist.	8188 Apr 15 04:33	28° Υ 41'50	0.27058 AU	max. Earth dist.	8190 Sep 11 11:44	26° m 19'45	1.73161 AU
morning rise	8188 Apr 18 01:42	26° Y 56′05			8190 Sep 14 11:08	0∘ ⊽	
direct	8188 May 05 23:33	20° Y 47′28			8190 Oct 08 19:14	0°M	
greatest brilliancy	8188 May 15 13:40	22° Y 31'16	-4.9m	evening rise	8190 Oct 16 19:55	9°M53'03	
	8188 May 29 13:25	0°8			8190 Nov 02 04:46	0° ∡	
desc. node	8188 Jun 19 19:07	17° 8 53'06			8190 Nov 26 16:29	0° ろ	
morning max el	8188 Jun 25 05:15	23° 8 10'58	46°43'24	desc. node	8190 Dec 05 12:28	10° る 47'19	

	8190 Dec 21 06:47	0° ≈			8193 Sep 04 17:48	0° m)	
	8191 Jan 14 23:52	0° ∀		asc. node	8193 Sep 12 07:16	9° mg 15'15	
	8191 Feb 08 21:17	0° Υ		ase. Hode	8193 Sep 29 05:28	0∘ ⊽	
	8191 Mar 06 04:36	0°8		morning set	8193 Oct 11 22:45	ა — 15° ჲ 37'48	
asc. node	8191 Mar 28 11:59	25° 8 31'25		merming sec	8193 Oct 23 15:02	0°M	
use. Houe	8191 Apr 01 13:08	0° I		max. Earth dist.	8193 Nov 16 06:45	29°M10'14	1.73176 AU
evening max el	8191 Apr 18 09:27	17° Ⅱ 49'30	46°58'59	man. Bartir dist.	8193 Nov 16 22:53	0° ⊼ ⊓	1.,51,6116
v , v	8191 May 01 02:27	0°50				•	
greatest brilliancy	8191 May 28 13:29	18°9542'02	-4.9m	superior conj	8193 Nov 17 11:13	0° ∡ ³38'03	1°22'23
retrograde	8191 Jun 07 22:11	20°\$43'09		minimum elong	8193 Nov 17 16:26	0° ∡ ¹54'07	1°22'27
evening set	8191 Jun 23 15:38	15° © 50'59		Č	8193 Dec 11 05:48	ರ°0	
inferior conj	8191 Jun 28 19:25	12° © 45'15	4°42'31	evening rise	8193 Dec 24 20:20	16° පි 48'49	
minimum elong	8191 Jun 29 04:54	12° © 30'37	4°39'45	desc. node	8194 Jan 02 00:28	26° පි 55'08	
min. Earth dist.	8191 Jun 28 17:22	12° © 48'24	0.27456 AU		8194 Jan 04 12:15	0° ≈ ≈	
morning rise	8191 Jul 04 18:35	9° © 13'45			8194 Jan 28 18:06	0° ∀	
desc. node	8191 Jul 18 06:46	4°গু56'04			8194 Feb 21 23:26	0° Y	
direct	8191 Jul 19 15:52	4°£53'47			8194 Mar 18 05:39	0°8	
greatest brilliancy	8191 Jul 29 11:33	6°9541'03	-4.8m		8194 Apr 11 16:22	$\Pi^{\circ}0$	
	8191 Sep 01 01:06	$0^{\circ}\Omega$		asc. node	8194 Apr 24 23:28	16° Ⅱ 06'34	
morning max el	8191 Sep 06 22:39	5° Ω 33'34	45°57'50		8194 May 06 14:04	0ಂಣ	
•	8191 Sep 30 17:34	o° mp			8194 Jun 01 10:32	$0^{\circ}\Omega$	
	8191 Oct 27 16:02	0∘ ত		evening max el	8194 Jun 29 00:11	29° Ω 28'39	46°21'13
asc. node	8191 Nov 08 05:45	13° ≏ 21'23		· ·	8194 Jun 29 12:50	0° m	
	8191 Nov 22 09:53	0°M,		greatest brilliancy	8194 Aug 06 17:01	28° m 55'00	-4.8m
	8191 Dec 17 10:43	0° ∡ ¹			8194 Aug 09 21:57	0∘ ⊽	
	8192 Jan 11 00:39	8°0		desc. node	8194 Aug 14 18:26	0° م 59'08	
	8192 Feb 04 07:35	0° ≈		retrograde	8194 Aug 17 18:37	1° ჲ 09'39	
desc. node	8192 Feb 27 22:36	29° ≈ 24'57		C	8194 Aug 25 09:24	30°R, Mp	
	8192 Feb 28 09:49	0° ∀		evening set	8194 Sep 02 11:28	26° m/24'00	
morning set	8192 Mar 04 05:10	6° ₩ 00'23		min. Earth dist.	8194 Sep 07 12:52	23° m/20'57	0.28667 AU
C	8192 Mar 23 08:45	$0^{\circ}\mathbf{\Upsilon}$		inferior conj	8194 Sep 08 05:31	22° m 54'50	-5°30'19
max. Earth dist.	8192 Apr 13 16:33	26° Ƴ 47'52	1.71218 AU	minimum elong	8194 Sep 07 19:44	23° m/10'11	5°28'04
				morning rise	8194 Sep 13 04:24	19° m 53'42	
superior conj	8192 Apr 14 00:19	27° Ƴ 12'15	-1°24'04	direct	8194 Sep 29 14:14	14° m 47'04	
minimum elong	8192 Apr 13 17:36	26° Ƴ 51'10	1°24'03	greatest brilliancy	8194 Oct 09 08:51	16° mp 30'15	-4.7m
_	8192 Apr 16 05:39	$6^{\circ}B$			8194 Oct 31 20:48	0∘ ত	
	8192 May 10 02:18	$\Pi^{\circ}0$		morning max el	8194 Nov 17 06:28	14° ≏ 31'25	45°42'28
evening rise	8192 May 24 14:57	18° Ⅲ 13'32			8194 Dec 02 14:50	0° M	
	8192 Jun 03 00:48	0°€		asc. node	8194 Dec 05 17:49	3°M18'13	
asc. node	8192 Jun 19 21:01	20° © 59'42			8194 Dec 29 19:44	0° ∡ ¹	
	8192 Jun 27 03:04	$0^{\circ}\Omega$			8195 Jan 24 10:33	0°₹	
	8192 Jul 21 10:42	O° Mp			8195 Feb 18 06:33	0° ≈	
	8192 Aug 15 01:43	0० ⊽			8195 Mar 14 16:00	0° ∀	
	8192 Sep 09 03:43	0°M		desc. node	8195 Mar 27 10:48	15° ¥ 51'54	
	8192 Oct 04 23:39	0° ∡ 7			8195 Apr 07 19:04	0° Y	
desc. node	8192 Oct 09 15:09	5° х 15′43			8195 May 01 18:25	$0^{\circ}B$	
	8192 Nov 01 04:26	8°0		morning set	8195 May 20 12:13	23° 8 30'24	
evening max el	8192 Nov 20 15:20	19° පි 43'51	45°54'02		8195 May 25 16:28	Π \circ 0	
	8192 Dec 01 20:59	0° ≈			8195 Jun 18 15:25	0 \circ \odot	
greatest brilliancy	8192 Dec 29 23:41	18° ≈ 12'36	-4.8m				
retrograde	8193 Jan 08 14:28	19° ≈ 53'54		superior conj	8195 Jun 29 03:30	13° 5 07'04	-0°44'34
evening set	8193 Jan 23 05:37	15° ≈ 44'07		minimum elong	8195 Jun 29 13:05	13° © 37'00	0°44'19
inferior conj	8193 Jan 29 11:03	12° ≈ 03'37	-0°17'55	max. Earth dist.	8195 Jul 02 13:53	17° © 23'57	1.72006 AU
minimum elong	8193 Jan 29 11:44	12° ≈ 02'34	0°17'34		8195 Jul 12 16:44	$0^{\circ}\Omega$	
min. Earth dist.	8193 Jan 29 22:45	11° ≈ 45'32	0.27439 AU	asc. node	8195 Jul 18 08:57	7° Ω 03′28	
asc. node	8193 Jan 30 15:13	11° ≈ 20′07			8195 Aug 05 21:03	0° m y	
morning rise	8193 Feb 04 17:15	8° ≈ 21'02		evening rise	8195 Aug 06 22:18	1° m) 18'07	
direct	8193 Feb 19 10:19	4°≈05'35			8195 Aug 30 04:43	0∘ ⊽	
greatest brilliancy	8193 Mar 02 02:28	6° ≈ 13'49	-4.9m		8195 Sep 23 16:38	0° M	
	8193 Apr 03 19:30	0° ∀			8195 Oct 18 10:32	0° ∡ ′	
morning max el	8193 Apr 10 21:59	6° ¥ 58'50	46°56'10	desc. node	8195 Nov 07 02:48	23° ∡ ³34′01	
	8193 May 02 11:39	$0^{\circ}\mathbf{\Upsilon}$			8195 Nov 12 12:44	0°ප	
desc. node	8193 May 22 09:21	22° Y 44'13			8195 Dec 08 02:21	0° ≈	
	8193 May 28 14:14	0°B			8196 Jan 03 10:21	0° ∀	
	8193 Jun 22 18:21	$\Pi^{\circ}0$			8196 Jan 31 12:50	0° Υ	
	8193 Jul 17 13:10	0°€		evening max el	8196 Feb 01 23:39	1° Y ′26'57	46°39'56
	8193 Aug 11 04:22	$0^{\circ}\Omega$		asc. node	8196 Feb 28 02:37	24° Y 15′59	

	8196 Mar 08 13:38	0° ႘			8198 Jul 27 08:50	$0^{\circ}\Omega$	
greatest brilliancy	8196 Mar 13 11:31	2° 8 06'25	4.0m	morning set	8198 Aug 01 07:53	6° Ω 08'24	
retrograde	8196 Mar 23 06:08	3° 8 55'35	-4.7111	asc. node	8198 Aug 14 20:58	22° Ω 53'53	
retrograde	8196 Apr 06 07:10	30°RΥ		asc. node	8198 Aug 20 14:52	0° m)	
evening set	8196 Apr 09 14:08	28° Υ '09'12			6176 Aug 20 14.32	עווי ∨	
inferior conj	8196 Apr 12 22:07	26° Υ 07'54	8°46'45	superior conj	8198 Sep 08 01:59	22° m/48'01	0°54'08
minimum elong	8196 Apr 12 15:32	26° Υ 18'01	8°46'03	minimum elong	8198 Sep 07 16:40	22° mg +0 01	0°53'45
min. Earth dist.	8196 Apr 12 16:59	26° Υ 15'47	0.27055 AU	max. Earth dist.	8198 Sep 09 08:52	24° m) 23'21	1.73137 AU
morning rise	8196 Apr 15 16:57	24° Y 26'02	0.27000110	man. Bartin diot.	8198 Sep 13 21:59	0° 0	1.,515,110
direct	8196 May 03 12:13	18° Υ 20'38			8198 Oct 08 06:06	0° M	
greatest brilliancy	8196 May 13 02:48	20° Υ 05'13	-4.9m	evening rise	8198 Oct 14 13:22	7° M 45'33	
8	8196 May 30 11:19	0°8		0.108	8198 Nov 01 15:46	0° ∡ 7	
desc. node	8196 Jun 18 21:09	16° 8 57'11			8198 Nov 26 03:45	0°ප	
morning max el	8196 Jun 22 19:09	20° 8 48'16	46°44'52	desc. node	8198 Dec 04 14:32	10° ට 18'50	
	8196 Jul 01 18:38	0°II			8198 Dec 20 18:27	0° ≈	
	8196 Jul 29 02:48	0°9			8199 Jan 14 12:08	0° ∀	
	8196 Aug 24 02:34	$0^{\circ}\Omega$			8199 Feb 08 10:27	0° Υ	
	8196 Sep 18 12:02	0° mp			8199 Mar 05 19:19	0°8	
asc. node	8196 Oct 09 19:29	25° m 31'49		asc. node	8199 Mar 27 13:59	24° 8 48'54	
use. Hour	8196 Oct 13 12:28	0∘ ʊ		use. Iroue	8199 Apr 01 07:16	0°II	
	8196 Nov 07 05:39	0°M		evening max el	8199 Apr 16 00:22	15° Ⅱ 29'22	46°59'20
	8196 Dec 01 17:00	0° ⊼ 7			8199 May 01 08:51	0ಂಣ 	
morning set	8196 Dec 19 13:31	22° х 01'43		greatest brilliancy	8199 May 26 04:24	16°521'04	-4.9m
	8196 Dec 26 00:06	0°る		retrograde	8199 Jun 05 12:30	18°9521'12	
	8197 Jan 19 04:14	0° ≈		evening set	8199 Jun 21 08:31	13°925'27	
max. Earth dist.	8197 Jan 23 19:54	5° ≈ 47'21	1.72183 AU	inferior conj	8199 Jun 26 09:10	10°523'49	5°02'14
				minimum elong	8199 Jun 26 19:05	10°908'31	4°59'26
superior conj	8197 Jan 26 16:04	9° ≈ 19'33	0°06'56	min. Earth dist.	8199 Jun 26 07:26	10°526'30	0.27434 AU
minimum elong	8197 Jan 26 17:46	9° ≈ 24'49	0°06'58	morning rise	8199 Jul 02 06:06	6°955'19	
behind sun begin	8197 Jan 25 19:22	8°≈15'06		direct	8199 Jul 17 05:53	2°932'55	
behind sun end	8197 Jan 27 16:09	10° ≈ 34'33		desc. node	8199 Jul 17 08:44	2°932'56	
desc. node	8197 Jan 29 12:24	12°≈52'24		greatest brilliancy	8199 Jul 27 00:28	4°919'23	-4.8m
	8197 Feb 12 06:00	0°)		8	8199 Sep 01 02:36	0°N	
evening rise	8197 Mar 07 05:44	28°) 44'51		morning max el	8199 Sep 04 12:53	3° Ω 16′05	45°59'02
e vennig rise	8197 Mar 08 05:44	0°Υ		morning man er	8199 Sep 30 10:20	0° m)	
	8197 Apr 01 04:26	0°8			8199 Oct 27 05:53	0∘ ⊽	
	8197 Apr 25 04:05	0°II		asc. node	8199 Nov 07 07:52	12° ≏ 49'20	
	8197 May 19 07:32	0°©			8199 Nov 21 22:21	0°M	
asc. node	8197 May 22 11:11	3° © 53'36			8199 Dec 16 22:28	0° ∡ 7	
	8197 Jun 12 18:18	$0^{\circ}\Omega$			8200 Jan 10 12:01	0°ප	
	8197 Jul 07 17:10	0° mp			8200 Feb 03 18:45	0° ≈	
	8197 Aug 02 13:14	0∘ ⊽		desc. node	8200 Feb 27 00:29	28° ≈ 56'14	
	8197 Aug 30 06:05	0°M			8200 Feb 27 20:54	0°) €	
evening max el	8197 Sep 07 16:10	8°M22'19	45°43'56	morning set	8200 Mar 02 16:54	3°) 32′27	
desc. node	8197 Sep 11 05:45	11°M45'52			8200 Mar 23 19:47	0° Υ	
	8197 Oct 03 14:44	0° ⊼				•	
greatest brilliancy	8197 Oct 16 13:37	6° ∡ ³37'38	-4.7m	superior conj	8200 Apr 12 11:32	24° Y 42'02	-1°22'51
retrograde	8197 Oct 26 13:31	8° ≯ 26'02		minimum elong	8200 Apr 12 03:58	24° Y 18'16	
evening set	8197 Nov 13 14:39	2° ∡ 18'45		max. Earth dist.	8200 Apr 11 21:02	23° Y ′56'29	1.71219 AU
inferior conj	8197 Nov 17 00:06	0° ≯ 12'42	-8°19'17		8200 Apr 16 16:39	0°8	
minimum elong	8197 Nov 17 05:28	0° ∡ °04'17			8200 May 10 13:18	0°II	
Z .	8197 Nov 17 08:12	30°RM₀		evening rise	8200 May 23 02:14	15° Ⅱ 43'57	
min. Earth dist.	8197 Nov 17 11:21	29°M55'05	0.29007 AU	C	8200 Jun 03 11:50	0° ©	
morning rise	8197 Nov 20 20:11	27°M50'30		asc. node	8200 Jun 19 22:59	20° © 31'12	
direct	8197 Dec 08 12:30	21°M54'23			8200 Jun 27 14:14	$0^{\circ}\Omega$	
greatest brilliancy	8197 Dec 19 10:07	24°M05'08	-4.8m		8200 Jul 21 22:07	0° m)	
<u>.</u>	8197 Dec 30 16:10	0° ∡ 7			8200 Aug 15 13:34	0∘ ⊽	
asc. node	8198 Jan 02 05:29	1° х 43′46			8200 Sep 09 16:21	0° M ,	
morning max el	8198 Jan 27 06:44	23° ₹ 28'50	46°15'13		8200 Oct 05 13:52	0° ∡ ¹	
<i>3</i>	8198 Feb 02 17:05	0°る	-	desc. node	8200 Oct 09 17:12	4° ∡ 740'22	
	8198 Mar 02 01:24	0° ≈			8200 Nov 01 22:15	0°る	
	8198 Mar 27 15:10	0°) €		evening max el	8200 Nov 19 04:50	17° る 25'23	45°52'49
	8198 Apr 21 10:04	0°Υ			8200 Dec 03 03:53	0° ≈	
desc. node	8198 Apr 23 23:07	3° Υ 06'42		greatest brilliancy	8200 Dec 28 14:20	15° ≈ 53'57	-4.8m
	8198 May 15 19:25	0°8		retrograde	8201 Jan 07 03:18	17° ≈ 33'58	
	8198 Jun 09 00:19	0°II		evening set	8201 Jan 21 20:33	13°≈22'23	
	8198 Jul 03 04:10	0.© 0 H		inferior conj	8201 Jan 28 01:00	9° ≈ 43'19	-0°40'42
	00 01.10					,	-

minimum elong	8201 Jan 28 02:33	9° ≈ 40'56	0°40'05	evening rise	8203 Aug 05 14:06	29° Ω 05′16	
min. Earth dist.	8201 Jan 28 14:01	9° ≈ 23'10	0.27483 AU		8203 Aug 06 07:48	0° m ⁄	
asc. node	8201 Jan 30 17:07	8° ≈ 04'45			8203 Aug 30 15:33	0∘ ⊽	
morning rise	8201 Feb 03 07:49	5° ≈ 59'25			8203 Sep 24 03:43	0° M	
direct	8201 Feb 18 00:11	1° ≈ 44'22			8203 Oct 18 22:06	0° ∡ ¹	
greatest brilliancy	8201 Feb 28 18:32	3° ≈ 54'07	-4.9m	desc. node	8203 Nov 07 04:47	23° ∡ ¹03'56	
8	8201 Apr 04 20:39	0°) €			8203 Nov 13 01:05	0°る	
morning max el	8201 Apr 09 11:00	4°) 33'41	46°55'35		8203 Dec 08 16:01	0° ≈	
morning max er	8201 May 03 04:38	0° Υ	40 33 33		8204 Jan 04 02:36	0° ∀	
JJ.	•	22° Υ 07'11				29° ¥ 04'30	46929121
desc. node	8201 May 22 11:20			evening max el	8204 Jan 31 13:21		46°38'31
	8201 May 29 04:26	0° 8			8204 Feb 01 11:47	0°Υ 	
	8201 Jun 23 07:09	$\Pi^{\circ}0$		asc. node	8204 Feb 28 04:39	22° Y ′54'07	
	8201 Jul 18 01:10	0ංම		greatest brilliancy	8204 Mar 11 23:24	29° Y 38'56	-4.9m
	8201 Aug 11 15:51	0 \circ Ω			8204 Mar 13 00:07	9° 8	
	8201 Sep 05 04:57	0° m)		retrograde	8204 Mar 21 19:30	1° 8 29'11	
asc. node	8201 Sep 12 09:13	8° m 47'23			8204 Mar 30 07:13	30° ₹Ƴ	
	8201 Sep 29 16:22	0∘ ত		evening set	8204 Apr 07 22:29	25° Ƴ 48'55	
morning set	8201 Oct 10 15:54	13° ≏ 29'34		inferior conj	8204 Apr 11 10:46	23° Ƴ 41'21	8°38'59
S	8201 Oct 24 01:50	0°M₊		minimum elong	8204 Apr 11 03:24	23° Y ′52'40	8°38'06
max. Earth dist.	8201 Nov 14 23:59	27°ML02'03	1.73197 AU	min. Earth dist.	8204 Apr 11 05:03	23° Y ′50'08	0.27048 AU
max. Darm dist.	02011107 11 23.57	27 11002 03	1.75177 110	morning rise	8204 Apr 14 08:22	21° Y 55'34	0.27010110
aumorior coni	8201 Nov 16 04:29	200M 20100	1°23'15	direct	8204 May 02 01:15	15° Υ 54'03	
superior conj		28°M30'00			•	17° Y '38'37	4.0
minimum elong	8201 Nov 16 09:04	28°M44'10	1°23'20	greatest brilliancy	8204 May 11 15:16		-4.9m
	8201 Nov 17 09:39	0° ∡			8204 Jun 01 03:27	0° 8	
	8201 Dec 11 16:39	0°₹		desc. node	8204 Jun 18 23:05	16° 8 02'36	
evening rise	8201 Dec 23 11:46	14° る 34'27		morning max el	8204 Jun 21 09:34	18° 8 27'16	46°46'13
desc. node	8202 Jan 02 02:19	26° る 26'52			8204 Jul 02 14:21	Π $^{\circ}0$	
	8202 Jan 04 23:16	0° ≈			8204 Jul 29 17:57	0 \circ ∞	
	8202 Jan 29 05:22	0° ∀			8204 Aug 24 15:41	$0^{\circ}\Omega$	
	8202 Feb 22 10:59	0 ° $\mathbf{\Upsilon}$			8204 Sep 19 00:02	0° m y	
	8202 Mar 18 17:37	0°8		asc. node	8204 Oct 09 21:35	25° m 03'47	
	8202 Apr 12 04:59	$\Pi^{\circ}0$			8204 Oct 13 23:47	0∘ ⊽	
asc. node	8202 Apr 25 01:32	15° Ⅱ 33'24			8204 Nov 07 16:35	0° M	
	8202 May 07 03:47	0°©			8204 Dec 02 03:45	0° ∡ ¹	
	8202 Jun 02 02:30	0°N		morning set	8204 Dec 18 05:56	19° х 51'04	
evening max el	8202 Jun 27 14:13	27° Ω 09'55	46°22'58	morning sec	8204 Dec 26 10:49	0°る	
evening max er	8202 Jun 30 11:20	0° m	40 22 30		8205 Jan 19 14:58	0° ≈	
greatest brilliancy		26° Mp 42'43	-4.8m	max. Earth dist.	8205 Jan 22 11:11		1.72226 AU
2	8202 Aug 05 09:01 8202 Aug 14 20:18		-4.0111	max. Earth dist.	6203 Jan 22 11.11	3 ~ 3207	1.72220 AU
desc. node	Č	28° Mp 54'58			0205 1 25 05 47	(050)20	0010124
retrograde	8202 Aug 16 10:31	28° m 57'57		superior conj	8205 Jan 25 05:47	6°≈59'20	
evening set	8202 Sep 01 01:03	24° m) 15'24		minimum elong	8205 Jan 25 08:21	7° ≈ 07'17	0°10'35
min. Earth dist.	8202 Sep 06 04:45	21°Mp09'31		behind sun begin	8205 Jan 24 13:39	6° ≈ 09'06	
inferior conj	8202 Sep 06 21:23	20° m/43'30		behind sun end	8205 Jan 26 03:02	8° ≈ 05'29	
minimum elong	8202 Sep 06 11:46	20° m 58'32	5°12'09	desc. node	8205 Jan 29 14:21	12° ≈ 24'51	
morning rise	8202 Sep 11 22:52	17° m 38'48			8205 Feb 12 16:48	0° ℋ	
direct	8202 Sep 28 05:10	12°M/36'10		evening rise	8205 Mar 05 17:57	26°) 18′43	
greatest brilliancy	8202 Oct 08 00:40	14° m) 19'57	-4.7m		8205 Mar 08 16:39	0° Y	
	8202 Nov 02 04:41	0∘ ऌ			8205 Apr 01 15:29	0° ႘	
morning max el	8202 Nov 15 21:22	12° ≏ 18′25	45°42'07		8205 Apr 25 15:18	Π $^{\circ}0$	
•	8202 Dec 03 08:26	0°M			8205 May 19 19:03	0°ಅ	
asc. node	8202 Dec 05 19:46	2°M37'53		asc. node	8205 May 22 13:08	3°523'57	
	8202 Dec 30 09:50	0° ∡ ¹			8205 Jun 13 06:17	0°N	
	8203 Jan 24 23:12	0°ਤ			8205 Jul 08 06:01	0° m)	
		0° ≈				0° م	
	8203 Feb 18 18:28				8205 Aug 03 03:54		
	8203 Mar 15 03:31	0° ∀			8205 Aug 31 01:29	0°M	45044140
desc. node	8203 Mar 27 12:49	15° ¥ 22'50		evening max el	8205 Sep 06 08:28	6°M13'05	45~44'40
	8203 Apr 08 06:19	0° Υ		desc. node	8205 Sep 11 07:53	10° M 55'37	
	8203 May 02 05:30	0°8			8205 Oct 05 17:51	0° ∡	
morning set	8203 May 18 23:34	21° 8 00'55		greatest brilliancy	8205 Oct 15 04:11	4° ∡ °27'31	-4.7m
	8203 May 26 03:26	$\Pi^{\circ}0$		retrograde	8205 Oct 25 05:39	6° ∡ 16'47	
		0ංම		evening set	8205 Nov 12 08:04	0° ∡ °07'21	
	8203 Jun 19 02:18				0205 N 12 12 55	200-M	
	8203 Jun 19 02:18				8205 Nov 12 12:55	30°RM₊	
superior conj	8203 Jun 19 02:18 8203 Jun 27 16:45	10° © 44'54	-0°47'45	inferior conj	8205 Nov 12 12:55 8205 Nov 15 16:15	30°RIIL 28°Ml02'56	-8°24'11
superior conj minimum elong	8203 Jun 27 16:45	10° © 44'54 11° © 16'22		inferior conj minimum elong		28°M02'56	
	8203 Jun 27 16:45 8203 Jun 28 02:50	11° © 16'22		·	8205 Nov 15 16:15 8205 Nov 15 20:56	28°M02'56 27°M55'35	8°23'43
minimum elong	8203 Jun 27 16:45 8203 Jun 28 02:50 8203 Jul 01 00:37	11°©16'22 14°©54'04	0°47'29	minimum elong min. Earth dist.	8205 Nov 15 16:15 8205 Nov 15 20:56 8205 Nov 16 02:00	28° M02'56 27° M55'35 27° M47'38	8°23'43
minimum elong	8203 Jun 27 16:45 8203 Jun 28 02:50	11° © 16'22	0°47'29	minimum elong	8205 Nov 15 16:15 8205 Nov 15 20:56	28°M02'56 27°M55'35	8°23'43

greatest brilliancy	8205 Dec 18 00:41	21°M53'16	-4.8m		8208 Jul 21 09:14	0° m	
	8206 Jan 01 12:56	0°⊀			8208 Aug 15 01:05	0ಂ ರಾ	
asc. node	8206 Jan 02 07:25	0° ≯ 33′08			8208 Sep 09 04:41	0°M	
morning max el	8206 Jan 25 22:23		46°13'23		8208 Oct 05 03:48	0° ∡ ¹	
	8206 Feb 03 12:17	0°⋜		desc. node	8208 Oct 08 19:12	4° ₹ 05'49	
	8206 Mar 02 16:12	0° ≈		. ,	8208 Nov 01 15:58	0°る	45051145
	8206 Mar 28 04:14	0° ℋ 0° Ƴ		evening max el	8208 Nov 16 18:11	15° る 08'09	45°51'45
JJ.	8206 Apr 21 22:14	0°Υ 2° Υ 35'51			8208 Dec 03 12:33	0°≈	4 0
desc. node	8206 Apr 24 01:09	2° 1 3551		greatest brilliancy	8208 Dec 26 04:54	13°≈37'17	-4.8m
	8206 May 16 07:01 8206 Jun 09 11:32	0°U		retrograde evening set	8209 Jan 04 16:43 8209 Jan 19 11:53	15°≈16'41 11°≈02'41	
	8206 Jul 03 15:05	0°e		inferior conj	8209 Jan 25 15:12	7°≈25'24	1003'10
	8206 Jul 27 19:33	0°Ω		minimum elong	8209 Jan 25 17:36		1°02'17
morning set	8206 Jul 30 23:17	3° Ω 54'27		min. Earth dist.	8209 Jan 26 05:27	7°≈03'21	0.27532 AU
asc. node	8206 Aug 14 22:57	22° Ω 27'10		asc. node	8209 Jan 29 19:06	4°≈53'26	0.27332 AO
use. Houe	8206 Aug 21 01:27	0° m		morning rise	8209 Jan 31 22:30	3°≈40'41	
	0200 Hug 21 01.27	Ų ių		morning rise	8209 Feb 10 06:34	30°R₹	
superior conj	8206 Sep 06 18:49	20° m 39'21	0°51'31	direct	8209 Feb 15 14:15	29° පි 25'21	
minimum elong	8206 Sep 06 09:40	20° m 11'07	0°51'06		8209 Feb 21 01:15	0°≈	
max. Earth dist.	8206 Sep 08 05:26	22° m/26'12	1.73110 AU	greatest brilliancy	8209 Feb 26 10:53	1°≈36'59	-4.9m
	8206 Sep 14 08:30	0∘ ಹ	,	8	8209 Apr 04 20:02	0° ∀	
	8206 Oct 08 16:38	0°M		morning max el	8209 Apr 07 00:59	2°) 12′26	46°54'46
evening rise	8206 Oct 13 07:03	5°M39'49		C	8209 May 02 20:54	$0^{\circ}\Upsilon$	
C	8206 Nov 02 02:24	0° ∡ ¹		desc. node	8209 May 21 13:12	21° Y 30'57	
	8206 Nov 26 14:38	8°0			8209 May 28 18:11	0° ႘	
desc. node	8206 Dec 04 16:27	9° ට 51'02			8209 Jun 22 19:39	$\Pi^{\circ}0$	
	8206 Dec 21 05:47	0° ≈			8209 Jul 17 12:54	0°€	
	8207 Jan 15 00:08	0° ℋ			8209 Aug 11 03:03	$0^{\circ}\Omega$	
	8207 Feb 08 23:27	0 ° Υ			8209 Sep 04 15:46	0° m	
	8207 Mar 06 10:02	0°8		asc. node	8209 Sep 11 11:15	8° m 20'43	
asc. node	8207 Mar 27 16:02	24° 8 06'29			8209 Sep 29 02:56	0° ت	
	8207 Apr 02 01:42	Π $^{\circ}0$		morning set	8209 Oct 08 08:58	11° ≙ 22'10	
evening max el	8207 Apr 14 14:29	13° Ⅱ 07'26	46°59'36		8209 Oct 23 12:16	0°M	
	8207 May 02 17:33	0 \circ \odot		max. Earth dist.	8209 Nov 12 19:16	25°M01'17	1.73216 AU
greatest brilliancy	8207 May 24 19:54	14° © 01'00	-4.9m				
retrograde	8207 Jun 04 02:16	15° © 59'23		superior conj	8209 Nov 13 21:55	26°M23'31	1°24'01
evening set	8207 Jun 20 01:23	11° © 00'05		minimum elong	8209 Nov 14 01:51		1°24'06
inferior conj	8207 Jun 24 22:49	8°902'50			8209 Nov 16 20:05	0° ∡	
minimum elong	8207 Jun 25 09:05	7°546'58			8209 Dec 11 03:11	0°る	
min. Earth dist.	8207 Jun 24 21:38		0.27407 AU	evening rise	8209 Dec 21 03:37	12° る 22'32	
morning rise	8207 Jun 30 17:11	4°937'32		desc. node	8210 Jan 01 04:17	26° පි 00'01	
direct	8207 Jul 15 19:11	0°912'30			8210 Jan 04 09:57	0° ≈	
desc. node	8207 Jul 17 10:41 8207 Jul 25 13:34	0°915'41	4.0		8210 Jan 28 16:16	0° ℋ 0° Ƴ	
greatest brilliancy	8207 Sep 02 02:23	1° © 58'31 0° Ω	-4.8m		8210 Feb 21 22:11 8210 Mar 18 05:15	0°8	
morning max el	8207 Sep 02 02:23 8207 Sep 03 02:15	0° Ω 57'28	46°00'24		8210 Mai 18 03:13 8210 Apr 11 17:19	0°II	
morning max er	8207 Sep 03 02:13 8207 Oct 01 02:20	0° m	40 00 24	asc. node	8210 Apr 24 03:26	15° Ⅱ 00'32	
	8207 Oct 01 02:20 8207 Oct 27 19:10	0∘ ʊ		asc. node	8210 May 06 17:19	0°95	
asc. node	8207 Nov 07 09:41	0 — 12° Ω 17'56			8210 Jun 01 18:31	$0 {\circ} \Omega$	
use. noue	8207 Nov 22 10:19	0°M		evening max el	8210 Jun 25 04:59	24° Ω 53'25	46°24'40
	8207 Dec 17 09:44	0° ∡ 7		evening man er	8210 Jun 30 10:41	0° m	.0 20
	8208 Jan 10 22:55	0° ਰ		greatest brilliancy	8210 Aug 03 00:32	24° m/29'51	-4.8m
	8208 Feb 04 05:29	0° ≈		desc. node	8210 Aug 13 22:24	26° m 46'07	
desc. node	8208 Feb 27 02:32	28° ≈ 29'11		retrograde	8210 Aug 14 02:51	26° m 46'09	
	8208 Feb 28 07:36	0° ∀		evening set	8210 Aug 29 14:38	22° m 06'25	
morning set	8208 Feb 29 04:46	1° ₩ 06'07		min. Earth dist.	8210 Sep 03 20:16	18° m 58'13	0.28580 AU
	8208 Mar 23 06:30	$0^{\circ}\mathbf{\Upsilon}$		inferior conj	8210 Sep 04 13:03	18° m 32'00	-4°57'51
max. Earth dist.	8208 Apr 08 23:08	20° Ƴ 58'32	1.71231 AU	minimum elong	8210 Sep 04 03:41	18° ™ 46'37	
				morning rise	8210 Sep 09 17:10	15° m 23'58	
superior conj	8208 Apr 09 22:30	22° Y 11'59	-1°21'29	direct	8210 Sep 25 20:10	10°M 25'12	
minimum elong	8208 Apr 09 14:08	21° Y 45'39	1°21'22	greatest brilliancy	8210 Oct 05 15:51	12° m 09'21	-4.7m
	8208 Apr 16 03:23	9° 8			8210 Nov 02 09:57	0∘ ত	
	8208 May 10 00:03	$\Pi^{\circ}0$		morning max el	8210 Nov 13 13:03	10° ഫ 08'10	45°41'54
evening rise	8208 May 20 12:54	13° Ⅱ 13'11			8210 Dec 03 01:20	0° M	
	8208 Jun 02 22:38	0°€		asc. node	8210 Dec 04 21:42	1°M58'50	
asc. node	8208 Jun 19 00:51	20°503'16			8210 Dec 29 23:29	0° ⊼	
	8208 Jun 27 01:08	0 \circ Ω			8211 Jan 24 11:29	0°る	

	8211 Feb 18 06:04	0° ≈		evening max el	8213 Sep 04 00:23	4°M02'30	45°45'13
	8211 Mar 14 14:43	0°) €		desc. node	8213 Sep 10 09:49	10°M03'37	
desc. node	8211 Mar 26 14:48	14°) 54'35			8213 Oct 07 09:29	0° ∡ ¹	
	8211 Apr 07 17:16	$0^{\circ}\mathbf{\Upsilon}$		greatest brilliancy	8213 Oct 12 19:22	2° ҂ 17′29	-4.7m
	8211 May 01 16:18	0°8		retrograde	8213 Oct 22 21:10	4° ∡ ¹06'57	
morning set	8211 May 16 11:11	18° 8 33'04			8213 Nov 06 10:57	30°RM	
	8211 May 25 14:09	$\Pi^{\circ}0$		evening set	8213 Nov 10 01:13	27°M55'55	
	8211 Jun 18 12:57	0 \circ \odot		inferior conj	8213 Nov 13 08:24	25°M52'47	-8°28'22
				minimum elong	8213 Nov 13 12:22	25°M46'32	8°28'00
superior conj	8211 Jun 25 05:54	8°922'56	-0°50'51	min. Earth dist.	8213 Nov 13 17:01	25°M39'12	0.29061 AU
minimum elong	8211 Jun 25 16:23	8° 9 55'41	0°50'34	morning rise	8213 Nov 16 23:27	23°M37'43	
max. Earth dist.	8211 Jun 28 12:20	12° © 27'43	1.71917 AU	direct	8213 Dec 04 21:53	17° M 34'39	
	8211 Jul 12 14:09	0 $^{\circ}\Omega$		greatest brilliancy	8213 Dec 15 15:34	19° M 41'18	-4.8m
asc. node	8211 Jul 17 12:53	6° Ω 09'08		asc. node	8214 Jan 01 09:27	29° M 24'14	
evening rise	8211 Aug 03 05:36	26° Ω 51'50			8214 Jan 02 04:28	0° ⊀ ⁷	46011141
	8211 Aug 05 18:26	0° m		morning max el	8214 Jan 23 13:04	18° ₹ 59'11	46°11'41
	8211 Aug 30 02:18	0∘ ⊽			8214 Feb 03 07:02	5°0	
	8211 Sep 23 14:42 8211 Oct 18 09:32	0° M 0° ∡			8214 Mar 02 06:53 8214 Mar 27 17:16	0° ∺	
desc. node	8211 Oct 18 09.32 8211 Nov 06 06:41	0 x . 22° x 33'59			8214 Mai 27 17:16 8214 Apr 21 10:26	0 X 0°Υ	
desc. Hode	8211 Nov 10 00:41 8211 Nov 12 13:18	22 メ ・33 39		desc. node	8214 Apr 23 02:57	2° Υ '04'11	
	8211 Dec 08 05:38	0° ≈		dese. Hode	8214 May 15 18:43	0°8	
	8212 Jan 03 18:57	0° ₩			8214 Jun 08 22:52	0°II	
evening max el	8212 Jan 29 04:06	26°) 45′27	46°37'01		8214 Jul 03 02:07	0°e≥	
evening mun er	8212 Feb 01 11:30	0°Υ	.0 3, 01		8214 Jul 27 06:23	$0^{\circ}\Omega$	
asc. node	8212 Feb 27 06:44	21° Y 30'15		morning set	8214 Jul 28 14:48	1° Ω 40'27	
greatest brilliancy	8212 Mar 09 11:29	27° Y 12'36	-4.9m	asc. node	8214 Aug 14 00:57	22° Ω 00'12	
retrograde	8212 Mar 19 09:00	29° Y 03'34			8214 Aug 20 12:08	0° m	
evening set	8212 Apr 05 06:54	23° Y 29'52				•	
inferior conj	8212 Apr 08 23:33	21° Y 15'49	8°30'14	superior conj	8214 Sep 04 11:44	18° m 30'34	0°48'49
minimum elong	8212 Apr 08 15:29	21° Y 28'11	8°29'10	minimum elong	8214 Sep 04 02:49	18° Mp 03'02	0°48'25
min. Earth dist.	8212 Apr 08 17:14	21° Y 25'29	0.27038 AU	max. Earth dist.	8214 Sep 06 01:04	20° m 25'48	1.73084 AU
morning rise	8212 Apr 12 00:08	19° Ƴ 25'37			8214 Sep 13 19:09	0∘ ⊽	
direct	8212 Apr 29 14:40	13° Y 28'42			8214 Oct 08 03:20	0° M	
greatest brilliancy	8212 May 09 03:31	15° Y 12'36	-4.9m	evening rise	8214 Oct 11 00:44	3°M33'32	
	8212 Jun 01 15:07	0°8			8214 Nov 01 13:16	0° ∡	
desc. node	8212 Jun 18 01:05	15° 8 09'57			8214 Nov 26 01:47	0°る	
morning max el	8212 Jun 18 23:46	16° 8 06'27	46°47'27	desc. node	8214 Dec 03 18:24	9° る 22'38	
	8212 Jul 02 09:15	0° Ⅱ			8214 Dec 20 17:23	0° ≈	
	8212 Jul 29 08:44	0° ©			8215 Jan 14 12:24	0° ∀ 0° Υ	
	8212 Aug 24 04:37	0° Ω			8215 Feb 08 12:44		
asc. node	8212 Sep 18 11:55 8212 Oct 08 23:26	0° Т р 24° Тр 35'03		asc. node	8215 Mar 06 01:07 8215 Mar 26 17:55	0° と 23° と 22'29	
asc. node	8212 Oct 08 23:20 8212 Oct 13 11:04	0° ౮		asc. Houe	8215 Apr 01 20:49	23 Ο 22 29	
	8212 Nov 07 03:30	0°M		evening max el	8215 Apr 12 03:39	10° ∏ 42'26	46°59'47
	8212 Dec 01 14:28	0° ⊼ ¹		evening max er	8215 May 03 05:39	0°95	40 37 47
morning set	8212 Dec 15 22:24	17° ∡ ¹40'49		greatest brilliancy	8215 May 22 11:48	11° © 40'35	-4.9m
<i>5 5 1 1 1 1 1 1 1 1 1 1</i>	8212 Dec 25 21:27	0°ප		retrograde	8215 Jun 01 15:43	13° © 36'59	
	8213 Jan 19 01:38	0°≈		evening set	8215 Jun 17 18:21	8° © 33'42	
max. Earth dist.	8213 Jan 20 01:22	1° ≈ 13'46	1.72269 AU	inferior conj	8215 Jun 22 12:31	5° 5 41'13	5°40'23
				minimum elong	8215 Jun 22 23:04	5° © 24'53	5°37'34
superior conj	8213 Jan 22 19:46	4° ≈ 40'17	0°14'09	min. Earth dist.	8215 Jun 22 12:12	5° 5 41'42	0.27382 AU
minimum elong	8213 Jan 22 23:09	4° ≈ 50'47	0°14'08	morning rise	8215 Jun 28 04:05	2° 5 19'24	
behind sun begin	8213 Jan 22 11:19	4° ≈ 13'57			8215 Jul 02 23:15	30°RⅡ	
behind sun end	8213 Jan 23 10:59	5° ≈ 27'37		direct	8215 Jul 13 08:03	27° Ⅱ 51′09	
desc. node	8213 Jan 28 16:22	11° ≈ 57'50		desc. node	8215 Jul 16 12:44	28° Ⅱ 03'00	
	8213 Feb 12 03:33	0°) (greatest brilliancy	8215 Jul 23 03:15	29° Ⅱ 37'29	-4.8m
evening rise	8213 Mar 03 06:27	23°) €53'38			8215 Jul 24 04:03	0°©	46001177
	8213 Mar 08 03:32	$^{\circ \gamma}$		morning max el	8215 Aug 31 15:27	28° © 37'32	46°01'54
	8213 Apr 01 02:31	0° Β			8215 Sep 02 01:23	0° N	
	8213 Apr 25 02:31	0°© 0°∏			8215 Sep 30 18:18	0° m)	
asc. node	8213 May 19 06:32 8213 May 21 15:04	0°99 2°9954'21		asc. node	8215 Oct 27 08:35 8215 Nov 06 11:41	0° ჲ 11° ჲ 46'17	
asc. Houc	8213 Jun 12 18:15	2 €3421 0°Ω		ase. Houe	8215 Nov 21 22:32	0°M	
	8213 Jul 07 18:56	0° m			8215 Dec 16 21:19	0° ⊼ ¹	
	8213 Aug 02 18:45	0∘ ʊ ○ '₩			8216 Jan 10 10:10	%ਰ	
	8213 Aug 30 21:37	0° m			8216 Feb 03 16:36	0° ≈	
					10.50		

desc. node	8216 Feb 26 04:29	28° ≈ 00'51		desc. node	8218 Aug 13 00:24	24° m/30'57	
morning set	8216 Feb 26 16:41	28°≈38'55		evening set	8218 Aug 27 04:19	19° m 55'43	
morning set	8216 Feb 27 18:38	20 ≈ 3033		min. Earth dist.	8218 Sep 01 11:29	16° Mp 45'31	0.28533 AU
	8216 Mar 22 17:30	0° Υ		inferior conj	8218 Sep 02 04:36	16° Mp 18'51	
max. Earth dist.	8216 Apr 06 03:38		1.71246 AU	minimum elong	8218 Sep 01 19:33	16° Mp 32'57	
mar. Barur dist.	021011p1 00 05.50	10 , 0, 15	1., 12.0110	morning rise	8218 Sep 07 11:17	13° m) 07'35	. 3022
superior conj	8216 Apr 07 09:28	19° Ƴ 41'01	-1°19'55	direct	8218 Sep 23 11:29	8° m) 12'40	
minimum elong	8216 Apr 07 00:20	19° Υ 12'18		greatest brilliancy	8218 Oct 03 06:26	9° m 56'35	-4.7m
C	8216 Apr 15 14:23	0°8		,	8218 Nov 02 13:53	0∘ ⊽	
	8216 May 09 11:05	$\Pi^{\circ}0$		morning max el	8218 Nov 11 05:15	7° ≏ 58'04	45°41'46
evening rise	8216 May 17 23:39	10° Ⅱ 41'41			8218 Dec 02 18:18	0° M.	
	8216 Jun 02 09:46	0ಂ ಎ		asc. node	8218 Dec 03 23:45	1°ML19'22	
asc. node	8216 Jun 18 02:55	19° © 34'53			8218 Dec 29 13:23	0° ∡ ¹	
	8216 Jun 26 12:24	$0 {\circ} \Omega$			8219 Jan 24 00:05	0°ප	
	8216 Jul 20 20:44	O° m y			8219 Feb 17 18:01	0° ≈	
	8216 Aug 14 13:00	0∘ ⊽			8219 Mar 14 02:18	0° ∀	
	8216 Sep 08 17:26	0° M		desc. node	8219 Mar 25 16:42	14°) 24′43	
	8216 Oct 04 18:17	0° ∡			8219 Apr 07 04:38	0° Υ	
desc. node	8216 Oct 07 21:07	3° ∡ 29'48			8219 May 01 03:32	0° 8	
	8216 Nov 01 10:35	0°ਤ		morning set	8219 May 13 22:20	16° 8 02'25	
evening max el	8216 Nov 14 07:45	12°る50'25	45°50'38		8219 May 25 01:17	0°Щ	
	8216 Dec 04 01:07	0° ≈			8219 Jun 17 23:59	0 . \odot	
greatest brilliancy	8216 Dec 23 18:45	11°≈18′22	-4.8m		0010 1 00 10 05	50050114	0050150
retrograde	8217 Jan 02 06:27	12°≈57'48		superior conj	8219 Jun 22 18:35	5°958'14	
evening set	8217 Jan 17 03:15	8°≈40'57	1005140	minimum elong	8219 Jun 23 05:25	6°932'05	
inferior conj	8217 Jan 23 05:15	5°≈05'39		max. Earth dist.	8219 Jun 26 02:00	10°906'15	1.71873 AU
minimum elong	8217 Jan 23 08:29	5°≈00'40			8219 Jul 12 01:07	0°Ω 5°Ω41104	
min. Earth dist. asc. node	8217 Jan 23 20:32 8217 Jan 28 21:10	4°≈42'04 1°≈42'15	0.27585 AU	asc. node evening rise	8219 Jul 16 14:49 8219 Jul 31 20:50	5° Ω 41'04 24° Ω 36'26	
		1°≈4213		evening rise		0° m)	
morning rise	8217 Jan 29 12:53 8217 Feb 01 04:16	1 ≈2030 30°Ŗる			8219 Aug 05 05:25 8219 Aug 29 13:24	0∘ ত اللا	
direct	8217 Feb 01 04:16 8217 Feb 13 04:36	30 KO 27° る 04'29			8219 Aug 29 13.24 8219 Sep 23 02:05	0 == 0°M	
greatest brilliancy	8217 Feb 24 02:58	29° ප 17'56	-4 9m		8219 Oct 17 21:22	0° ⊼ ″	
greatest orimaney	8217 Feb 25 19:43	0°≈	4.7111	desc. node	8219 Nov 05 08:45	22° × ⁷ 03'23	
morning max el	8217 Apr 04 15:52	29°≈52'06	46°54'01	dese. Hode	8219 Nov 12 01:56	0°중	
morning max or	8217 Apr 04 19:00	0° ∀	10 5101		8219 Dec 07 19:42	0° ≈	
	8217 May 02 13:20	0°Υ			8220 Jan 03 11:54	0° ∀	
desc. node	8217 May 20 15:18	20° Y ′54′26		evening max el	8220 Jan 26 18:51	24°) €25'34	46°35'20
	8217 May 28 08:12	0°8		<i>y</i>	8220 Feb 01 12:46	0° Υ	
	8217 Jun 22 08:27	$\Pi^{\circ}0$		asc. node	8220 Feb 26 08:34	20° Y ′01'56	
	8217 Jul 17 00:58	0 \circ \mathfrak{S}		greatest brilliancy	8220 Mar 06 23:47	24° Y '45'29	-4.9m
	8217 Aug 10 14:37	$0^{\circ}\Omega$		retrograde	8220 Mar 16 21:55	26° Ƴ 36'24	
	8217 Sep 04 02:59	0° ™		evening set	8220 Apr 02 15:07	21° Y ′09'46	
asc. node	8217 Sep 10 13:08	7° m 52'22		min. Earth dist.	8220 Apr 06 05:38	18° Ƴ 59'04	0.27031 AU
	8217 Sep 28 13:54	0∘ ⊽		inferior conj	8220 Apr 06 12:13	18° Ƴ 48'56	8°20'23
morning set	8217 Oct 06 02:11	9° ≙ 14'01		minimum elong	8220 Apr 06 03:32	19° Ƴ 02'18	8°19'10
	8217 Oct 22 23:04	0° M ₊		morning rise	8220 Apr 09 16:01	16° Ƴ 53'51	
max. Earth dist.	8217 Nov 10 16:31	23°M05'25	1.73233 AU	direct	8220 Apr 27 03:54	11° Υ ′02'03	
				greatest brilliancy	8220 May 06 16:11	12° Y 45′28	-4.9m
superior conj	8217 Nov 11 15:30	24°M16'20			8220 Jun 02 00:20	0°8	4.60.4012.6
minimum elong	8217 Nov 11 18:45	24°M26'22	1°24'44	morning max el	8220 Jun 16 13:10	13° 8 42'11	46°48'36
	8217 Nov 16 06:53	0° ⊼		desc. node	8220 Jun 17 03:08	14° 8 17'08	
	8217 Dec 10 14:05	0°る			8220 Jul 02 04:06	0°II	
evening rise	8217 Dec 18 19:38	10°る09'57 25°る32'17			8220 Jul 28 23:40	0° ©	
desc. node	8217 Dec 31 06:22	25° ⊘ 32′17 0° ≈			8220 Aug 23 17:44	0° Ω 0° n	
	8218 Jan 03 21:03	0 ≈ 0°)		asc. node	8220 Sep 18 00:01	-•	
	8218 Jan 28 03:37 8218 Feb 21 09:52	0° π 0° Υ		asc. Hout	8220 Oct 08 01:23 8220 Oct 12 22:33	24°M05'58 0° ₽	
	8218 Mar 17 17:25	0° 8			8220 Oct 12 22.33 8220 Nov 06 14:38	0° M ₊	
	8218 Apr 11 06:11	0°II			8220 Nov 00 14.38 8220 Dec 01 01:24	0° ⊼ ¹	
asc. node	8218 Apr 23 05:24	14° ∏ 26′22		morning set	8220 Dec 01 01:24 8220 Dec 13 15:04	15° ∡ 30′26	
	8218 May 06 07:26	0°95			8220 Dec 25 08:18	0°る	
	8218 Jun 01 11:16	$0^{\circ}\Omega$		max. Earth dist.	8221 Jan 17 14:11	28° る 50'43	1.72308 AU
evening max el	8218 Jun 22 20:31	22° Ω 37'38	46°26'25		8221 Jan 18 12:29	0° ≈	
<i>3</i>	8218 Jun 30 11:40	0° my					
greatest brilliancy	8218 Jul 31 15:46	22° m/ 15'20	-4.8m	superior conj	8221 Jan 20 10:11	2° ≈ 22'03	0°17'42
retrograde	8218 Aug 11 19:25	24° m 32'42		minimum elong	8221 Jan 20 14:20	2° ≈ 34'59	0°17'37

						—	
desc. node	8221 Jan 27 18:18	11° ≈ 29'58		desc. node	8223 Jul 15 14:42	25° ∏ 56′09	
	8221 Feb 11 14:29	0° ℋ		greatest brilliancy	8223 Jul 20 17:20	27° Ⅲ 17'31	-4.8m
evening rise	8221 Feb 28 19:16	21° ∺ 29'07			8223 Jul 26 22:14	0 \circ \odot	
	8221 Mar 07 14:35	0 ° $\mathbf{\gamma}$		morning max el	8223 Aug 29 05:27	26°©19'45	46°03'23
	8221 Mar 31 13:44	0°8		•	8223 Sep 01 23:19	$0^{\circ}\Omega$	
	8221 Apr 24 13:57	0°II			8223 Sep 30 09:54	0° mp	
	8221 May 18 18:16	0 . ಹ			8223 Oct 26 21:45	0∘ ಹ ೧.1%	
1	•			1			
asc. node	8221 May 20 17:07	2° © 24'23		asc. node	8223 Nov 05 13:45	11° ≏ 15'25	
	8221 Jun 12 06:32	$0 ^{\circ} \Omega$			8223 Nov 21 10:30	0°M₊	
	8221 Jul 07 08:11	O° m			8223 Dec 16 08:39	0°⊀	
	8221 Aug 02 10:04	0∘ ত			8224 Jan 09 21:11	0°る	
	8221 Aug 30 18:40	0° M.			8224 Feb 03 03:28	0° ≈	
evening max el	8221 Sep 01 15:23	1°ML49'03	45°45'56	morning set	8224 Feb 24 04:48	26°≈13'06	
desc. node	8221 Sep 09 11:45	9° M ₁0'02		desc. node	8224 Feb 25 06:23	27° ≈ 32'57	
dese. Hode	8221 Oct 10 02:33	0°×7		desc. Hode	8224 Feb 27 05:27	0° ∀	
araataat brillianas		0° × 707'19	-4.7m			0° Υ	
greatest brilliancy	8221 Oct 10 10:49		-4./III	n d ti	8224 Mar 22 04:17		1.71250 444
retrograde	8221 Oct 20 12:27	1° ∡ 756′57		max. Earth dist.	8224 Apr 03 10:41	15° Y 24'39	1.71259 AU
	8221 Oct 30 11:17	30°RM₊					
evening set	8221 Nov 07 18:06	25°M44'39		superior conj	8224 Apr 04 20:38	17° Ƴ 11'24	-1°18'12
inferior conj	8221 Nov 11 00:34	23°M42'28	-8°31'45	minimum elong	8224 Apr 04 10:51	16° Ƴ 40'37	1°18'02
minimum elong	8221 Nov 11 03:48	23°M37'23	8°31'28		8224 Apr 15 01:09	6°	
min. Earth dist.	8221 Nov 11 08:22	23°M30'11	0.29084 AU		8224 May 08 21:51	$\Pi^{\circ}0$	
morning rise	8221 Nov 14 13:26	21°M30'28	0.27001710	evening rise	8224 May 15 10:44	8° I 12'12	
				evening rise	•	0°9	
direct	8221 Dec 02 13:54	15°M24'17	4.0		8224 Jun 01 20:35		
greatest brilliancy	8221 Dec 13 07:03	17°M29'46	-4.8m	asc. node	8224 Jun 17 04:52	19° © 07'09	
asc. node	8221 Dec 31 11:26	28°M16'47			8224 Jun 25 23:21	$0^{\circ}\Omega$	
	8222 Jan 02 16:09	0° ∡ ¹			8224 Jul 20 07:55	0° m	
morning max el	8222 Jan 21 03:24	16° ∡ 741′56	46°10'12		8224 Aug 14 00:39	0∘ ⊽	
	8222 Feb 03 01:23	ರ°0			8224 Sep 08 05:58	0°M	
	8222 Mar 01 21:25	0° ≈			8224 Oct 04 08:38	0° √	
	8222 Mar 27 06:13	0°) €		desc. node	8224 Oct 06 23:12	2° ×7 54'45	
	8222 Apr 20 22:34	0° Υ		dese. Hode	8224 Nov 01 05:23	2 × 31 13 0°ਰ	
							45040142
desc. node	8222 Apr 22 05:03	1° Y 33'30		evening max el	8224 Nov 11 22:17	10° る 36'09	45°49'42
	8222 May 15 06:21	0°8			8224 Dec 04 17:17	0° ≈	
	8222 Jun 08 10:10	Π $\circ 0$		greatest brilliancy	8224 Dec 21 08:09	9° ≈ 00'30	-4.8m
	8222 Jul 02 13:11	0 \circ \odot		retrograde	8224 Dec 30 20:39	10° ≈ 40′27	
morning set	8222 Jul 26 05:58	29° © 25'02		evening set	8225 Jan 14 18:57	6° ≈ 20'41	
	8222 Jul 26 17:15	$0^{\circ}\Omega$		inferior conj	8225 Jan 20 19:26	2°≈47'21	-1°47'43
asc. node	8222 Aug 13 02:50	21°Ω32'41		minimum elong	8225 Jan 20 23:28	2°≈41'08	
400. 11040	8222 Aug 19 22:53	0° mp		min. Earth dist.	8225 Jan 21 11:19	2°≈22'51	0.27640 AU
	0222 Aug 17 22.33	עווי ∪		iiiii. Lattii dist.	8225 Jan 25 10:08	2 ≈22 31 30°Rる	0.27040 AC
	0000 0 00 0101	1.60 *** 0.014.4	0046104				
superior conj	8222 Sep 02 04:21	16° Mp 20′44	0°46'01	morning rise	8225 Jan 27 03:12	29° る 02'21	
minimum elong	8222 Sep 01 19:43	15° m 54'04	0°45'36	asc. node	8225 Jan 27 23:02	28° る 35'54	
max. Earth dist.	8222 Sep 03 18:38	18° m 18'54	1.73054 AU	direct	8225 Feb 10 19:42	24° පි 45'16	
	8222 Sep 13 05:50	0∘ ত		greatest brilliancy	8225 Feb 21 18:36	26° る 59'48	-4.9m
	8222 Oct 07 14:02	0°M			8225 Feb 28 01:39	0° ≈	
evening rise	8222 Oct 08 18:15	1°M26'50		morning max el	8225 Apr 02 07:36	27°≈35'09	46°53'09
S	8222 Nov 01 00:07	0°₺		Č	8225 Apr 04 16:38	0°) €	
	8222 Nov 25 12:56	ੁੰ≎			8225 May 02 05:05	0° Υ	
desc. node		8° る 54'39		4 4-	•	20° Υ 18'52	
desc. node	8222 Dec 02 20:28			desc. node	8225 May 19 17:15		
	8222 Dec 20 05:00	0° ≈			8225 May 27 21:41	0°B	
	8223 Jan 14 00:41	0° ∀			8225 Jun 21 20:45	$\Pi^{\circ}0$	
	8223 Feb 08 02:02	0 ° $\mathbf{\gamma}$			8225 Jul 16 12:32	0	
	8223 Mar 05 16:15	9° 8			8225 Aug 10 01:43	$0^{\circ}\Omega$	
asc. node	8223 Mar 25 19:58	22° 8 38'57			8225 Sep 03 13:44	0° m	
	8223 Apr 01 16:15	0°II		asc. node	8225 Sep 09 15:06	7° m/25'37	
evening max el	8223 Apr 09 16:21	8° Ⅱ 16'57	47°00'02	use. Houe	8225 Sep 28 00:25	0∘ ʊ	
Sterning max of		0°ஒ	1, 0002	morning set	8225 Oct 03 19:29	0 == 7° £ 07'18	
	8223 May 03 21:24		4.0	morning set			
greatest brilliancy	8223 May 20 03:21	9°520'30	-4.9m		8225 Oct 22 09:30	0°M	
retrograde	8223 May 30 05:18	11° © 15'39		max. Earth dist.	8225 Nov 08 13:47	21°M10'44	1.73248 AU
evening set	8223 Jun 15 11:25	6° 5 07'52					
inferior conj	8223 Jun 20 02:19	3° 5 20'23	5°58'24	superior conj	8225 Nov 09 09:03	22°M10'12	1°25'08
minimum elong	8223 Jun 20 13:04	3°503'45	5°55'38	minimum elong	8225 Nov 09 11:38	22°MJ18'07	1°25'15
min. Earth dist.	8223 Jun 20 02:49	3°9519'37	0.27364 AU	<i>G</i>	8225 Nov 15 17:19	0° ∡ 7	
morning rise	8223 Jun 25 14:55	0°902'33			8225 Dec 10 00:37	°5	
	8223 Jun 25 16:46	30°RⅡ		evening rise	8225 Dec 16 00:37 8225 Dec 16 11:35	7° る 58'24	
	0225 Juli 25 10.40			•			
direct	8223 Jul 10 20:52	25° Ⅲ 30′19		desc. node	8225 Dec 30 08:14	25° る 05'06	

	8226 Jan 03 07:45	0° ≈			9229 Can 17 11.42	0° m/y	
		0° ₩		1	8228 Sep 17 11:43	-•	
	8226 Jan 27 14:34			asc. node	8228 Oct 07 03:28	23° m/38'28	
	8226 Feb 20 21:11	$^{\circ \gamma}$			8228 Oct 12 09:38	0∘ 亚	
	8226 Mar 17 05:13	0°8			8228 Nov 06 01:22	0° ™	
_	8226 Apr 10 18:45	0°II			8228 Nov 30 11:57	0° ∡ 7	
asc. node	8226 Apr 22 07:28	13° ∏ 53'31		morning set	8228 Dec 11 07:51	13° ∡ ′21'34	
	8226 May 05 21:16	0ಂ ತಾ			8228 Dec 24 18:48	0° る	
	8226 Jun 01 03:50	$0^{\circ}\Omega$		max. Earth dist.	8229 Jan 15 03:20	26° る 29'40	1.72355 AU
evening max el	8226 Jun 20 12:57	20° Ω 25'29	46°28'14		8229 Jan 17 23:02	0° ≈	
	8226 Jun 30 13:18	O° My					
greatest brilliancy	8226 Jul 29 07:21	20° M 03'02	-4.8m	superior conj	8229 Jan 18 00:40	0° ≈ 05'03	0°21'11
retrograde	8226 Aug 09 11:59	22° Mp 21'00		minimum elong	8229 Jan 18 05:34	0° ≈ 20'17	0°21'05
desc. node	8226 Aug 12 02:16	22°Mp 12'52		desc. node	8229 Jan 26 20:16	11° ≈ 03'05	
evening set	8226 Aug 24 18:22	17° Mp46'51			8229 Feb 11 01:08	0° ∀	
min. Earth dist.	8226 Aug 30 02:48	14° m 34'48	0.28485 AU	evening rise	8229 Feb 26 07:57	19° ∺ 05'09	
inferior conj	8226 Aug 30 20:16	14° m 07'35	-4°23'10		8229 Mar 07 01:23	0° Y	
minimum elong	8226 Aug 30 11:35	14° m 21'07	4°20'56		8229 Mar 31 00:41	0° ႘	
morning rise	8226 Sep 05 05:26	10° m 53'08			8229 Apr 24 01:07	$\Pi^{\circ}0$	
direct	8226 Sep 21 03:19	6° Mp 02'14			8229 May 18 05:47	0°€	
greatest brilliancy	8226 Sep 30 20:48	7° Mp 45'20	-4.7m	asc. node	8229 May 19 19:03	1° © 54'47	
· ·	8226 Nov 02 15:32	0∘ <u>⊽</u>			8229 Jun 11 18:37	$0^{\circ}\Omega$	
morning max el	8226 Nov 08 21:14	5° ≏ 48'59	45°41'30		8229 Jul 06 21:19	0° m/y	
	8226 Dec 02 10:27	0°M			8229 Aug 02 01:22	0∘ ⊽	
asc. node	8226 Dec 03 01:40	0°M41'14		evening max el	8229 Aug 30 05:47	ა — 29° Ω 34'52	45°46'48
use. Houe	8226 Dec 29 02:44	0° %		evening max er	8229 Aug 30 16:10	0°M	15 10 10
	8227 Jan 23 12:12	0°ਤ		desc. node	8229 Sep 08 13:53	8°M16'37	
	8227 Feb 17 05:30	0°≈		greatest brilliancy	8229 Oct 08 02:12	27°M58'06	-4.7m
	8227 Mar 13 13:25	0 ≈		-		29°M48'27	-4. /111
desc. node		0 X 13° ¥ 56'43		retrograde	8229 Oct 18 04:02	29 1164827 23°M35'11	
desc. node	8227 Mar 24 18:44	13 χ3043 0° Υ		evening set	8229 Nov 05 10:44		0024122
	8227 Apr 06 15:34			inferior conj	8229 Nov 08 16:54	21°M33'35	
	8227 Apr 30 14:20	0° 8		minimum elong	8229 Nov 08 19:21	21°M29'43	8°34'10
morning set	8227 May 11 09:24	13° 8 32'46		min. Earth dist.	8229 Nov 08 23:53	21°M22'34	0.29104 AU
	8227 May 24 12:00	0°II		morning rise	8229 Nov 12 03:52	19°M24'22	
	8227 Jun 17 10:37	0		direct	8229 Nov 30 05:44	13°M15'14	
				greatest brilliancy	8229 Dec 10 23:07	15° ™ 20'20	-4.8m
superior conj	8227 Jun 20 07:17	3° © 34'42		asc. node	8229 Dec 30 13:22	27°M12'02	
minimum elong	8227 Jun 20 18:24	4° © 09'24			8230 Jan 03 00:13	0° ∡	
max. Earth dist.	8227 Jun 23 16:18	7° © 47'50	1.71827 AU	morning max el	8230 Jan 18 17:53	14° ∡ ¹26′02	46°08'37
	8227 Jul 11 11:41	$0 {\circ} \Omega$			8230 Feb 02 18:59	0°ಕ	
asc. node	8227 Jul 15 16:44	5° Ω 14'09			8230 Mar 01 11:35	0° ≈	
evening rise	8227 Jul 29 12:06	22° Ω 22'21			8230 Mar 26 18:57	0° ∀	
	8227 Aug 04 15:59	0° m			8230 Apr 20 10:33	0° Y	
	8227 Aug 29 00:04	0∘ ত		desc. node	8230 Apr 21 07:03	1° Y ′02'57	
	8227 Sep 22 13:00	0° M.			8230 May 14 17:50	0° ႘	
	8227 Oct 17 08:47	0° ∡ ¹			8230 Jun 07 21:19	$\Pi^{\circ}0$	
desc. node	8227 Nov 04 10:45	21° ∡ ³33'50			8230 Jul 02 00:05	0 \circ \mathfrak{S}	
	8227 Nov 11 14:12	0°ප		morning set	8230 Jul 23 20:52	27° 5 09'08	
	8227 Dec 07 09:29	0° ≈			8230 Jul 26 03:59	$0^{\circ}\Omega$	
	8228 Jan 03 04:48	0° ∀		asc. node	8230 Aug 12 04:50	21° Ω 05'54	
evening max el	8228 Jan 24 09:05	22° ℋ 05'38	46°33'38		8230 Aug 19 09:31	0° m)	
C	8228 Feb 01 14:56	$_0$ $^{\circ}$ \mathbf{Y}			C	•	
asc. node	8228 Feb 25 10:38	18° Ƴ 32'05		superior conj	8230 Aug 30 20:52	14° Tp 10'49	0°43'09
greatest brilliancy	8228 Mar 04 12:49	22° Υ 20'37	-4.9m	minimum elong	8230 Aug 30 12:33	13° m 45'09	0°42'43
retrograde	8228 Mar 14 10:25	24° Υ 10'48	,	max. Earth dist.	8230 Sep 01 11:00	16° Mp 08'36	1.73026 AU
evening set	8228 Mar 30 23:28	18° Υ 51'20		max. Earth dist.	8230 Sep 12 16:25	0∘ ⊽	1.75020710
inferior conj	8228 Apr 04 01:03	16° Υ 23'46	8°09'41	evening rise	8230 Oct 06 11:52	ა _ 29° ჲ 20'42	
minimum elong	8228 Apr 03 15:46	16° Υ 38'04	8°08'15	evening rise	8230 Oct 00 11:32 8230 Oct 07 00:38	0°M	
min. Earth dist.	8228 Apr 03 18:33	16° Υ 33'47	0.27024 AU		8230 Oct 07 00:38 8230 Oct 31 10:51	0° ⊼ ¹	
	-	10 γ 33 47 14° γ 23'35	0.27024 AU			0° ਨ	
morning rise	8228 Apr 07 08:08			daga rada	8230 Nov 24 23:58		
direct	8228 Apr 24 16:49	8° Υ 36'59	4.000	desc. node	8230 Dec 01 22:22	8° る 26'32	
greatest brilliancy	8228 May 04 05:37	10° Y 20'31	-4.9m		8230 Dec 19 16:30	0° ≈	
	8228 Jun 02 06:29	0° 8	4.00.4012.0		8231 Jan 13 12:54	0°){	
morning max el	8228 Jun 14 01:39	11° 8 16'36	46°49'39		8231 Feb 07 15:23	0°Υ •••	
desc. node	8228 Jun 16 05:04	13° 8 26'08		_	8231 Mar 05 07:36	0°8	
	8228 Jul 01 22:04	0°Щ		asc. node	8231 Mar 24 22:00	21° 8 54'31	
	8228 Jul 28 14:04	0°©			8231 Apr 01 12:24	0°П	
	8228 Aug 23 06:25	0 $^{\circ}$ Ω		evening max el	8231 Apr 07 05:10	5° Ⅱ 51'29	47°00'10

	8231 May 04 19:05	0° ©		morning set	8233 Oct 01 12:26	4° £ 58'39	
greatest brilliancy	8231 May 17 18:04	6°958'25	-4.9m	3	8233 Oct 21 20:15	0° M	
retrograde	8231 May 27 19:00	8°953'08		max. Earth dist.	8233 Nov 06 10:10	19° ™ 12'27	1.73260 AU
evening set	8231 Jun 13 04:15	3°540'25					
inferior conj	8231 Jun 17 15:47	0° © 58'09	6°15'58	superior conj	8233 Nov 07 02:25	20°M02'33	1°25'32
minimum elong	8231 Jun 18 02:40	0° © 41'21	6°13'16	minimum elong	8233 Nov 07 04:17	20°M08'19	1°25'39
min. Earth dist.	8231 Jun 17 16:48	0°956'34	0.27348 AU		8233 Nov 15 04:05	0° ∡ ¹	
mamina risa	8231 Jun 19 05:34 8231 Jun 23 01:14	30°ŖⅡ 27°Ⅱ44'54		avanina rica	8233 Dec 09 11:29	0°궁 5° 궁 45'37	
morning rise direct	8231 Jul	27 H 44 34 23° H 08'00		evening rise desc. node	8233 Dec 14 03:28 8233 Dec 29 10:12	3 3 4337 24° る 37'17	
desc. node	8231 Jul 14 16:40	23° I I53'08		desc. node	8234 Jan 02 18:47	24 ⊙ 3/1/ 0° ≈	
greatest brilliancy	8231 Jul 18 06:49	24° I I56'03	-4.8m		8234 Jan 27 01:50	0° ∀	
,	8231 Jul 28 15:23	0ಂತಾ			8234 Feb 20 08:47	0° Υ	
morning max el	8231 Aug 26 20:01	24°9502'57	46°04'55		8234 Mar 16 17:18	9° 8	
	8231 Sep 01 20:34	$0^{\circ}\Omega$			8234 Apr 10 07:36	Π $^{\circ}0$	
	8231 Sep 30 01:19	0° ™		asc. node	8234 Apr 21 09:22	13° Ⅱ 19'16	
	8231 Oct 26 10:53	0∘ ত			8234 May 05 11:30	0°®	
asc. node	8231 Nov 04 15:35	10° £ 43'48			8234 May 31 21:08	0°N	
	8231 Nov 20 22:29	0°M		evening max el	8234 Jun 18 05:14	18° Ω 11'30	46°29'43
	8231 Dec 15 20:00 8232 Jan 09 08:13	% 0°⋜		greatest brilliancy	8234 Jun 30 17:09 8234 Jul 26 23:20	0°Mp 17°Mp49'10	-4.8m
	8232 Feb 02 14:21	0°≈		retrograde	8234 Aug 07 03:56	20° My 06'45	-4.0111
morning set	8232 Feb 21 17:18	0 ~ 23° ≈ 48'29		desc. node	8234 Aug 11 04:24	19° m) 47'12	
desc. node	8232 Feb 24 08:27	27°≈05'34		evening set	8234 Aug 22 08:19	15° mp 35'31	
	8232 Feb 26 16:18	0°)		inferior conj	8234 Aug 28 11:39	11° m 54'00	-4°05'00
	8232 Mar 21 15:08	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	8234 Aug 28 03:24	12°M) 06'52	4°02'50
max. Earth dist.	8232 Mar 31 20:01	12° Y 49'01	1.71280 AU	min. Earth dist.	8234 Aug 27 18:08	12° m 21'19	0.28435 AU
				morning rise	8234 Sep 02 23:11	8°M 36'15	
superior conj	8232 Apr 02 07:42	14° Y 41′09		direct	8234 Sep 18 18:52	3° m 49'38	
minimum elong	8232 Apr 01 21:21	14° Y 08'36	1°16'07	greatest brilliancy	8234 Sep 28 10:58	5° m/31'44	-4.7m
	8232 Apr 14 12:01	0°H 8°0		mamina may al	8234 Nov 02 16:30	0° ⊽	45041110
evening rise	8232 May 08 08:47 8232 May 12 21:28	о° П 5° П 41'00		morning max el asc. node	8234 Nov 06 12:02 8234 Dec 02 03:40	3° £ 35'36 0° ™ 02'23	45°41'18
evening rise	8232 Jun 01 07:36	0°95		asc. node	8234 Dec 02 03:40 8234 Dec 02 02:47	0°M	
asc. node	8232 Jun 16 06:45	18° © 38'35			8234 Dec 28 16:23	0° ⊼ 7	
	8232 Jun 25 10:30	$0^{\circ}\Omega$			8235 Jan 23 00:39	8°0	
	8232 Jul 19 19:19	0° т р			8235 Feb 16 17:19	0° ≈	
	8232 Aug 13 12:33	0∘ ত			8235 Mar 13 00:52	0° ∀	
	8232 Sep 07 18:49	0°M₊		desc. node	8235 Mar 23 20:42	13° ¥ 27′29	
	8232 Oct 03 23:26	0°⊀			8235 Apr 06 02:47	0° Υ	
desc. node	8232 Oct 06 01:09	2° ≯ 18′23			8235 Apr 30 01:25	0°8	
1	8232 Nov 01 01:01	0°る 0° る 22117	45040151	morning set	8235 May 08 20:47	11° 8 03′18 0° Ⅱ	
evening max el	8232 Nov 09 13:36 8232 Dec 05 15:28	8°る23'17 0°≈	45*48*51		8235 May 23 22:59 8235 Jun 16 21:32	0. 0. Ш	
greatest brilliancy	8232 Dec 03 13:28 8232 Dec 18 21:35	6°≈42'35	-4.8m		8233 Juli 10 21.32	0 3	
retrograde	8232 Dec 28 11:02	8°≈22'53		superior conj	8235 Jun 17 20:11	1° © 10'48	-0°59'39
evening set	8233 Jan 12 10:58	4°≈00'22		minimum elong	8235 Jun 18 07:27	1°5546'02	0°59'23
inferior conj	8233 Jan 18 09:41	0° ≈ 29'00	-2°09'27	max. Earth dist.	8235 Jun 21 06:53	5° © 29'18	1.71785 AU
minimum elong	8233 Jan 18 14:30	0° ≈ 21'35	2°07'51		8235 Jul 10 22:35	$0^{\circ}\Omega$	
min. Earth dist.	8233 Jan 19 01:54	0° ≈ 03'59	0.27689 AU	asc. node	8235 Jul 14 18:47	4° Ω 46'38	
	8233 Jan 19 04:29	30°Rる		evening rise	8235 Jul 27 03:09	20° Ω 06′23	
morning rise	8233 Jan 24 17:21	26°₹44'15			8235 Aug 04 02:56	0° m)	
asc. node direct	8233 Jan 27 01:04 8233 Feb 08 11:08	25°る32'51 22°る26'20			8235 Aug 28 11:10	0° Մ	
greatest brilliancy	8233 Feb 08 11:08 8233 Feb 19 09:37	22 3 20 20 24° 3 40'57	-4.9m		8235 Sep 22 00:22 8235 Oct 16 20:40	0 IIL 0° √	
greatest orimancy	8233 Mar 01 12:44	0°≈	- 4 .7III	desc. node	8235 Nov 03 12:38	21° × ⁷ 02'34	
morning max el	8233 Mar 30 23:04	25°≈17'25	46°52'05		8235 Nov 11 02:58	0°る	
Č	8233 Apr 04 13:35	0° ∀			8235 Dec 06 23:53	0° ≈	
	8233 May 01 20:44	0° Υ			8236 Jan 02 22:35	0°) €	
desc. node	8233 May 18 19:09	19° Ƴ 42'48		evening max el	8236 Jan 21 22:18	19°) 41′52	46°31'56
	8233 May 27 11:17	0°8			8236 Feb 01 19:20	0° Υ	
	8233 Jun 21 09:17	0° I		asc. node	8236 Feb 24 12:42	16° Y 57'30	
	8233 Jul 16 00:25	0.ಲ		greatest brilliancy	8236 Mar 02 02:13	19° Y 54'50	-4.9m
	8233 Aug 09 13:07	0° №		retrograde	8236 Mar 11 22:34	21° Y 44'05 16° Y 31'34	
asc. node	8233 Sep 03 00:47 8233 Sep 08 17:09	0° mp 58'07		evening set inferior conj	8236 Mar 28 07:49 8236 Apr 01 13:52	13° Y '57'35	7°58'05
asc. Houc	8233 Sep 08 17:09 8233 Sep 27 11:15	0∘ ʊ 0 ıli\2007		minimum elong	8236 Apr 01 04:04	13 γ 37 33 14° Υ 12'41	7°56'27
				violig			,

min. Earth dist.	8236 Apr 01 07:47	14° ℃ 06'58	0.27014 AU		8238 Oct 30 21:49	0° ∡ ¹	
morning rise	8236 Apr 05 00:20	11° Υ '52'12	0.27014 AC		8238 Nov 24 11:16	0°ਰ	
direct	8236 Apr 22 05:10	6° Υ 10'43		desc. node	8238 Dec 01 00:21	。。 7° ろ 57'53	
greatest brilliancy	8236 May 01 19:30	7° Υ ′55'08	-4.9m	desc. node	8238 Dec 19 04:18	0° ≈	
8	8236 Jun 02 10:58	0°8			8239 Jan 13 01:26	0° ∀	
morning max el	8236 Jun 11 13:33	8° 8 48'43	46°50'52		8239 Feb 07 05:04	0° Υ	
desc. node	8236 Jun 15 07:03	12° 8 35'29			8239 Mar 04 23:26	0°B	
	8236 Jul 01 15:50	0°II		asc. node	8239 Mar 23 23:53	21° 8 08'20	
	8236 Jul 28 04:32	$0 \circ \mathfrak{S}$			8239 Apr 01 09:30	0°II	
	8236 Aug 22 19:18	$0^{\circ}\Omega$		evening max el	8239 Apr 04 18:45	3° Ⅲ 27′20	47°00'16
	8236 Sep 16 23:43	0° m)		· ·	8239 May 06 01:29	0° ©	
asc. node	8236 Oct 06 05:18	23° m 09'05		greatest brilliancy	8239 May 15 08:10	4° © 34'57	-4.9m
	8236 Oct 11 21:06	0∘ 亚		retrograde	8239 May 25 09:08	6°€29'52	
	8236 Nov 05 12:29	0° M ₊		evening set	8239 Jun 10 21:09	1°512'02	
	8236 Nov 29 22:54	0° ∡ ¹			8239 Jun 12 21:43	30°RⅡ	
morning set	8236 Dec 09 00:22	11° ∡ 10'39		inferior conj	8239 Jun 15 05:11	28° Ⅲ 35′04	6°33'00
	8236 Dec 24 05:41	8°0		minimum elong	8239 Jun 15 16:09	28° Ⅲ 18′10	6°30'22
max. Earth dist.	8237 Jan 12 18:44	24° る 14'28	1.72401 AU	min. Earth dist.	8239 Jun 15 06:23	28° Ⅲ 33'13	0.27329 AU
				morning rise	8239 Jun 20 11:18	25° Ⅱ 26'51	
superior conj	8237 Jan 15 14:58	27° る 46'26	0°24'38	direct	8239 Jul 05 22:56	20° Ⅱ 45′00	
minimum elong	8237 Jan 15 20:35	28° る 03'53	0°24'31	desc. node	8239 Jul 13 18:42	21° Ⅱ 54'25	
	8237 Jan 17 09:57	0° ≈		greatest brilliancy	8239 Jul 15 19:42	22° Ⅲ 33'22	-4.8m
desc. node	8237 Jan 25 22:17	10° ≈ 35′14			8239 Jul 29 20:07	0 \circ	
	8237 Feb 10 12:10	0° ℋ		morning max el	8239 Aug 24 11:09	21° 5 47'21	46°06'36
evening rise	8237 Feb 23 20:39	16° ∺ 40′10			8239 Sep 01 17:07	0 \circ Ω	
	8237 Mar 06 12:34	0° Υ			8239 Sep 29 16:30	0° m)	
	8237 Mar 30 12:01	0°8			8239 Oct 25 23:55	0∘ ⊽	
	8237 Apr 23 12:38	Π °0		asc. node	8239 Nov 03 17:35	10° ≏ 12'42	
	8237 May 17 17:36	0			8239 Nov 20 10:26	0° M	
asc. node	8237 May 18 20:59	1° 5 24'19			8239 Dec 15 07:25	0° ∡	
	8237 Jun 11 06:59	0 ° Ω			8240 Jan 08 19:22	0°ප	
	8237 Jul 06 10:45	0° m)			8240 Feb 02 01:22	0° ≈	
	8237 Aug 01 17:06	0∘ ⊽	450 4510 6	morning set	8240 Feb 19 05:49	21°≈23'34	
evening max el	8237 Aug 27 20:06	27° Ω 19'42	45°4'/'36	desc. node	8240 Feb 23 10:22	26° ≈ 37'20	
	8237 Aug 30 14:53	0°M			8240 Feb 26 03:16	0° ∀ 0° Υ	
desc. node	8237 Sep 07 15:48	7°M20'41	4.7	may Earth dist	8240 Mar 21 02:04	10° Υ 14'12	1 71200 AU
greatest brilliancy	8237 Oct 05 16:56	25°M47'05 27°M38'58	-4.7m	max. Earth dist.	8240 Mar 29 05:42	10° 1 1412	1.71299 AU
retrograde	8237 Oct 15 19:54 8237 Nov 03 03:00	21°M24'54		aumorior coni	8240 Mar 30 18:36	12° Y 10′07	1014!10
evening set inferior conj	8237 Nov 06 09:11	19°M23'29	9026114	superior conj	8240 Mar 30 07:45	12 1 10 0 7	1°14'02
minimum elong	8237 Nov 06 10:51	19°M20'50	8°36'04	minimum elong	8240 Apr 13 22:59	0° 8	1 14 02
min. Earth dist.	8237 Nov 06 15:11	19°M 14'01	0.29127 AU		8240 May 07 19:48	0°II	
morning rise	8237 Nov 09 18:37	17°M 16'43	0.27127 AU	evening rise	8240 May 10 08:06	3° Ⅱ 09'16	
direct	8237 Nov 27 21:39	11°M04'51		evening rise	8240 May 31 18:42	0.20 0.20	
greatest brilliancy	8237 Dec 08 15:20	13°M10'02	-4.8m	asc. node	8240 Jun 15 08:50	18°9510'24	
asc. node	8237 Dec 29 15:24	26°M07'57			8240 Jun 24 21:44	0°N	
	8238 Jan 03 06:26	0° ⊼ 7			8240 Jul 19 06:47	0° m/y	
morning max el	8238 Jan 16 09:02	12° √ 10'48	46°07'07		8240 Aug 13 00:29	0∘ <u>⊽</u>	
Č	8238 Feb 02 12:35	ರ°0			8240 Sep 07 07:42	0° M .	
	8238 Mar 01 01:57	0° ≈			8240 Oct 03 14:18	0° ∡ ¹	
	8238 Mar 26 07:55	0° ∀		desc. node	8240 Oct 05 03:05	1° ∡ ¹42'00	
	8238 Apr 19 22:45	0° Υ			8240 Oct 31 21:06	ರ∘ರ	
desc. node	8238 Apr 20 08:51	0° Ƴ 31'04		evening max el	8240 Nov 07 05:07	6° る 11'20	45°47'52
	8238 May 14 05:34	0°8			8240 Dec 06 21:55	0° ≈	
	8238 Jun 07 08:41	$\Pi^{\circ}0$		greatest brilliancy	8240 Dec 16 11:27	4° ≈ 25'45	-4.8m
	8238 Jul 01 11:12	0 \circ		retrograde	8240 Dec 26 01:10	6° ≈ 05'40	
morning set	8238 Jul 21 12:05	24° © 53'30		evening set	8241 Jan 10 03:14	1° ≈ 40′29	
	8238 Jul 25 14:54	0 ° Ω			8241 Jan 13 00:57	30°Ŗる	
asc. node	8238 Aug 11 06:50	20° Ω 38'40		inferior conj	8241 Jan 16 00:04	28° る 11'07	
	8238 Aug 18 20:17	0° ™		minimum elong	8241 Jan 16 05:36	28° る 02'34	
				min. Earth dist.	8241 Jan 16 16:41	27° る 45'26	0.27746 AU
superior conj	8238 Aug 28 13:40	12° m 01'20	0°40'13	morning rise	8241 Jan 22 07:22	24° る 26'39	
minimum elong	8238 Aug 28 05:43	11° m 36'47		asc. node	8241 Jan 26 03:05	22° る 34'07	
max. Earth dist.	8238 Aug 30 04:56	14° TD 02'38	1.72998 AU	direct	8241 Feb 06 02:38	20°る07'53	4.0
	8238 Sep 12 03:08	0∘ ʊ		greatest brilliancy	8241 Feb 17 00:44	22° る 22'11	-4.8m
evening rise	8238 Oct 04 05:48	27° Ω 15'06			8241 Mar 02 13:37	0°≈ 220 57120	46050155
	8238 Oct 06 11:25	0°M₊		morning max el	8241 Mar 28 13:48	22° ≈ 57'39	46°50'55

	0241 4 04 00 55	001/			0242 D 06 14 01	00	
	8241 Apr 04 09:55	0°) €			8243 Dec 06 14:01	0° ≈	
	8241 May 01 12:12	0°Υ			8244 Jan 02 16:15	0° ∺	
desc. node	8241 May 17 21:13	19° Y ′07'22		evening max el	8244 Jan 19 10:43	17°) 17′45	46°30'12
	8241 May 27 00:46	0°8			8244 Feb 02 01:02	$0^{\circ}\mathbf{\Upsilon}$	
	8241 Jun 20 21:43	Π $^{\circ}0$		asc. node	8244 Feb 23 14:31	15° Ƴ 20'27	
	8241 Jul 15 12:11	0ಂ ತಾ		greatest brilliancy	8244 Feb 28 15:24	17° Ƴ 30'11	-4.9m
	8241 Aug 09 00:24	$\mathfrak{O}^{\circ}\mathfrak{O}$		retrograde	8244 Mar 09 10:49	19° Ƴ 19′01	
	8241 Sep 02 11:43	0° mp		evening set	8244 Mar 25 16:13	14° Y 12'50	
asc. node	8241 Sep 07 18:59	6° mp 30'23		inferior conj	8244 Mar 30 02:45	11° Y 32'40	7°45'23
	8241 Sep 26 21:57	0∘ <u>v</u>		minimum elong	8244 Mar 29 16:32	11° Υ 48'24	7°43'34
morning set	8241 Sep 29 05:41	2° Ω 51'19		min. Earth dist.	8244 Mar 29 21:08	11° Υ 41'19	0.27016 AU
morning sec	8241 Oct 21 06:49	0°M		morning rise	8244 Apr 02 16:48	9° Υ 21'59	0.27010710
max. Earth dist.	8241 Nov 04 05:47	17°M 12'24	1.73267 AU	direct	8244 Apr 19 17:31	3° Υ 45'19	
max. Earm uist.	6241 NOV 04 05.47	1/ 1161224	1.73207 AU		•		4.0
	024131 04 20 14	1.70 m	1005140	greatest brilliancy	8244 Apr 29 09:51	5° Y 31'13	-4.9m
superior conj	8241 Nov 04 20:14		1°25'48		8244 Jun 02 13:31	0° 8	
minimum elong	8241 Nov 04 21:23	18°M00'30	1°25'54	morning max el	8244 Jun 09 02:08	6° 8 22'58	46°51'56
	8241 Nov 14 14:39	0° ∡		desc. node	8244 Jun 14 09:05	11° 8 46'12	
	8241 Dec 08 22:09	0°₹			8244 Jul 01 09:03	Π $^{\circ}0$	
evening rise	8241 Dec 11 19:47	3° る 34'49			8244 Jul 27 18:38	0ಂ ತಾ	
desc. node	8241 Dec 28 12:17	24° る 10'20			8244 Aug 22 07:52	$0^{\circ}\Omega$	
	8242 Jan 02 05:39	0° ≈			8244 Sep 16 11:22	0° m)	
	8242 Jan 26 12:59	0° ∀		asc. node	8244 Oct 05 07:17	22° Mp 41'10	
	8242 Feb 19 20:20	$0^{\circ}\mathbf{Y}$			8244 Oct 11 08:12	0∘ ⊽	
	8242 Mar 16 05:23	0°8			8244 Nov 04 23:15	0° M .	
	8242 Apr 09 20:29	0°П			8244 Nov 29 09:28	0° ∡ ¹	
asc. node	8242 Apr 20 11:20	12° ∏ 45'11		morning set	8244 Dec 06 17:12	9° ∡ 101'53	
use. node	8242 May 05 01:49	0°95		morning sec	8244 Dec 23 16:11	0° ਰ	
	8242 May 31 14:41	$0^{\circ}\Omega$		max. Earth dist.	8245 Jan 10 12:34	22°ろ08'06	1.72441 AU
evening max el	8242 Jun 15 20:32	15° Ω 55'19	46021110	max. Earth dist.	6243 Jan 10 12.34	22 008 00	1.72441 AU
evening max er			40 31 16		9245 I 12 05.51	250=20151	0020101
4 41 711	8242 Jun 30 22:40	0°M)	4.0	superior conj	8245 Jan 13 05:51	25° る 30'51	0°28'01
greatest brilliancy	8242 Jul 24 15:58	15° m/36'30	-4.8m	minimum elong	8245 Jan 13 12:07	25° る 50'21	0°27'52
retrograde	8242 Aug 04 19:29	17° TD 52'59			8245 Jan 16 20:29	0° ≈	
desc. node	8242 Aug 10 06:19	17° m 17'04		desc. node	8245 Jan 25 00:12	10°≈08'25	
evening set	8242 Aug 19 22:28	13° m 24'30			8245 Feb 09 22:47	0° ∀	
min. Earth dist.	8242 Aug 25 09:53		0.28381 AU	evening rise	8245 Feb 21 10:03	14°) 18′50	
inferior conj	8242 Aug 26 03:04	9° ™ 41'05	-3°46'22		8245 Mar 05 23:18	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	8242 Aug 25 19:18	9° ™ 53'12	3°44'18		8245 Mar 29 22:56	9° 8	
morning rise	8242 Aug 31 16:50	6° Mp 20′02			8245 Apr 22 23:48	Π $\circ 0$	
direct	8242 Sep 16 09:59	1° m 37'39			8245 May 17 05:10	0ං වෙ	
greatest brilliancy	8242 Sep 26 01:39	3° m 19'10	-4.7m	asc. node	8245 May 17 23:02	0° © 54'59	
	8242 Nov 02 15:56	0∘ ⊽			8245 Jun 10 19:11	$0^{\circ}\Omega$	
morning max el	8242 Nov 04 02:06	1° ≏ 21'14	45°41'21		8245 Jul 06 00:05	0° m)	
asc. node	8242 Dec 01 05:40	29° ₽ 24'53			8245 Aug 01 08:54	0∘ ত	
	8242 Dec 01 18:29	0° M		evening max el	8245 Aug 25 10:52	25° ≏ 06'20	45°48'40
	8242 Dec 28 05:33	0° ∡ ¹		Č	8245 Aug 30 14:20	0° M .	
	8243 Jan 22 12:41	0°ਰ		desc. node	8245 Sep 06 17:44	6°M24'16	
	8243 Feb 16 04:47	0° ≈		greatest brilliancy	8245 Oct 03 07:08	23°M36'15	-4 7m
	8243 Mar 12 12:03	0°) €		retrograde	8245 Oct 13 12:17	25°M30'13	,
desc. node	8243 Mar 22 22:35	12°) 58'44		evening set	8245 Oct 31 18:54	19° M .15'44	
desc. node	8243 Apr 05 13:49	0°Υ		inferior conj	8245 Nov 04 01:21	17°ML14'01	0027122
		0°8				17°ML12'35	
	8243 Apr 29 12:21			minimum elong	8245 Nov 04 02:16		
morning set	8243 May 06 07:34	8° 8 32'21		min. Earth dist.	8245 Nov 04 06:01	17°ML06'41	0.29143 AU
	8243 May 23 09:49	$\Pi^{\circ}0$		morning rise	8245 Nov 07 09:34	15°M09'21	
		—		direct	8245 Nov 25 13:49	8°M55'15	
superior conj	8243 Jun 15 08:32	28° ∏ 45'47		greatest brilliancy	8245 Dec 06 06:53	11° M 00'04	-4.8m
minimum elong	8243 Jun 15 19:53	29° Ⅱ 21'16	1°02'09	asc. node	8245 Dec 28 17:23	25°M06'19	
	8243 Jun 16 08:16	0			8246 Jan 03 10:11	0° ∡ 7	
max. Earth dist.	8243 Jun 18 18:42	3° 5 02'41	1.71738 AU	morning max el	8246 Jan 14 01:07	9° ∡ 759'12	46°05'47
	8243 Jul 10 09:16	$0^{\circ}\Omega$			8246 Feb 02 05:22	0°₹	
asc. node	8243 Jul 13 20:42	4° Ω 19′24			8246 Feb 28 15:42	0° ≈	
evening rise	8243 Jul 24 17:44	17° Ω 49'36			8246 Mar 25 20:20	0° ∀	
	8243 Aug 03 13:39	0° m		desc. node	8246 Apr 19 10:58	0° Υ 01'34	
	8243 Aug 27 22:01	0∘ ⊽			8246 Apr 19 10:27	0° Υ	
	8243 Sep 21 11:30	0° M			8246 May 13 16:50	8°	
	8243 Oct 16 08:17	0° ∡ ″			8246 Jun 06 19:40	Π°	
desc. node	8243 Nov 02 14:41	20° ∡ ³32'39			8246 Jun 30 21:59	0ං ම	
	8243 Nov 10 15:28	0°8		morning set	8246 Jul 19 02:48	22°937'02	
		=		<i>5</i>		- ,	

	8246 Jul 25 01:33	0 \circ Ω		evening set	8249 Jan 07 19:37	29° る 20'43	
asc. node	8246 Aug 10 08:43	20° Ω 11'48		inferior conj	8249 Jan 13 14:26	25° る 53'43	
	8246 Aug 18 06:50	0° m)		minimum elong	8249 Jan 13 20:39	25° る 44'04	2°49'59
				min. Earth dist.	8249 Jan 14 07:40	25° る 26'58	0.27798 AU
superior conj	8246 Aug 26 05:47	9° m 50′21	0°37'10	morning rise	8249 Jan 19 21:05	22° る 09'36	
minimum elong	8246 Aug 25 22:16	9° m 27′08	0°36'46	asc. node	8249 Jan 25 04:59	19° る 40'00	
max. Earth dist.	8246 Aug 27 23:01	11° m 57'47	1.72970 AU	direct	8249 Feb 03 17:35	17° る 49'51	
	8246 Sep 11 13:37	0∘ ⊽		greatest brilliancy	8249 Feb 14 16:02	20° る 03'59	-4 8m
evening rise	8246 Oct 01 23:15	25° Ω 08'45		greatest stilliane,	8249 Mar 03 07:44	0° ≈	
evening rise	8246 Oct 05 21:56	0°M		morning max el	8249 Mar 26 03:38	20°≈36'01	46°49'48
		0° 17⊓ 0° 27⊓		morning max er		20 ≈ 3001 0° ∺	40 49 40
	8246 Oct 30 08:31				8249 Apr 04 05:27		
	8246 Nov 23 22:18	0°る			8249 May 01 03:16	0° Υ	
desc. node	8246 Nov 30 02:23	7° る 30'15		desc. node	8249 May 16 23:10	18° Ƴ 32'24	
	8246 Dec 18 15:50	0° ≈			8249 May 26 13:58	0° 8	
	8247 Jan 12 13:43	0° ∀			8249 Jun 20 09:53	$\Pi^{\circ}0$	
	8247 Feb 06 18:31	0° Y			8249 Jul 14 23:42	0 \circ \odot	
	8247 Mar 04 15:04	$8^{\circ 0}$			8249 Aug 08 11:29	$0^{\circ}\Omega$	
asc. node	8247 Mar 23 01:57	20° 8 23'25			8249 Sep 01 22:29	0° m)	
	8247 Apr 01 06:47	$\Pi^{\circ}0$		asc. node	8249 Sep 06 20:58	6° m 03'34	
evening max el	8247 Apr 02 09:18	1° Ⅱ 07'11	47°00'24		8249 Sep 26 08:33	0∘ <u>⊽</u>	
o ronning man or	8247 May 07 20:37	0.ಪ	., 002.	morning set	8249 Sep 26 22:49	ი° ഫ 43'53	
greatest brilliancy	8247 May 12 21:53	2° © 12'52	-4.9m	morning sec	8249 Oct 20 17:21	0° ™	
	•		-4.7111	max. Earth dist.			1 72270 ATT
retrograde	8247 May 22 23:33	4°508'10		max. Earth dist.	8249 Nov 01 23:13	15°M05'39	1.73278 AU
	8247 Jun 06 08:56	30°RⅡ					
evening set	8247 Jun 08 14:12	28° ∏ 45'19		superior conj	8249 Nov 02 13:53	15° M 50'54	
inferior conj	8247 Jun 12 18:41	26° Ⅱ 13'26	6°49'09	minimum elong	8249 Nov 02 14:19	15°M52'13	1°26'03
minimum elong	8247 Jun 13 05:40	25° Ⅱ 56'33	6°46'37		8249 Nov 14 01:14	0° ∡ ¹	
min. Earth dist.	8247 Jun 12 19:38	26° Ⅱ 11'58	0.27315 AU		8249 Dec 08 08:50	0° ರ	
morning rise	8247 Jun 17 21:19	23° Ⅱ 10′28		evening rise	8249 Dec 09 11:49	1° る 23'12	
direct	8247 Jul 03 12:48	18° Ⅲ 23'41		desc. node	8249 Dec 27 14:08	23° る 42'39	
desc. node	8247 Jul 12 20:40	20° Ⅱ 01'34			8250 Jan 01 16:31	0° ≈	
greatest brilliancy	8247 Jul 13 08:08	20° Ⅱ 11′23	-4 8m		8250 Jan 26 00:08	0°) €	
<i>B. v</i> v	8247 Jul 30 16:27	0°50			8250 Feb 19 07:53	0° Υ	
morning max el	8247 Aug 22 02:24	19° © 32'42	46°07'58		8250 Mar 15 17:30	0°8	
morning max cr	8247 Sep 01 12:44	0°Ω	40 07 30		8250 Apr 09 09:25	0°II	
	•			4-	•	0 <u>H</u> 12° ∐ 11'14	
	8247 Sep 29 07:17	0° m		asc. node	8250 Apr 19 13:23		
	8247 Oct 25 12:40	0∘ ⊽			8250 May 04 16:15	0°©	
asc. node	8247 Nov 02 19:38	9° ≏ 42'26			8250 May 31 08:33	0 \circ Ω	
	8247 Nov 19 22:09	0°M₊		evening max el	8250 Jun 13 11:05	13° Ω 37′20	46°32'58
	8247 Dec 14 18:34	0° ∡ ¹			8250 Jul 01 06:18	0° m)	
	8248 Jan 08 06:14	0°ප		greatest brilliancy	8250 Jul 22 08:57	13° m 24'31	-4.8m
	8248 Feb 01 12:08	0° ≈		retrograde	8250 Aug 02 10:52	15° m 39'53	
morning set	8248 Feb 16 18:28	19° ≈ 00'01		desc. node	8250 Aug 09 08:15	14° m 42'33	
desc. node	8248 Feb 22 12:16	26°≈09'51		evening set	8250 Aug 17 12:54	11° Mp 13'36	
	8248 Feb 25 13:58	0° ∀		min. Earth dist.	8250 Aug 23 02:00	7° m 54'46	0.28331 AU
	8248 Mar 20 12:45	$0^{\circ}\Upsilon$		inferior conj	8250 Aug 23 18:38	7° m) 28'47	
max. Earth dist.	8248 Mar 26 13:38		1.71313 AU	minimum elong	8250 Aug 23 11:23	7° Mp 40'06	
max. Latin dist.	0240 War 20 13.30	7 13440	1.71313710	morning rise	8250 Aug 29 10:31	4° m) 04'34	3 23 27
superior coni	9249 Mar 29 05:47	9° Ƴ 40'51	1°12'07	morning rise	•	30°RΩ	
superior conj	8248 Mar 28 05:47	9° Υ 05'36		dimont	8250 Sep 08 15:56		
minimum elong	8248 Mar 27 18:33		1°11′49	direct	8250 Sep 14 00:44	29° Ω 26'04	
	8248 Apr 13 09:40	0° 8			8250 Sep 19 12:51	0° m)	4.7
	8248 May 07 06:31	Π $^{\circ}0$		greatest brilliancy	8250 Sep 23 16:58	1° m)07'38	-4.7m
evening rise	8248 May 07 19:01	0°Ⅱ39′16		morning max el	8250 Nov 01 15:55	29° Mg 06'07	45°41'18
	8248 May 31 05:29	0			8250 Nov 02 14:23	0∘ ಹ	
asc. node	8248 Jun 14 10:45	17° © 42'39		asc. node	8250 Nov 30 07:36	28° ≙ 47'15	
	8248 Jun 24 08:40	$0 {\circ} \Omega$			8250 Dec 01 10:03	0° M	
	8248 Jul 18 18:00	0° m			8250 Dec 27 18:48	0° ∡ ¹	
	8248 Aug 12 12:16	0∘ ⊽			8251 Jan 22 00:51	ರ°0	
	8248 Sep 06 20:32	0°M			8251 Feb 15 16:22	0° ≈	
	8248 Oct 03 05:18	0° ∡ 7			8251 Mar 11 23:20	0° \	
desc. node	8248 Oct 04 05:10	1° ∡ *05'53		desc. node	8251 Mar 22 00:39	12° ∺ 30'18	
Lebe. House	8248 Oct 31 17:51	0°る		acce. noue	8251 Apr 05 00:55	0° Υ	
avaning may al		0 3 3° る 58'19	15016155		•	0°8	
evening max el	8248 Nov 04 20:09		45°46'55	mannint	8251 Apr 28 23:21		
, . 4 1911	8248 Dec 08 18:37	0°≈	4.0	morning set	8251 May 03 18:12	6° 8 00'36	
greatest brilliancy	8248 Dec 14 01:55	2°≈09'49	-4.8m		8251 May 22 20:44	Π $\circ 0$	
retrograde	8248 Dec 23 14:45	3°≈48'43					400 5:- :
	8249 Jan 06 14:15	30°Ŗる		superior conj	8251 Jun 12 20:57	26° Ⅲ 20'31	-1°05'01

minimum elong	8251 Jun 13 08:18	26° Ⅲ 56′03	1°04'48	asc. node	8253 Dec 27 19:18	24°ML05'17	
	8251 Jun 15 19:07	0 \circ \odot			8254 Jan 03 12:38	0° ∡ ¹	
max. Earth dist.	8251 Jun 16 03:28	0° 5 26'08	1.71692 AU	morning max el	8254 Jan 11 17:33	7° ∡ ¹47'48	46°04'13
	8251 Jul 09 20:05	0 $^{\circ}\Omega$			8254 Feb 01 22:12	0°రె	
asc. node	8251 Jul 12 22:37	3° £ 51′45			8254 Feb 28 05:46	0° ≈	
evening rise	8251 Jul 22 08:22	15° Ω 32'35			8254 Mar 25 09:11	0°) €	
	8251 Aug 03 00:30	0° mp		desc. node	8254 Apr 18 12:56	29° ∺ 30′12	
	8251 Aug 27 08:59	0。 ত			8254 Apr 18 22:37	0 ° Υ	
	8251 Sep 20 22:45	0°M			8254 May 13 04:33	0°8	
	8251 Oct 15 20:05	0°⊀			8254 Jun 06 07:04	Π $^{\circ}0$	
desc. node	8251 Nov 01 16:41	20° х 01′53			8254 Jun 30 09:10	0 \circ	
	8251 Nov 10 04:16	0°ಕ		morning set	8254 Jul 16 17:26	20° © 19'11	
	8251 Dec 06 04:38	0° ≈			8254 Jul 24 12:33	$0 {\circ} \Omega$	
	8252 Jan 02 10:47	0° ∀		asc. node	8254 Aug 09 10:43	19° Ω 44'16	
evening max el	8252 Jan 16 23:23	14° ¥ 53′22	46°28'32		8254 Aug 17 17:44	0° m)	
	8252 Feb 02 09:41	0° Υ					
asc. node	8252 Feb 22 16:37	13° Ƴ 38'47		superior conj	8254 Aug 23 21:55	7°Mp38'16	0°34'05
greatest brilliancy	8252 Feb 26 04:08	15° Y 03′50	-4.9m	minimum elong	8254 Aug 23 14:54	7° Mp 16'32	
retrograde	8252 Mar 06 23:28	16° Y 52'55		max. Earth dist.	8254 Aug 25 18:46	•	1.72939 AU
evening set	8252 Mar 23 00:34	11° Y 52'38			8254 Sep 11 00:28	0∘ ⊽	
inferior conj	8252 Mar 27 15:30	9° Y 06'31	7°31'46	evening rise	8254 Sep 29 16:55	23° ჲ 01'56	
minimum elong	8252 Mar 27 04:55	9° Y 22'46	7°29'47		8254 Oct 05 08:50	0°M₊	
min. Earth dist.	8252 Mar 27 10:10	9° Ƴ 14'44	0.27015 AU		8254 Oct 29 19:35	0°⊀	
morning rise	8252 Mar 31 09:13	6° Y 50'40			8254 Nov 23 09:41	0°ප	
direct	8252 Apr 17 06:02	1° Y 18'43		desc. node	8254 Nov 29 04:18	7° る 01'11	
greatest brilliancy	8252 Apr 26 23:46	3° Y 06′00	-4.9m		8254 Dec 18 03:45	0° ≈	
	8252 Jun 02 14:56	0°8			8255 Jan 12 02:25	0° ∀	
morning max el	8252 Jun 06 15:34	3° 8 58'41	46°53'01		8255 Feb 06 08:29	0° Υ	
desc. node	8252 Jun 13 11:02	10° 8 56'55			8255 Mar 04 07:30	0°8	
	8252 Jul 01 02:08	Π °0		asc. node	8255 Mar 22 03:57	19° 8 35'52	
	8252 Jul 27 08:49	0°€		evening max el	8255 Mar 31 00:10	28° 8 45'55	47°00'12
	8252 Aug 21 20:35	0 ° Ω			8255 Apr 01 05:39	Π $^{\circ}0$	
	8252 Sep 15 23:13	0° m		greatest brilliancy	8255 May 10 11:55	29° ∏ 48'54	-4.9m
asc. node	8252 Oct 04 09:20	22° m 12'51			8255 May 11 00:25	0°50	
	8252 Oct 10 19:30	0∘ ⊽		retrograde	8255 May 20 13:42	1°5543'43	
	8252 Nov 04 10:13	0°M			8255 May 29 17:31	30°R∏	
	8252 Nov 28 20:17	0° ∡ 7		evening set	8255 Jun 06 07:08	26° Ⅱ 16'13	
morning set	8252 Dec 04 10:12	6° ₹ 52'49		inferior conj	8255 Jun 10 07:59	23° ∏ 49'24	7°04'42
	8252 Dec 23 03:00	0°る		minimum elong	8255 Jun 10 18:51	23° Ⅲ 32'40	
max. Earth dist.	8253 Jan 08 07:12	20° 6 03'15	1.72487 AU	min. Earth dist.	8255 Jun 10 08:43		0.27296 AU
				morning rise	8255 Jun 15 06:48	20° ∏ 51'50	
superior conj	8253 Jan 10 20:38	23°る13'57		direct	8255 Jul 01 02:23	16° Ⅱ 00'14	
minimum elong	8253 Jan 11 03:32	23° る 35'21	0°31'11	greatest brilliancy	8255 Jul 10 20:08		-4.8m
	8253 Jan 16 07:22	0° ≈		desc. node	8255 Jul 11 22:38	18° Ⅱ 11'02	
desc. node	8253 Jan 24 02:11	9° ≈ 40'39			8255 Jul 31 08:21	0.2	
	8253 Feb 09 09:48	0°) (morning max el	8255 Aug 19 16:47	17° © 14'29	46°09'27
evening rise	8253 Feb 18 23:09	11°) 55'24			8255 Sep 01 08:14	$\Omega^{\circ}\Omega$	
	8253 Mar 05 10:27	0° Υ			8255 Sep 28 22:15	0° m/	
	8253 Mar 29 10:15	0° B		,	8255 Oct 25 01:41	0∘ ⊽	
	8253 Apr 22 11:21	0° ∏		asc. node	8255 Nov 01 21:28	9° Ω 10'35	
,	8253 May 16 17:06	0°95			8255 Nov 19 10:09	0°M 0°. ₹	
asc. node	8253 May 17 00:57	0° © 24'09			8255 Dec 14 06:02	0° ₹	
	8253 Jun 10 07:46	$\Omega^{\circ}\Omega$			8256 Jan 07 17:25	5°0	
	8253 Jul 05 13:51	0° m/			8256 Jan 31 23:11	0° ≈	
	8253 Aug 01 01:18	0° ⊽	45040140	morning set	8256 Feb 14 07:38	16°≈37'08	
evening max el	8253 Aug 23 02:45	22° £ 54'47	45°49'49	desc. node	8256 Feb 21 14:22	25°≈42'03	
daga rada	8253 Aug 30 15:18	0°M 5°M 26/12			8256 Feb 25 00:58	0° Υ	
desc. node	8253 Sep 05 19:53	5°M26'12	4.7	may Earth 3:-4	8256 Mar 19 23:46	0°γ' 4° Υ 48'38	1 71220 411
greatest brilliancy	8253 Sep 30 21:19	21°M24'53	-4./m	max. Earth dist.	8256 Mar 23 19:45	4 1 48 38	1.71339 AU
retrograde	8253 Oct 11 05:08	23°M20'54		gunariar aa	9256 Mar 25 17:00	7° Υ 11'05	1000140
evening set	8253 Oct 29 10:35	17°M06'45	0027144	superior conj	8256 Mar 25 17:08	6° Υ 35'03	
inferior conj	8253 Nov 01 17:39	15°M04'05		minimum elong	8256 Mar 25 05:39		1 09 29
minimum elong	8253 Nov 01 17:47	15°M03'52	8°37'37	ovenina ria-	8256 Apr 12 20:45	0°8	
min. Earth dist.	8253 Nov 01 20:40	14°M 59'21	0.29155 AU	evening rise	8256 May 05 05:37	28° ႘ 06'49 0°Ⅱ	
morning rise	8253 Nov 05 00:58	13°M00'57			8256 May 06 17:40	0₀ © 0∘П	
direct greatest brilliancy	8253 Nov 23 06:30 8253 Dec 03 21:47	6°M45'26 8°M48'58	1 8m	asc. node	8256 May 30 16:44 8256 Jun 13 12:40	17°ഇ13'28	
greatest orillaticy	0233 DEC U3 21.4/	0 1164030	-4.0III	asc. Hour	0230 Juli 13 12.40	1/ 2013/28	

	8256 Jun 23 20:03	$0 {\circ} \Omega$			8258 Dec 01 01:29	0° M	
	8256 Jul 18 05:41	0° m p			8258 Dec 27 07:58	0° ∡ ¹	
	8256 Aug 12 00:29	0∘ ত			8259 Jan 21 12:58	ರ°0	
	8256 Sep 06 09:50	0° M.			8259 Feb 15 03:57	0° ≈	
	8256 Oct 02 20:54	0° ∡ ¹			8259 Mar 11 10:36	0° ℋ	
desc. node	8256 Oct 03 07:07	0° ∡ ¹28'06		desc. node	8259 Mar 21 02:35	12° ℋ 01'28	
	8256 Oct 31 15:42	0°రె			8259 Apr 04 12:01	0 ° $\mathbf{\Upsilon}$	
evening max el	8256 Nov 02 10:34	1° る 43'06	45°46'04		8259 Apr 28 10:18	0° ႘	
greatest brilliancy	8256 Dec 11 17:06	29° る 54'32	-4.8m	morning set	8259 May 01 05:11	3° 8 29'59	
· ·	8256 Dec 11 23:48	0° ≈		C	8259 May 22 07:35	0°II	
retrograde	8256 Dec 21 04:20	1°≈32'12					
2011-08-11-11	8256 Dec 29 23:52	30°R₹		superior conj	8259 Jun 10 09:33	23° II 55'55	-1°07'30
evening set	8257 Jan 05 12:22	27° る 01'02		minimum elong	8259 Jun 10 20:51	24° ∏ 31'15	
inferior conj	8257 Jan 11 05:08	23° る 36'49	-3°12'27	max. Earth dist.	8259 Jun 13 11:22		1.71653 AU
minimum elong	8257 Jan 11 11:59	23° る 26'09	3°10'18	max. Earth dist.	8259 Jun 15 05:55	0°ඉ	1.71033710
min. Earth dist.	8257 Jan 11 23:16	23° る 08'38	0.27850 AU		8259 Jul 09 06:53	$0 {\circ} \Omega$	
morning rise	8257 Jan 17 10:54	19° る 53'18	0.27030710	asc. node	8259 Jul 12 00:41	3° Ω 24'35	
asc. node	8257 Jan 24 07:01	16°පි51'03		evening rise	8259 Jul 19 22:59	13°Ω15'27	
direct	8257 Feb 01 08:20	16 3 3103		evening rise	8259 Aug 02 11:22	0° m)	
greatest brilliancy	8257 Feb 01 08:20 8257 Feb 12 08:02	13 3 3209	-4.8m		8259 Aug 26 20:00	0∘ ত رااا	
greatest brilliancy		17 04049 0°≈	-4.0111			0° m	
	8257 Mar 03 21:18		46040127		8259 Sep 20 10:04		
morning max el	8257 Mar 23 17:10	18°≈13'14	46°48'3/		8259 Oct 15 07:56	0° ∡ 7	
	8257 Apr 04 00:35	0°) €		desc. node	8259 Oct 31 18:35	19° ₹ 30'46	
	8257 Apr 30 18:22	0°Υ			8259 Nov 09 17:06	ව°0 0°	
desc. node	8257 May 16 01:05	17° Y 56'45			8259 Dec 05 19:21	0° ≈	
	8257 May 26 03:21	0° 8			8260 Jan 02 05:41	0° ∀	
	8257 Jun 19 22:21	0° Ⅱ		evening max el	8260 Jan 14 13:05	12°) 32′13	46°26'57
	8257 Jul 14 11:33	0°©			8260 Feb 02 21:04	0° Υ	
	8257 Aug 07 22:52	0 $^{\circ}$ Ω		asc. node	8260 Feb 21 18:38	11° Y 53'46	
	8257 Sep 01 09:33	0°Щ		greatest brilliancy	8260 Feb 23 16:28	12° Y 37'51	-4.9m
asc. node	8257 Sep 05 23:01	5°₩35'59		retrograde	8260 Mar 04 12:46	14° Y 27'43	
morning set	8257 Sep 24 15:45	28° Mp 34'55		evening set	8260 Mar 20 09:13	9° Ƴ 33'00	
	8257 Sep 25 19:24	0₀ ⊽		inferior conj	8260 Mar 25 04:22	6° Ƴ 41'08	7°17'23
	8257 Oct 20 04:07	0°M₊		minimum elong	8260 Mar 24 17:31	6° Ƴ 57'46	7°15'13
max. Earth dist.	8257 Oct 30 16:39	12°M58'21	1.73288 AU	min. Earth dist.	8260 Mar 24 23:03	6° Ƴ 49'17	0.27014 AU
				morning rise	8260 Mar 29 01:46	4° Y 20'11	
superior conj	8257 Oct 31 07:34	13°M44'20	1°25'56		8260 Apr 07 10:52	30° ₹ ₩	
minimum elong	8257 Oct 31 07:18	13°M43'28	1°26'04	direct	8260 Apr 14 19:09	28°) 53′03	
	8257 Nov 13 12:00	0° ∡ ¹			8260 Apr 22 09:46	0 ° $\mathbf{\Upsilon}$	
evening rise	8257 Dec 07 04:07	29° ⋌ 11'53		greatest brilliancy	8260 Apr 24 13:18	0° Ƴ 41'09	-4.9m
	8257 Dec 07 19:43	o°S			8260 Jun 02 14:49	9° 8	
desc. node	8257 Dec 26 16:08	23° る 14'53		morning max el	8260 Jun 04 06:04	1° 8 37'50	46°54'04
	8258 Jan 01 03:35	0° ≈		desc. node	8260 Jun 12 13:02	10° 8 09'19	
	8258 Jan 25 11:29	0°) €			8260 Jun 30 18:36	$\Pi^{\circ}0$	
	8258 Feb 18 19:36	$0^{\circ}\mathbf{\Upsilon}$			8260 Jul 26 22:37	0 \circ \odot	
	8258 Mar 15 05:44	8°			8260 Aug 21 09:02	$0^{\circ}\Omega$	
	8258 Apr 08 22:32	$\Pi^{\circ}0$			8260 Sep 15 10:53	0° m	
asc. node	8258 Apr 18 15:17	11° Ⅲ 36′17		asc. node	8260 Oct 03 11:11	21° m 44'20	
	8258 May 04 06:59	0°€			8260 Oct 10 06:40	0∘ ⊽	
	8258 May 31 03:06	$0^{\circ}\Omega$			8260 Nov 03 21:04	0° M ₊	
evening max el	8258 Jun 11 00:59	11° Ω 16'57	46°34'24		8260 Nov 28 06:58	0° ∡ ¹	
C	8258 Jul 01 17:18	0° m		morning set	8260 Dec 02 03:07	4° ҂ 744'07	
greatest brilliancy	8258 Jul 20 01:32	11° m 10'36	-4.8m	Č	8260 Dec 22 13:37	0° ರ	
retrograde	8258 Jul 31 02:07	13° m)25'19		max. Earth dist.	8261 Jan 06 01:32		1.72526 AU
desc. node	8258 Aug 08 10:22	12° mp 01'15					
evening set	8258 Aug 15 03:13	9° m 00'42		superior conj	8261 Jan 08 11:26	20° る 57'48	0°34'37
inferior conj	8258 Aug 21 09:57	5° mp 14'58	-3°08'00	minimum elong	8261 Jan 08 18:54	21° る 20'57	
minimum elong	8258 Aug 21 03:17	5° m 25'23			8261 Jan 15 18:02	0°≈	-
min. Earth dist.	8258 Aug 20 18:02		0.28283 AU	desc. node	8261 Jan 23 04:12	9° ≈ 13'41	
morning rise	8258 Aug 27 03:55	1°Mp47'51	5.20205 110	acco. node	8261 Feb 08 20:35	0° ∺	
	8258 Aug 30 16:42	30°RΩ		evening rise	8261 Feb 16 12:22	9° ∺ 33'07	
direct	8258 Sep 11 14:57	27° Ω 12'47		Croning rise	8261 Mar 04 21:23	9 γ 33 07	
greatest brilliancy	8258 Sep 21 08:28	28° Ω 55'06	-4 7m		8261 Mar 28 21:21	0°8	
51 carest offinality	8258 Sep 24 05:05	0° m	1.,111		8261 Apr 21 22:42	0°II	
morning max el	8258 Oct 30 06:14	26° Mp 51'34	45°41'30	asc. node	8261 May 16 02:55	29° ∏ 54'11	
morning max or		ე∘ <u>ი</u>	15 11 50	ase. Houe	8261 May 16 04:49	0°9	
	8258 Nov 02 12:11						
asc. node	8258 Nov 02 12:11 8258 Nov 29 09:36	0 <u>≈</u> 28° Ω 09'46			8261 Jun 09 20:07	$0 {\circ} \Omega$	

	8261 Jul 05 03:25	0° m)		desc. node	8264 Feb 20 16:16	25° ≈ 14'40	
	8261 Jul 31 17:39	0∘ ಹ		dese. node	8264 Feb 24 11:39	0° ∀	
evening max el	8261 Aug 20 19:16	20° £ 45'39	45°50'48		8264 Mar 19 10:26	0° Υ	
<i>y</i>	8261 Aug 30 17:16	0° M ,		max. Earth dist.	8264 Mar 21 00:27	1° Y ′59'16	1.71362 AU
desc. node	8261 Sep 04 21:46	4°ML27'04					
greatest brilliancy	8261 Sep 28 11:41	19°ML14'23	-4.7m	superior conj	8264 Mar 23 04:19	4° Y 42'01	-1°07'21
retrograde	8261 Oct 08 21:40	21°ML11'54		minimum elong	8264 Mar 22 16:39	4° Y ′05'25	1°06'59
evening set	8261 Oct 27 01:55	14°M58'52			8264 Apr 12 07:27	9° 8	
inferior conj	8261 Oct 30 09:53	12°M54'41	-8°37'27	evening rise	8264 May 02 16:07	25° 8 35'19	
minimum elong	8261 Oct 30 09:14	12°M55'41	8°37'20		8264 May 06 04:26	Π $\circ 0$	
min. Earth dist.	8261 Oct 30 11:15	12°M52'31	0.29164 AU		8264 May 30 03:36	0 \circ	
morning rise	8261 Nov 02 16:34	10°M52'30		asc. node	8264 Jun 12 14:44	16° © 45'56	
direct	8261 Nov 20 23:20	4°M36'20			8264 Jun 23 07:05	0 \circ Ω	
greatest brilliancy	8261 Dec 01 12:15	6°M37'55	-4.7m		8264 Jul 17 17:00	0° ™	
asc. node	8261 Dec 26 21:22	23°M06'37			8264 Aug 11 12:23	0∘ ⊽	
	8262 Jan 03 13:25	0°⊀ ⁷	4.600.014.0		8264 Sep 05 22:50	0°M	
morning max el	8262 Jan 09 09:40	5° ∡ 36'29	46°02'43	desc. node	8264 Oct 02 09:05	29°M51'17	
	8262 Feb 01 14:25	5°0			8264 Oct 02 12:16	0° ✓ 27001	45045114
	8262 Feb 27 19:22	0° ≈ 0° ∀		evening max el	8264 Oct 31 00:05	29°メ27'01 0°る	45°45'14
desc. node	8262 Mar 24 21:35 8262 Apr 17 14:47	0°π 28° ∺ 59'44		aractast brillianav	8264 Oct 31 13:55 8264 Dec 09 07:54	0°る 27° る 39'50	-4.8m
desc. node	8262 Apr 18 10:21	28 π 3944 0° Υ		greatest brilliancy retrograde	8264 Dec 18 17:48	27 3 3930 29° る 16'48	-4.6111
	8262 May 12 15:52	0°8		evening set	8265 Jan 03 05:06	29 3 1048 24° 3 41'49	
	8262 Jun 05 18:06	0°II		inferior conj	8265 Jan 08 19:44	24 84149 21° る 20'42	-3°32'35
	8262 Jun 29 19:58	0°©		minimum elong	8265 Jan 09 03:10	21° ろ 09'08	
morning set	8262 Jul 14 08:16	18° © 03'01		min. Earth dist.	8265 Jan 09 14:52	20°る50'58	0.27910 AU
morning sec	8262 Jul 23 23:12	0°Ω		morning rise	8265 Jan 15 00:28	17° る 38'14	0.27710110
asc. node	8262 Aug 08 12:43	19° Ω 17'49		asc. node	8265 Jan 23 09:02	14° る 07'39	
	8262 Aug 17 04:14	0° m)		direct	8265 Jan 29 22:54	13° る 14'55	
	C	•		greatest brilliancy	8265 Feb 10 00:34	15° る 31'01	-4.8m
superior conj	8262 Aug 21 14:12	5° m 27'44	0°30'56		8265 Mar 04 07:06	0° ≈	
minimum elong	8262 Aug 21 07:42	5° ™ 07'38	0°30'33	morning max el	8265 Mar 21 07:00	15° ≈ 51'52	46°47'30
max. Earth dist.	8262 Aug 23 15:40	8° m 00'41	1.72906 AU		8265 Apr 03 18:58	0° ∀	
	8262 Sep 10 10:56	0∘ 亚			8265 Apr 30 08:59	0° Y	
evening rise	8262 Sep 27 10:41	20° ≏ 56'29		desc. node	8265 May 15 03:09	17° Y °22'45	
	8262 Oct 04 19:22	0° M			8265 May 25 16:18	9° 8	
	8262 Oct 29 06:20	0° ∡ ¹			8265 Jun 19 10:23	Π °0	
	8262 Nov 22 20:48	0°ಕ			8265 Jul 13 22:59	0ಂ ತಾ	
desc. node	8262 Nov 28 06:18	6° る 33'17			8265 Aug 07 09:53	0 ° Ω	
	8262 Dec 17 15:23	0° ≈			8265 Aug 31 20:17	0° m)	
	8263 Jan 11 14:50	0° ∀		asc. node	8265 Sep 05 00:51	5° Mp 08'50	
	8263 Feb 05 22:14	0° Υ		morning set	8265 Sep 22 08:38	26° TD 26'48	
	8263 Mar 03 23:49	0° 8			8265 Sep 25 05:57	0∘ m	
asc. node evening max el	8263 Mar 21 05:51 8263 Mar 28 14:28	18° 8 48'36 26° 8 24'28	46°59'56	max. Earth dist.	8265 Oct 19 14:34 8265 Oct 28 11:01	0°ጤ 10°ጤ54'52	1.73295 AU
evening max er	8263 Apr 01 05:00	0°II	40 39 30	max. Earth dist.	8203 Oct 28 11.01	10 1163432	1.73293 AU
greatest brilliancy	8263 May 08 02:27	27° II 26'39	-4.9m	superior conj	8265 Oct 29 01:22	11°M39'04	1°25'50
retrograde	8263 May 18 03:16	29° II 20'10	- 4 .7III	minimum elong	8265 Oct 29 00:22	11°M36'00	1°25'56
evening set	8263 Jun 04 00:04	23° II 48'11			8265 Nov 12 22:27	0° ∡ 7	1 =0 00
inferior conj	8263 Jun 07 21:15	21° II 26'28	7°19'37	evening rise	8265 Dec 04 20:36	27° х 02′16	
minimum elong	8263 Jun 08 07:55	21° I I10'01	7°17'23	U -	8265 Dec 07 06:16	0°8	
min. Earth dist.	8263 Jun 07 22:04	21° Ⅱ 25'12	0.27279 AU	desc. node	8265 Dec 25 18:11	22° る 48'09	
morning rise	8263 Jun 12 16:00	18° Ⅱ 34'22			8265 Dec 31 14:21	0° ≈	
direct	8263 Jun 28 15:38	13° Ⅱ 37'45			8266 Jan 24 22:35	0° ∀	
greatest brilliancy	8263 Jul 08 08:34	15° Ⅱ 23′28	-4.8m		8266 Feb 18 07:07	0° Y	
desc. node	8263 Jul 11 00:43	16° Ⅱ 25'47			8266 Mar 14 17:51	0° 8	
	8263 Jul 31 19:44	0 \circ \odot			8266 Apr 08 11:33	$\Pi^{\circ}0$	
morning max el	8263 Aug 17 06:18	14°955'04	46°11'04	asc. node	8266 Apr 17 17:17	11° Ⅲ 02'00	
	8263 Sep 01 02:44	$0^{\circ}\Omega$			8266 May 03 21:42	0°9	
	8263 Sep 28 12:34	0° m)			8266 May 30 21:54	0° Ω	
_	8263 Oct 24 14:10	0∘ ⊽		evening max el	8266 Jun 08 14:52	8° Ω 57'14	46°36'05
asc. node	8263 Oct 31 23:30	8° Ω 40'45			8266 Jul 02 07:40	0°M)	4.0
	8263 Nov 18 21:42	0°M₊		greatest brilliancy	8266 Jul 17 17:28	8° Mp 56'29	-4.8m
	8263 Dec 13 17:07	0°⊀ 0° ⋜		retrograde	8266 Jul 28 17:40	11°M()11'21	
	8264 Jan 07 04:16	0°る 0°≈		desc. node	8266 Aug 07 12:17	9° m 15'49	
morning set	8264 Jan 31 09:55 8264 Feb 11 20:34	0°≈ 14°≈14'30		evening set min. Earth dist.	8266 Aug 12 17:37 8266 Aug 18 09:47	6° Mp 47'47 3° Mp 25'24	0.28236 AU
morning set	0207100 11 20.34	14 ~14 30		mm. Lattii uist.	0200 Aug 10 09.4/	J 11/2324	0.20230 AU

inferior conj	8266 Aug 19 01:10	3° m 01'28	-2°48'01		8269 Jan 15 04:44	0° ≈	
	•	3° m) 10'53		desc. node	8269 Jan 22 06:05	0 ≈ 8° ≈ 46'16	
minimum elong	8266 Aug 18 19:07 8266 Aug 24 01:05	3 11/1033 30°R Ω	2 40 20	desc. node	8269 Feb 08 07:23	8 ≈40 10 0°)	
	_						
morning rise	8266 Aug 24 21:08	29° Ω 31'48		evening rise	8269 Feb 14 01:50	7° ¥ 11'38	
direct	8266 Sep 09 05:10	24° £ 59'39	4.7		8269 Mar 04 08:19	0° Υ	
greatest brilliancy	8266 Sep 18 23:47	26° Ω 42'54	-4./m		8269 Mar 28 08:29	0° ∀	
	8266 Sep 26 10:53	0° m)			8269 Apr 21 10:07	0°П	
morning max el	8266 Oct 27 21:30	24° m/40'00	45°41'49	asc. node	8269 May 15 04:58	29° Ⅱ 24'02	
	8266 Nov 02 08:55	0∘ ⊽			8269 May 15 16:40	0°99	
asc. node	8266 Nov 28 11:36	27° £ 33′25			8269 Jun 09 08:41	$0^{\circ}\Omega$	
	8266 Nov 30 16:26	0° M			8269 Jul 04 17:18	0° m)	
	8266 Dec 26 20:48	0° ∡			8269 Jul 31 10:32	0∘ ত	
	8267 Jan 21 00:49	0°₹		evening max el	8269 Aug 18 11:41	18° ≏ 35'33	45°51'56
	8267 Feb 14 15:18	0° ≈			8269 Aug 30 21:02	0°M₊	
	8267 Mar 10 21:42	0° ∀		desc. node	8269 Sep 03 23:44	3°M26′12	
desc. node	8267 Mar 20 04:28	11° ∺ 33'01		greatest brilliancy	8269 Sep 26 02:42	17° M 04'11	-4.7m
	8267 Apr 03 22:59	0 ° $\mathbf{\Lambda}$		retrograde	8269 Oct 06 13:47	19° M 02'26	
	8267 Apr 27 21:11	$_{0\circ}$ 8		evening set	8269 Oct 24 17:02	12°M51'11	
morning set	8267 Apr 28 15:40	0° 8 58'05		inferior conj	8269 Oct 28 02:08	10° M ₊45'01	-8°36'28
	8267 May 21 18:22	Π $^{\circ}0$		minimum elong	8269 Oct 28 00:45	10° M ₊47'13	8°36'19
				min. Earth dist.	8269 Oct 28 02:05	10° M 45′06	0.29168 AU
superior conj	8267 Jun 07 21:35	21° Ⅱ 29'41	-1°09'54	morning rise	8269 Oct 31 08:30	8° M 43'11	
minimum elong	8267 Jun 08 08:43	22° Ⅱ 04'31	1°09'44	direct	8269 Nov 18 16:04	2°M27'02	
max. Earth dist.	8267 Jun 10 19:30	25° Ⅱ 08'36	1.71613 AU	greatest brilliancy	8269 Nov 29 02:43	4° M ₊26′28	-4.7m
	8267 Jun 14 16:38	0 \circ \odot		asc. node	8269 Dec 25 23:20	22°MJ08'42	
	8267 Jul 08 17:35	$0^{\circ}\Omega$			8270 Jan 03 13:12	0° ∡ ¹	
asc. node	8267 Jul 11 02:35	2° Ω 57'17		morning max el	8270 Jan 07 01:03	3° ∡ ¹23′02	46°01'13
evening rise	8267 Jul 17 13:11	10° Ω 57'26			8270 Feb 01 06:30	0°ರ	
	8267 Aug 01 22:07	o° m y			8270 Feb 27 08:59	0° ≈	
	8267 Aug 26 06:54	0∘ ⊽			8270 Mar 24 10:03	0°) €	
	8267 Sep 19 21:17	0°M₊		desc. node	8270 Apr 16 16:52	28°) 29'44	
	8267 Oct 14 19:44	0° ∡ 7			8270 Apr 17 22:09	$0^{\circ}\Upsilon$	
desc. node	8267 Oct 30 20:39	19° ₹ '00'18			8270 May 12 03:16	0°8	
	8267 Nov 09 05:56	0°ਰ			8270 Jun 05 05:15	0°II	
	8267 Dec 05 10:08	0° ≈			8270 Jun 29 06:57	0°©	
	8268 Jan 02 00:58	0° ₩		morning set	8270 Jul 11 22:54	15° © 45'30	
evening max el	8268 Jan 12 03:34	10°) 13'41	46°25'21	morning sec	8270 Jul 23 10:02	0° Ω	
evening max er	8268 Feb 03 12:05	0°Υ	40 23 21	asc. node	8270 Aug 07 14:35	18° Ω 50'19	
asc. node	8268 Feb 20 20:29	10° Y 04'48		asc. node	8270 Aug 16 14:58	0° m)	
greatest brilliancy	8268 Feb 21 04:24	10° Υ 11'57	-4.9m		02/0 Aug 10 14.30	Ų ių	
retrograde	8268 Mar 02 02:07	10 γ 11 37 12° γ 02'37	-4.7111	superior conj	8270 Aug 19 06:09	3° m) 15'25	0°27'43
evening set	8268 Mar 17 18:02	7°Υ13'23		minimum elong	8270 Aug 19 00:09 8270 Aug 19 00:14	2° m) 57'07	0°27'21
inferior conj	8268 Mar 22 17:09	4° Υ 15'50	7°02'06	max. Earth dist.	8270 Aug 19 00:14 8270 Aug 21 11:16	5° m) 59'40	1.72870 AU
	8268 Mar 22 06:09	4° Υ 32'42	6°59'47	max. Earth dist.	8270 Sep 09 21:37	0∘ ರ ೨ 111/೨೩40	1.72870 AU
minimum elong min. Earth dist.	8268 Mar 22 11:44	4 γ 32 42 4° γ 24'08	0.27017 AU	evening rise	•	0 == 18° £ 49'17	
morning rise		1° Υ 49'39	0.27017 AU	evening rise	8270 Sep 25 04:06 8270 Oct 04 06:08	0°M	
morning rise	8268 Mar 26 18:16 8268 Mar 30 02:35	1 1 49 39 30° ₹			8270 Oct 04 00:08 8270 Oct 28 17:19	0° ⊼ ¹	
direct	8268 Apr 12 08:42	26° ₩ 27'35			8270 Oct 28 17:19 8270 Nov 22 08:08	0°る	
	•	28° X 15'49	-4.9m	dasa nada		6° る 04'39	
greatest brilliancy	8268 Apr 22 02:29 8268 Apr 26 06:28	28° π 15'49' 0° Υ	~ ~ .7111	desc. node	8270 Nov 27 08:19 8270 Dec 17 03:17	0°≈	
mamina may al	8268 Jun 01 20:43	29° Υ 17'08	46°54'51			0 ≈ 0° ∺	
morning max el	8268 Jun 02 13:46	0° 8	40 34 31		8271 Jan 11 03:35	0	
daga mada					8271 Feb 05 12:22		
desc. node	8268 Jun 11 15:03	9° 8 22'13		1	8271 Mar 03 16:41	0°8	
	8268 Jun 30 10:53	0° I I		asc. node	8271 Mar 20 07:56	18° 8 00'27	46050120
	8268 Jul 26 12:23	0° ⊙		evening max el	8271 Mar 26 04:04	24° 8 00'32 0° Ⅱ	46°59'39
	8268 Aug 20 21:28	0° Ω			8271 Apr 01 05:43		4.0
1	8268 Sep 14 22:31	0° Mp		greatest brilliancy	8271 May 05 17:26	25° Ⅱ 04'33	-4.9m
asc. node	8268 Oct 02 13:11	21° Mp 16'24		retrograde	8271 May 15 16:23	26° Ⅱ 56'31	
	8268 Oct 09 17:47	0∘ љ		evening set	8271 Jun 01 17:06	21° Ⅱ 20'00	7022125
	8268 Nov 03 07:53	0° M 0° ₹		inferior conj	8271 Jun 05 10:41	19° Ⅱ 03'31	7°33'35
	8268 Nov 27 17:38	0° ∡ 7		minimum elong	8271 Jun 05 21:05	18° Ⅱ 47'27	7°31'31
morning set	8268 Nov 29 20:07	2° ₹ 35'35		min. Earth dist.	8271 Jun 05 11:50	19° Ⅱ 01'44	0.27263 AU
gar - 4 - 22	8268 Dec 22 00:16	0°る	1 80555 1 ==	morning rise	8271 Jun 10 01:14	16° Ⅱ 17'03	
max. Earth dist.	8269 Jan 03 17:52	15° る 46'49	1.72561 AU	direct	8271 Jun 26 04:34	11° I I15'04	4.0
	0000 1 0000	100-	0005110	greatest brilliancy	8271 Jul 05 21:42	13° Ⅱ 00'35	-4.8m
superior conj	8269 Jan 06 02:32	18°る42'33		desc. node	8271 Jul 10 02:36	14° ∏ 44'02	
minimum elong	8269 Jan 06 10:29	19° る 07'14	0°37/36		8271 Aug 01 04:19	0₀ ©	

morning max el	8271 Aug 14 19:24	12°533'43	46°12'35	asc. node	8274 Apr 16 19:19	10° Ⅱ 26'30	
	8271 Aug 31 21:02	0° N			8274 May 03 12:59	0ა V 0ა©	
	8271 Sep 28 03:02 8271 Oct 24 02:55	0 ்⊽ 0°₥		evening max el	8274 May 30 17:38 8274 Jun 06 05:51	6° Ω 39'17	46027140
asc. node	8271 Oct 24 02:33 8271 Oct 31 01:31	0 = 8° £ 10'00		evening max er	8274 Jul 03 03:32	0°M)	40 37 49
asc. Houe	8271 Oct 31 01:31 8271 Nov 18 09:32	0°M		greatest brilliancy	8274 Jul	0° mp 41′08	-4.8m
	8271 Nov 18 09:32 8271 Dec 13 04:27	0° ⊼ 1		retrograde	8274 Jul 13 09:01 8274 Jul 26 09:48	8° Mp 56'44	-4.0111
	8271 Dec 13 04.27 8272 Jan 06 15:22	% ਨ ਹ		desc. node	8274 Aug 06 14:12	6° Mp 25'33	
	8272 Jan 30 20:54	0° ≈		evening set	8274 Aug 10 08:18	4° Mg 34'01	
morning set	8272 Feb 09 09:37	11°≈51'29		min. Earth dist.	8274 Aug 16 01:18		0.28187 AU
desc. node	8272 Feb 19 18:10	24°≈46'24		inferior conj	8274 Aug 16 16:26	0°Mp47'17	
dese. Hode	8272 Feb 23 22:36	0° ∀		minimum elong	8274 Aug 16 11:02	0° m 55'40	
max. Earth dist.	8272 Mar 18 05:44	29°) 10'46	1.71390 AU	mmmum viong	8274 Aug 17 22:55	30° ₽.Ω	2 20 10
	8272 Mar 18 21:25	0°Υ		morning rise	8274 Aug 22 14:20	27°Ω15'26	
	02/21/10/10/21/20	•		direct	8274 Sep 06 19:54	22°Ω46'00	
superior conj	8272 Mar 20 15:41	2° Y 12'36	-1°04'46	greatest brilliancy	8274 Sep 16 14:39	24° Ω 29'45	-4.7m
minimum elong	8272 Mar 20 03:55	1° Y 35'41	1°04'22	· ·	8274 Sep 27 22:05	0° m)	
S	8272 Apr 11 18:28	0°8		morning max el	8274 Oct 25 13:28	22° m 29'38	45°42'02
evening rise	8272 Apr 30 02:53	23° 8 03'44		5 5	8274 Nov 02 05:11	0∘ <u>⊽</u>	
C	8272 May 05 15:30	0° Ⅱ		asc. node	8274 Nov 27 13:31	26° £ 56′22	
	8272 May 29 14:43	0ಂತಾ			8274 Nov 30 07:26	0° M .	
asc. node	8272 Jun 11 16:38	16° © 17'03			8274 Dec 26 09:50	0° ∡ ¹	
	8272 Jun 22 18:21	$0^{\circ}\Omega$			8275 Jan 20 12:55	0° ට	
	8272 Jul 17 04:37	0° m			8275 Feb 14 02:55	0°≈	
	8272 Aug 11 00:37	0∘ ⊽			8275 Mar 10 09:04	0°) €	
	8272 Sep 05 12:15	0° M		desc. node	8275 Mar 19 06:33	11°) €04'21	
desc. node	8272 Oct 01 11:08	29°M13'22			8275 Apr 03 10:11	$0^{\circ}\mathbf{\Upsilon}$	
	8272 Oct 02 04:16	0° ∡ ¹		morning set	8275 Apr 26 02:09	28° Y 25'22	
evening max el	8272 Oct 28 13:46	27° х 10′25	45°44'35		8275 Apr 27 08:17	9° 8	
	8272 Oct 31 13:34	5°0			8275 May 21 05:25	$\Pi^{\circ}0$	
greatest brilliancy	8272 Dec 06 22:18	25° る 24'09	-4.8m				
retrograde	8272 Dec 16 07:56	27° る 01'14		superior conj	8275 Jun 05 09:30	19° Ⅱ 02′02	-1°12'10
evening set	8272 Dec 31 22:06	22° る 22'01		minimum elong	8275 Jun 05 20:22	19° Ⅱ 36′05	1°12'02
inferior conj	8273 Jan 06 10:31	19° る 04'10		max. Earth dist.	8275 Jun 08 05:25		1.71577 AU
minimum elong	8273 Jan 06 18:30	18° る 51'46			8275 Jun 14 03:38	0 \circ \odot	
min. Earth dist.	8273 Jan 07 06:21	18° る 33'23	0.27970 AU		8275 Jul 08 04:35	$0^{\circ}\Omega$	
morning rise	8273 Jan 12 14:05	15° る 23'17		asc. node	8275 Jul 10 04:31	2° Ω 29'06	
asc. node	8273 Jan 22 10:55	11° る 29'19		evening rise	8275 Jul 15 03:17	8° N 38'08	
direct	8273 Jan 27 13:46	10° る 57'17			8275 Aug 01 09:08	0° т р	
greatest brilliancy	8273 Feb 07 17:10	13° る 14'56	-4.8m		8275 Aug 25 18:03	0∘ 亚	
	8273 Mar 04 14:33	0° ≈			8275 Sep 19 08:43	0°M	
morning max el	8273 Mar 18 21:49	13°≈32'13	46°46'16		8275 Oct 14 07:46	0° ∡ 7	
	8273 Apr 03 13:14	0°) €		desc. node	8275 Oct 29 22:36	18° ≯ 28'48	
1 1	8273 Apr 29 23:46	0°Υ 16° Ω 47'20			8275 Nov 08 19:05	5°0	
desc. node	8273 May 14 05:04	16° Y 47′29			8275 Dec 05 01:24	0° ≈	
	8273 May 25 05:31	0°B 0°B			8276 Jan 01 21:11	0° ∺ 7° ∺ 55'48	46922126
	8273 Jun 18 22:41			evening max el	8276 Jan 09 18:38	/°π3548 0°Υ	46°23'36
	8273 Jul 13 10:40 8273 Aug 06 21:09	$0 _{\circ}$ ೮ $0 _{\circ}$ ತಾ		greatest brilliancy	8276 Feb 04 08:50 8276 Feb 18 16:41	7° Υ 45'44	-4.9m
	8273 Aug 31 07:16	0° m y		asc. node	8276 Feb 19 22:35	8°Υ10'51	-4.9111
asc. node	8273 Sep 04 02:52	0 mg/41′25		retrograde	8276 Feb 19 22.33 8276 Feb 28 15:13	9° Υ 36'33	
morning set	8273 Sep 04 02:32 8273 Sep 20 01:41	24° Mp 18'14		evening set	8276 Mar 15 03:04	4° Υ 52'59	
morning set	8273 Sep 24 16:46	0° ي		inferior conj	8276 Mar 20 05:58	1° Υ 49'51	6°45'58
	8273 Oct 19 01:20	0° M		minimum elong	8276 Mar 19 18:53	2° Υ 06'51	6°43'32
	0275 000 15 01.20	0 110		min. Earth dist.	8276 Mar 20 00:35	1° Υ 58'07	0.27018 AU
superior conj	8273 Oct 26 19:11	9°M32'53	1°25'36	Dartii dist.	8276 Mar 23 06:19	30° ₹	0.2,010 110
minimum elong	8273 Oct 26 17:28	9°M27'37		morning rise	8276 Mar 24 10:43	29° H 18'22	
max. Earth dist.	8273 Oct 26 06:45	8°M54'34		direct	8276 Apr 09 22:23	24°) (10'22	
	8273 Nov 12 09:14	0° ∡ 7		greatest brilliancy	8276 Apr 19 15:41	25°) (49'45	-4.9m
evening rise	8273 Dec 02 13:08	24° ₹ 51'47		J	8276 Apr 28 08:51	0°Υ	
<i>5</i>	8273 Dec 06 17:10	0°る		morning max el	8276 May 30 10:27	26°Υ53'32	46°55'30
desc. node	8273 Dec 24 20:02	22° る 19'44			8276 Jun 02 12:01	0°8	
	8273 Dec 31 01:28	0° ≈		desc. node	8276 Jun 10 16:59	8° 8 35'06	
	8274 Jan 24 10:01	0°) €			8276 Jun 30 03:06	$\Pi^{\circ}0$	
	8274 Feb 17 19:00	$0^{\circ}\mathbf{\Upsilon}$			8276 Jul 26 02:13	0 \circ \odot	
	8274 Mar 14 06:21	0° 8			8276 Aug 20 10:03	$0^{\circ}\Omega$	
	8274 Apr 08 01:01	$\Pi^{\circ}0$			8276 Sep 14 10:17	0° m	

asc. node	8276 Oct 01 15:13	20° Mg 48′07		retrograde	8279 May 13 05:11	24° Ⅱ 32'10	
	8276 Oct 09 05:02	0∘ ⊽		evening set	8279 May 30 09:50	18° Ⅱ 50'54	
	8276 Nov 02 18:49	0° M ₊		inferior conj	8279 Jun 02 23:54	16° Ⅱ 39'45	7°46'42
	8276 Nov 27 04:24	0°⋪		minimum elong	8279 Jun 03 09:56	16° Ⅱ 24'14	7°44'50
morning set	8276 Nov 27 13:23	0° ҂ ¹27'40		min. Earth dist.	8279 Jun 03 01:32	16° Ⅲ 37'14	0.27250 AU
	8276 Dec 21 11:02	ರ∘ರ		morning rise	8279 Jun 07 10:08	13° Ⅱ 59'19	
max. Earth dist.	8277 Jan 01 09:07	13° ⋜ 31'51	1.72602 AU	direct	8279 Jun 23 16:55	8° Ⅱ 51′20	
				greatest brilliancy	8279 Jul 03 11:06	10° Ⅲ 37′27	-4.8m
superior conj	8277 Jan 03 17:56	16° ප 27'57	0°40'55	desc. node	8279 Jul 09 04:37	13° Ⅱ 05'46	
minimum elong	8277 Jan 04 02:19	16° そ 53'58	0°40'42		8279 Aug 01 10:32	0°ಅ	
•	8277 Jan 14 15:35	0° ≈		morning max el	8279 Aug 12 08:22	10°911'54	46°14'14
desc. node	8277 Jan 21 08:05	8°≈18'40		Č	8279 Aug 31 14:50	$0^{\circ}\Omega$	
	8277 Feb 07 18:21	0° ∀			8279 Sep 27 17:14	0° m/y	
evening rise	8277 Feb 11 15:20	4°) (49'43			8279 Oct 23 15:27	0∘ <u>⊽</u>	
	8277 Mar 03 19:27	0°Υ		asc. node	8279 Oct 30 03:21	7° £ 39'13	
	8277 Mar 27 19:48	0°8		ase. node	8279 Nov 17 21:12	0°M	
	8277 Apr 20 21:43	0°II			8279 Dec 12 15:38	0° ⊼	
asc. node	8277 May 14 06:51	28° I 52'57			8280 Jan 06 02:16	∞ੇਂਤ	
asc. node	8277 May 15 04:42	0°9			8280 Jan 30 07:39	0° ≈	
	8277 Jun 08 21:26	0° U		morning set	8280 Feb 06 23:13	0 ∞ 9°≈30'50	
		0° m)		•	8280 Feb 00 23:13 8280 Feb 18 20:15	9 ≈30 30 24°≈19'25	
	8277 Jul 04 07:27			desc. node			
	8277 Jul 31 03:55	0° ⊽	45052102	To all the	8280 Feb 23 09:20	0°) (35121	1 71 40 4 4 1 1
evening max el	8277 Aug 16 03:25	16° £ 23'14	45°53'02	max. Earth dist.	8280 Mar 15 14:56	26° 六 35'21	1.71424 AU
	8277 Aug 31 02:56	0°M,			0000 16 10 00 10	2001/14/15	1000104
desc. node	8277 Sep 03 01:52	2°M23'52		superior conj	8280 Mar 18 03:19	29°) (44'45	
greatest brilliancy	8277 Sep 23 18:23	14°M54'24	-4.7m	minimum elong	8280 Mar 17 15:33	29°) (07'51	1°01'39
retrograde	8277 Oct 04 05:35	16°M52'54			8280 Mar 18 08:10	0° Υ	
evening set	8277 Oct 22 07:51	10°M44'08			8280 Apr 11 05:17	0°8	
inferior conj	8277 Oct 25 18:29	8°M35'30	-8°34'40	evening rise	8280 Apr 27 13:40	20° 8 32'50	
minimum elong	8277 Oct 25 16:19	8°M38'55	8°34'31		8280 May 05 02:23	Π °0	
min. Earth dist.	8277 Oct 25 17:19	8°M37'19	0.29165 AU		8280 May 29 01:43	0 \circ	
morning rise	8277 Oct 29 00:48	6°M33'32		asc. node	8280 Jun 10 18:34	15° © 48'36	
direct	8277 Nov 16 08:24	0° IL 17'57			8280 Jun 22 05:32	$0^{\circ}\Omega$	
greatest brilliancy	8277 Nov 26 17:40	2°M15'44	-4.7m		8280 Jul 16 16:08	O° Mp	
asc. node	8277 Dec 25 01:15	21°M12'08			8280 Aug 10 12:46	0∘ ত	
	8278 Jan 03 11:52	0° ∡ 7			8280 Sep 05 01:39	0° M.	
morning max el	8278 Jan 04 15:25	1° ∡ 07'15	45°59'47	desc. node	8280 Sep 30 13:05	28°M35'18	
	8278 Jan 31 22:18	6°0			8280 Oct 01 20:23	0° ∡ ¹	
	8278 Feb 26 22:30	0° ≈		evening max el	8280 Oct 26 03:52	24° ₹ ′55'30	45°44'03
	8278 Mar 23 22:30	0° ∀			8280 Oct 31 14:09	8°0	
desc. node	8278 Apr 15 18:49	27° ¥ 59'08		greatest brilliancy	8280 Dec 04 12:10	23° る 08'39	-4.8m
	8278 Apr 17 10:01	0 $^{\circ}$ Υ		retrograde	8280 Dec 13 22:35	24° る 46'24	
	8278 May 11 14:45	0°8		evening set	8280 Dec 29 15:11	20° る 02'49	
	8278 Jun 04 16:28	0°II		inferior conj	8281 Jan 04 01:14	16° る 48'20	-4°11'20
	8278 Jun 28 17:58	0°ಅ		minimum elong	8281 Jan 04 09:43	16° ප 35'11	4°08'52
morning set	8278 Jul 09 13:07	13°926'36		min. Earth dist.	8281 Jan 04 21:24	16° る 17'04	0.28028 AU
morning sec	8278 Jul 22 20:53	0° Ω		morning rise	8281 Jan 10 03:28	13° る 09'31	0.20020110
asc. node	8278 Aug 06 16:36	18° Ω 23'11		asc. node	8281 Jan 21 12:59	8° る 56'59	
use. Houe	8278 Aug 16 01:43	0°m)		direct	8281 Jan 25 05:02	8° る 40'30	
	52,511ug 10 01.75	יעיי ∨		greatest brilliancy	8281 Feb 05 09:08	10°පි59'14	-4.8m
superior conj	8278 Aug 16 21:52	1° m/02'20	0°24'26	greatest offinaley	8281 Mar 04 19:20	0°≈	-4.0111
minimum elong	8278 Aug 16 16:35	0° Mp 45'59	0°24'05	morning max el	8281 Mar 16 13:20	0 ∞ 11°≈15'41	46°45'07
max. Earth dist.	•	3° Mp 53'54	1.72833 AU	morning max ci	8281 Apr 03 06:39	0°)	40 43 07
max. Earth dist.	8278 Aug 19 05:20	0∘ ⊽	1.72633 AU		•	0°Υ	
	8278 Sep 09 08:21			1 1	8281 Apr 29 13:59		
evening rise	8278 Sep 22 21:27	16° Ω 41'46		desc. node	8281 May 13 07:00	16° Y 13'37	
	8278 Oct 03 16:56	0°M₊			8281 May 24 18:17	8°0	
	8278 Oct 28 04:18	0° ∡			8281 Jun 18 10:38	0°∏	
	8278 Nov 21 19:27	0°る			8281 Jul 12 22:05	0° ©	
desc. node	8278 Nov 26 10:13	5° る 35'53			8281 Aug 06 08:11	0° N	
	8278 Dec 16 15:08	0° ≈		_	8281 Aug 30 18:01	0° m/y	
	8279 Jan 10 16:18	0° ∺		asc. node	8281 Sep 03 04:52	4° Mp 14′39	
	8279 Feb 05 02:33	0°Υ		morning set	8281 Sep 17 18:19	22° m 09'07	
	8279 Mar 03 09:51	0°8			8281 Sep 24 03:20	0∘ 亚	
asc. node	8279 Mar 19 09:54	17° 8 11'18			8281 Oct 18 11:49	0° M	
evening max el	8279 Mar 23 16:35	21° 8 33'50	46°59'08	max. Earth dist.	8281 Oct 24 03:46	6°M59'04	1.73313 AU
	8279 Apr 01 07:48	$\Pi^{\circ}0$					
greatest brilliancy	8279 May 03 08:15	22° Ⅱ 41'32	-4.9m	superior conj	8281 Oct 24 12:39	7°M26'29	1°25'15

minimum elong	8281 Oct 24 10:15	7° M .19'04	1°25'21	direct	8284 Apr 07 11:38	21° ₩ 36'53	
	8281 Nov 11 19:45	0° ∡ ¹		greatest brilliancy	8284 Apr 17 05:19	23° ∺ 25′05	-4.9m
evening rise	8281 Nov 30 05:34	22° х 41'51			8284 Apr 29 17:48	0 ° $\mathbf{\Upsilon}$	
-	8281 Dec 06 03:48	ರ°0		morning max el	8284 May 27 23:12	24° Ƴ 28'35	46°56'20
desc. node	8281 Dec 23 22:03	21° る 52'42			8284 Jun 02 08:57	0°8	
	8281 Dec 30 12:20	0° ≈		desc. node	8284 Jun 09 19:00	7° 8 50'12	
	8282 Jan 23 21:11	0° ∀			8284 Jun 29 18:33	Π $^{\circ}$ 0	
	8282 Feb 17 06:34	$0^{\circ}\mathbf{\Upsilon}$			8284 Jul 25 15:27	0 \circ \odot	
	8282 Mar 13 18:29	9° 8			8284 Aug 19 22:06	$0^{\circ}\Omega$	
	8282 Apr 07 14:06	$\Pi^{\circ}0$			8284 Sep 13 21:38	0° m	
asc. node	8282 Apr 15 21:13	9° Ⅱ 51'54		asc. node	8284 Sep 30 17:02	20° m 20'17	
	8282 May 03 03:58	0 \circ \odot			8284 Oct 08 15:56	0∘ ত	
	8282 May 30 13:30	$0^{\circ}\Omega$			8284 Nov 02 05:27	0°M₊	
evening max el	8282 Jun 03 21:30	4° Ω 24'09	46°39'17	morning set	8284 Nov 25 06:27	28°M19′54	
	8282 Jul 04 06:17	0° m ∕			8284 Nov 26 14:55	0° ∡	
greatest brilliancy	8282 Jul 13 00:14	4° m 25'58	-4.8m		8284 Dec 20 21:32	0°ಕ	
retrograde	8282 Jul 24 01:51	6° Mp 42′08		max. Earth dist.	8284 Dec 29 23:36	11° る 15'23	1.72642 AU
desc. node	8282 Aug 05 16:20	3° m 30'56					
evening set	8282 Aug 07 23:01	2°m/20'16		superior conj	8285 Jan 01 09:14	14° る 13'59	
	8282 Aug 11 23:11	30° R €		minimum elong	8285 Jan 01 18:00	14° る 41'09	0°43'44
min. Earth dist.	8282 Aug 13 16:26		0.28141 AU		8285 Jan 14 02:10	0° ≈	
inferior conj	8282 Aug 14 07:28	28° Ω 33'06		desc. node	8285 Jan 20 10:06	7° ≈ 51'59	
minimum elong	8282 Aug 14 02:46	28° Ω 40′23	2°05'48		8285 Feb 07 05:03	0° ∀	
morning rise	8282 Aug 20 07:12	24° Ω 59'14		evening rise	8285 Feb 09 04:45	2° ∺ 28'33	
direct	8282 Sep 04 10:59	20° £ 32′30			8285 Mar 03 06:19	$0^{\circ}\mathbf{\Upsilon}$	
greatest brilliancy	8282 Sep 14 04:56	22° Ω 16′08	-4.7m		8285 Mar 27 06:53	0°B	
	8282 Sep 28 22:46	0° m ∕			8285 Apr 20 09:05	$\Pi^{\circ}0$	
morning max el	8282 Oct 23 05:22	20° m 19'44	45°42'16	asc. node	8285 May 13 08:50	28° Ⅲ 23′00	
	8282 Nov 02 00:33	0∘ ⊽			8285 May 14 16:29	0ංම	
asc. node	8282 Nov 26 15:31	26° £ 20'44			8285 Jun 08 09:55	$0^{\circ}\Omega$	
	8282 Nov 29 21:57	0° M			8285 Jul 03 21:19	0° т р	
	8282 Dec 25 22:28	0° ∡			8285 Jul 30 21:12	0° ⊽	
	8283 Jan 20 00:39	6°0		evening max el	8285 Aug 13 18:17	14° £ 09'57	45°54'07
	8283 Feb 13 14:11	0° ≈			8285 Aug 31 10:34	0°M	
	8283 Mar 09 20:04	0° ∀		desc. node	8285 Sep 02 03:45	1°M20'45	4.5
desc. node	8283 Mar 18 08:27	10°) 36′13		greatest brilliancy	8285 Sep 21 10:09	12°M45'47	-4.7m
	8283 Apr 02 21:01	0° Υ		retrograde	8285 Oct 01 21:19	14°M44'42	
morning set	8283 Apr 23 13:02	25° Y 55'14		evening set	8285 Oct 19 22:27	8°M38'39	0022100
	8283 Apr 26 18:59	0° B		inferior conj	8285 Oct 23 10:56	6°M27'10	
	8283 May 20 16:01	Π $^{\circ}$ 0		minimum elong	8285 Oct 23 08:00	6°M31'48	
	0202 I 02 21 44	1.00 T 2.04.0	1014117	min. Earth dist.	8285 Oct 23 08:54	6°M30'23	0.29166 AU
superior conj	8283 Jun 02 21:44	16° Ⅱ 36'46		morning rise	8285 Oct 26 17:34	4°M24'35	
minimum elong	8283 Jun 03 08:16	17° Ⅱ 09'46		J: 4	8285 Nov 04 08:59	30°R <u>Ω</u>	
max. Earth dist.	8283 Jun 05 18:43 8283 Jun 13 14:12	20° Ⅱ 13'01 0° ©	1.71541 AU	direct	8285 Nov 14 00:28 8285 Nov 24 01:51	28° ≏ 09'48 0° ™	
		0° U		arrantant brillianass			4.7
aga mada	8283 Jul 07 15:09 8283 Jul 09 06:34	0°8ℓ 2° Ω 02'38		greatest brilliancy asc. node	8285 Nov 24 09:27 8285 Dec 24 03:18	0°M06'45 20°M17'38	-4.7m
asc. node		6°Ω20'24					15050121
evening rise	8283 Jul 12 17:31 8283 Jul 31 19:47	0°Mp		morning max el	8286 Jan 02 05:36 8286 Jan 03 09:27	28° ™ 51'30 0° ҂	TJ JO 44
	8283 Jul 31 19.47 8283 Aug 25 04:52	0∘ ত الله			8286 Jan 31 13:41	0°중	
	8283 Sep 18 19:53	0° ™			8286 Feb 26 11:44	0°≈	
	8283 Oct 13 19:34	0° ⊼ 7			8286 Mar 23 10:42	0 ≈ 0° H	
desc. node	8283 Oct 29 00:32	17° × 757'59		desc. node	8286 Apr 14 20:42	27° ₩ 28'58	
dose. Hode	8283 Nov 08 08:02	0°る		dese. Hode	8286 Apr 16 21:39	0°Υ	
	8283 Dec 04 16:35	0° ≈			8286 May 11 02:02	0°8	
	8284 Jan 01 17:44	0° ∺			8286 Jun 04 03:30	0°II	
evening max el	8284 Jan 07 09:11		46°21'49		8286 Jun 28 04:47	0°ಅ	
<i>5</i>	8284 Feb 05 12:37	0° Υ	-	morning set	8286 Jul 07 03:29	11° 5 08'33	
greatest brilliancy	8284 Feb 16 05:34	5° Υ 21'14	-4.9m		8286 Jul 22 07:32	0° Ω	
asc. node	8284 Feb 19 00:35	6° Υ 13'10		asc. node	8286 Aug 05 18:35	17° Ω 56'33	
retrograde	8284 Feb 26 03:51	7° Υ 11'24		-			
evening set	8284 Mar 12 12:20	2° Υ 33'26		superior conj	8286 Aug 14 13:55	28° Ω 50'58	0°21'08
<i>5</i>	8284 Mar 16 20:00	30° ₹		minimum elong	8286 Aug 14 09:17	28° Ω 36'37	0°20'49
inferior conj	8284 Mar 17 18:47	29° ∺ 25′00	6°29'10	3	8286 Aug 15 12:14	0° m)	
minimum elong	8284 Mar 17 07:42	29°) 42′02		max. Earth dist.	8286 Aug 16 22:29		1.72792 AU
min. Earth dist.	8284 Mar 17 13:49	29° ∺ 32'38			8286 Sep 08 18:50	0∘ <u>⊽</u>	
morning rise	8284 Mar 22 03:05	26°) 48′10		evening rise	8286 Sep 20 15:11	14° ≏ 36'11	
				-	-		

	8286 Oct 03 03:32	0° M .			9290 May 24 07:16	0° ႘	
		0° ⊼ 1			8289 May 24 07:16	0°II	
	8286 Oct 27 15:08				8289 Jun 17 22:46		
	8286 Nov 21 06:40	0°る			8289 Jul 12 09:41	0°95	
desc. node	8286 Nov 25 12:15	5° る 07'46			8289 Aug 05 19:24	0 $^{\circ}\Omega$	
	8286 Dec 16 02:56	0° ≈		_	8289 Aug 30 04:59	0° m	
	8287 Jan 10 05:02	0° ∀		asc. node	8289 Sep 02 06:43	3° Mp 46'43	
	8287 Feb 04 16:52	0° Υ		morning set	8289 Sep 15 11:11	20° Mp 00'00	
	8287 Mar 03 03:21	0° 8			8289 Sep 23 14:08	0∘ ত	
asc. node	8287 Mar 18 11:48	16° 8 21'16			8289 Oct 17 22:31	0° M	
evening max el	8287 Mar 21 04:47	19° 8 06'34	46°58'42				
	8287 Apr 01 11:24	Π $\circ 0$		superior conj	8289 Oct 22 06:30	5° ™ 20'32	1°24'47
greatest brilliancy	8287 Apr 30 22:34	20° Ⅱ 18′00	-4.9m	minimum elong	8289 Oct 22 03:25	5° ™ 11'02	1°24'51
retrograde	8287 May 10 18:17	22° Ⅱ 08'04		max. Earth dist.	8289 Oct 22 01:22	5° ™ 04'41	1.73312 AU
evening set	8287 May 28 02:30	16° Ⅲ 21'41			8289 Nov 11 06:27	0° ∡ 7	
inferior conj	8287 May 31 13:06	14° Ⅱ 15'57	7°59'03	evening rise	8289 Nov 27 22:27	20° ∡ ³32'44	
minimum elong	8287 May 31 22:42	14° Ⅱ 01'07	7°57'23		8289 Dec 05 14:38	8°0	
min. Earth dist.	8287 May 31 14:59	14° Ⅲ 13′02	0.27239 AU	desc. node	8289 Dec 23 00:06	21° る 25'07	
morning rise	8287 Jun 04 18:57	11° Ⅱ 41'56			8289 Dec 29 23:24	0° ≈	
direct	8287 Jun 21 05:21	6° Ⅲ 27′20			8290 Jan 23 08:37	0° ∀	
greatest brilliancy	8287 Jul 01 00:24	8° Ⅱ 14'16	-4.8m		8290 Feb 16 18:28	0° Y	
desc. node	8287 Jul 08 06:41	11° Ⅱ 31'14			8290 Mar 13 07:02	0°8	
	8287 Aug 01 14:41	0°95			8290 Apr 07 03:44	0°II	
morning max el	8287 Aug 09 22:11	7° © 52'08	46°16'07	asc. node	8290 Apr 14 23:13	9° Ⅱ 16'01	
morning man er	8287 Aug 31 08:08	0°N	10 10 07	use. Hous	8290 May 02 19:41	0.2 21001	
	8287 Sep 27 07:10	0° m			8290 May 30 10:36	$0^{\circ}\Omega$	
	8287 Oct 23 03:48	0∘ ⊽		evening max el	8290 Jun 01 13:22	2° Ω 08'06	46°40'49
asc. node	8287 Oct 29 05:24	0 == 7° £ 09'31		evening max er	8290 Jul 05 21:49	0° Mp	40 40 49
asc. Houe	8287 Nov 17 08:44	0°M		greatest brilliancy	8290 Jul 10 15:57	راتا 0 10′03 و10′03	-4.8m
	8287 Dec 12 02:45	0° ⊼ 1			8290 Jul 10 13.37 8290 Jul 21 17:42	-•	-4.6111
		0°중		retrograde		4° Mp 25'54	
	8288 Jan 05 13:11	0°≈		desc. node	8290 Aug 04 18:14	0° Mp 31'22	
. ,	8288 Jan 29 18:29			evening set	8290 Aug 05 13:54	0° Mp 04'58	
morning set	8288 Feb 04 12:49	7°≈10'04			8290 Aug 05 17:31	30°R€	1046100
desc. node	8288 Feb 17 22:10	23°≈51'34		inferior conj	8290 Aug 11 22:24	26° Ω 17'27	
en al en a	8288 Feb 22 20:09	0° ∀	1 51 156 177	minimum elong	8290 Aug 11 18:27	26° Ω 23'36	
max. Earth dist.	8288 Mar 13 02:12	24° X 06'05	1.71456 AU	min. Earth dist.	8290 Aug 11 07:34	26° Ω 40'29	0.28092 AU
		>/		morning rise	8290 Aug 17 23:47	22° Ω 41'35	
superior conj	8288 Mar 15 14:42	27° ∺ 15'49		direct	8290 Sep 02 02:11	18° Ω 17'44	
minimum elong	8288 Mar 15 03:02	26° ∺ 39'15	0°58'47	greatest brilliancy	8290 Sep 11 18:51	20° Ω 00'43	-4.7m
	8288 Mar 17 19:02	0° Υ			8290 Sep 29 17:28	0°Щ	
	8288 Apr 10 16:11	0° 8		morning max el	8290 Oct 20 20:38	18° m 07'16	45°42'38
evening rise	8288 Apr 25 00:20	18° 8 01'18			8290 Nov 01 19:43	0∘ ⊽	
	8288 May 04 13:22	Π $\circ 0$		asc. node	8290 Nov 25 17:32	25° ≏ 44'31	
	8288 May 28 12:49	0 \circ			8290 Nov 29 12:35	0°M₊	
asc. node	8288 Jun 09 20:38	15° © 20'14			8290 Dec 25 11:17	0° √	
	8288 Jun 21 16:50	$0 {\circ} \Omega$			8291 Jan 19 12:36	0° ろ	
	8288 Jul 16 03:47	0° m					
					8291 Feb 13 01:43	0° ≈	
	8288 Aug 10 01:04	0∘ ত			8291 Feb 13 01:43 8291 Mar 09 07:23	0° ≈ 0° 升	
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desc. node	-			desc. node	8291 Mar 09 07:23	0°) €	
desc. node	8288 Sep 04 15:12	0° M.		desc. node	8291 Mar 09 07:23 8291 Mar 17 10:23	0° 米 10° 米 07'12	
desc. node	8288 Sep 04 15:12 8288 Sep 29 15:04	0° M 27° M 56'56	45°43'36		8291 Mar 09 07:23 8291 Mar 17 10:23 8291 Apr 02 08:13	0° ℋ 10° ℋ 07'12 0° Ƴ	
	8288 Sep 04 15:12 8288 Sep 29 15:04 8288 Oct 01 12:47	0° M 27° M 56'56 0°⊀	45°43'36		8291 Mar 09 07:23 8291 Mar 17 10:23 8291 Apr 02 08:13 8291 Apr 20 23:32	0°¥ 10°¥07'12 0°Υ 23°Υ22'37	
	8288 Sep 04 15:12 8288 Sep 29 15:04 8288 Oct 01 12:47 8288 Oct 23 18:56	0°M 27°M56'56 0°√ 22°√43'05	45°43'36 -4.8m		8291 Mar 09 07:23 8291 Mar 17 10:23 8291 Apr 02 08:13 8291 Apr 20 23:32 8291 Apr 26 06:06	0°₩ 10°₩07'12 0°Ψ 23°Ψ22'37 0°₩	
evening max el greatest brilliancy	8288 Sep 04 15:12 8288 Sep 29 15:04 8288 Oct 01 12:47 8288 Oct 23 18:56 8288 Oct 31 15:59	0°M 27°M56'56 0°ズ 22°ズ43'05 0°중 20°중53'25		morning set	8291 Mar 09 07:23 8291 Mar 17 10:23 8291 Apr 02 08:13 8291 Apr 20 23:32 8291 Apr 26 06:06 8291 May 20 03:05	0°₩ 10°₩07'12 0°Ψ 23°Ψ22'37 0°₩	-1°16'17
evening max el greatest brilliancy retrograde	8288 Sep 04 15:12 8288 Sep 29 15:04 8288 Oct 01 12:47 8288 Oct 23 18:56 8288 Oct 31 15:59 8288 Dec 02 01:45 8288 Dec 11 13:34	0°凧 27°凧56'56 0°♂ 22°♂43'05 0°♂		morning set	8291 Mar 09 07:23 8291 Mar 17 10:23 8291 Apr 02 08:13 8291 Apr 20 23:32 8291 Apr 26 06:06 8291 May 20 03:05 8291 May 31 09:25	0°₩ 10°₩07'12 0°Ψ 23°Ψ22'37 0°₩ 0°Ⅲ	
evening max el greatest brilliancy retrograde evening set	8288 Sep 04 15:12 8288 Sep 29 15:04 8288 Oct 01 12:47 8288 Oct 23 18:56 8288 Oct 31 15:59 8288 Dec 02 01:45 8288 Dec 11 13:34 8288 Dec 27 08:35	0°M 27°M56'56 0°♂ 22°♂43'05 0°♂ 20°♂53'25 22°♂32'01 17°♂44'07	-4.8m	morning set superior conj minimum elong	8291 Mar 09 07:23 8291 Mar 17 10:23 8291 Apr 02 08:13 8291 Apr 20 23:32 8291 Apr 26 06:06 8291 May 20 03:05 8291 May 31 09:25 8291 May 31 19:30	0°₩ 10°₩07'12 0°Ψ 23°Ψ22'37 0°₩ 0°Ⅲ 14°Щ08'14 14°Щ39'50	1°16'12
evening max el greatest brilliancy retrograde evening set inferior conj	8288 Sep 04 15:12 8288 Sep 29 15:04 8288 Oct 01 12:47 8288 Oct 23 18:56 8288 Oct 31 15:59 8288 Dec 02 01:45 8288 Dec 11 13:34 8288 Dec 27 08:35 8289 Jan 01 16:09	0°M。 27°M.56'56 0°ダ 22°ダ43'05 0°G 20°G53'25 22°G32'01 17°G44'07 14°G32'49	-4.8m -4°29'51	morning set	8291 Mar 09 07:23 8291 Mar 17 10:23 8291 Apr 02 08:13 8291 Apr 20 23:32 8291 Apr 26 06:06 8291 May 20 03:05 8291 May 31 09:25 8291 May 31 19:30 8291 Jun 03 06:20	0°₩ 10°₩07'12 0°Ψ 23°Ψ22'37 0°₩ 0°Ⅲ 14°Щ08'14 14°Щ39'50 17°Щ44'18	
evening max el greatest brilliancy retrograde evening set inferior conj minimum elong	8288 Sep 04 15:12 8288 Sep 29 15:04 8288 Oct 01 12:47 8288 Oct 23 18:56 8288 Oct 31 15:59 8288 Dec 02 01:45 8288 Dec 11 13:34 8288 Dec 27 08:35 8289 Jan 01 16:09 8289 Jan 02 01:03	0°M。 27°M.56'56 0°ダ 22°ダ43'05 0°℧ 20°℧53'25 22°℧32'01 17°℧44'07 14°℧32'49 14°℧19'00	-4.8m -4°29'51 4°27'19	morning set superior conj minimum elong	8291 Mar 09 07:23 8291 Mar 17 10:23 8291 Apr 02 08:13 8291 Apr 20 23:32 8291 Apr 26 06:06 8291 May 20 03:05 8291 May 31 09:25 8291 May 31 19:30 8291 Jun 03 06:20 8291 Jun 13 01:14	0°₩ 10°₩07'12 0°Ψ 23°Ψ22'37 0°₩ 0°Ⅲ 14°Щ08'14 14°Щ39'50 17°Щ44'18 0°©	1°16'12
evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	8288 Sep 04 15:12 8288 Sep 29 15:04 8288 Oct 01 12:47 8288 Oct 23 18:56 8288 Oct 31 15:59 8288 Dec 02 01:45 8288 Dec 11 13:34 8288 Dec 27 08:35 8289 Jan 01 16:09 8289 Jan 02 01:03 8289 Jan 02 12:13	0°M 27°M56'56 0°ダ 22°ダ43'05 0°℧ 20°℧53'25 22°℧32'01 17°℧44'07 14°℧32'49 14°℧19'00 14°℧01'42	-4.8m -4°29'51	superior conj minimum elong max. Earth dist.	8291 Mar 09 07:23 8291 Mar 17 10:23 8291 Apr 02 08:13 8291 Apr 20 23:32 8291 Apr 26 06:06 8291 May 20 03:05 8291 May 31 09:25 8291 May 31 19:30 8291 Jun 03 06:20 8291 Jun 13 01:14 8291 Jul 07 02:11	0°₩ 10°₩07'12 0°Ψ 23°Ψ22'37 0°₩ 0°Ⅲ 14°Щ08'14 14°Щ39'50 17°Щ44'18 0°\$ 0°\$	1°16'12
evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8288 Sep 04 15:12 8288 Sep 29 15:04 8288 Oct 01 12:47 8288 Oct 23 18:56 8288 Oct 31 15:59 8288 Dec 02 01:45 8288 Dec 11 13:34 8288 Dec 27 08:35 8289 Jan 01 16:09 8289 Jan 02 01:03 8289 Jan 02 12:13 8289 Jan 07 16:52	0°M 27°M56'56 0°ダ 22°ダ43'05 0°G 20°G53'25 22°G32'01 17°G44'07 14°G32'49 14°G19'00 14°G01'42 10°G56'17	-4.8m -4°29'51 4°27'19	superior conj minimum elong max. Earth dist.	8291 Mar 09 07:23 8291 Mar 17 10:23 8291 Apr 02 08:13 8291 Apr 20 23:32 8291 Apr 26 06:06 8291 May 20 03:05 8291 May 31 09:25 8291 May 31 19:30 8291 Jun 03 06:20 8291 Jun 13 01:14 8291 Jul 07 02:11 8291 Jul 08 08:28	0°₩ 10°₩07'12 0°Ψ 23°Ψ22'37 0°₩ 0°Ⅲ 14°Ш08'14 14°Ш39'50 17°Ш44'18 0°ጭ 0°Ω 1°Ω34'12	1°16'12
evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node	8288 Sep 04 15:12 8288 Sep 29 15:04 8288 Oct 01 12:47 8288 Oct 23 18:56 8288 Oct 31 15:59 8288 Dec 02 01:45 8288 Dec 11 13:34 8288 Dec 27 08:35 8289 Jan 01 16:09 8289 Jan 02 01:03 8289 Jan 02 12:13 8289 Jan 07 16:52 8289 Jan 20 14:57	0°M 27°M56'56 0°√2 22°√2'43'05 0°♂ 20°♂53'25 22°♂32'01 17°♂44'07 14°♂32'49 14°♂19'00 14°♂01'42 10°♂56'17 6°♂30'24	-4.8m -4°29'51 4°27'19	superior conj minimum elong max. Earth dist.	8291 Mar 09 07:23 8291 Mar 17 10:23 8291 Apr 02 08:13 8291 Apr 20 23:32 8291 Apr 26 06:06 8291 May 20 03:05 8291 May 31 09:25 8291 May 31 19:30 8291 Jun 03 06:20 8291 Jun 13 01:14 8291 Jul 07 02:11 8291 Jul 08 08:28 8291 Jul 10 07:05	0°₩ 10°₩07'12 0°Ψ 23°Ψ22'37 0°₩ 0°Ⅲ 14°Ш08'14 14°Ш39'50 17°Ш44'18 0°₩ 0°Ω 1°Ω34'12 3°Ω59'07	1°16'12
evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct	8288 Sep 04 15:12 8288 Sep 29 15:04 8288 Oct 01 12:47 8288 Oct 23 18:56 8288 Oct 31 15:59 8288 Dec 02 01:45 8288 Dec 11 13:34 8288 Dec 27 08:35 8289 Jan 01 16:09 8289 Jan 02 01:03 8289 Jan 02 01:03 8289 Jan 07 16:52 8289 Jan 20 14:57 8289 Jan 22 21:02	0°M 27°M56'56 0°\$\frac{1}{22}°\$\tilde{\$\sigma\$} 43'05 0°\$\tilde{\$\sigma} 20'\$\tilde{\$\sigma\$} 53'25 22°\tilde{\$\sigma\$} 20'1 17°\tilde{\$\sigma\$} 40'7 14°\tilde{\$\sigma\$} 24'9 14°\tilde{\$\sigma\$} 60'\tilde{\$\sigma\$} 24'12	-4.8m -4°29'51 4°27'19 0.28090 AU	superior conj minimum elong max. Earth dist.	8291 Mar 09 07:23 8291 Mar 17 10:23 8291 Apr 02 08:13 8291 Apr 20 23:32 8291 Apr 26 06:06 8291 May 20 03:05 8291 May 31 09:25 8291 May 31 19:30 8291 Jun 03 06:20 8291 Jun 13 01:14 8291 Jul 07 02:11 8291 Jul 08 08:28 8291 Jul 10 07:05 8291 Jul 31 06:53	0°₩ 10°₩07'12 0°Ψ 23°Ψ22'37 0°₩ 0°Ⅲ 14°Ш08'14 14°Ш39'50 17°Ш44'18 0°‰ 0°Ω 1°Ω34'12 3°Ω59'07 0°™	1°16'12
evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node	8288 Sep 04 15:12 8288 Sep 29 15:04 8288 Oct 01 12:47 8288 Oct 23 18:56 8288 Oct 31 15:59 8288 Dec 02 01:45 8288 Dec 11 13:34 8288 Dec 27 08:35 8289 Jan 01 16:09 8289 Jan 02 01:03 8289 Jan 02 01:03 8289 Jan 02 12:13 8289 Jan 07 16:52 8289 Jan 20 14:57 8289 Jan 22 21:02 8289 Feb 03 00:43	0°ጢ 27°ጤ56'56 0°҂ 22°҂⁴43'05 0°♂ 20°♂53'25 22°♂32'01 17°♂44'07 14°♂32'49 14°♂19'00 14°♂01'42 10°♂56'17 6°♂30'24 6°♂24'12 8°♂43'02	-4.8m -4°29'51 4°27'19	superior conj minimum elong max. Earth dist.	8291 Mar 09 07:23 8291 Mar 17 10:23 8291 Apr 02 08:13 8291 Apr 20 23:32 8291 Apr 26 06:06 8291 May 20 03:05 8291 May 31 09:25 8291 May 31 19:30 8291 Jun 03 06:20 8291 Jun 13 01:14 8291 Jul 07 02:11 8291 Jul 08 08:28 8291 Jul 10 07:05 8291 Jul 31 06:53 8291 Aug 24 16:07	0°₩ 10°₩07'12 0°Ψ 23°Ψ22'37 0°₩ 0°Ⅲ 14°Ш08'14 14°Ш39'50 17°Ш44'18 0°\$ 0°\$ 1°\$\Omega34'12 3°\$\Omega59'07 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$	1°16'12
evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy	8288 Sep 04 15:12 8288 Sep 29 15:04 8288 Oct 01 12:47 8288 Oct 23 18:56 8288 Oct 31 15:59 8288 Dec 02 01:45 8288 Dec 11 13:34 8288 Dec 27 08:35 8289 Jan 01 16:09 8289 Jan 02 01:03 8289 Jan 02 12:13 8289 Jan 07 16:52 8289 Jan 20 14:57 8289 Jan 22 21:02 8289 Feb 03 00:43 8289 Mar 04 22:37	0°ጢ 27°ጤ56'56 0°҂ 22°҂⁴43'05 0°♂ 20°♂53'25 22°♂32'01 17°♂44'07 14°♂32'49 14°♂19'00 14°♂01'42 10°♂56'17 6°♂30'24 6°♂24'12 8°♂43'02 0°≈	-4.8m -4°29'51 4°27'19 0.28090 AU -4.8m	superior conj minimum elong max. Earth dist.	8291 Mar 09 07:23 8291 Mar 17 10:23 8291 Apr 02 08:13 8291 Apr 20 23:32 8291 Apr 26 06:06 8291 May 20 03:05 8291 May 31 09:25 8291 May 31 19:30 8291 Jun 03 06:20 8291 Jun 13 01:14 8291 Jul 07 02:11 8291 Jul 08 08:28 8291 Jul 10 07:05 8291 Jul 31 06:53 8291 Aug 24 16:07 8291 Sep 18 07:30	0° X 10° X 07'12 0° Y 23° Y 22'37 0° 8 0° Π 14° Π 08'14 14° Π 39'50 17° Π 44'18 0° © 0° Λ 1° Λ 34'12 3° Λ 59'07 0° № 0° Λ 0° Λ	1°16'12
evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct	8288 Sep 04 15:12 8288 Sep 29 15:04 8288 Oct 01 12:47 8288 Oct 23 18:56 8288 Oct 31 15:59 8288 Dec 02 01:45 8288 Dec 11 13:34 8288 Dec 27 08:35 8289 Jan 01 16:09 8289 Jan 02 01:03 8289 Jan 02 12:13 8289 Jan 07 16:52 8289 Jan 20 14:57 8289 Jan 22 21:02 8289 Feb 03 00:43 8289 Mar 04 22:37 8289 Mar 14 05:24	0°M 27°M56'56 0°√2 22°√2'43'05 0°♂ 20°♂553'25 22°♂32'01 17°♂44'07 14°♂32'49 14°♂19'00 14°♂01'42 10°♂56'17 6°♂30'24 6°♂24'12 8°♂43'02 0°≈ 8°≈59'51	-4.8m -4°29'51 4°27'19 0.28090 AU	superior conj minimum elong max. Earth dist. asc. node evening rise	8291 Mar 09 07:23 8291 Mar 17 10:23 8291 Apr 02 08:13 8291 Apr 20 23:32 8291 Apr 26 06:06 8291 May 20 03:05 8291 May 31 09:25 8291 May 31 19:30 8291 Jun 03 06:20 8291 Jun 13 01:14 8291 Jul 07 02:11 8291 Jul 08 08:28 8291 Jul 10 07:05 8291 Jul 31 06:53 8291 Aug 24 16:07 8291 Sep 18 07:30 8291 Oct 13 07:50	0° X 10° X 07'12 0° Y 23° Y 22'37 0° 8 0° Π 14° Π 08'14 14° Π 39'50 17° Π 44'18 0° © 0° Ω 1° Ω 34'12 3° Ω 59'07 0° № 0° Ω 0° №	1°16'12
evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy	8288 Sep 04 15:12 8288 Sep 29 15:04 8288 Oct 01 12:47 8288 Oct 23 18:56 8288 Oct 31 15:59 8288 Dec 02 01:45 8288 Dec 11 13:34 8288 Dec 27 08:35 8289 Jan 01 16:09 8289 Jan 02 01:03 8289 Jan 02 12:13 8289 Jan 02 12:13 8289 Jan 07 16:52 8289 Jan 20 14:57 8289 Jan 20 14:57 8289 Jan 20 14:57 8289 Jan 22 21:02 8289 Feb 03 00:43 8289 Mar 04 22:37 8289 Mar 14 05:24 8289 Apr 03 00:02	0°M 27°M56'56 0°ズ 22°ズ43'05 0°उ 20°उ53'25 22°उ32'01 17°उ44'07 14°उ32'49 14°उ19'00 14°उ01'42 10°उ56'17 6°उ30'24 6°उ24'12 8°उ43'02 0°≈ 8°≈59'51 0°米	-4.8m -4°29'51 4°27'19 0.28090 AU -4.8m	superior conj minimum elong max. Earth dist.	8291 Mar 09 07:23 8291 Mar 17 10:23 8291 Apr 02 08:13 8291 Apr 20 23:32 8291 Apr 26 06:06 8291 May 20 03:05 8291 May 31 09:25 8291 May 31 19:30 8291 Jun 03 06:20 8291 Jun 13 01:14 8291 Jul 07 02:11 8291 Jul 08 08:28 8291 Jul 10 07:05 8291 Jul 31 06:53 8291 Aug 24 16:07 8291 Sep 18 07:30 8291 Oct 13 07:50 8291 Oct 28 02:36	0° ¥ 10° ¥07′12 0° Y 23° Y22′37 0° 8 0° II 14° II 08′14 14° II 39′50 17° II 44′18 0° © 0° Ω 1° Ω 34′12 3° Ω 59′07 0° II	1°16'12
evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy	8288 Sep 04 15:12 8288 Sep 29 15:04 8288 Oct 01 12:47 8288 Oct 23 18:56 8288 Oct 31 15:59 8288 Dec 02 01:45 8288 Dec 11 13:34 8288 Dec 27 08:35 8289 Jan 01 16:09 8289 Jan 02 01:03 8289 Jan 02 12:13 8289 Jan 07 16:52 8289 Jan 20 14:57 8289 Jan 22 21:02 8289 Feb 03 00:43 8289 Mar 04 22:37 8289 Mar 14 05:24	0°M 27°M56'56 0°√2 22°√2'43'05 0°♂ 20°♂553'25 22°♂32'01 17°♂44'07 14°♂32'49 14°♂19'00 14°♂01'42 10°♂56'17 6°♂30'24 6°♂24'12 8°♂43'02 0°≈ 8°≈59'51	-4.8m -4°29'51 4°27'19 0.28090 AU -4.8m	superior conj minimum elong max. Earth dist. asc. node evening rise	8291 Mar 09 07:23 8291 Mar 17 10:23 8291 Apr 02 08:13 8291 Apr 20 23:32 8291 Apr 26 06:06 8291 May 20 03:05 8291 May 31 09:25 8291 May 31 19:30 8291 Jun 03 06:20 8291 Jun 13 01:14 8291 Jul 07 02:11 8291 Jul 08 08:28 8291 Jul 10 07:05 8291 Jul 31 06:53 8291 Aug 24 16:07 8291 Sep 18 07:30 8291 Oct 13 07:50	0° X 10° X 07'12 0° Y 23° Y 22'37 0° 8 0° Π 14° Π 08'14 14° Π 39'50 17° Π 44'18 0° © 0° Ω 1° Ω 34'12 3° Ω 59'07 0° № 0° Ω 0° №	1°16'12

	8292 Jan 01 15:18	0° ∀			8294 Jun 03 14:43	0°Щ	
evening max el	8292 Jan 04 23:00	3°) 17′03	46°20'08		8294 Jun 27 15:51	0° ©	
evening max er	8292 Feb 07 04:40	0°Υ	10 20 00	morning set	8294 Jul 04 17:39	8°9548'57	
greatest brilliancy	8292 Feb 13 19:09	2°Υ57'26	-4.9m		8294 Jul 21 18:28	0°N	
asc. node	8292 Feb 18 02:26	4° Υ 10'34		asc. node	8294 Aug 04 20:28	17° Ω 28'41	
retrograde	8292 Feb 23 16:20	4° Υ 46'30					
evening set	8292 Mar 09 22:06	0° Υ 13'34		superior conj	8294 Aug 12 05:33	26° Ω 37'10	0°17'45
	8292 Mar 10 07:48	30° ₹ ₩		minimum elong	8294 Aug 12 01:36	26° Ω 24'57	0°17'28
inferior conj	8292 Mar 15 07:54	27°) €00′22	6°11'46	max. Earth dist.	8294 Aug 14 13:33	29° Ω 30′28	1.72757 AU
minimum elong	8292 Mar 14 20:55	27° 升 17'17	6°09'08		8294 Aug 14 23:05	0° m	
min. Earth dist.	8292 Mar 15 03:41	27°) €06'52	0.27022 AU		8294 Sep 08 05:41	0∘ 亚	
morning rise	8292 Mar 19 19:41	24° ₩ 18'11		evening rise	8294 Sep 18 08:29	12° ≏ 28'09	
direct	8292 Apr 05 00:37	19°) 11′59			8294 Oct 02 14:28	0° M	
greatest brilliancy	8292 Apr 14 19:54	21°) €01'02	-4.9m		8294 Oct 27 02:17	0° ∡ ¹	
	8292 Apr 30 17:46	0 ° $\mathbf{\gamma}$			8294 Nov 20 18:12	0°ප	
morning max el	8292 May 25 11:26	22° Y 00′54	46°56'49	desc. node	8294 Nov 24 14:15	4° る 38'38	
	8292 Jun 02 05:41	0°8			8294 Dec 15 15:04	0° ≈	
desc. node	8292 Jun 08 21:01	7° 8 04'34			8295 Jan 09 18:07	0° ∀	
	8292 Jun 29 10:19	0°Щ			8295 Feb 04 07:35	0° Υ	
	8292 Jul 25 05:08	0°©			8295 Mar 02 21:27	0°8	
	8292 Aug 19 10:38	0° N		asc. node	8295 Mar 17 13:56	15° 8 30'38	
	8292 Sep 13 09:26	0° m		evening max el	8295 Mar 18 17:52	16° 8 41'19	46°58'25
asc. node	8292 Sep 29 19:05	19° m 51'46			8295 Apr 01 16:56	0°П	4.0
	8292 Oct 08 03:15	0∘ 亚		greatest brilliancy	8295 Apr 28 12:17	17° Ⅱ 53'56	-4.9m
. ,	8292 Nov 01 16:28	0°M		retrograde	8295 May 08 08:03	19° Ⅱ 44'23	
morning set	8292 Nov 22 23:30	26° M .10′52 0° ⊀		evening set	8295 May 25 19:13	13° Ц 52'46 11° Ц 52'17	0010126
	8292 Nov 26 01:50	0° ਨ		inferior conj	8295 May 29 02:25	11° Д 32'17 11° Д 38'14	8°08'56
max. Earth dist.	8292 Dec 20 08:25 8292 Dec 27 15:03	0 3 9° ろ 00'49	1.72678 AU	minimum elong min. Earth dist.	8295 May 29 11:32 8295 May 29 04:05	11° II 49'43	0.27229 AU
max. Earth dist.	8292 DCC 27 13.03	9 00049	1.72078 AU	morning rise	8295 Jun 02 03:56	9° ∏ 24'55	0.27229 AU
superior conj	8292 Dec 30 00:51	11° る 59'54	0°46'53	direct	8295 Jun 18 18:23	9 П 24 33 4° П 03'37	
minimum elong	8292 Dec 30 00:51 8292 Dec 30 09:57	11 3 55534 12° 3 28'07	0°46'40	greatest brilliancy	8295 Jun 28 13:10	5° Ⅱ 50'45	-4.8m
minimum ciong	8293 Jan 13 13:06	0°≈	0 40 40	desc. node	8295 Jul 07 08:35	10° I I00'05	4.0111
desc. node	8293 Jan 19 12:00	7°≈23'50		dese. Hode	8295 Aug 01 17:15	0.2	
evening rise	8293 Feb 06 18:38	0°) €07'58		morning max el	8295 Aug 07 12:56	5° 9 34'25	46°17'41
	8293 Feb 06 16:05	0°) €			8295 Aug 31 01:14	0°N	
	8293 Mar 02 17:28	$0^{\circ}\Upsilon$			8295 Sep 26 21:11	0° m)	
	8293 Mar 26 18:16	0°8			8295 Oct 22 16:21	0∘ <mark>ಹ</mark>	
	8293 Apr 19 20:47	$\Pi^{\circ}0$		asc. node	8295 Oct 28 07:24	6° ₽ 39'02	
asc. node	8293 May 12 10:53	27° II 51'59			8295 Nov 16 20:29	0° M	
	8293 May 14 04:40	0 \circ \odot			8295 Dec 11 14:01	0° ∡ ¹	
	8293 Jun 07 22:55	$0^{\circ}\Omega$			8296 Jan 05 00:12	8°0	
	8293 Jul 03 11:54	0° m			8296 Jan 29 05:25	0° ≈	
	8293 Jul 30 15:34	0∘ ⊽		morning set	8296 Feb 02 02:26	4° ≈ 49'07	
evening max el	8293 Aug 11 08:25	11° ≙ 53'06	45°55'21	desc. node	8296 Feb 17 00:04	23° ≈ 23′28	
	8293 Aug 31 22:05	0°M			8296 Feb 22 07:04	0°) €	
desc. node	8293 Sep 01 05:44	0°M14'26		max. Earth dist.	8296 Mar 10 13:49	21°) 37′47	1.71486 AU
greatest brilliancy	8293 Sep 19 01:31	10°M34'43	-4.7m				
retrograde	8293 Sep 29 13:09	12°M34'38		superior conj	8296 Mar 13 02:05	24°) (46'43	
evening set	8293 Oct 17 12:34	6°M31'29		minimum elong	8296 Mar 12 14:37	24°) € 10'44	0°55'49
inferior conj	8293 Oct 21 03:11	4°M16'57			8296 Mar 17 05:58	0°Υ •••	
minimum elong	8293 Oct 20 23:30	4°M22'45			8296 Apr 10 03:10	0°8	
min. Earth dist.	8293 Oct 21 00:16	4°M21'32	0.29163 AU	evening rise	8296 Apr 22 11:12	15° 8 30'12	
morning rise	8293 Oct 24 10:26	2°M13'27			8296 May 04 00:22	0° ©	
direct	8293 Oct 28 07:24 8293 Nov 11 15:59	30°R ≏ 25° ≏ 59'41		asc. node	8296 May 27 23:54 8296 Jun 08 22:32	14°©51'25	
greatest brilliancy	8293 Nov 11 13.39 8293 Nov 22 01:16	27° ⊆ 56'24	-4.7m	asc. node	8296 Jun 21 04:07	0°Ω	
51 carest offmaney	8293 Nov 26 21:04	0°M	1./111		8296 Jul 15 15:26	0°m)	
asc. node	8293 Nov 20 21:04 8293 Dec 23 05:17	19°M22'55			8296 Aug 09 13:25	0∘ ت المار	
morning max el	8293 Dec 30 20:13	26°M35'47	45°57'12		8296 Sep 04 04:56	0° m .	
	8294 Jan 03 06:42	0° √	/	desc. node	8296 Sep 28 17:08	27°M18'08	
	8294 Jan 31 05:10	0°る			8296 Oct 01 05:38	0° ⊼ 7	
	8294 Feb 26 01:09	0°≈		evening max el	8296 Oct 21 10:38	20° ∡ ³31'51	45°43'04
	8294 Mar 22 23:05	0° ∀		Č	8296 Oct 31 19:35	8°0	
desc. node	8294 Apr 13 22:47	26°) 58′53		greatest brilliancy	8296 Nov 29 15:32	18° පි 38'04	-4.8m
	8294 Apr 16 09:27	$0^{\circ}\mathbf{\Upsilon}$		retrograde	8296 Dec 09 04:23	20° ප 16'57	
	8294 May 10 13:29	9° 8		evening set	8296 Dec 25 02:00	15° る 25'02	

inferior conj	8296 Dec 30 06:58	12° ප 16'56	-4°47'58	max. Earth dist.	8299 May 31 15:27	15° Ⅱ 08'43	1.71467 AU
minimum elong	8296 Dec 30 16:14	12° る 02'32	4°45'25		8299 Jun 12 11:57	0ಂಣ	
min. Earth dist.	8296 Dec 31 02:50	11° る 46'05	0.28148 AU		8299 Jul 06 12:54	$0^{\circ}\Omega$	
morning rise	8297 Jan 05 05:55	8° る 42'49		asc. node	8299 Jul 07 10:25	1° Ω 06′54	
asc. node	8297 Jan 19 16:51	4° පි 08'40		evening rise	8299 Jul 07 20:33	1° Ω 38′26	
direct	8297 Jan 20 12:57	4° る 07'49			8299 Jul 30 17:38	0° ™	
greatest brilliancy	8297 Jan 31 15:35	6° る 25'50	-4.8m		8299 Aug 24 03:01	0∘ ত	
	8297 Mar 05 00:22	0° ≈			8299 Sep 17 18:45	0° M	
morning max el	8297 Mar 11 20:55	6° ≈ 42'54	46°42'13		8299 Oct 12 19:46	0° ∡ ¹	
	8297 Apr 02 16:58	0° ∀		desc. node	8299 Oct 27 04:33	16° ₹ ′55'19	
	8297 Apr 28 18:30	0° Υ			8299 Nov 07 10:41	0°ප	
desc. node	8297 May 11 10:58	15° Y 05′21			8299 Dec 04 00:02	0° ≈	
	8297 May 23 20:02	0°8			8300 Jan 01 13:29	0° ∀	
	8297 Jun 17 10:44	0°Щ		evening max el	8300 Jan 02 11:59	0° ¥ 55'09	46°18'16
	8297 Jul 11 21:06	0°©			8300 Feb 09 20:45	0° Υ	
	8297 Aug 05 06:26	$\Omega^{\circ}\Omega$		greatest brilliancy	8300 Feb 11 08:47	0° Y 33'47	-4.8m
	8297 Aug 29 15:45	0° m/y		asc. node	8300 Feb 17 04:34	2°Υ03'08	
asc. node	8297 Sep 01 08:45	3°Mp 19'56		retrograde	8300 Feb 21 04:28	2° Υ 21'48	
morning set	8297 Sep 13 04:09	17° m 51'46			8300 Mar 04 00:49	30° ₹ ₩	
	8297 Sep 23 00:45	0∘ ™		evening set	8300 Mar 08 07:47	27°) 53'17	5952126
	8297 Oct 17 09:05	0°M		inferior conj	8300 Mar 13 20:49	24°\(\frac{1}{35}\)'54	5°53'26 5°50'46
aumorior comi	9207 Oct. 20, 00:15	3°M14'41	1024112	minimum elong min. Earth dist.	8300 Mar 13 10:00 8300 Mar 13 17:38	24°) 52'34 24°) 40'48	0.27029 AU
superior conj minimum elong	8297 Oct 20 00:15 8297 Oct 19 20:30	3°M03'08	1°24'15	morning rise	8300 Mar 18 12:03	24 X 40 48 21° X 48'35	0.27029 AU
max. Earth dist.	8297 Oct 19 20:30 8297 Oct 19 22:06	3°M08'03	1.73316 AU	direct	8300 Apr 03 13:03	16°) 47'01	
max. Lartii dist.	8297 Nov 10 17:04	0° ⊼	1.73310 AC	greatest brilliancy	8300 Apr 13 10:43	18°) 37'44	-4.9m
evening rise	8297 Nov 10 17:04 8297 Nov 25 15:03	18° ∡ 22'57		greatest offinality	8300 May 02 11:11	10 γ (3/44)	-4.9111
evening rise	8297 Dec 05 01:23	0°る		morning max el	8300 May 23 23:39	19° Υ 34'04	46°57'28
desc. node	8297 Dec 22 01:56	20° පි 57'10		morning max or	8300 Jun 03 01:24	0°8	10 37 20
acce. noue	8297 Dec 29 10:24	0°≈		desc. node	8300 Jun 08 22:57	6° 8 20'24	
	8298 Jan 22 19:57	0° ∀		acse. noue	8300 Jun 30 01:27	0°II	
	8298 Feb 16 06:15	0°Υ			8300 Jul 25 18:18	0°©	
	8298 Mar 12 19:30	0°8			8300 Aug 19 22:41	0°N	
	8298 Apr 06 17:18	$\Pi^{\circ}0$			8300 Sep 13 20:46	0° m)	
asc. node	8298 Apr 14 01:15	8° Ⅱ 40′34		asc. node	8300 Sep 29 21:05	19° m 24'24	
	8298 May 02 11:25	0 \circ \odot			8300 Oct 08 14:07	0∘ ⊽	
evening max el	8298 May 30 05:01	29° © 52'04	46°42'17		8300 Nov 02 03:04	0° M	
	8298 May 30 08:11	$0^{\circ}\Omega$		morning set	8300 Nov 21 16:48	24°ML03'57	
greatest brilliancy	8298 Jul 08 08:24	29° Ω 55'49	-4.8m		8300 Nov 26 12:18	0° ∡ ¹	
	8298 Jul 08 12:44	0° m			8300 Dec 20 18:55	0°ප	
retrograde	8298 Jul 19 09:14	2°Mp 10'27		max. Earth dist.	8300 Dec 26 09:05	6° る 55'28	1.72721 AU
	8298 Jul 29 17:59	30° R Ω					
evening set	8298 Aug 03 05:02	27° Ω 50′28		superior conj	8300 Dec 28 16:37	9° ප 47'31	0°49'44
desc. node	8298 Aug 03 20:12	27° Ω 29'28		minimum elong	8300 Dec 29 02:00	10° る 16'32	0°49'31
min. Earth dist.	8298 Aug 08 23:01		0.28040 AU		8301 Jan 13 23:41	0° ≈	
inferior conj	8298 Aug 09 13:24	24° Ω 02'53		desc. node	8301 Jan 19 14:00	6° ≈ 57'06	
minimum elong	8298 Aug 09 10:13	24° Ω 07'50	1°24'02	evening rise	8301 Feb 05 08:29	27°≈48'20	
morning rise	8298 Aug 15 16:14	20° Ω 25'02			8301 Feb 07 02:48	0°) €	
direct	8298 Aug 30 17:06	16° Ω 04'11	4.0		8301 Mar 03 04:23	0°Υ •••	
greatest brilliancy	8298 Sep 09 08:56	17° Ω 46'26	-4.8m		8301 Mar 27 05:24	0° B	
mamina may al	8298 Sep 30 06:49	0°Mp 15°m⊳52!21	15010155	aca mada	8301 Apr 20 08:14	0° П 27° П 21'27	
morning max el	8298 Oct 18 10:58 8298 Nov 01 13:59	15°₯53'31 0°₽	43 42 33	asc. node	8301 May 12 12:46 8301 May 14 16:35	27 11 2127 0°€	
asc. node	8298 Nov 24 19:26	0 = 25° ⊆ 09'10			8301 Jun 08 11:38	0° U	
asc. node	8298 Nov 29 02:45	0°M			8301 Jul 04 02:13	0° m)	
	8298 Dec 24 23:48	0° ⊼ ⊓			8301 Jul 31 09:54	0∘ ত الم	
	8299 Jan 19 00:20	0°ਤ		evening max el	8301 Aug 09 23:04	ა _ 9° ჲ 38'48	45°56'44
	8299 Feb 12 13:01	0°≈		desc. node	8301 Sep 01 07:50	29° ≏ 08'01	.5 50 17
	8299 Mar 08 18:27	0° ∺		acce. node	8301 Sep 02 12:42	0°M	
desc. node	8299 Mar 16 12:27	9° ∺ 39'20		greatest brilliancy	8301 Sep 17 16:32	8°M24'47	-4.7m
	8299 Apr 01 19:08	0° Υ		retrograde	8301 Sep 28 05:37	10°M26'27	
morning set	8299 Apr 18 09:49	20°Υ50'14		evening set	8301 Oct 16 02:34	4°M26'21	
Z .	8299 Apr 25 16:55	0°8		inferior conj	8301 Oct 19 19:35	2°M08'28	-8°24'54
	8299 May 19 13:50	0°Щ		minimum elong	8301 Oct 19 15:11	2°M15'23	8°24'32
	-			min. Earth dist.	8301 Oct 19 15:35	2°M14'46	0.29156 AU
superior conj	8299 May 28 21:04	11° ∏ 40′34	-1°18'09	morning rise	8301 Oct 23 03:48	0° M .03'41	
minimum elong	8299 May 29 06:36	12° Ⅱ 10′27	1°18'05		8301 Oct 23 06:14	30° ₽ Ω	

direct	8301 Nov 10 07:49	23° £ 51'19			8304 May 04 11:13	$\Pi^{\circ}0$	
greatest brilliancy	8301 Nov 20 17:00	25° £ 47'53	4.7m		8304 May 28 10:53	0°9	
greatest offinality		0°M	-4./111	asc. node		14°S23'02	
1	8301 Nov 29 12:40			asc. node	8304 Jun 09 00:29		
asc. node	8301 Dec 23 07:12	18°M30'48	45056100		8304 Jun 21 15:19	0° Ω	
morning max el	8301 Dec 29 11:45	24°M24'04	45°56'00		8304 Jul 16 03:02	0° m	
	8302 Jan 04 02:37	0° ⊼			8304 Aug 10 01:42	0∘ 亚	
	8302 Jan 31 19:58	0°る			8304 Sep 04 18:37	0° ™	
	8302 Feb 26 14:04	0° ≈		desc. node	8304 Sep 28 19:03	26°M39'07	
	8302 Mar 23 11:06	0° ∀			8304 Oct 01 22:36	0°⊀	
desc. node	8302 Apr 14 00:42	26°) 29′04		evening max el	8304 Oct 20 02:19	18° ∡ ′21′15	45°42'39
	8302 Apr 16 20:58	$0^{\circ}\mathbf{\Upsilon}$			8304 Nov 02 00:42	0°ಕ	
	8302 May 11 00:41	9° 8		greatest brilliancy	8304 Nov 28 06:08	16° る 24'48	-4.8m
	8302 Jun 04 01:41	Π $^{\circ}0$		retrograde	8304 Dec 07 18:58	18° る 03'13	
	8302 Jun 28 02:36	0 \circ		evening set	8304 Dec 23 19:45	13° る 07'23	
morning set	8302 Jul 03 07:29	6° ॐ 29'09		inferior conj	8304 Dec 28 22:02	10°る02'37	-5°05'28
	8302 Jul 22 05:03	0 $^{\circ}\Omega$		minimum elong	8304 Dec 29 07:37	9° る 47'42	5°02'54
asc. node	8302 Aug 04 22:30	17° Ω 02'17		min. Earth dist.	8304 Dec 29 17:54	9° ට 31'42	0.28202 AU
				morning rise	8305 Jan 03 18:59	6° る 30'53	
superior conj	8302 Aug 10 21:01	24° Ω 23'52	0°14'20	direct	8305 Jan 19 04:50	1°る53'00	
minimum elong	8302 Aug 10 17:48	24° Ω 13'54	0°14'05	asc. node	8305 Jan 19 18:56	1°る53'25	
behind sun begin	8302 Aug 10 06:22	23° Ω 38'30		greatest brilliancy	8305 Jan 30 06:43	4°る10'03	-4.8m
behind sun end	8302 Aug 11 05:13	24° Ω 49'17			8305 Mar 06 00:30	0° ≈	
max. Earth dist.	8302 Aug 13 05:38	27° Ω 19'13	1.72719 AU	morning max el	8305 Mar 10 11:46	4°≈25'09	46°40'46
	8302 Aug 15 09:35	0° m			8305 Apr 03 09:19	0°) €	
	8302 Sep 08 16:11	$0 \circ \overline{\mathbf{v}}$			8305 Apr 29 08:17	o°Υ	
evening rise	8302 Sep 17 01:55	10° £ 21'42		desc. node	8305 May 11 12:55	14° Υ 32'02	
evening rise	8302 Oct 03 01:04	0°M		dese. Hode	8305 May 24 08:35	0°8	
	8302 Oct 27 13:04	0° ⊼ 7			8305 Jun 17 22:34	0°II	
	8302 Nov 21 05:21	ੁੰਤ			8305 Jul 12 08:28	0.© 0 H	
desc. node	8302 Nov 24 16:09	4° る 10′23			8305 Aug 05 17:28	0° U	
desc. flode	8302 Nov 24 10:09 8302 Dec 16 02:50	4°≈			8305 Aug 30 02:32	0° m)	
	8303 Jan 10 06:53	0° ∀		asc. node	8305 Sep 01 10:44	2° My 52'55	
	8303 Feb 04 22:05	0°Υ			*	-	
		0°8		morning set	8305 Sep 11 20:47	15° Mp 42'27 0° <u> </u>	
avanina may al	8303 Mar 03 15:41		16057115		8305 Sep 23 11:21	0°M	
evening max el	8303 Mar 17 07:43	14° 8 18'42	46°57'45		8305 Oct 17 19:36	りずまし	
	020236 17 17 72	140 4 2011 2					
asc. node	8303 Mar 17 15:52	14° 8 39'12			0205 0 + 10 17 51	1070 00124	1000100
	8303 Apr 03 00:36	$\Pi^{\circ}0$	4.0	superior conj	8305 Oct 18 17:51	1°M.08'34	
greatest brilliancy	8303 Apr 03 00:36 8303 Apr 27 01:18	0°Ⅱ 15°Ⅱ28'46	-4.9m	minimum elong	8305 Oct 18 13:28	0°M55'02	1°23'31
greatest brilliancy retrograde	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52	0°Ⅱ 15°Ⅱ28'46 17°Ⅱ19'44	-4.9m		8305 Oct 18 13:28 8305 Oct 18 17:43	0°M55'02 1°M08'08	
greatest brilliancy retrograde evening set	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27	0°П 15°П28'46 17°П19'44 11°П23'09		minimum elong max. Earth dist.	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37	0°M55'02 1°M08'08 0°⊀	1°23'31
greatest brilliancy retrograde evening set inferior conj	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21	0°П 15°П28'46 17°П19'44 11°П23'09 9°П27'40	8°20'58	minimum elong	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42	0°M.55'02 1°M.08'08 0°⊀ 16°⊀13'37	1°23'31
greatest brilliancy retrograde evening set inferior conj minimum elong	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54	0°П 15°П28'46 17°П19'44 11°П23'09 9°П27'40 9°П14'30	8°20'58 8°19'40	minimum elong max. Earth dist. evening rise	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06	0°M.55'02 1°M.08'08 0°⊀ 16°⊀13'37 0°♂	1°23'31
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34	0°П 15°П28'46 17°П19'44 11°П23'09 9°П27'40 9°П14'30 9°П25'48	8°20'58	minimum elong max. Earth dist.	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58	0°M55'02 1°M08'08 0°ダ 16°ダ13'37 0°उ 20°उ29'54	1°23'31
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25	0°П 15°П28'46 17°П19'44 11°П23'09 9°П27'40 9°П14'30 9°П25'48 7°П07'01	8°20'58 8°19'40	minimum elong max. Earth dist. evening rise	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23	0°M.55'02 1°M.08'08 0° ೩ 116° ೩ 13'37 0° ವ 20° ವ 29'54 0° ≈	1°23'31
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32	0°П 15°П28'46 17°П19'44 11°П23'09 9°П27'40 9°П14'30 9°П25'48 7°П07'01 1°П39'07	8°20'58 8°19'40 0.27220 AU	minimum elong max. Earth dist. evening rise	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16	0°M.55'02 1°M.08'08 0°♂ 16°♂13'37 0°云 20°云29'54 0°≈ 0°升	1°23'31
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07	0°П 15°П28'46 17°П19'44 11°П23'09 9°П27'40 9°П14'30 9°П25'48 7°П07'01 1°П39'07 3°П25'47	8°20'58 8°19'40	minimum elong max. Earth dist. evening rise	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01	0°M55'02 1°M08'08 0°水 16°水13'37 0°云 20°云29'54 0°無 0°升 0°介	1°23'31
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jul 07 10:35	0°П 15°П28'46 17°П19'44 11°П23'09 9°П27'40 9°П14'30 9°П25'48 7°П07'01 1°П39'07 3°П25'47 8°П32'04	8°20'58 8°19'40 0.27220 AU	minimum elong max. Earth dist. evening rise	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55	0°M55'02 1°M08'08 0°水 16°水13'37 0°云 20°云29'54 0°≈ 0°升 0°Υ 0°Υ	1°23'31
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jul 07 10:35 8303 Aug 02 18:17	0°Ⅱ 15°Ⅱ28'46 17°Ⅱ19'44 11°Ⅱ23'09 9°Ⅱ27'40 9°Ⅲ14'30 9°Ⅲ25'48 7°Ⅱ07'01 1°Ⅲ39'07 3°Ⅲ25'47 8°Ⅲ32'04 0°☞	8°20'58 8°19'40 0.27220 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52	0°M.55'02 1°M.08'08 0° ₹ 16° ₹13'37 0° ₹ 20° ₹29'54 0° ₹ 0° ¥ 0° ¥ 0° ¥ 0° ¥	1°23'31
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jul 07 10:35 8303 Aug 02 18:17 8303 Aug 06 03:47	0°П 15°П28'46 17°П19'44 11°П23'09 9°П27'40 9°П14'30 9°П25'48 7°П07'01 1°П39'07 3°П25'47 8°П32'04	8°20'58 8°19'40 0.27220 AU -4.8m	minimum elong max. Earth dist. evening rise	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55	0°M.55'02 1°M.08'08 0°ズ 16°ズ13'37 0°云 20°云29'54 0°※ 0°升 0°升 0°円 8°用.04'51	1°23'31
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jul 07 10:35 8303 Aug 02 18:17	0°Ⅱ 15°Ⅱ28'46 17°Ⅱ19'44 11°Ⅱ23'09 9°Ⅱ27'40 9°Ⅲ14'30 9°Ⅲ25'48 7°Ⅱ07'01 1°Ⅲ39'07 3°Ⅲ25'47 8°Ⅲ32'04 0°☞	8°20'58 8°19'40 0.27220 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52 8306 Apr 14 03:09 8306 May 03 03:21	0°M.55'02 1°M.08'08 0° ₹ 16° ₹13'37 0° ₹ 20° ₹29'54 0° ₹ 0° ¥ 0° ¥ 0° ¥ 0° ¥	1°23'31
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jul 07 10:35 8303 Aug 02 18:17 8303 Aug 06 03:47	0°Ⅱ 15°Ⅱ28'46 17°Ⅱ19'44 11°Ⅱ23'09 9°Ⅱ27'40 9°Ⅲ14'30 9°Ⅲ25'48 7°Ⅲ07'01 1°Ⅱ39'07 3°Ⅱ25'47 8°Ⅲ32'04 0° 3°17'15	8°20'58 8°19'40 0.27220 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52 8306 Apr 14 03:09	0°M.55'02 1°M.08'08 0°ズ 16°ズ13'37 0°云 20°云29'54 0°※ 0°升 0°升 0°円 8°用.04'51	1°23'31
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jul 07 10:35 8303 Aug 02 18:17 8303 Aug 06 03:47 8303 Aug 31 17:45	0°II 15°II28'46 17°II19'44 11°II23'09 9°II27'40 9°II4'30 9°II25'48 7°II07'01 1°II39'07 3°II25'47 8°II32'04 0°S 3°SI17'15 0°Ω	8°20'58 8°19'40 0.27220 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52 8306 Apr 14 03:09 8306 May 03 03:21	0°M.55'02 1°M.08'08 0°ダ 16°ダ13'37 0°उ 20°उ29'54 0°≈ 0°升 0°Y 0°B 0°I 8°I04'51 0°©	1°23'31 1.73313 AU
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jul 07 10:35 8303 Aug 02 18:17 8303 Aug 06 03:47 8303 Aug 31 17:45 8303 Sep 27 10:46	0°∏ 15°∏28'46 17°∏19'44 11°∏23'09 9°∏27'40 9°∏14'30 9°∏25'48 7°∏07'01 1°∏39'07 3°∏25'47 8°∏32'04 0°∰ 3°∰17'15 0°Д 0°∰	8°20'58 8°19'40 0.27220 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52 8306 Apr 14 03:09 8306 May 03 03:21 8306 May 28 19:43	0°M.55'02 1°M.08'08 0°ダ 16°ダ13'37 0°云 20°云29'54 0°糸 0°升 0°升 0°円 0°出 8°用.04'51 0°© 27°©33'33	1°23'31 1.73313 AU
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jul 07 10:35 8303 Aug 02 18:17 8303 Aug 06 03:47 8303 Aug 31 17:45 8303 Sep 27 10:46 8303 Oct 23 04:31	0° Π 15° Π28'46 17° Π19'44 11° Π23'09 9° Π27'40 9° Π14'30 9° Π25'48 7° Π07'01 1° Π39'07 3° Π25'47 8° Π32'04 0° Φ 3° Φ17'15 0° Ω 0° ႃႃΦ 0° Φ	8°20'58 8°19'40 0.27220 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node asc. node evening max el	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52 8306 Apr 14 03:09 8306 May 03 03:21 8306 May 28 19:43 8306 May 31 06:38	0°M.55'02 1°M.08'08 0° ₹ 16° ₹ 13'37 0° ₹ 20° ₹ 29'54 0° ₩ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 27° \$33'33 0° \$\mathcal{Q}\$	1°23'31 1.73313 AU 46°43'28
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jul 07 10:35 8303 Aug 02 18:17 8303 Aug 06 03:47 8303 Aug 31 17:45 8303 Sep 27 10:46 8303 Oct 23 04:31 8303 Oct 28 09:13	0° Π 15° Π28'46 17° Π19'44 11° Π23'09 9° Π27'40 9° Π14'30 9° Π25'48 7° Π07'01 1° Π39'07 3° Π25'47 8° Π32'04 0° © 3° © 17'15 0° Ω 0° ™ 0° Ω 6° Ω09'03	8°20'58 8°19'40 0.27220 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node asc. node evening max el greatest brilliancy	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52 8306 Apr 14 03:09 8306 May 03 03:21 8306 May 28 19:43 8306 May 31 06:38 8306 Jul 07 01:11	0°M.55'02 1°M.08'08 0°水 16°水13'37 0°云 20°云29'54 0°अ 0°भ 0°भ 0°भ 0°B 0°B 27°愛33'33 0°Ω 27°Ω41'19	1°23'31 1.73313 AU 46°43'28
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jul 07 10:35 8303 Aug 02 18:17 8303 Aug 06 03:47 8303 Aug 31 17:45 8303 Sep 27 10:46 8303 Oct 23 04:31 8303 Oct 28 09:13 8303 Nov 17 07:52	0° II 15° II 28'46 17° II 19'44 11° II 23'09 9° II 27'40 9° II 14'30 9° II 25'48 7° II 07'01 1° II 39'07 3° II 25'47 8° II 32'04 0° S 3° S 17'15 0° Ω 0° II 0° III 0	8°20'58 8°19'40 0.27220 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node asc. node evening max el greatest brilliancy retrograde	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52 8306 Apr 14 03:09 8306 May 03 03:21 8306 May 03 03:21 8306 May 13 06:38 8306 Jul 07 01:11 8306 Jul 18 00:09	0°M.55'02 1°M.08'08 0°\$\frac{1}{2}'13'37 0°\$\frac{2}{2}'54 0°\$\times 0°\$\times 0°\$\times 0°\$\times 0°\$\times 0°\$\times 27°\$\frac{3}{2}'33 0°\$\times 27°\$\times 41'19 29°\$\times 54'11	1°23'31 1.73313 AU 46°43'28
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jul 07 10:35 8303 Aug 02 18:17 8303 Aug 06 03:47 8303 Aug 31 17:45 8303 Sep 27 10:46 8303 Oct 23 04:31 8303 Oct 28 09:13 8303 Nov 17 07:52 8303 Dec 12 00:58	0° II 15° II 28'46 17° II 19'44 11° II 23'09 9° II 27'40 9° II 14'30 9° II 25'48 7° II 07'01 1° II 39'07 3° II 25'47 8° II 32'04 0° II	8°20'58 8°19'40 0.27220 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52 8306 Apr 14 03:09 8306 May 03 03:21 8306 May 28 19:43 8306 May 31 06:38 8306 Jul 07 01:11 8306 Jul 18 00:09 8306 Aug 01 20:11	0°M.55'02 1°M.08'08 0°ダ 16°ダ13'37 0°云 20°云29'54 0°※ 0°升 0°升 8°M04'51 0°⑤ 27°⑤33'33 0°ん 27°ん41'19 29°ん54'11 25°ん34'47 24°ん23'33	1°23'31 1.73313 AU 46°43'28
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jul 07 10:35 8303 Aug 02 18:17 8303 Aug 06 03:47 8303 Aug 31 17:45 8303 Aug 31 17:45 8303 Sep 27 10:46 8303 Oct 23 04:31 8303 Nov 17 07:52 8303 Dec 12 00:58 8304 Jan 05 10:55	0°用 15°用28'46 17°用19'44 11°用23'09 9°用27'40 9°用14'30 9°用25'48 7°用07'01 1°用39'07 3°用25'47 8°用32'04 0°ឆ 3°ឆ17'15 0°ሺ 0°ዂ 0°ዹ 6°ዹ09'03 0°ዂ	8°20'58 8°19'40 0.27220 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set desc. node	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52 8306 Apr 14 03:09 8306 May 03 03:21 8306 May 28 19:43 8306 May 31 06:38 8306 Jul 07 01:11 8306 Jul 18 00:09 8306 Aug 01 20:11 8306 Aug 03 22:17	0°M.55'02 1°M.08'08 0°ダ 16°ダ13'37 0°云 20°云29'54 0°※ 0°升 0°升 8°M04'51 0°⑤ 27°⑤33'33 0°ん 27°ん41'19 29°ん54'11 25°ん34'47 24°ん23'33	1°23'31 1.73313 AU 46°43'28 -4.8m
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jul 07 10:35 8303 Aug 02 18:17 8303 Aug 06 03:47 8303 Aug 31 17:45 8303 Aug 31 17:45 8303 Sep 27 10:46 8303 Oct 23 04:31 8303 Oct 28 09:13 8303 Dec 12 00:58 8304 Jan 05 10:55 8304 Jan 29 16:02	0° II 15° II 28'46 17° II 19'44 11° II 23'09 9° II 27'40 9° II 14'30 9° II 25'48 7° II 07'01 1° II 39'07 3° II 25'47 8° II 32'04 0° II	8°20'58 8°19'40 0.27220 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set desc. node min. Earth dist.	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52 8306 Apr 14 03:09 8306 May 03 03:21 8306 May 28 19:43 8306 May 31 06:38 8306 Jul 07 01:11 8306 Jul 18 00:09 8306 Aug 01 20:11 8306 Aug 03 22:17 8306 Aug 07 14:49	0°M.55'02 1°M.08'08 0°ズ 16°ズ13'37 0°云 20°云29'54 0°※ 0°光 0°光 0°光 0°別 8°I.04'51 0°⑤ 27°⑤33'33 0°Ω 27°⑥34'1'19 29°Ω.54'11 25°Ω.34'47 24°Ω.23'33 22°Ω.08'32	1°23'31 1.73313 AU 46°43'28 -4.8m 0.27993 AU -1°03'24
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el asc. node	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jul 07 10:35 8303 Aug 02 18:17 8303 Aug 06 03:47 8303 Aug 31 17:45 8303 Aug 31 17:45 8303 Sep 27 10:46 8303 Oct 23 04:31 8303 Oct 28 09:13 8303 Dec 12 00:58 8304 Jan 05 10:55 8304 Jan 29 16:02 8304 Jan 31 16:41	0° II 15° II 28'46 17° II 19'44 11° II 23'09 9° II 27'40 9° II 14'30 9° II 25'48 7° II 07'01 1° II 39'07 3° II 25'47 8° II 32'04 0° II	8°20'58 8°19'40 0.27220 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set desc. node min. Earth dist. inferior conj	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52 8306 Apr 14 03:09 8306 May 03 03:21 8306 May 28 19:43 8306 May 31 06:38 8306 Jul 07 01:11 8306 Jul 18 00:09 8306 Aug 01 20:11 8306 Aug 03 22:17 8306 Aug 07 14:49 8306 Aug 08 04:17	0°M.55'02 1°M.08'08 0° ** 16° **13'37 0° ** 20° ** 22° ** 229'54 0° ** 0° ** 0° ** 0° ** 0° ** 0° ** 0° ** 18° ** 104'51 0° ** 27° ** 233'33 0° ** 27° ** 24° ** 24° ** 23'33 22° ** 22° ** 21° ** 24' ** 24' ** 23'33 22° ** 21° ** 24' ** 24' ** 23'33 22' ** 21° ** 24' ** 24' ** 24' ** 23'33 22' ** 21° ** 24' ** 24' ** 24' ** 24' ** 23'33 22' ** 21° ** 24' **	1°23'31 1.73313 AU 46°43'28 -4.8m 0.27993 AU -1°03'24
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el asc. node	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jul 07 10:35 8303 Aug 02 18:17 8303 Aug 06 03:47 8303 Aug 31 17:45 8303 Aug 31 17:45 8303 Sep 27 10:46 8303 Oct 23 04:31 8303 Oct 28 09:13 8303 Nov 17 07:52 8303 Dec 12 00:58 8304 Jan 05 10:55 8304 Jan 29 16:02 8304 Jan 31 16:41 8304 Feb 17 02:09	0° II 15° II 28'46 17° II 19'44 11° II 23'09 9° II 27'40 9° II 14'30 9° II 25'48 7° II 07'01 1° II 39'07 3° II 25'47 8° II 32'04 0° II 0°	8°20'58 8°19'40 0.27220 AU -4.8m	minimum elong max. Earth dist. evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set desc. node min. Earth dist. inferior conj minimum elong	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52 8306 Apr 14 03:09 8306 May 03 03:21 8306 May 28 19:43 8306 May 31 06:38 8306 Jul 07 01:11 8306 Jul 18 00:09 8306 Aug 01 20:11 8306 Aug 03 22:17 8306 Aug 07 14:49 8306 Aug 08 04:17 8306 Aug 08 01:54	0°M.55'02 1°M.08'08 0° ** 16° ** 13'37 0° ** 20° ** 22° ** 229'54 0° ** 0° ** 0° ** 0° ** 0° ** 0° ** 0° ** 18° ** 104'51 0° ** 27° ** 23'33 0° ** 27° ** 24° ** 24° ** 24° ** 23'33 22° ** 21° ** 24' ** 24' ** 24' ** 23'33 22' ** 21° ** 21° ** 21° ** 21° ** 21° ** 21° ** 21° ** 21° ** 21° ** 21° ** 25' ** 21°	1°23'31 1.73313 AU 46°43'28 -4.8m 0.27993 AU -1°03'24
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el asc. node	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jul 07 10:35 8303 Aug 02 18:17 8303 Aug 06 03:47 8303 Aug 31 17:45 8303 Aug 31 17:45 8303 Sep 27 10:46 8303 Oct 23 04:31 8303 Oct 28 09:13 8303 Nov 17 07:52 8303 Jun 05 10:55 8304 Jan 05 10:55 8304 Jan 29 16:02 8304 Feb 17 02:09 8304 Feb 22 17:41	0° II 15° II 28'46 17° II 19'44 11° II 23'09 9° II 27'40 9° II 14'30 9° II 25'48 7° II 07'01 1° II 39'07 3° II 25'47 8° II 32'04 0° II 0°	8°20'58 8°19'40 0.27220 AU -4.8m 46°19'25	minimum elong max. Earth dist. evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set desc. node min. Earth dist. inferior conj minimum elong morning rise	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52 8306 Apr 14 03:09 8306 May 03 03:21 8306 May 28 19:43 8306 May 31 06:38 8306 Jul 07 01:11 8306 Jul 18 00:09 8306 Aug 01 20:11 8306 Aug 03 22:17 8306 Aug 07 14:49 8306 Aug 08 04:17 8306 Aug 08 01:54 8306 Aug 14 08:22	0°M.55'02 1°M.08'08 0° ** 16° ** 13'37 0° ** 20° *529'54 0° ** 0° ** 0° ** 0° ** 0° ** 0° ** 0° ** 0° ** 0° ** 0° ** 0° ** 0° ** 0° ** 0° ** 27° ** 33'33 0° ** 27° ** 43'119 29° ** 45'111 25° ** 43'47 24° ** 42' ** 42' ** 42' ** 42' ** 43'33 22' ** 40'7'34 21' ** 45'	1°23'31 1.73313 AU 46°43'28 -4.8m 0.27993 AU -1°03'24 1°02'46
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el asc. node	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jun 07 10:35 8303 Aug 02 18:17 8303 Aug 06 03:47 8303 Aug 06 03:47 8303 Aug 31 17:45 8303 Sep 27 10:46 8303 Oct 23 04:31 8303 Oct 23 04:31 8303 Oct 28 09:13 8303 Nov 17 07:52 8303 Dec 12 00:58 8304 Jan 05 10:55 8304 Jan 29 16:02 8304 Jan 31 16:41 8304 Feb 17 02:09 8304 Feb 22 17:41	0° II 15° II 28'46 17° II 19'44 11° II 23'09 9° II 27'40 9° II 14'30 9° II 25'48 7° II 07'01 1° II 39'07 3° II 25'47 8° II 32'04 0° II 0°	8°20'58 8°19'40 0.27220 AU -4.8m 46°19'25	minimum elong max. Earth dist. evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set desc. node min. Earth dist. inferior conj minimum elong morning rise direct	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52 8306 Apr 14 03:09 8306 May 03 03:21 8306 May 31 06:38 8306 Jul 07 01:11 8306 Jul 18 00:09 8306 Aug 01 20:11 8306 Aug 03 22:17 8306 Aug 07 14:49 8306 Aug 08 04:17 8306 Aug 08 01:54 8306 Aug 14 08:22 8306 Aug 29 07:23	0°M.55'02 1°M.08'08 0° 🖈 16° 🖈 13'37 0° 云 20° 云 29'54 0° ※ 0° 升 0° 分 0° 別 8° 用 04'51 0° ⑤ 27° ⑤ 33'33 0° ብ 27° ብ 41'19 29° ብ 54'11 25° ብ 34'47 24° ብ 23'33 22° ብ 08'32 21° ብ 47'34 21° ብ 51'17 18° ብ 07'44 13° ብ 49'36	1°23'31 1.73313 AU 46°43'28 -4.8m 0.27993 AU -1°03'24 1°02'46
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el asc. node morning set desc. node max. Earth dist.	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jun 07 10:35 8303 Aug 02 18:17 8303 Aug 06 03:47 8303 Aug 06 03:47 8303 Aug 31 17:45 8303 Sep 27 10:46 8303 Oct 23 04:31 8303 Oct 28 09:13 8303 Nov 17 07:52 8303 Dec 12 00:58 8304 Jan 05 10:55 8304 Jan 29 16:02 8304 Feb 17 02:09 8304 Feb 17 02:09 8304 Feb 22 17:41 8304 Mar 09 01:12	0°用 15°用28'46 17°用19'44 11°用23'09 9°用27'40 9°用14'30 9°用25'48 7°用07'01 1°用39'07 3°用25'47 8°用32'04 0°១ 3°១17'15 0°ብ 0°෩ 0°료 6°료09'03 0°肌 0°ポ 0°ጜ 0°ጜ 2°≈31'13 22°≈56'47 0°升	8°20'58 8°19'40 0.27220 AU -4.8m 46°19'25	minimum elong max. Earth dist. evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set desc. node min. Earth dist. inferior conj minimum elong morning rise direct	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52 8306 Apr 14 03:09 8306 May 03 03:21 8306 May 28 19:43 8306 May 31 06:38 8306 Jul 07 01:11 8306 Jul 18 00:09 8306 Aug 01 20:11 8306 Aug 03 22:17 8306 Aug 07 14:49 8306 Aug 08 04:17 8306 Aug 08 01:54 8306 Aug 14 08:22 8306 Aug 29 07:23 8306 Sep 07 23:36	0°M.55'02 1°M.08'08 0°ズ 16°ズ13'37 0°云 20°云29'54 0°※ 0°升 0°分 0°別 8°用04'51 0°孁 27°愛33'33 0°別 27°別41'19 29°別54'11 25°別34'47 24°別23'33 22°別08'32 21°別47'34 21°別51'17 18°別07'44 13°別49'36 15°別31'46	1°23'31 1.73313 AU 46°43'28 -4.8m 0.27993 AU -1°03'24 1°02'46
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el asc. node morning set desc. node max. Earth dist. superior conj	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jun 07 10:35 8303 Aug 02 18:17 8303 Aug 06 03:47 8303 Aug 06 03:47 8303 Aug 31 17:45 8303 Aug 31 17:45 8303 Oct 23 04:31 8303 Oct 23 04:31 8303 Oct 28 09:13 8303 Nov 17 07:52 8303 Dec 12 00:58 8304 Jan 05 10:55 8304 Jan 29 16:02 8304 Feb 17 02:09 8304 Feb 22 17:41 8304 Mar 09 01:12	0°用 15°用28'46 17°用19'44 11°用23'09 9°用27'40 9°用14'30 9°用25'48 7°用07'01 1°用39'07 3°用25'47 8°用32'04 0°© 3°©17'15 0°ብ 0°™ 0°료 6°료09'03 0°™ 0°ボ 0°ボ 0°ボ 10°ボ 10°ボ 10°ボ 10°ボ 10°ボ 10	8°20'58 8°19'40 0.27220 AU -4.8m 46°19'25	minimum elong max. Earth dist. evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set desc. node min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52 8306 Apr 14 03:09 8306 May 03 03:21 8306 May 28 19:43 8306 May 31 06:38 8306 Jul 07 01:11 8306 Jul 18 00:09 8306 Aug 01 20:11 8306 Aug 03 22:17 8306 Aug 07 14:49 8306 Aug 08 04:17 8306 Aug 08 01:54 8306 Aug 14 08:22 8306 Aug 29 07:23 8306 Sep 07 23:36 8306 Oct 01 17:00	0°M.55'02 1°M.08'08 0°ズ 16°ズ13'37 0°云 20°云29'54 0°※ 0°升 0°升 0°円 8°用04'51 0°孁 27°愛33'33 0°凡 27°凡41'19 29°凡54'11 25°凡34'47 24°凡23'33 22°凡08'32 21°凡47'34 21°凡51'17 18°凡07'44 13°凡49'36 15°凡31'46 0°順	1°23'31 1.73313 AU 46°43'28 -4.8m 0.27993 AU -1°03'24 1°02'46
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el asc. node morning set desc. node max. Earth dist. superior conj	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jul 07 10:35 8303 Aug 02 18:17 8303 Aug 06 03:47 8303 Aug 31 17:45 8303 Aug 31 17:45 8303 Sep 27 10:46 8303 Oct 23 04:31 8303 Oct 23 04:31 8303 Oct 28 09:13 8303 Nov 17 07:52 8303 Dec 12 00:58 8304 Jan 05 10:55 8304 Jan 29 16:02 8304 Jan 31 16:41 8304 Feb 17 02:09 8304 Feb 22 17:41 8304 Mar 11 13:56 8304 Mar 11 13:56	0°用 15°用28'46 17°用19'44 11°用23'09 9°用27'40 9°用14'30 9°用25'48 7°用07'01 1°用39'07 3°用25'47 8°用32'04 0°© 3°©17'15 0°ብ 0°™ 0°료 6°료09'03 0°™ 0°ボ 0°ボ 0°ボ 19°米09'39 22°※31'13 22°≈56'47 0°升 19°米09'39	8°20'58 8°19'40 0.27220 AU -4.8m 46°19'25	minimum elong max. Earth dist. evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set desc. node min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 22 03:58 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52 8306 Apr 14 03:09 8306 May 03 03:21 8306 May 31 06:38 8306 Jul 07 01:11 8306 Jul 18 00:09 8306 Aug 01 20:11 8306 Aug 03 22:17 8306 Aug 07 14:49 8306 Aug 08 04:17 8306 Aug 08 04:17 8306 Aug 14 08:22 8306 Aug 29 07:23 8306 Oct 01 17:00 8306 Oct 17 00:46	0°M.55'02 1°M.08'08 0°ズ 16°ズ13'37 0°云 20°云29'54 0°※ 0°升 0°円 8°H.04'51 0°延 27°延33'33 0°凡 27°凡41'19 29°凡54'11 25°凡34'47 24°凡23'33 22°凡08'32 21°凡47'34 21°凡51'17 18°凡07'44 13°凡49'36 15°凡31'46 0°顺 13°顺37'46	1°23'31 1.73313 AU 46°43'28 -4.8m 0.27993 AU -1°03'24 1°02'46
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el asc. node morning set desc. node max. Earth dist. superior conj	8303 Apr 03 00:36 8303 Apr 27 01:18 8303 May 06 21:52 8303 May 24 11:27 8303 May 27 15:21 8303 May 27 23:54 8303 May 27 16:34 8303 May 31 12:25 8303 Jun 17 07:32 8303 Jun 27 01:07 8303 Jul 07 10:35 8303 Aug 02 18:17 8303 Aug 06 03:47 8303 Aug 31 17:45 8303 Aug 31 17:45 8303 Aug 31 17:45 8303 Oct 23 04:31 8303 Oct 23 04:31 8303 Oct 28 09:13 8303 Nov 17 07:52 8303 Dec 12 00:58 8304 Jan 05 10:55 8304 Jan 29 16:02 8304 Jan 31 16:41 8304 Feb 17 02:09 8304 Feb 22 17:41 8304 Mar 17 10:39	0°用 15°用28'46 17°用19'44 11°用23'09 9°用27'40 9°用14'30 9°用25'48 7°用07'01 1°用39'07 3°用25'47 8°用32'04 0°ጮ 3°ጮ17'15 0°ብ 0°™ 0°ዹ 6°ዹ09'03 0°™ 0°ዹ 10°ጜ 10°ጜ 11°38'25'47 0°ጜ 11° ★09'39 22° ★19'58 21° ★44'56 0° ❤	8°20'58 8°19'40 0.27220 AU -4.8m 46°19'25	minimum elong max. Earth dist. evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set desc. node min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el	8305 Oct 18 13:28 8305 Oct 18 17:43 8305 Nov 11 03:37 8305 Nov 24 07:42 8305 Dec 05 12:06 8305 Dec 29 21:23 8306 Jan 23 07:16 8306 Feb 16 18:01 8306 Mar 13 07:55 8306 Apr 07 06:52 8306 Apr 14 03:09 8306 May 03 03:21 8306 May 28 19:43 8306 May 31 06:38 8306 Jul 07 01:11 8306 Jul 18 00:09 8306 Aug 01 20:11 8306 Aug 03 22:17 8306 Aug 03 22:17 8306 Aug 07 14:49 8306 Aug 08 04:17 8306 Aug 08 04:17 8306 Aug 08 01:54 8306 Aug 14 08:22 8306 Aug 29 07:23 8306 Sep 07 23:36 8306 Oct 01 17:00 8306 Oct 17 00:46 8306 Nov 02 07:58	0°M.55'02 1°M.08'08 0° ₹ 16° ₹ 13'37 0° ₹ 20° ₹ 29'54 0° ≈ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 27° \$33'33 0° £ 27° \$33'33 0° £ 27° £34'47 24° £23'33 22° £08'32 21° £47'34 21° £51'17 18° £07'44 13° £49'36 15° £31'46 0° \$\mathref{m}\$ 13° \$\mathref{m}\$ 37'46 0° \$\mathref{m}\$	1°23'31 1.73313 AU 46°43'28 -4.8m 0.27993 AU -1°03'24 1°02'46

	8306 Dec 25 12:19	0° ∡ 7		desc. node	8309 Aug 31 09:42	27° £ 58'25	
	8307 Jan 19 12:03	0°ਤ ਹ		dese. Hode	8309 Sep 03 09:04	0°M	
	8307 Feb 13 00:21	0° ≈		greatest brilliancy	8309 Sep 15 06:54	6°ML13'08	-4.7m
	8307 Mar 09 05:34	0° ₩		retrograde	8309 Sep 25 22:23	8°ML17'02	1.7111
desc. node	8307 Mar 16 14:18	9° ₩ 10'37		evening set	8309 Oct 13 16:16	2°M20'15	
dese. node	8307 Apr 02 06:06	0°Υ		inferior conj	8309 Oct 17 11:52	29° £ 58'37	-8°20'07
morning set	8307 Apr 16 20:29	18° Y 18'45		minimum elong	8309 Oct 17 06:47	0°M06'36	
morning sec	8307 Apr 26 03:47	0°8		g	8309 Oct 17 11:00	30° R Ω	0 15 .0
	8307 May 20 00:39	0°II		min. Earth dist.	8309 Oct 17 06:29	0°M07'04	0.29150 AU
	j			morning rise	8309 Oct 20 21:21	27° ≙ 52'11	
superior conj	8307 May 27 09:07	9° Ⅱ 13'56	-1°19'49	direct	8309 Nov 08 00:05	21° ≏ 41'39	
minimum elong	8307 May 27 18:02	9° Ⅱ 41'55	1°19'48	greatest brilliancy	8309 Nov 18 08:15	23° £ 37'35	-4.7m
max. Earth dist.	8307 May 29 22:47	12° Ⅱ 27'23	1.71433 AU	· ·	8309 Nov 30 16:44	0°M	
	8307 Jun 12 22:45	0ංම		asc. node	8309 Dec 22 09:16	17°MJ38'43	
evening rise	8307 Jul 06 10:08	29°517'44		morning max el	8309 Dec 27 04:09	22°M13'19	45°54'48
	8307 Jul 06 23:44	$0^{\circ}\Omega$			8310 Jan 03 22:26	0° ∡ ¹	
asc. node	8307 Jul 07 12:28	0° £ 39'37			8310 Jan 31 11:00	ರ∘ರ	
	8307 Jul 31 04:33	0° m)			8310 Feb 26 03:15	0° ≈	
	8307 Aug 24 14:08	0∘ ⊽			8310 Mar 22 23:24	0°) €	
	8307 Sep 18 06:15	0°M₊		desc. node	8310 Apr 13 02:36	25° 升 58′20	
	8307 Oct 13 08:00	0° ∡ 7			8310 Apr 16 08:45	0 ° Υ	
desc. node	8307 Oct 27 06:28	16° ∡ ¹23′26			8310 May 10 12:10	0°8	
	8307 Nov 08 00:13	0°ರ			8310 Jun 03 12:57	Π $^{\circ}0$	
	8307 Dec 04 16:13	0° ≈			8310 Jun 27 13:41	0ංම	
evening max el	8308 Jan 01 00:46	28° ≈ 32'35	46°16'37	morning set	8310 Jun 30 21:18	4° 5 08'11	
	8308 Jan 02 12:47	0° ∀			8310 Jul 21 15:59	$0 {\circ} \Omega$	
greatest brilliancy	8308 Feb 09 22:08	28°) €09'40	-4.8m	asc. node	8310 Aug 04 00:26	16° Ω 34'32	
asc. node	8308 Feb 17 06:31	29° ∺ 50'19					
retrograde	8308 Feb 19 17:00	29° ∺ 57′21		superior conj	8310 Aug 08 12:25	22° Ω 09'16	0°10'54
evening set	8308 Mar 05 17:47	25°) 32′27		minimum elong	8310 Aug 08 09:58	22° Ω 01'38	0°10'40
inferior conj	8308 Mar 11 09:51	22° ∺ 11'19		behind sun begin	8310 Aug 07 15:58	21° Ω 05'51	
minimum elong	8308 Mar 10 23:16	22° ∺ 27'36		behind sun end	8310 Aug 09 03:58	22° Ω 57'24	
min. Earth dist.	8308 Mar 11 07:36		0.27039 AU	max. Earth dist.	8310 Aug 10 23:15		1.72680 AU
morning rise	8308 Mar 16 04:30	19° ₩ 19'11			8310 Aug 14 20:26	0° m)	
direct	8308 Apr 01 01:47	14°) €21'41			8310 Sep 08 03:01	0∘ ত	
greatest brilliancy	8308 Apr 11 01:43	16°) 14′23	-4.9m	evening rise	8310 Sep 14 19:24	8° ≏ 14'21	
	8308 May 03 00:23	0° Υ			8310 Oct 02 12:00	0° M ₊	
morning max el	8308 May 21 13:05	17° Y 09'47	46°58'11		8310 Oct 27 00:15	0° ∡	
	8308 Jun 02 20:43	0° 8			8310 Nov 20 16:58	0°る	
desc. node	8308 Jun 08 00:57	5° 8 36'33		desc. node	8310 Nov 23 18:12	3°₹41'17	
	8308 Jun 29 16:34	0° I			8310 Dec 15 15:07	0° ≈	
	8308 Jul 25 07:33	0.ಲ			8311 Jan 09 20:13	0° ∀ 0° Υ	
	8308 Aug 19 10:53	0° Ω			8311 Feb 04 13:15	0° 8	
asc. node	8308 Sep 13 08:18 8308 Sep 28 22:54	0° Mp 18° Mp 55'45		evening max el	8311 Mar 03 10:51 8311 Mar 14 22:21	11° 8 57'02	46°57'09
asc. Houc	8308 Oct 08 01:14	0∘ ʊ		asc. node	8311 Mar 16 17:47	13° 8 45'41	40 37 09
	8308 Nov 01 13:57	0°M		asc. node	8311 Apr 03 11:34	0° Ⅱ	
morning set	8308 Nov 19 09:56	21°M55'34		greatest brilliancy	8311 Apr 24 14:17	13° Ⅱ 02'47	-4.9m
morning sec	8308 Nov 25 23:06	0° ∡ ¹		retrograde	8311 May 04 11:41	14° I 53'59	1.7111
	8308 Dec 20 05:41	0°₹		evening set	8311 May 22 03:38	8° Ⅱ 52'53	
max. Earth dist.	8308 Dec 24 04:14	。 4° る 52'44	1.72758 AU	inferior conj	8311 May 25 04:19	7° Ⅱ 02'04	8°30'37
				minimum elong	8311 May 25 12:14		8°29'31
superior conj	8308 Dec 26 08:17	7° る 33'57	0°52'30	min. Earth dist.	8311 May 25 04:53	7° Ⅱ 01'11	0.27208 AU
minimum elong	8308 Dec 26 17:52	8° ප 03'36		morning rise	8311 May 28 20:56	4° Ⅱ 48'00	
· ·	8309 Jan 13 10:31	0° ≈		Č	8311 Jun 08 17:59	30° ₹ 8	
desc. node	8309 Jan 18 15:59	6° ≈ 29'29		direct	8311 Jun 14 20:57	29° 8 13'51	
evening rise	8309 Feb 02 22:25	25° ≈ 28'18			8311 Jun 21 04:09	$\Pi^{\circ}0$	
-	8309 Feb 06 13:46	0° ∀		greatest brilliancy	8311 Jun 24 12:49	0°Ⅲ59'24	-4.9m
	8309 Mar 02 15:33	$0^{\circ}\Upsilon$		desc. node	8311 Jul 06 12:39	7° Ⅱ 06'11	
	8309 Mar 26 16:49	8° 0			8311 Aug 02 18:32	0ංම	
	8309 Apr 19 19:59	$\Pi^{\circ}0$		morning max el	8311 Aug 03 18:23	0° © 58'19	46°21'04
asc. node	8309 May 11 14:45	26° Ⅲ 50′18			8311 Aug 31 10:21	$0^{\circ}\Omega$	
	8309 May 14 04:48	0ංම			8311 Sep 27 00:35	0° m	
	8309 Jun 08 00:41	$0^{\circ}\Omega$			8311 Oct 22 16:57	0∘ ত	
	8309 Jul 03 16:59	0° m ∕		asc. node	8311 Oct 27 11:17	5° ≏ 38'50	
	8309 Jul 31 05:03	0∘ ⊽			8311 Nov 16 19:33	0° M	
evening max el	8309 Aug 07 14:33	7° £ 25'48	45°58'07		8311 Dec 11 12:15	0° ∡ ¹	

	0212 1 04 22 01	007			0214 7 1 15 14 40	270 0274 (
	8312 Jan 04 22:01	0°ප		retrograde	8314 Jul 15 14:49	27° Ω 37'16	
morning set	8312 Jan 29 06:48	0°≈11'37		evening set	8314 Jul 30 11:27	23° Ω 17'51	
	8312 Jan 29 03:04	0° ≈		desc. node	8314 Aug 03 00:10	21° Ω 14'59	
desc. node	8312 Feb 16 04:02	22° ≈ 28'14		inferior conj	8314 Aug 05 19:08	19° Ω 31'33	
	8312 Feb 22 04:43	0° ∀		minimum elong	8314 Aug 05 17:33	19° Ω 34'01	0°41'21
max. Earth dist.	8312 Mar 06 09:12	16° ∺ 29'48	1.71552 AU	min. Earth dist.	8314 Aug 05 06:45	19° Ω 50'49	0.27947 AU
				morning rise	8314 Aug 12 00:19	15° Ω 49'59	
superior conj	8312 Mar 09 01:35	19°) 51′26	-0°50'06	direct	8314 Aug 26 21:12	11° Ω 34'06	
minimum elong	8312 Mar 08 14:48	19° 升 17′39	0°49'37	greatest brilliancy	8314 Sep 05 14:44	13° Ω 16′59	-4.8m
	8312 Mar 17 03:43	0° Y			8314 Oct 02 00:37	0° m y	
	8312 Apr 10 01:01	0°B		morning max el	8314 Oct 14 14:42	11° m)21'47	45°44'00
evening rise	8312 Apr 18 08:51	10° 8 27'46			8314 Nov 02 01:40	0∘ ত	
	8312 May 03 22:24	Π $^{\circ}0$		asc. node	8314 Nov 23 23:26	23° ≏ 58'42	
	8312 May 27 22:12	0°€			8314 Nov 29 06:56	0° M .	
asc. node	8312 Jun 08 02:33	13°954'02			8314 Dec 25 00:51	0° ∡ 7	
	8312 Jun 21 02:52	$0^{\circ}\Omega$			8315 Jan 18 23:50	0°ರ	
	8312 Jul 15 15:00	0° m			8315 Feb 12 11:44	0° ≈	
	8312 Aug 09 14:25	0∘ <u>⊽</u>			8315 Mar 08 16:45	0° ₩	
	8312 Sep 04 08:48	0°M		desc. node	8315 Mar 15 16:17	8°) 42′02	
desc. node	8312 Sep 27 21:03	25°M58'59			8315 Apr 01 17:09	0° Υ	
acce. noue	8312 Oct 01 16:19	0° ⊼		morning set	8315 Apr 14 06:50	15° Ƴ 45'57	
evening max el	8312 Oct 17 17:20	16° х 08'04	45°42'14	morning sec	8315 Apr 25 14:47	0°8	
evening max er	8312 Nov 02 08:29	0°중	73 72 17		8315 May 19 11:36	0°II	
greatest brilliancy	8312 Nov 25 21:02	14° ਰ 11'08	-4.7m		0313 Way 17 11.30	νп	
retrograde	8312 Dec 05 08:58	15° る 48'51	-4.7111	superior conj	8315 May 24 20:40	6° Ⅱ 45'14	1021122
_	8312 Dec 03 08:38 8312 Dec 21 13:33	13 3 4831			•	7° Ⅱ 11'05	
evening set			5022114	minimum elong	8315 May 25 04:54		
inferior conj	8312 Dec 26 13:10	7°る47'42		max. Earth dist.	8315 May 27 03:01		1.71402 AU
minimum elong	8312 Dec 26 22:58	7°る32'23			8315 Jun 12 09:41	0°95	
min. Earth dist.	8312 Dec 27 09:14	7°る16'23	0.28260 AU	evening rise	8315 Jul 03 23:09	26°954'54	
morning rise	8313 Jan 01 07:53	4°る18'31			8315 Jul 06 10:38	0° U	
	8313 Jan 12 12:45	30°₹ ⋌		asc. node	8315 Jul 06 14:21	0° Ω 11'31	
direct	8313 Jan 16 20:22	29° ₹ 37'25			8315 Jul 30 15:31	0° m)	
asc. node	8313 Jan 18 20:53	29° ∡ ⁴42'16			8315 Aug 24 01:18	0∘ ⊽	
	8313 Jan 21 05:54	0°る			8315 Sep 17 17:50	0° M	
greatest brilliancy	8313 Jan 27 22:26	1° る 54'04	-4.8m		8315 Oct 12 20:19	0° ∡ ¹	
	8313 Mar 06 00:01	0° ≈		desc. node	8315 Oct 26 08:33	15° ∡ ′51'48	
morning max el	8313 Mar 08 01:50	2°≈04'10	46°39'13		8315 Nov 07 13:54	0°ಕ	
	8313 Apr 03 01:50	0° ∀			8315 Dec 04 08:40	0° ≈	
	8313 Apr 28 22:20	0 ° Υ		evening max el	8315 Dec 29 14:12	26° ≈ 12′03	46°15'06
desc. node	8313 May 10 14:59	13° Ƴ 58'08			8316 Jan 02 13:05	0° ℋ	
	8313 May 23 21:24	0°B		greatest brilliancy	8316 Feb 07 10:54	25°) 45′33	-4.8m
	8313 Jun 17 10:38	$\Pi^{\circ}0$		asc. node	8316 Feb 16 08:23	27° ¥ 32'42	
	8313 Jul 11 20:03	0 \circ \odot		retrograde	8316 Feb 17 06:07	27° ¥ 33'41	
	8313 Aug 05 04:43	$\mathfrak{O}^{\circ} \mathfrak{O}$		evening set	8316 Mar 03 04:07	23° ¥ 11′52	
	8313 Aug 29 13:33	0° m		inferior conj	8316 Mar 08 22:56	19°) 47'18	5°15'03
asc. node	8313 Aug 31 12:34	2° Mp 24'47		minimum elong	8316 Mar 08 12:40	20°) €03'04	5°12'21
morning set	8313 Sep 09 13:21	13° Mp 32'08		min. Earth dist.	8316 Mar 08 21:19	19°) 49'47	0.27053 AU
	8313 Sep 22 22:12	0∘ ⊽		morning rise	8316 Mar 13 20:56	16° ¥ 50'40	
	•			direct	8316 Mar 29 15:07	11° ¥ 57′02	
superior conj	8313 Oct 16 11:35	29° ഫ 02'07	1°22'39	greatest brilliancy	8316 Apr 08 16:22	13° ¥ 51′20	-4.9m
minimum elong	8313 Oct 16 06:35	28° ≏ 46'43	1°22'40	,	8316 May 03 10:02	0° Y	
max. Earth dist.	8313 Oct 16 11:34	29° ഫ 02'04		morning max el	8316 May 19 03:26	14° Ƴ 48'05	46°58'36
	8313 Oct 17 06:22	o°M.		Č	8316 Jun 02 15:29	0° ႘	
	8313 Nov 10 14:25	0° ∡ 7		desc. node	8316 Jun 07 02:58	4° 8 53'21	
evening rise	8313 Nov 22 00:35	14° ₹ 04'20		dese. node	8316 Jun 29 07:28	0°Ⅱ	
evening rise	8313 Dec 04 23:02	0°පි			8316 Jul 24 20:40	0°©	
desc. node	8313 Dec 21 06:00	20°る02'05			8316 Aug 18 22:58	0° U	
dese. Hode	8313 Dec 29 08:34	0°≈			8316 Sep 12 19:43	0° m)	
	8314 Jan 22 18:49	0 ≈ 0°) (asc. node	8316 Sep 12 19.43 8316 Sep 28 00:58	0 iy 18°Mγ28'10	
	8314 Feb 16 06:04	0 Υ 0° Υ		asc. nouc	8316 Oct 07 12:13	18 110 28 10	
		0° 8				0° ™	
	8314 Mar 12 20:43	0° U			8316 Nov 01 00:42		
ogo med-	8314 Apr 06 20:54			morning set	8316 Nov 17 03:05	19°M47'41	
asc. node	8314 Apr 13 05:10	7° Ⅱ 28'17			8316 Nov 25 09:45	0° ∡ ¹ 0∘ =	
avanin 1	8314 May 02 19:52	0°99	16011151	mov Family U.	8316 Dec 19 16:20	0°る 2° ろ 50!26	1 72702 411
evening max el	8314 May 26 09:30	25°©11'45	46°44'51	max. Earth dist.	8316 Dec 21 23:27	2° る 50'36	1.72792 AU
1 '11'	8314 May 31 06:24	0°N	4.0		0216 D 24 00 00	50 7 21110	0055111
greatest brilliancy	8314 Jul 04 17:58	25° Ω 25'55	-4.8m	superior conj	8316 Dec 24 00:08	5° る 21'19	0~55'11

minimum elong	8316 Dec 24 09:52	5° る 51'27	0°54'59	morning rise	8319 May 26 05:39	2° ∏ 30′53	
C	8317 Jan 12 21:13	0° ≈		C	8319 May 30 21:11	30° ₹ 8	
desc. node	8317 Jan 17 17:54	6°≈02'04		direct	8319 Jun 12 10:23	26° 8 50'50	
evening rise	8317 Jan 31 12:37	23° ≈ 09'38		greatest brilliancy	8319 Jun 22 00:53	28° 8 35'13	-4.9m
	8317 Feb 06 00:35	0° ∀			8319 Jun 25 13:32	$\Pi^{\circ}0$	
	8317 Mar 02 02:31	$0^{\circ}\mathbf{\Upsilon}$		desc. node	8319 Jul 05 14:33	5° Ⅱ 44'40	
	8317 Mar 26 04:02	0° ႘		morning max el	8319 Aug 01 08:14	28° Ⅱ 38'59	46°22'35
	8317 Apr 19 07:31	$\Pi^{\circ}0$			8319 Aug 02 17:04	0 \circ \odot	
asc. node	8317 May 10 16:48	26° Ⅱ 19'56			8319 Aug 31 02:08	$0^{\circ}\Omega$	
	8317 May 13 16:51	0 \circ \odot			8319 Sep 26 13:50	0° ™	
	8317 Jun 07 13:39	$0^{\circ}\Omega$			8319 Oct 22 04:57	0∘ ⊽	
	8317 Jul 03 07:46	O° Mp		asc. node	8319 Oct 26 13:16	5° ჲ 09'36	
	8317 Jul 31 00:38	0∘ ত			8319 Nov 16 06:50	0° M	
evening max el	8317 Aug 05 06:55	5° £ 15'19	45°59'34		8319 Dec 10 23:07	0° ∡ ¹	
desc. node	8317 Aug 30 11:44	26° ≏ 47'35			8320 Jan 04 08:41	8°0	
	8317 Sep 04 12:49	0° M,		morning set	8320 Jan 26 21:01	27° る 53'42	
greatest brilliancy	8317 Sep 12 21:22	4°M02'09	-4.7m		8320 Jan 28 13:40	0°≈	
retrograde	8317 Sep 23 15:18	6° ™ 07'59		desc. node	8320 Feb 15 05:59	22° ≈ 01'11	
evening set	8317 Oct 11 05:50	0°M15'03			8320 Feb 21 15:21	0° ∀	
	8317 Oct 11 15:51	30° ₹ Ω		max. Earth dist.	8320 Mar 03 15:36	13° ¥ 46′19	1.71589 AU
inferior conj	8317 Oct 15 04:09	27° ≏ 49'20	-8°14'44				
minimum elong	8317 Oct 14 22:25	27° ≏ 58'20	8°14'09	superior conj	8320 Mar 06 13:26	17°) 24′54	-0°46'53
min. Earth dist.	8317 Oct 14 21:13	28° ഫ 00'13	0.29138 AU	minimum elong	8320 Mar 06 03:07	16°) 52′34	0°46'23
morning rise	8317 Oct 18 15:05	25° ≏ 40'53			8320 Mar 16 14:23	$0^{\circ}\mathbf{\Upsilon}$	
direct	8317 Nov 05 16:39	19° ≏ 32'50			8320 Apr 09 11:44	0°8	
greatest brilliancy	8317 Nov 15 22:51	21° ≏ 27'23	-4.7m	evening rise	8320 Apr 15 19:43	7° 8 57'24	
	8317 Dec 01 12:40	0° M.			8320 May 03 09:10	Π $^{\circ}0$	
asc. node	8317 Dec 21 11:13	16°M48′12			8320 May 27 09:05	0 \circ \odot	
morning max el	8317 Dec 24 20:36	20°M03'42	45°53'32	asc. node	8320 Jun 07 04:26	13° © 25'52	
	8318 Jan 03 17:20	0° ∡ ¹			8320 Jun 20 13:59	$0^{\circ}\Omega$	
	8318 Jan 31 01:31	ರ∘ರ			8320 Jul 15 02:31	0° ™	
	8318 Feb 25 16:03	0° ≈			8320 Aug 09 02:42	0∘ ⊽	
	8318 Mar 22 11:19	0° ∀			8320 Sep 03 22:38	0° M	
desc. node	8318 Apr 12 04:41	25° ∺ 29'17		desc. node	8320 Sep 26 23:07	25°M19'48	
	8318 Apr 15 20:11	0 ° Υ			8320 Oct 01 09:58	0° ∡ ¹	
	8318 May 09 23:17	0°8		evening max el	8320 Oct 15 07:38	13° ₹ 54'23	45°41'47
	8318 Jun 02 23:50	Π $^{\circ}0$			8320 Nov 02 18:28	8°0	
	8318 Jun 27 00:23	0 \circ \odot		greatest brilliancy	8320 Nov 23 12:14	11° る 59'09	-4.7m
morning set	8318 Jun 28 11:15	1° © 48'41		retrograde	8320 Dec 02 23:04	13° る 36'19	
	8318 Jul 21 02:34	$0^{\circ}\Omega$		evening set	8320 Dec 19 07:29	8° る 31'59	
asc. node	8318 Aug 03 02:21	16° Ω 07'42		inferior conj	8320 Dec 24 04:28	5° る 34'31	-5°38'24
				minimum elong	8320 Dec 24 14:26	5° る 18'57	5°35'55
superior conj	8318 Aug 06 03:43	19° Ω 55'08	0°07'25	min. Earth dist.	8320 Dec 25 00:53	5° る 02'39	0.28318 AU
minimum elong	8318 Aug 06 02:01	19° Ω 49'55	0°07'13	morning rise	8320 Dec 29 20:49	2° る 08'15	
behind sun begin	8318 Aug 05 04:28	18° Ω 43'05			8321 Jan 03 01:36	30°Ŗ ⋌ ¹	
behind sun end	8318 Aug 06 23:35	20° Ω 56'45		direct	8321 Jan 14 11:40	27° ≯ 23′28	
max. Earth dist.	8318 Aug 08 18:03	23° Ω 08′22	1.72643 AU	asc. node	8321 Jan 17 22:48	27° ∡ ³37′29	
	8318 Aug 14 06:58	O° m y		greatest brilliancy	8321 Jan 25 14:47	29° х 40′30	-4.8m
	8318 Sep 07 13:34	0∘ ⊽			8321 Jan 26 10:05	0°ಕ	
evening rise	8318 Sep 12 12:41	6° ≙ 07'14		morning max el	8321 Mar 05 15:43	29° る 44'07	46°37'40
	8318 Oct 01 22:38	0°M₊			8321 Mar 05 22:03	0° ≈	
	8318 Oct 26 11:07	0° √			8321 Apr 02 17:36	0° ∀	
	8318 Nov 20 04:14	0°ප			8321 Apr 28 11:50	$0^{\circ}\mathbf{\Upsilon}$	
desc. node	8318 Nov 22 20:11	3° る 13'01		desc. node	8321 May 09 16:53	13° Y 25'05	
	8318 Dec 15 03:05	0° ≈			8321 May 23 09:44	9° 8	
	8319 Jan 09 09:17	0° ∀			8321 Jun 16 22:16	Π $^{\circ}0$	
	8319 Feb 04 04:15	$0^{\circ}\Upsilon$			8321 Jul 11 07:13	0ಂತಾ	
	8319 Mar 03 06:08	0° 8			8321 Aug 04 15:32	$0^{\circ}\Omega$	
evening max el	8319 Mar 12 13:11	9° 8 37'02	46°56'29		8321 Aug 29 00:06	0° m	
asc. node	8319 Mar 15 19:54	12° 8 52'52		asc. node	8321 Aug 30 14:37	1° ™ 58'37	
	8319 Apr 04 01:28	$\Pi^{\circ}0$		morning set	8321 Sep 07 06:11	11°Mp23'55	
greatest brilliancy	8319 Apr 22 03:53	10° Ⅱ 39'14	-4.9m		8321 Sep 22 08:36	0∘ ত	
retrograde	8319 May 02 01:18	12° Ⅲ 30′00					
evening set	8319 May 19 19:52	6° Ⅱ 25'00		superior conj	8321 Oct 14 05:33	26° ≏ 57'38	1°21'43
inferior conj	8319 May 22 17:30	4°Ⅱ38'34		minimum elong	8321 Oct 13 23:58	26° ≏ 40'25	1°21'42
minimum elong	8319 May 23 00:42	4° ∏ 27′28	8°38'26	max. Earth dist.	8321 Oct 14 05:24	26° £ 57'11	1.73309 AU
min. Earth dist.	8319 May 22 17:35	4° Ⅱ 38'25	0.27193 AU		8321 Oct 16 16:44	0°M	

	022131 10 00 51	00.7			02247 06 0455	40 🗸 1 0142	
	8321 Nov 10 00:51	0° ⊼		desc. node	8324 Jun 06 04:55	4° 8 10'43	
evening rise	8321 Nov 19 17:38	11° ∡ 56'46			8324 Jun 28 22:07	0°Щ	
	8321 Dec 04 09:39	0°ಕ			8324 Jul 24 09:39	0°€	
desc. node	8321 Dec 20 07:51	19° る 34'43			8324 Aug 18 10:59	0 $^{\circ}$ Ω	
	8321 Dec 28 19:26	0° ≈			8324 Sep 12 07:06	0° m/y	
	8322 Jan 22 06:03	0° ℋ		asc. node	8324 Sep 27 02:56	18° Mp 00'19	
	8322 Feb 15 17:49	0° Y			8324 Oct 06 23:11	0∘ ত	
	8322 Mar 12 09:14	$8^{\circ 0}$			8324 Oct 31 11:25	0° M	
	8322 Apr 06 10:44	$\Pi^{\circ}0$		morning set	8324 Nov 14 20:35	17° M 41'02	
asc. node	8322 Apr 12 07:11	6° Ⅱ 52'23			8324 Nov 24 20:21	0° ∡ ¹	
	8322 May 02 12:24	0ಂತಾ			8324 Dec 19 02:57	გ∘ე	
evening max el	8322 May 23 23:06	22° © 50'21	46°46'12	max. Earth dist.	8324 Dec 19 18:57	0°る49'30	1.72825 AU
Ü	8322 May 31 06:59	$0^{\circ}\Omega$					
greatest brilliancy	8322 Jul 02 10:19	23°Ω10'44	-4.8m	superior conj	8324 Dec 21 16:18	3° る 09'52	0°57'45
retrograde	8322 Jul 13 05:42	25°Ω21'23	1.0111	minimum elong	8324 Dec 22 02:06	3°る40'14	
evening set	8322 Jul 28 02:51	21° Ω 01'22		minimum ciong	8325 Jan 12 07:56	0°≈	0 37 31
desc. node	8322 Aug 02 02:11	18° Ω 05'42		desc. node	8325 Jan 16 19:55	5°≈35'01	
	8322 Aug 02 02:11 8322 Aug 03 09:58		0010151				
inferior conj	0	17° Ω 16'24		evening rise	8325 Jan 29 02:55	20°≈51'13	
minimum elong	8322 Aug 03 09:13	17° Ω 17'34			8325 Feb 05 11:27	0°) €	
min. Earth dist.	8322 Aug 02 22:37	17° Ω 34'02	0.27901 AU		8325 Mar 01 13:37	0° Υ	
morning rise	8322 Aug 09 16:08	13° Ω 33'34			8325 Mar 25 15:23	0°8	
direct	8322 Aug 24 10:56	9° Ω 19'18			8325 Apr 18 19:13	Π °0	
greatest brilliancy	8322 Sep 03 05:56	11° Ω 03'21	-4.8m	asc. node	8325 May 09 18:41	25° Ⅱ 48'35	
	8322 Oct 02 05:28	0° m			8325 May 13 05:06	0 \circ ∞	
morning max el	8322 Oct 12 05:19	9° ™ 08'33	45°44'45		8325 Jun 07 02:51	$0 {\circ} \Omega$	
	8322 Nov 01 18:33	0∘ ত			8325 Jul 02 22:57	0° m y	
asc. node	8322 Nov 23 01:21	23° ≏ 24'28			8325 Jul 30 21:04	0∘ ⊽	
	8322 Nov 28 20:32	0°M		evening max el	8325 Aug 02 23:30	3° ჲ 04'39	46°00'56
	8322 Dec 24 13:02	0° ⊼ ¹		desc. node	8325 Aug 29 13:50	25° ≏ 34'02	
	8323 Jan 18 11:21	5°0			8325 Sep 06 05:45	0°M	
	8323 Feb 11 22:54	0° ≈		greatest brilliancy	8325 Sep 10 12:20	1°M50'58	-4.7m
	8323 Mar 08 03:42	0°) €		retrograde	8325 Sep 21 07:49	3°M57'53	,
desc. node	8323 Mar 14 18:21	8°) 14′26		retrograde	8325 Oct 05 13:03	30°R ≏	
desc. node	8323 Apr 01 03:59	0°Υ		evening set	8325 Oct 05 15:05 8325 Oct 08 19:12	28° £ 09'22	
marning sat	8323 Apr 11 17:08	13° Υ 13'41		inferior conj	8325 Oct 08 19:12 8325 Oct 12 20:18		0000126
morning set	•					25° Ω 39'17	
	8323 Apr 25 01:32	8°0		minimum elong	8325 Oct 12 13:58	25° Ω 49'14	
	8323 May 18 22:21	Π °0		min. Earth dist.	8325 Oct 12 11:58	25° Ω 52'22	0.29118 AU
				morning rise	8325 Oct 16 08:53	23° Ω 28'21	
superior conj	8323 May 22 08:05	4° ∏ 16'42		direct	8325 Nov 03 09:16	17° ≏ 23'26	
minimum elong	8323 May 22 15:32	4° Ⅱ 40'07		greatest brilliancy	8325 Nov 13 13:04	19° ჲ 16′06	-4.7m
max. Earth dist.	8323 May 24 08:33	6° Ⅱ 48'51	1.71378 AU		8325 Dec 02 03:36	0°M₊	
	8323 Jun 11 20:25	0		asc. node	8325 Dec 20 13:09	15° ™ 58'11	
evening rise	8323 Jul 01 12:07	24° © 32'26		morning max el	8325 Dec 22 12:09	17° M 51'40	45°52'25
asc. node	8323 Jul 05 16:19	29°5944'10			8326 Jan 03 11:49	0° ∡ 7	
	8323 Jul 05 21:24	$0^{\circ}\Omega$			8326 Jan 30 15:58	8°0	
	8323 Jul 30 02:21	0° m			8326 Feb 25 04:55	0° ≈	
	8323 Aug 23 12:19	0∘ ⊽			8326 Mar 21 23:24	0° ∀	
	8323 Sep 17 05:15	0°M,		desc. node	8326 Apr 11 06:35	24° ¥ 58'54	
	8323 Oct 12 08:29	0° ⊼ ¹			8326 Apr 15 07:51	0° Υ	
desc. node	8323 Oct 25 10:31	15° ≯ 20′23			8326 May 09 10:39	0°8	
	8323 Nov 07 03:29	0°る			8326 Jun 02 10:59	0°II	
	8323 Dec 04 01:14	0° ≈		morning set	8326 Jun 26 00:45	29° ∏ 26'55	
evening max el	8323 Dec 04 01:14 8323 Dec 27 04:35	0 ~ 23° ≈ 54'29	46°13'28	morning set	8326 Jun 26 11:22	0°95	
evening max er			40 13 28			0°Ω	
4 41 311	8324 Jan 02 14:30	0°) {	4.0	1	8326 Jul 20 13:26		
greatest brilliancy	8324 Feb 04 23:16	23°) (10100	-4.8m	asc. node	8326 Aug 02 04:23	15° Ω 40′26	
retrograde	8324 Feb 14 19:34	25°) 10′09			00064 00 10 00	170 00004	0002154
asc. node	8324 Feb 15 10:32	25°) (51116		superior conj	8326 Aug 03 18:38	17° Ω 39'04	0°03'54
evening set	8324 Feb 29 14:46	20°) €51'16		minimum elong	8326 Aug 03 17:46	17° Ω 36′20	0°03'44
inferior conj	8324 Mar 06 12:00	17° ∺ 23′23		behind sun begin	8326 Aug 02 18:21	16° Ω 23'42	
minimum elong	8324 Mar 06 02:09	17° ∺ 38′29		behind sun end	8326 Aug 04 17:11	18° Ω 48'57	
min. Earth dist.	8324 Mar 06 10:47	17° ∺ 25'16	0.27068 AU	max. Earth dist.	8326 Aug 06 13:37	21° Ω 06'44	1.72602 AU
morning rise	8324 Mar 11 13:18	14°) 22′24			8326 Aug 13 17:46	0° ™	
direct	8324 Mar 27 04:58	9°) 32′43			8326 Sep 07 00:24	0∘ ⊽	
greatest brilliancy	8324 Apr 06 06:31	11°) 27′50	-4.9m	evening rise	8326 Sep 10 05:47	3° ≏ 58'34	
	8324 May 03 16:59	0 ° $\mathbf{\Upsilon}$			8326 Oct 01 09:35	0° M	
morning max el	8324 May 16 18:07	12° Y 27'32	46°58'53		8326 Oct 25 22:18	0°⊀	
	8324 Jun 02 09:42	0°8			8326 Nov 19 15:50	0° ප	
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desc. node	8326 Nov 21 22:05	2° る 43'40		desc. node	8329 May 08 18:50	12° Y 51′23	
	8326 Dec 14 15:21	0° ≈			8329 May 22 22:20	$_{0\circ}$ 8	
	8327 Jan 08 22:41	0° ∀			8329 Jun 16 10:14	$\Pi^{\circ}0$	
		0° Υ				0°©	
	8327 Feb 03 19:41				8329 Jul 10 18:46		
	8327 Mar 03 02:19	$8^{\circ 0}$			8329 Aug 04 02:47	0 $^{\circ}$ Ω	
evening max el	8327 Mar 10 02:52	7° 8 13'07	46°55'30		8329 Aug 28 11:08	0° m)	
asc. node	8327 Mar 14 21:49	11° 8 57'26		asc. node	8329 Aug 29 16:36	1° m 30'45	
	8327 Apr 04 20:55	0°II		morning set	8329 Sep 04 22:32	9° m) 12'40	
1 :11:	•		4.0	morning set	-		
greatest brilliancy	8327 Apr 19 17:45	8° Ⅱ 14'14	-4.9m		8329 Sep 21 19:28	0∘ ত	
retrograde	8327 Apr 29 14:01	10° Ⅱ 03'53					
evening set	8327 May 17 11:35	3° Ⅱ 55'28		superior conj	8329 Oct 11 23:05	24° ♀ 50'27	1°20'38
inferior conj	8327 May 20 06:27	2° Ⅱ 13′02	8°47'07	minimum elong	8329 Oct 11 16:56	24° ≗ 31'27	1°20'36
·	•			Č			
minimum elong	8327 May 20 12:53	2° ∏ 03′06	8°46'21	max. Earth dist.	8329 Oct 11 23:40	24° ≏ 52'12	1.73307 AU
min. Earth dist.	8327 May 20 06:25	2° Ⅱ 13′06	0.27182 AU		8329 Oct 16 03:32	0° M	
morning rise	8327 May 23 14:16	0° Ⅱ 11'32			8329 Nov 09 11:43	0° ∡ ¹	
•	8327 May 23 22:05	30°R ∀		evening rise	8329 Nov 17 10:30	9° ∡ ¹47'19	
direct	•	24° 8 25'34		evening rise		0°る	
direct	8327 Jun 09 23:12				8329 Dec 03 20:42		
greatest brilliancy	8327 Jun 19 13:26	26° 8 09'29	-4.9m	desc. node	8329 Dec 19 09:54	19° る 06'37	
	8327 Jun 27 19:54	Π $^{\circ}0$			8329 Dec 28 06:46	0° ≈	
desc. node	8327 Jul 04 16:35	4° ∏ 24'12			8330 Jan 21 17:44	0° ∀	
		26° Ⅱ 14'47	46924112			0° Υ	
morning max el	8327 Jul 29 20:51		46 24 12		8330 Feb 15 05:59		
	8327 Aug 02 15:19	0			8330 Mar 11 22:10	9° 8	
	8327 Aug 30 18:08	$0^{\circ}\Omega$			8330 Apr 06 01:01	Π $^{\circ}$ 0	
	8327 Sep 26 03:25	0° m)		asc. node	8330 Apr 11 09:07	6° Ⅱ 15′09	
	•	0∘ ರ ೧.ಗಿ		use. Houe	*	0.2 0.2	
	8327 Oct 21 17:17				8330 May 02 05:31		
asc. node	8327 Oct 25 15:07	4° ≏ 38'50		evening max el	8330 May 21 12:57	20° © 28'51	46°47'29
	8327 Nov 15 18:28	0° M.			8330 May 31 09:14	$0^{\circ}\Omega$	
	8327 Dec 10 10:21	0° ∡ ¹		greatest brilliancy	8330 Jun 30 01:53	20° Ω 53′27	-4.8m
	8328 Jan 03 19:42	°ਨ ਨ			8330 Jul 10 20:57	23° Ω 04'12	1.0111
_				retrograde			
morning set	8328 Jan 24 11:34	25° る 35'47		evening set	8330 Jul 25 18:19	18° Ω 43'04	
	8328 Jan 28 00:37	0° ≈		min. Earth dist.	8330 Jul 31 14:03	15° Ω 16′03	0.27862 AU
desc. node	8328 Feb 14 08:03	21°≈33'29		inferior conj	8330 Aug 01 00:40	14° Ω 59'35	0°02'14
	8328 Feb 21 02:17	0°) €		minimum elong	8330 Aug 01 00:45	14° Ω 59'28	0°02'05
				Č	•		
max. Earth dist.	8328 Mar 01 00:27	11° 米 09'36	1.71628 AU	transit middle	8330 Aug 01 00:45	14° Ω 59'28	0°02'05
				transit begin	8330 Jul 31 20:43	15° Ω 05'43	
superior conj	8328 Mar 04 01:39	14°) 58'40	-0°43'36	transit end	8330 Aug 01 04:47	14° Ω 53'13	
minimum elong	8328 Mar 03 15:51	14°) (27'58		desc. node	8330 Aug 01 04:15	14° Ω 54'03	
minimum elong			0 43 07		C		
	8328 Mar 16 01:21	0 ° Υ		morning rise	8330 Aug 07 07:42	11° Ω 15'56	
	8328 Apr 08 22:47	$_{0\circ}$ 8		direct	8330 Aug 22 00:56	7° Ω 02'46	
evening rise	8328 Apr 13 06:49	5° 8 26'42		greatest brilliancy	8330 Aug 31 20:50	8° Ω 47'51	-4.8m
0.0000	8328 May 02 20:20	0°Щ		8	8330 Oct 02 09:08	0° m)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	•					-	
	8328 May 26 20:25	0		morning max el	8330 Oct 09 20:44	6° Mp 55′49	45°45'26
asc. node	8328 Jun 06 06:24	12° © 56'33			8330 Nov 01 11:35	0∘ ত	
	8328 Jun 20 01:35	$0^{\circ}\Omega$		asc. node	8330 Nov 22 03:23	22° ₽ 49'25	
	8328 Jul 14 14:33	0° m/			8330 Nov 28 10:26	0°M₊	
	8328 Aug 08 15:33	0∘ ರ			8330 Dec 24 01:34	0° ∡ 7	
	8328 Sep 03 13:10	0° M			8331 Jan 17 23:11	0°₹	
desc. node	8328 Sep 26 01:02	24°M38'18			8331 Feb 11 10:23	0° ≈	
	8328 Oct 01 04:39	0° ∡ ¹			8331 Mar 07 14:57	0° ∀	
			45041121	44.			
evening max el	8328 Oct 12 21:06	11° x ⁷ 37'15	43 41 31	desc. node	8331 Mar 13 20:11	7°) 45′08	
	8328 Nov 03 08:50	0° ප			8331 Mar 31 15:07	0 ° Υ	
greatest brilliancy	8328 Nov 21 03:01	9° ප් 45'15	-4.7m	morning set	8331 Apr 09 03:37	10° Ƴ 41'09	
retrograde	8328 Nov 30 13:28	11° る 22'28		-	8331 Apr 24 12:35	0°B	
•		6° ප 13'17			•	0°II	
evening set	8328 Dec 17 01:22		505405		8331 May 18 09:19	υц	
inferior conj	8328 Dec 21 19:41	3° る 19'50					
minimum elong	8328 Dec 22 05:45	3° ⋜ 04'05	5°51'39	superior conj	8331 May 19 19:43	1° Ⅱ 48′03	-1°23'58
min. Earth dist.	8328 Dec 22 16:24	2° る 47'29	0.28375 AU	minimum elong	8331 May 20 02:21	2° Ⅱ 08'52	1°24'02
		29° ₹ 56'56		max. Earth dist.	•	4° Ⅱ 11'04	1.71350 AU
morning rise	8328 Dec 27 09:33			max. Earm dist.	8331 May 21 17:15		1./1330 AU
	8328 Dec 27 07:23	30°₹ ৴			8331 Jun 11 07:22	0 \circ	
direct	8329 Jan 12 02:44	25° 渘 07'51		evening rise	8331 Jun 29 01:20	22°9510'04	
asc. node	8329 Jan 17 00:54	25° ∡ ¹35'53		asc. node	8331 Jul 04 18:22	29° © 16'31	
greatest brilliancy	8329 Jan 23 07:18	27° ₹ 25'53	-4.8m		8331 Jul 05 08:21	0°Ω	
greatest offillaticy			-4.0111				
	8329 Jan 28 18:46	0°る			8331 Jul 29 13:23	0° ™	
morning max el	8329 Mar 03 06:06	27° る 24'13	46°36'23		8331 Aug 22 23:36	0∘ ⊽	
	8329 Mar 05 19:41	0° ≈			8331 Sep 16 16:59	0° M	
	8329 Apr 02 09:27	0° ∀			8331 Oct 11 21:02	0° ∡ 7	
	•			1 1			
	8329 Apr 28 01:31	$0^{\circ}\Upsilon$		desc. node	8331 Oct 24 12:26	14° ∡ ⁴47'43	

	8331 Nov 06 17:32	ე∘ჳ			8334 Jun 01 22:03	0° I I	
	8331 Dec 03 18:29	0° ≈		morning set	8334 Jun 23 14:12	27° I 105'07	
evening max el	8331 Dec 24 19:25	21° ≈ 37'17	46°11'52	morning sec	8334 Jun 25 22:15	0°95	
e venning man er	8332 Jan 02 17:46	0° ∀	.0 1102		8334 Jul 20 00:11	$0^{\circ}\Omega$	
greatest brilliancy	8332 Feb 02 11:40	20° ¥ 56'31	-4.8m				
retrograde	8332 Feb 12 08:55	22°) 45'33		superior conj	8334 Aug 01 09:43	15° Ω 23'45	0°00'21
asc. node	8332 Feb 14 12:27	22°) 39′58		minimum elong	8334 Aug 01 09:40	15° Ω 23'38	0°00'13
evening set	8332 Feb 27 01:38	18° ¥ 29'38		behind sun begin	8334 Jul 31 09:51	14° Ω 09'44	
inferior conj	8332 Mar 04 00:59	14°)(58'31	4°34'11	behind sun end	8334 Aug 02 09:30	16° Ω 37'31	
minimum elong	8332 Mar 03 15:36	15°) 12′54	4°31'36	asc. node	8334 Aug 01 06:19	15° Ω 13'11	
min. Earth dist.	8332 Mar 04 00:08	14°) 59′50	0.27083 AU	max. Earth dist.	8334 Aug 04 08:08	19° Ω 02'10	1.72554 AU
morning rise	8332 Mar 09 05:25	11° ¥ 53'14			8334 Aug 13 04:26	O° Mp	
direct	8332 Mar 24 18:57	7° ₩ 07'38			8334 Sep 06 11:02	0∘ ত	
greatest brilliancy	8332 Apr 03 20:16	9° ₩ 02'56	-4.9m	evening rise	8334 Sep 07 23:05	1° ≏ 51'07	
	8332 May 03 22:08	0 ° Υ			8334 Sep 30 20:19	0° M.	
morning max el	8332 May 14 08:31	10° Ƴ 05'37	46°59'15		8334 Oct 25 09:17	0° ∡ ¹	
	8332 Jun 02 03:40	0°8			8334 Nov 19 03:17	0°ප	
desc. node	8332 Jun 05 06:55	3° 8 28'11		desc. node	8334 Nov 21 00:08	2° ප 15'11	
	8332 Jun 28 12:42	Π $^{\circ}0$			8334 Dec 14 03:34	0° ≈	
	8332 Jul 23 22:36	0°€			8335 Jan 08 12:06	0° ℋ	
	8332 Aug 17 22:59	0 $^{\circ}$ Ω			8335 Feb 03 11:16	0 ° $\mathbf{\Upsilon}$	
	8332 Sep 11 18:30	O° m y			8335 Mar 02 23:03	$_{0\circ}$ 8	
asc. node	8332 Sep 26 04:47	17° m 31'54		evening max el	8335 Mar 07 15:31	4° 8 46'55	46°54'32
	8332 Oct 06 10:14	0∘ ত		asc. node	8335 Mar 13 23:46	11° 8 01'10	
	8332 Oct 30 22:16	0°M₊			8335 Apr 05 23:10	$\Pi^{\circ}0$	
morning set	8332 Nov 12 13:56	15°M33'33		greatest brilliancy	8335 Apr 17 07:49	5° Ⅱ 49'50	-4.9m
	8332 Nov 24 07:07	0° ∡ ″		retrograde	8335 Apr 27 02:29	7° Ⅲ 38'22	
max. Earth dist.	8332 Dec 17 12:16		1.72857 AU	evening set	8335 May 15 02:58	1° Ⅱ 26'49	
	8332 Dec 18 13:42	0°ರ			8335 May 17 11:40	30° ₹ 8	
				inferior conj	8335 May 17 19:25	29° 8 48'01	
superior conj	8332 Dec 19 08:21	0°る57'42	1°00'14	minimum elong	8335 May 18 01:01	29° 8 39'23	8°53'12
minimum elong	8332 Dec 19 18:10	1°る28'03	1°00'03	min. Earth dist.	8335 May 17 19:26	29° 8 48'00	0.27172 AU
	8333 Jan 11 18:46	0° ≈		morning rise	8335 May 20 23:07	27° 8 52'29	
desc. node	8333 Jan 15 21:54	5°≈07'27 18°≈31'51		direct	8335 Jun 07 11:32	22° 8 00'35	-4.9m
evening rise	8333 Jan 26 17:00	0°) €		greatest brilliancy	8335 Jun 17 02:28	23° ႘ 44'43 0° Ⅱ	-4.9m
	8333 Feb 04 22:27 8333 Mar 01 00:50	0°Υ		desc. node	8335 Jun 29 07:14 8335 Jul 03 18:38	о п 3°П06'42	
	8333 Mar 25 02:52	0° 8		morning max el	8335 Jul 27 09:18	23° I I50'32	16025150
	8333 Apr 18 07:03	0°II		morning max er	8335 Aug 02 12:32	0°9	40 23 36
asc. node	8333 May 08 20:42	25° Ⅱ 17'14			8335 Aug 30 09:39	0°Ω	
asc. node	8333 May 12 17:28	0°95			8335 Sep 25 16:36	0° m	
	8333 Jun 06 16:11	$0^{\circ}\Omega$			8335 Oct 21 05:14	0∘ ಹ	
	8333 Jul 02 14:18	0° m)		asc. node	8335 Oct 24 17:11	ა — 4° Ω 09'46	
	8333 Jul 30 18:03	0∘ ⊽		use. noue	8335 Nov 15 05:43	0°M	
evening max el	8333 Jul 31 15:41	0° £ 53'19	46°02'22		8335 Dec 09 21:15	0° ∡ 7	
desc. node	8333 Aug 28 15:40	24° £ 18'25			8336 Jan 03 06:26	0°ರ	
greatest brilliancy	8333 Sep 08 04:01	29° ≏ 41'15	-4.7m	morning set	8336 Jan 22 02:11	23° る 18'51	
· ·	8333 Sep 09 00:48	0°M		Č	8336 Jan 27 11:19	0° ≈	
retrograde	8333 Sep 19 00:06	1°M48'35		desc. node	8336 Feb 13 09:55	21° ≈ 05'53	
	8333 Sep 28 12:45	30° ŖΩ			8336 Feb 20 13:02	0°) €	
evening set	8333 Oct 06 08:39	26° £ 04'48		max. Earth dist.	8336 Feb 27 11:07	8°) (39′09	1.71671 AU
min. Earth dist.	8333 Oct 10 03:11	23° £ 45′03	0.29098 AU				
inferior conj	8333 Oct 10 12:40	23° ჲ 30'07	-8°01'46	superior conj	8336 Mar 01 13:43	12°) 32′34	-0°40'12
minimum elong	8333 Oct 10 05:46	23° ≏ 40'59	8°00'58	minimum elong	8336 Mar 01 04:30	12°) €03'43	0°39'44
morning rise	8333 Oct 14 03:03	21° ≏ 16′21			8336 Mar 15 12:09	0 ° Υ	
direct	8333 Nov 01 01:54	15° ≙ 14'57			8336 Apr 08 09:37	9° 8	
greatest brilliancy	8333 Nov 11 03:45	17° ≏ 05'48	-4.7m	evening rise	8336 Apr 10 17:45	2° 8 56'13	
	8333 Dec 02 14:34	0° M			8336 May 02 07:16	$\Pi^{\circ}0$	
asc. node	8333 Dec 19 15:13	15° ™ 09'22			8336 May 26 07:31	0°©	
morning max el	8333 Dec 20 03:02		45°51'10	asc. node	8336 Jun 05 08:27	12°528'16	
	8334 Jan 03 05:51	0° ∡			8336 Jun 19 12:57	$0 ^{\circ} \Omega$	
	8334 Jan 30 06:16	ರ∘ರ			8336 Jul 14 02:22	0° т р	
	8334 Feb 24 17:41	0° ≈			8336 Aug 08 04:10	0∘ 亚	
	8334 Mar 21 11:25	0°) (20152			8336 Sep 03 03:29	0°M	
desc. node	8334 Apr 10 08:31	24°) €28'52		desc. node	8336 Sep 25 03:03	23°M57'44	
	8334 Apr 14 19:25	$^{\circ \gamma}$:	8336 Sep 30 23:20	0°⊀ ⁷	45041120
	8334 May 08 21:56	0°8		evening max el	8336 Oct 10 11:05	9° ⊀ 22'55	45-41.30

	8336 Nov 04 03:05	ე∘ჳ		superior conj	8339 May 17 06:58	29° 8 18'56	-1°25'01
greatest brilliancy	8336 Nov 18 17:21	7° る 32'57	-4 7m	minimum elong	8339 May 17 12:41	29° 8 36'56	
retrograde	8336 Nov 28 04:37	9° る 11'04	- 4 ./III	minimum clong	8339 May 17 12:41 8339 May 17 20:02	0° Ⅱ	1 23 00
evening set	8336 Dec 14 19:32	3° ප 56'50		max. Earth dist.	8339 May 17 20:02 8339 May 19 02:23		1.71330 AU
inferior conj	8336 Dec 19 11:10	1° る 07'21	-6°08'51	max. Earth dist.	8339 Jun 10 18:04	0°95	1.71330710
minimum elong	8336 Dec 19 21:18	0°る51'33		evening rise	8339 Jun 26 13:51	19° 5 46'13	
min. Earth dist.	8336 Dec 20 07:45		0.28435 AU	asc. node	8339 Jul 03 20:13	28°949'00	
min. Eurin Giot.	8336 Dec 21 06:26	30°R. ✓	0.20 130 110	use. Houe	8339 Jul 04 19:03	0°Ω	
morning rise	8336 Dec 24 22:30	27° ∡ ¹48'12			8339 Jul 29 00:11	0° m)	
direct	8337 Jan 09 18:24	22° х 54'28			8339 Aug 22 10:38	0∘ ಹ	
asc. node	8337 Jan 16 02:49	23° х 40'42			8339 Sep 16 04:28	0° M	
greatest brilliancy	8337 Jan 20 23:44	25° ∡ 13'17	-4.8m		8339 Oct 11 09:20	0° ∡ ¹	
· ·	8337 Jan 30 06:02	8°0		desc. node	8339 Oct 23 14:30	14° ∡ 16'17	
morning max el	8337 Feb 28 21:35	25° る 08'24	46°34'47		8339 Nov 06 07:22	ರ°0	
S	8337 Mar 05 16:08	0° ≈			8339 Dec 03 11:40	0° ≈	
	8337 Apr 02 00:47	0° ∀		evening max el	8339 Dec 22 10:34	19° ≈ 22'17	46°10'21
	8337 Apr 27 14:51	$0^{\circ}\mathbf{\Upsilon}$		Č	8340 Jan 02 22:07	0° ₩	
desc. node	8337 May 07 20:53	12° Ƴ 18'51		greatest brilliancy	8340 Jan 31 00:55	18° ∺ 34'49	-4.8m
	8337 May 22 10:37	0°8		retrograde	8340 Feb 09 22:11	20° ∺ 23'15	
	8337 Jun 15 21:53	$\Pi^{\circ}0$		asc. node	8340 Feb 13 14:22	20° ₩ 06'52	
	8337 Jul 10 05:59	0°ಲ		evening set	8340 Feb 24 13:06	16° ₩ 10'13	
	8337 Aug 03 13:41	$0^{\circ}\Omega$		inferior conj	8340 Mar 01 14:17	12° ¥ 36'11	4°13'15
	8337 Aug 27 21:48	0° m/		minimum elong	8340 Mar 01 05:27	12°) 49'46	4°10'46
asc. node	8337 Aug 28 18:26	1° Mp 03'36		min. Earth dist.	8340 Mar 01 14:01	12°) 36'35	0.27098 AU
morning set	8337 Sep 02 14:51	7° mp 02'17		morning rise	8340 Mar 06 21:39	9° ∺ 26'36	
C	8337 Sep 21 05:58	0∘ ⊽		direct	8340 Mar 22 09:00	4°) 45'11	
	1			greatest brilliancy	8340 Apr 01 10:28	6°) 40′30	-4.9m
superior conj	8337 Oct 09 16:44	22° ≏ 44'39	1°19'27	,	8340 May 04 00:54	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	8337 Oct 09 10:03	22° ≏ 24'03	1°19'24	morning max el	8340 May 11 22:05	7° Ƴ 42'49	46°59'12
max. Earth dist.	8337 Oct 09 19:11	22° ≏ 52'12	1.73300 AU		8340 Jun 01 20:53	0° ႘	
	8337 Oct 15 13:59	0°M		desc. node	8340 Jun 04 08:54	2° 8 47'03	
	8337 Nov 08 22:12	0° ∡ ¹			8340 Jun 28 02:53	$\Pi^{\circ}0$	
evening rise	8337 Nov 15 03:43	7° ∡ 740′16			8340 Jul 23 11:18	0°€	
	8337 Dec 03 07:20	5°0			8340 Aug 17 10:47	$0^{\circ}\Omega$	
desc. node	8337 Dec 18 11:54	18° る 39'41			8340 Sep 11 05:43	0° m)	
	8337 Dec 27 17:39	0° ≈		asc. node	8340 Sep 25 06:51	17° m 04'45	
	8338 Jan 21 05:01	0°) €			8340 Oct 05 21:04	0∘ ত	
	8338 Feb 14 17:50	0 ° Υ			8340 Oct 30 08:53	0° M .	
	8338 Mar 11 10:52	0°8		morning set	8340 Nov 10 07:07	13°M26'19	
	8338 Apr 05 15:11	$\Pi^{\circ}0$			8340 Nov 23 17:37	0° ∡ ¹	
asc. node	8338 Apr 10 11:07	5° Ⅱ 38'34		max. Earth dist.	8340 Dec 15 04:06	26° ₹ 29'20	1.72887 AU
	8338 May 01 22:47	0 \circ \odot					
evening max el	8338 May 19 03:36	18° © 09'55	46°48'48	superior conj	8340 Dec 17 00:35	28° ∡ ¹46'55	1°02'36
	8338 May 31 12:51	$0^{\circ}\Omega$		minimum elong	8340 Dec 17 10:21	29° ҂ 17'07	1°02'27
greatest brilliancy	8338 Jun 27 17:01	18° Ω 35'59	-4.8m		8340 Dec 18 00:13	ರ°0	
retrograde	8338 Jul 08 12:26	20° Ω 47′02			8341 Jan 11 05:21	0° ≈	
evening set	8338 Jul 23 09:49	16° Ω 24'42		desc. node	8341 Jan 14 23:47	4°≈40'24	
min. Earth dist.	8338 Jul 29 04:57	12° Ω 58'34	0.27820 AU	evening rise	8341 Jan 24 07:25	16° ≈ 14'21	
inferior conj	8338 Jul 29 15:08	12° Ω 42'49	0°24'26		8341 Feb 04 09:10	0° ℋ	
minimum elong	8338 Jul 29 16:04	12° Ω 41′23	0°24'00		8341 Feb 28 11:44	0 ° $\mathbf{\Upsilon}$	
desc. node	8338 Jul 31 06:07	11° Ω 42'45			8341 Mar 24 14:02	9° 8	
morning rise	8338 Aug 04 22:54	8° Ω 58'43			8341 Apr 17 18:35	$\Pi^{\circ}0$	
direct	8338 Aug 19 15:14	4° Ω 46′28		asc. node	8341 May 07 22:43	24° Ⅱ 46'48	
greatest brilliancy	8338 Aug 29 10:54	6° Ω 31'57	-4.8m		8341 May 12 05:35	0ංම	
	8338 Oct 02 10:48	0° m			8341 Jun 06 05:24	$0 {\circ} \Omega$	
morning max el	8338 Oct 07 12:27	4° ₯ 44'52	45°46'13		8341 Jul 02 05:45	0° m)	
	8338 Nov 01 03:51	0∘ ⊽		evening max el	8341 Jul 29 06:58	28° m 39'34	46°03'40
asc. node	8338 Nov 21 05:20	22° ≏ 15'36			8341 Jul 30 15:51	0∘ ত	
	8338 Nov 27 23:46	0° M		desc. node	8341 Aug 27 17:43	23° ≏ 00′29	
	8338 Dec 23 13:35	0° ∡ 7		greatest brilliancy	8341 Sep 05 20:10	27° ≙ 31'30	-4.8m
	8339 Jan 17 10:32	5°0		retrograde	8341 Sep 16 15:53	29° ≏ 38'43	
	8339 Feb 10 21:22	0°≈		evening set	8341 Oct 03 21:46	23° ≏ 59'54	
	8339 Mar 07 01:46	0°) €		inferior conj	8341 Oct 08 04:50	21° ≏ 20'33	-7°54'15
desc. node	8339 Mar 12 22:10	7°) 17′36		minimum elong	8341 Oct 07 21:23	21° ≏ 32'18	7°53'19
	8339 Mar 31 01:50	0 ° Υ		min. Earth dist.	8341 Oct 07 18:36	21° ≙ 36'41	0.29074 AU
morning set	8339 Apr 06 14:14	8° Y 10'13		morning rise	8341 Oct 11 21:09	19° ≙ 03'40	
	8339 Apr 23 23:18	9° 8		direct	8341 Oct 29 17:42	13° ≏ 06'00	

greatest brilliancy	8341 Nov 08 18:45	14° £ 55'37	-4.7m	evening rise	8344 Apr 08 04:53	0° 8 26'08	
	8341 Dec 02 22:32	0° M			8344 May 01 18:18	Π $^{\circ}0$	
morning max el	8341 Dec 17 17:00	13°M22'27	45°50'07		8344 May 25 18:42	0	
asc. node	8341 Dec 18 17:10	14°ML21'20		asc. node	8344 Jun 04 10:19	11° © 59'14	
	8342 Jan 02 23:19	0° ∡ 7			8344 Jun 19 00:22	$0^{\circ}\Omega$	
	8342 Jan 29 20:15	ರ°0			8344 Jul 13 14:14	0° m)	
	8342 Feb 24 06:13	0° ≈			8344 Aug 07 16:56	0° ح	
	8342 Mar 20 23:12	0°) €			8344 Sep 02 18:08	0° M	
desc. node	8342 Apr 09 10:34	23°) 59′54		desc. node	8344 Sep 24 05:05	23°M16'04	
dese. Hode	8342 Apr 14 06:46	0° Υ		desc. node	•	0° ⊼ ¹	
	•				8344 Sep 30 18:52		45041101
	8342 May 08 09:00	0° B		evening max el	8344 Oct 08 01:53	7° ∡ 709'47	45°41'21
	8342 Jun 01 08:54	$\Pi^{\circ 0}$			8344 Nov 05 04:50	0°ਰ	
morning set	8342 Jun 21 03:44	24° Ⅱ 44'02		greatest brilliancy	8344 Nov 16 07:07	5° る 18'54	-4.7m
	8342 Jun 25 08:58	0 \circ \odot		retrograde	8344 Nov 25 19:59	6° る 58'12	
	8342 Jul 19 10:49	$0^{\circ}\Omega$		evening set	8344 Dec 12 13:31	1° る 38'59	
					8344 Dec 15 07:31	30°₽ ⋌	
superior conj	8342 Jul 30 00:39	13° Ω 08'19	-0°03'13	inferior conj	8344 Dec 17 02:27	28° х 53'24	-6°23'06
minimum elong	8342 Jul 30 01:26	13° Ω 10'44	0°03'20	minimum elong	8344 Dec 17 12:33	28° ₹ 37'39	
behind sun begin	8342 Jul 29 01:48	11° Ω 57'22		min. Earth dist.	8344 Dec 17 22:34	28° ∡ ¹22'02	0.28493 AU
behind sun end	8342 Jul 31 01:04	14° Ω 24'04		morning rise	8344 Dec 22 11:06	25° × 38'19	0.20175710
asc. node		14° Ω 46'17		direct			
	8342 Jul 31 08:14		1.70512.411		8345 Jan 07 10:20	20° 🗷 39'47	
max. Earth dist.	8342 Aug 02 00:24		1.72513 AU	asc. node	8345 Jan 15 04:44	21° × ⁷ 48'27	
	8342 Aug 12 15:03	O° m þ		greatest brilliancy	8345 Jan 18 15:20	22° ∡ ′58′39	-4.8m
evening rise	8342 Sep 05 15:57	29° m 42'21			8345 Jan 31 07:29	0°₹	
	8342 Sep 05 21:41	0∘ ত		morning max el	8345 Feb 26 13:40	22° る 53'28	46°33'15
	8342 Sep 30 07:05	0°M			8345 Mar 05 12:14	0°≈	
	8342 Oct 24 20:19	0° ∡ ¹			8345 Apr 01 16:06	0° ∀	
	8342 Nov 18 14:47	0°₹			8345 Apr 27 04:16	$0^{\circ}\Upsilon$	
desc. node	8342 Nov 20 02:06	1° る 46'19		desc. node	8345 May 06 22:47	11° Y 45'25	
	8342 Dec 13 15:50	0°≈			8345 May 21 23:02	0°8	
	8343 Jan 08 01:37	0° ∺			8345 Jun 15 09:41	0°II	
		0° Υ				0ಂಣ ೧ π	
	8343 Feb 03 03:05				8345 Jul 09 17:22		
	8343 Mar 02 20:28	0°8			8345 Aug 03 00:45	0 \circ Ω	
evening max el	8343 Mar 05 03:44	2° 8 19'54	46°53'41		8345 Aug 27 08:36	0° m)	
asc. node	8343 Mar 13 01:53	10° 8 04'17		asc. node	8345 Aug 27 20:30	0° ™ 36'40	
	8343 Apr 07 12:05	Π $^{\circ}0$		morning set	8345 Aug 31 07:25	4° ™ 52'12	
greatest brilliancy	8343 Apr 14 21:51	3° Ⅱ 25'46	-4.9m		8345 Sep 20 16:39	0० ऌ	
retrograde	8343 Apr 24 15:19	5° Ⅱ 13'42					
•	8343 May 11 01:04	30°R ∀		superior conj	8345 Oct 07 10:27	20° £ 38′22	1°18'10
evening set	8343 May 12 18:05	28° 8 59'20		minimum elong	8345 Oct 07 03:16	20° £ 16'15	
inferior conj	8343 May 15 08:31	27° 8 23'43	8°59'30	max. Earth dist.	8345 Oct 07 16:42	20° £ 57'39	1.73299 AU
minimum elong	8343 May 15 13:13	27° 8 16'28	8°59'03	max. Lartii dist.	8345 Oct 15 00:39	0° ™	1.732)) 110
•	•					0° ⊼	
min. Earth dist.	8343 May 15 08:29	27° 8 23'46	0.27161 AU		8345 Nov 08 08:59		
morning rise	8343 May 18 08:23	25° 8 33'55		evening rise	8345 Nov 12 20:54	5° ₹ 32'12	
direct	8343 Jun 04 23:44	19° 8 36'10				~~~	
greatest brilliancy					8345 Dec 02 18:18	5°0	
	8343 Jun 14 15:36	21° 8 20'52	-4.9m	desc. node	8345 Dec 02 18:18 8345 Dec 17 13:46	18° る 11'17	
	8343 Jun 30 07:58	$\Pi^{\circ}0$	-4.9m	desc. node	8345 Dec 02 18:18	18° ರ 11'17 0°≈	
desc. node		_	-4.9m	desc. node	8345 Dec 02 18:18 8345 Dec 17 13:46	18°る11'17 0°≈ 0°⊁	
desc. node morning max el	8343 Jun 30 07:58	$\Pi^{\circ}0$		desc. node	8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55	18° ರ 11'17 0°≈	
	8343 Jun 30 07:58 8343 Jul 02 20:30	0°П 1°П51'53		desc. node	8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40	18°る11'17 0°≈ 0°⊁	
	8343 Jun 30 07:58 8343 Jul 02 20:30 8343 Jul 24 22:24 8343 Aug 02 08:50	0°П 1°П51'53 21°П28'14		desc. node	8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40 8346 Feb 14 06:04	18°る11'17 0°≈ 0°升 0°Υ	
	8343 Jun 30 07:58 8343 Jul 02 20:30 8343 Jul 24 22:24 8343 Aug 02 08:50 8343 Aug 30 00:52	0° Π 1° Π 51'53 21° Π 28'14 0° © 0° Ω			8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40 8346 Feb 14 06:04 8346 Mar 10 23:59 8346 Apr 05 05:50	18°る11'17 0°≈ 0°升 0°升 0°分 0°出	
	8343 Jun 30 07:58 8343 Jul 02 20:30 8343 Jul 24 22:24 8343 Aug 02 08:50 8343 Aug 30 00:52 8343 Sep 25 05:43	0°II 1°II51'53 21°II28'14 0°S 0°N		desc. node	8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40 8346 Feb 14 06:04 8346 Mar 10 23:59 8346 Apr 05 05:50 8346 Apr 09 13:07	18°る11'17 0°≈ 0°升 0°升 0°升 0°出 5°用00'41	
morning max el	8343 Jun 30 07:58 8343 Jul 02 20:30 8343 Jul 24 22:24 8343 Aug 02 08:50 8343 Aug 30 00:52 8343 Sep 25 05:43 8343 Oct 20 17:14	0°II 1°II51'53 21°II28'14 0°ജ 0°A 0°M 0°P		asc. node	8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40 8346 Feb 14 06:04 8346 Apr 05 05:50 8346 Apr 09 13:07 8346 May 01 16:46	18°♂11'17 0°≈ 0°升 0°升 0°℃ 0°Ⅱ 5°Ⅲ00'41 0°ॐ	46°50'05
	8343 Jun 30 07:58 8343 Jul 02 20:30 8343 Jul 24 22:24 8343 Aug 02 08:50 8343 Aug 30 00:52 8343 Sep 25 05:43 8343 Oct 20 17:14 8343 Oct 23 19:07	0°II 1°II51'53 21°II28'14 0°© 0°A 0°M 0°A 3°A40'04			8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40 8346 Feb 14 06:04 8346 Apr 05 05:50 8346 Apr 09 13:07 8346 May 01 16:46 8346 May 16 19:09	18°る11'17 0°≈ 0°升 0°升 0°介 0°份 0°Ⅲ 5°Ⅲ00'41 0°孪 15°孪52'19	46°50'05
morning max el	8343 Jun 30 07:58 8343 Jul 02 20:30 8343 Jul 24 22:24 8343 Aug 02 08:50 8343 Aug 30 00:52 8343 Sep 25 05:43 8343 Oct 20 17:14 8343 Oct 23 19:07 8343 Nov 14 17:05	0°II 1°II51'53 21°II28'14 0°© 0°A 0°M 0°A 3°A40'04		asc. node evening max el	8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40 8346 Feb 14 06:04 8346 Mar 10 23:59 8346 Apr 05 05:50 8346 Apr 09 13:07 8346 May 01 16:46 8346 May 16 19:09 8346 May 31 18:43	18°る11'17 0°≈ 0°升 0°升 0°Υ 0°Ч 5°П00'41 0°© 15°©52'19 0°Ω	
morning max el	8343 Jun 30 07:58 8343 Jul 02 20:30 8343 Jul 24 22:24 8343 Aug 02 08:50 8343 Aug 30 00:52 8343 Sep 25 05:43 8343 Oct 20 17:14 8343 Oct 23 19:07 8343 Nov 14 17:05 8343 Dec 09 08:15	0° II 1° II 51'53 21° II 28'14 0° © 0° Ω 0° II 0° Ω 3° Ω 40'04 0° II 0° %		asc. node evening max el greatest brilliancy	8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40 8346 Feb 14 06:04 8346 Mar 10 23:59 8346 Apr 05 05:50 8346 Apr 09 13:07 8346 May 01 16:46 8346 May 16 19:09 8346 May 31 18:43 8346 Jun 25 08:25	18°る11'17 0°≈ 0°升 0°升 0°Y 0°出 5°用00'41 0°© 15°至52'19 0°Ω 16°Ω18'05	46°50'05 -4.8m
morning max el	8343 Jun 30 07:58 8343 Jul 02 20:30 8343 Jul 24 22:24 8343 Aug 02 08:50 8343 Aug 30 00:52 8343 Sep 25 05:43 8343 Oct 20 17:14 8343 Oct 23 19:07 8343 Nov 14 17:05 8343 Dec 09 08:15 8344 Jan 02 17:17	0° II 1° II 51'53 21° II 28'14 0° ፡፡፡ 0° ፡፡ በ 0° ፡፡ በ 0° ፡፡		asc. node evening max el greatest brilliancy retrograde	8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40 8346 Feb 14 06:04 8346 Mar 10 23:59 8346 Apr 05 05:50 8346 Apr 09 13:07 8346 May 01 16:46 8346 May 16 19:09 8346 May 31 18:43 8346 Jun 25 08:25 8346 Jul 06 04:02	18°♂11'17 0°≈ 0° ₩ 0° Ψ 0° Β 0° Π 5° Π00'41 0° © 15° ©52'19 0° Ω 16° Ω18'05 18° Ω28'57	
morning max el	8343 Jun 30 07:58 8343 Jul 02 20:30 8343 Jul 24 22:24 8343 Aug 02 08:50 8343 Aug 30 00:52 8343 Sep 25 05:43 8343 Oct 20 17:14 8343 Oct 23 19:07 8343 Nov 14 17:05 8343 Dec 09 08:15 8344 Jan 02 17:17 8344 Jan 19 16:45	0°II 1°II51'53 21°II28'14 0°© 0°A 0°™ 0°₽ 3°₽40'04 0°™ 0°₹ 0°Ե 21°중01'30		asc. node evening max el greatest brilliancy retrograde evening set	8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40 8346 Feb 14 06:04 8346 Mar 10 23:59 8346 Apr 05 05:50 8346 Apr 09 13:07 8346 May 01 16:46 8346 May 16 19:09 8346 May 31 18:43 8346 Jun 25 08:25 8346 Jul 06 04:02 8346 Jul 21 01:37	18°♂11'17 0°≈ 0°∀ 0°∀ 0°∀ 0°B 0°II 5°II00'41 0°© 15°©52'19 0°Ω 16°Ω18'05 18°Ω28'57 14°Ω05'31	-4.8m
morning max el asc. node morning set	8343 Jun 30 07:58 8343 Jul 02 20:30 8343 Jul 24 22:24 8343 Aug 02 08:50 8343 Aug 30 00:52 8343 Sep 25 05:43 8343 Oct 20 17:14 8343 Oct 23 19:07 8343 Dec 09 08:15 8344 Jan 02 17:17 8344 Jan 19 16:45 8344 Jan 26 22:07	0°II 1°II51'53 21°II28'14 0°S 0°R 0°R 0°A 0°M 0°A 0°M 0°A 21°B01'30 0°≈		asc. node evening max el greatest brilliancy retrograde evening set inferior conj	8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40 8346 Feb 14 06:04 8346 Mar 10 23:59 8346 Apr 05 05:50 8346 Apr 09 13:07 8346 May 01 16:46 8346 May 16 19:09 8346 May 31 18:43 8346 Jun 25 08:25 8346 Jul 06 04:02 8346 Jul 21 01:37 8346 Jul 27 05:39	18°♂11'17 0°≈ 0°∀ 0°∀ 0°∀ 0°B 0°II 5°II00'41 0°© 15°⊕52'19 0°Ω 16°Ω18'05 18°Ω28'57 14°Ω05'31 10°Ω25'14	-4.8m 0°46'42
morning max el	8343 Jun 30 07:58 8343 Jul 02 20:30 8343 Jul 24 22:24 8343 Aug 02 08:50 8343 Aug 30 00:52 8343 Sep 25 05:43 8343 Oct 20 17:14 8343 Oct 23 19:07 8343 Nov 14 17:05 8343 Dec 09 08:15 8344 Jan 02 17:17 8344 Jan 19 16:45	0°II 1°II51'53 21°II28'14 0°S 0°R 0°R 0°S 3°S40'04 0°IL 0°X 0°S 21°S01'30 0°≈ 20°≈38'21		asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong	8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40 8346 Feb 14 06:04 8346 Mar 10 23:59 8346 Apr 05 05:50 8346 Apr 09 13:07 8346 May 01 16:46 8346 May 16 19:09 8346 May 31 18:43 8346 Jun 25 08:25 8346 Jul 06 04:02 8346 Jul 21 01:37 8346 Jul 27 05:39 8346 Jul 27 07:25	18°る11'17 0°≈ 0°升 0°Υ 0°Υ 0°Β 0°Π 5°Π00'41 0°© 15°©52'19 0°Ω 16°Ω18'05 18°Ω28'57 14°Ω05'31 10°Ω25'14 10°Ω22'30	-4.8m
morning max el asc. node morning set	8343 Jun 30 07:58 8343 Jul 02 20:30 8343 Jul 24 22:24 8343 Aug 02 08:50 8343 Aug 30 00:52 8343 Sep 25 05:43 8343 Oct 20 17:14 8343 Oct 23 19:07 8343 Dec 09 08:15 8344 Jan 02 17:17 8344 Jan 19 16:45 8344 Jan 26 22:07	0°II 1°II51'53 21°II28'14 0°S 0°R 0°R 0°A 0°M 0°A 0°M 0°A 21°B01'30 0°≈		asc. node evening max el greatest brilliancy retrograde evening set inferior conj	8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40 8346 Feb 14 06:04 8346 Mar 10 23:59 8346 Apr 05 05:50 8346 Apr 09 13:07 8346 May 01 16:46 8346 May 16 19:09 8346 May 31 18:43 8346 Jun 25 08:25 8346 Jul 06 04:02 8346 Jul 21 01:37 8346 Jul 27 05:39	18° ₹11'17 0° ≈ 0° ₩ 0° ₩ 0° ₩ 5° ₩00'41 0° \$ 15° \$52'19 0° \$ 16° \$\Omega 18'05' 18° \$\Omega 28'57' 14° \$\Omega 05'31' 10° \$\Omega 22'30' 10° \$\Omega 40'30' 10° \$\Omega 40'30'	-4.8m 0°46'42
morning max el asc. node morning set	8343 Jun 30 07:58 8343 Jul 02 20:30 8343 Jul 24 22:24 8343 Aug 02 08:50 8343 Aug 30 00:52 8343 Sep 25 05:43 8343 Oct 20 17:14 8343 Oct 23 19:07 8343 Nov 14 17:05 8343 Dec 09 08:15 8344 Jan 02 17:17 8344 Jan 19 16:45 8344 Jan 26 22:07 8344 Feb 12 11:53	0°用 1°用51'53 21°用28'14 0°野 0°紀 0°別 0°品 3°平40'04 0°別 0°ぷ 21°♂01'30 0°≈ 20°≈38'21 0°光		asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong	8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40 8346 Feb 14 06:04 8346 Mar 10 23:59 8346 Apr 05 05:50 8346 Apr 09 13:07 8346 May 01 16:46 8346 May 16 19:09 8346 May 31 18:43 8346 Jun 25 08:25 8346 Jul 06 04:02 8346 Jul 21 01:37 8346 Jul 27 05:39 8346 Jul 27 07:25	18°る11'17 0°≈ 0°升 0°Υ 0°Υ 0°Β 0°Π 5°Π00'41 0°© 15°©52'19 0°Ω 16°Ω18'05 18°Ω28'57 14°Ω05'31 10°Ω25'14 10°Ω22'30	-4.8m 0°46'42 0°46'00
asc. node morning set desc. node	8343 Jun 30 07:58 8343 Jul 02 20:30 8343 Jul 24 22:24 8343 Aug 02 08:50 8343 Aug 30 00:52 8343 Sep 25 05:43 8343 Oct 20 17:14 8343 Oct 23 19:07 8343 Nov 14 17:05 8343 Dec 09 08:15 8344 Jan 02 17:17 8344 Jan 19 16:45 8344 Jan 26 22:07 8344 Feb 12 11:53 8344 Feb 19 23:51	0°用 1°用51'53 21°用28'14 0°野 0°紀 0°別 0°品 3°平40'04 0°別 0°ぷ 21°♂01'30 0°≈ 20°≈38'21 0°光	46°27'39	asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40 8346 Feb 14 06:04 8346 Mar 10 23:59 8346 Apr 05 05:50 8346 Apr 09 13:07 8346 May 01 16:46 8346 May 16 19:09 8346 May 31 18:43 8346 Jun 25 08:25 8346 Jul 25 08:25 8346 Jul 21 01:37 8346 Jul 27 05:39 8346 Jul 27 07:25 8346 Jul 26 19:46	18° ₹11'17 0° ≈ 0° ₩ 0° ₩ 0° ₩ 5° ₩00'41 0° \$ 15° \$52'19 0° \$ 16° \$\Omega 18'05' 18° \$\Omega 28'57' 14° \$\Omega 05'31' 10° \$\Omega 22'30' 10° \$\Omega 40'30' 10° \$\Omega 40'30'	-4.8m 0°46'42 0°46'00
asc. node morning set desc. node	8343 Jun 30 07:58 8343 Jul 02 20:30 8343 Jul 24 22:24 8343 Aug 02 08:50 8343 Aug 30 00:52 8343 Sep 25 05:43 8343 Oct 20 17:14 8343 Oct 23 19:07 8343 Nov 14 17:05 8343 Dec 09 08:15 8344 Jan 02 17:17 8344 Jan 19 16:45 8344 Jan 26 22:07 8344 Feb 12 11:53 8344 Feb 19 23:51	0°用 1°用51'53 21°用28'14 0°野 0°紀 0°別 0°品 3°平40'04 0°別 0°ぷ 21°♂01'30 0°≈ 20°≈38'21 0°光	46°27'39 1.71713 AU	asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40 8346 Feb 14 06:04 8346 Mar 10 23:59 8346 Apr 05 05:50 8346 Apr 09 13:07 8346 May 01 16:46 8346 May 16 19:09 8346 May 31 18:43 8346 Jun 25 08:25 8346 Jul 26 04:02 8346 Jul 27 05:39 8346 Jul 27 07:25 8346 Jul 26 19:46 8346 Jul 30 08:10	18°る11'17 0°≈ 0°∀ 0°∀ 0°∀ 0°B 0°II 5°II00'41 0°© 15°©52'19 0°Ω 16°Ω18'05 18°Ω28'57 14°Ω05'31 10°Ω25'14 10°Ω22'30 10°Ω40'30 8°Ω31'30	-4.8m 0°46'42 0°46'00
morning max el asc. node morning set desc. node max. Earth dist. superior conj	8343 Jun 30 07:58 8343 Jul 02 20:30 8343 Jul 24 22:24 8343 Aug 02 08:50 8343 Aug 30 00:52 8343 Sep 25 05:43 8343 Oct 20 17:14 8343 Oct 23 19:07 8343 Nov 14 17:05 8343 Dec 09 08:15 8344 Jan 02 17:17 8344 Jan 19 16:45 8344 Feb 12 11:53 8344 Feb 12 23:51 8344 Feb 25 00:21	0°用 1°用51'53 21°用28'14 0°% 0°れ 0°か 0°か 3°至40'04 0°™ 0°ズ 0°式 21°式01'30 0°≈ 20°≈38'21 0°升 6°升16'35	46°27'39 1.71713 AU -0°36'45	asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40 8346 Feb 14 06:04 8346 Feb 14 05:05 8346 Apr 05 05:50 8346 Apr 09 13:07 8346 May 01 16:46 8346 May 16 19:09 8346 May 31 18:43 8346 Jun 25 08:25 8346 Jul 06 04:02 8346 Jul 21 01:37 8346 Jul 27 05:39 8346 Jul 27 07:25 8346 Jul 26 19:46 8346 Jul 30 08:10 8346 Aug 02 13:56 8346 Aug 17 05:54	18° ₹11'17 0° ≈ 0° ¥ 0° Y 0° ¥ 0° ¶ 5° ¶00'41 0° © 15° ©52'19 0° Ω 16° Ω18'05 18° Ω28'57 14° Ω05'31 10° Ω22'30 10° Ω40'30 8° Ω31'30 6° Ω40'53 2° Ω29'39	-4.8m 0°46'42 0°46'00
morning max el asc. node morning set desc. node max. Earth dist.	8343 Jun 30 07:58 8343 Jul 02 20:30 8343 Jul 24 22:24 8343 Aug 02 08:50 8343 Aug 30 00:52 8343 Sep 25 05:43 8343 Oct 20 17:14 8343 Oct 23 19:07 8343 Nov 14 17:05 8343 Dec 09 08:15 8344 Jan 02 17:17 8344 Jan 19 16:45 8344 Feb 12 11:53 8344 Feb 19 23:51 8344 Feb 25 00:21 8344 Feb 28 01:45 8344 Feb 27 17:11	0° II 1° II 51'53 21° II 28'14 0° ፡፡፡ 0° ፡፡ በ 0° ፡፡	46°27'39 1.71713 AU -0°36'45	asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40 8346 Feb 14 06:04 8346 Mar 10 23:59 8346 Apr 05 05:50 8346 Apr 09 13:07 8346 May 01 16:46 8346 May 16 19:09 8346 May 31 18:43 8346 Jun 25 08:25 8346 Jul 06 04:02 8346 Jul 27 05:39 8346 Jul 27 05:39 8346 Jul 27 07:25 8346 Jul 26 19:46 8346 Aug 02 13:56 8346 Aug 02 13:56 8346 Aug 07 00:25	18° ₹11'17 0° ≈ 0° ¥ 0° Y 0° ¥ 0° ¶ 5° ¶00'41 0° € 15° €52'19 0° Ω 16° Ω18'05 18° Ω28'57 14° Ω05'31 10° Ω25'14 10° Ω25'14 10° Ω22'30 10° Ω40'30 8° Ω31'30 6° Ω40'53 2° Ω29'39 4° Ω14'40	-4.8m 0°46'42 0°46'00 0.27776 AU
morning max el asc. node morning set desc. node max. Earth dist. superior conj	8343 Jun 30 07:58 8343 Jul 02 20:30 8343 Jul 24 22:24 8343 Aug 02 08:50 8343 Aug 30 00:52 8343 Sep 25 05:43 8343 Oct 20 17:14 8343 Oct 23 19:07 8343 Nov 14 17:05 8343 Dec 09 08:15 8344 Jan 02 17:17 8344 Jan 19 16:45 8344 Feb 12 11:53 8344 Feb 12 23:51 8344 Feb 25 00:21	0°日 1°用51'53 21°用28'14 0°野 0°和 0°和 0°平 0°至 3°至40'04 0°邢 0°子 0°云 21°云01'30 0°≈ 20°≈38'21 0°米 6°升16'35	46°27'39 1.71713 AU -0°36'45	asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	8345 Dec 02 18:18 8345 Dec 17 13:46 8345 Dec 27 04:55 8346 Jan 20 16:40 8346 Feb 14 06:04 8346 Feb 14 05:05 8346 Apr 05 05:50 8346 Apr 09 13:07 8346 May 01 16:46 8346 May 16 19:09 8346 May 31 18:43 8346 Jun 25 08:25 8346 Jul 06 04:02 8346 Jul 21 01:37 8346 Jul 27 05:39 8346 Jul 27 07:25 8346 Jul 26 19:46 8346 Jul 30 08:10 8346 Aug 02 13:56 8346 Aug 17 05:54	18° ₹11'17 0° ≈ 0° ¥ 0° Y 0° ¥ 0° ¶ 5° ¶00'41 0° © 15° ©52'19 0° Ω 16° Ω18'05 18° Ω28'57 14° Ω05'31 10° Ω22'30 10° Ω40'30 8° Ω31'30 6° Ω40'53 2° Ω29'39	-4.8m 0°46'42 0°46'00 0.27776 AU

	8346 Oct 31 20:06	0∘ ⊽			8349 Jul 01 21:50	0° m)	
asc. node	8346 Nov 20 07:16	0 == 21° £ 41'04		evening max el	8349 Jul 26 21:36	26° Mp 23'15	46905!10
asc. Houe	8346 Nov 27 13:19	0°M		evening max er	8349 Jul 30 14:55	0° ⊡	40 03 10
		0 IIL 0° √ 1		11.			
	8346 Dec 23 01:55	0° ス ′		desc. node	8349 Aug 26 19:48	21° £ 39'24	4.0
	8347 Jan 16 22:17			greatest brilliancy	8349 Sep 03 12:23	25° £ 21'05	-4.8m
	8347 Feb 10 08:47	0° ≈		retrograde	8349 Sep 14 07:48	27° £ 28'34	
	8347 Mar 06 13:00	0° ∀		evening set	8349 Oct 01 10:59	21° £ 54'30	
desc. node	8347 Mar 12 00:15	6°) 49'07		inferior conj	8349 Oct 05 21:11	19° £ 10'39	
_	8347 Mar 30 12:58	0° Υ		minimum elong	8349 Oct 05 13:13	19° £ 23'11	7°45'00
morning set	8347 Apr 04 00:43	5° Y ′37′43		min. Earth dist.	8349 Oct 05 10:25	19° £ 27'36	0.29048 AU
	8347 Apr 23 10:22	0°B		morning rise	8349 Oct 09 15:36	16° ⊆ 50'31	
				direct	8349 Oct 27 09:11	10° ≏ 56'33	
superior conj	8347 May 14 18:07	26° 8 48'29		greatest brilliancy	8349 Nov 06 10:25	12° ≏ 45'45	-4.7m
minimum elong	8347 May 14 22:53	27° 8 03'27			8349 Dec 03 04:22	0°M	
max. Earth dist.	8347 May 16 12:05	29° 8 00'21	1.71307 AU	morning max el	8349 Dec 15 07:16	11°ML07'04	45°49'14
	8347 May 17 07:04	0°II		asc. node	8349 Dec 17 19:06	13°M33'29	
	8347 Jun 10 05:06	0 \circ			8350 Jan 02 16:37	0° ∡	
evening rise	8347 Jun 24 02:19	17° © 20'59			8350 Jan 29 10:19	0°ಕ	
asc. node	8347 Jul 02 22:12	28° © 20'47			8350 Feb 23 18:56	0° ≈	
	8347 Jul 04 06:07	0 $^{\circ}\Omega$			8350 Mar 20 11:16	0° ∀	
	8347 Jul 28 11:21	0° ™		desc. node	8350 Apr 08 12:28	23° ∺ 29′23	
	8347 Aug 21 22:02	0∘ ⊽			8350 Apr 13 18:27	0 ° $\mathbf{\gamma}$	
	8347 Sep 15 16:19	0° M			8350 May 07 20:25	9° 8	
	8347 Oct 10 22:01	0° ∡ ¹			8350 May 31 20:07	Π $^{\circ}0$	
desc. node	8347 Oct 22 16:27	13° ∡ ¹43'20		morning set	8350 Jun 18 16:43	22° Ⅱ 20′00	
	8347 Nov 05 21:43	0°₹			8350 Jun 24 20:01	0 \circ 6	
	8347 Dec 03 05:43	0° ≈			8350 Jul 18 21:46	0 $^{\circ}\Omega$	
evening max el	8347 Dec 20 00:59	17° ≈ 04'11	46°08'32				
	8348 Jan 03 05:17	0° ∀		superior conj	8350 Jul 27 15:18	10° Ω 51′01	-0°06'47
greatest brilliancy	8348 Jan 28 14:35	16° ∺ 11'41	-4.8m	minimum elong	8350 Jul 27 16:55	10° Ω 56′02	0°06'51
retrograde	8348 Feb 07 10:42	17° ∺ 58'48		behind sun begin	8350 Jul 26 18:52	9° Ω 47'35	
asc. node	8348 Feb 12 16:29	17° ∺ 25'35		behind sun end	8350 Jul 28 14:58	12° Ω 04′28	
evening set	8348 Feb 22 00:35	13°) 48′21		asc. node	8350 Jul 30 10:16	14° Ω 18'49	
inferior conj	8348 Feb 28 03:25	10°) 11′53	3°51'44	max. Earth dist.	8350 Jul 30 14:50	14° Ω 33'01	1.72467 AU
minimum elong	8348 Feb 27 19:11	10° ∺ 24'34	3°49'22		8350 Aug 12 01:56	0° m	
min. Earth dist.	8348 Feb 28 04:15	10° ∺ 10′36	0.27117 AU	evening rise	8350 Sep 03 08:52	27° m 32'53	
morning rise	8348 Mar 04 13:33	6° ∺ 57'59			8350 Sep 05 08:35	0∘ ⊽	
direct	8348 Mar 19 22:19	2° ∺ 20'31			8350 Sep 29 18:05	0° M	
greatest brilliancy	8348 Mar 30 01:10	4° ∺ 16′34	-4.9m		8350 Oct 24 07:35	0°⊀	
	8348 May 04 02:54	0 ° γ			8350 Nov 18 02:32	ව°0	
morning max el	8348 May 09 10:41	5° Ƴ 15'53	46°59'19	desc. node	8350 Nov 19 04:02	1° る 16'42	
	8348 Jun 01 14:14	$_{0\circ}$ 8			8350 Dec 13 04:21	0° ≈	
desc. node	8348 Jun 03 10:52	2° 8 04'55			8351 Jan 07 15:24	0° ∀	
	8348 Jun 27 17:19	$\Pi^{\circ}0$			8351 Feb 02 19:18	0 ° $\mathbf{\Upsilon}$	
	8348 Jul 23 00:16	0 \circ \odot		evening max el	8351 Mar 02 16:15	29° Ƴ 53'15	46°52'37
	8348 Aug 16 22:52	$0^{\circ}\Omega$			8351 Mar 02 18:57	9° 8	
	8348 Sep 10 17:14	0° m)		asc. node	8351 Mar 12 03:46	9° 8 04'54	
asc. node	8348 Sep 24 08:48	16° Mp 36'17			8351 Apr 09 22:36	Π °0	
	8348 Oct 05 08:13	0∘ ⊽		greatest brilliancy	8351 Apr 12 11:05	0° Ⅱ 59'40	-4.9m
	8348 Oct 29 19:48	0° M .		retrograde	8351 Apr 22 04:21	2° ∏ 47'45	
morning set	8348 Nov 08 00:38	11° M 19'06			8351 May 03 22:17	30° ₹ 8	
	8348 Nov 23 04:26	0° ∡ ¹		evening set	8351 May 10 08:34	26° 8 30'52	
max. Earth dist.	8348 Dec 12 20:40	24° ₹ 18'44	1.72920 AU	inferior conj	8351 May 12 21:25	24° 8 57'50	9°04'10
				minimum elong	8351 May 13 01:13	24° 8 52'00	9°03'49
superior conj	8348 Dec 14 17:12	26° ∡ ¹36′25	1°04'52	min. Earth dist.	8351 May 12 21:10	24° 8 58'13	0.27156 AU
minimum elong	8348 Dec 15 02:53	27° ∡ ¹06′19	1°04'44	morning rise	8351 May 15 17:53	23° 8 13'19	
	8348 Dec 17 11:02	0°ರ		direct	8351 Jun 02 12:11	17° 8 10'01	
	8349 Jan 10 16:18	0° ≈		greatest brilliancy	8351 Jun 12 04:28	18° 8 55'19	-4.9m
desc. node	8349 Jan 14 01:50	4° ≈ 12'45		•	8351 Jul 01 02:50	\mathfrak{I}°	
evening rise	8349 Jan 21 22:01	13° ≈ 56′24		desc. node	8351 Jul 01 22:34	0°Ⅲ38′21	
-	8349 Feb 03 20:19	0° ∀		morning max el	8351 Jul 22 12:25	19° Ⅱ 07'02	46°29'25
	8349 Feb 27 23:07	0° Y		-	8351 Aug 02 04:54	0ಂತಾ	
	8349 Mar 24 01:41	0°8			8351 Aug 29 16:08	$0^{\circ}\Omega$	
	8349 Apr 17 06:36	$\Pi^{\circ}0$			8351 Sep 24 18:54	0° m/y	
asc. node	8349 May 07 00:35	24° Ⅱ 14'22			8351 Oct 20 05:18	0∘ ⊽	
	8349 May 11 18:13	0∘ ©		asc. node	8351 Oct 22 21:00	3° ≏ 09'55	
	8349 Jun 05 19:08	0°N			8351 Nov 14 04:31	0° M .	

	8351 Dec 08 19:20	0° ∡ 7		greatest brilliancy	8354 Jun 23 00:13	14° Ω 01'28	1 9m
		0°ਤ		-			-4.6111
	8352 Jan 02 04:11			retrograde	8354 Jul 03 19:19	16° Ω 11'17	
morning set	8352 Jan 17 07:57	18° る 46'05		evening set	8354 Jul 18 17:34	11° Ω 46'49	1000101
	8352 Jan 26 08:58	0° ≈		inferior conj	8354 Jul 24 20:08	8° Ω 08'14	1°09'01
desc. node	8352 Feb 11 13:57	20°≈11'01		minimum elong	8354 Jul 24 22:45	8° Ω 04'11	1°08'02
	8352 Feb 19 10:41	0° ∀		min. Earth dist.	8354 Jul 24 10:48	8° Ω 22'41	0.27737 AU
max. Earth dist.	8352 Feb 22 15:23	3° ¥ 59'39	1.71751 AU	desc. node	8354 Jul 29 10:13	5° Ω 22'26	
				morning rise	8354 Jul 31 04:41	4° Ω 23'37	
superior conj	8352 Feb 25 14:20	7° ∺ 41'25		direct	8354 Aug 14 20:32	0° Ω 13′26	
minimum elong	8352 Feb 25 06:28	7° 升 16′50	0°32'49	greatest brilliancy	8354 Aug 24 14:04	1° Ω 57'47	-4.8m
	8352 Mar 14 09:53	0 ° $\mathbf{\gamma}$			8354 Oct 02 10:44	0° m y	
evening rise	8352 Apr 05 16:28	27° Ƴ 57'25		morning max el	8354 Oct 02 18:53	0° Mp 19′28	45°47'41
	8352 Apr 07 07:31	8°			8354 Oct 31 11:53	0∘ ⊽	
	8352 May 01 05:24	$\Pi^{\circ}0$		asc. node	8354 Nov 19 09:17	21° ≏ 07'37	
	8352 May 25 06:00	0ංම			8354 Nov 27 02:31	0° M ₊	
asc. node	8352 Jun 03 12:19	11° © 30'11			8354 Dec 22 13:56	0° ∡ ¹	
	8352 Jun 18 11:57	$0^{\circ}\Omega$			8355 Jan 16 09:41	0° ට	
	8352 Jul 13 02:17	0°m			8355 Feb 09 19:51	0° ≈	
	8352 Aug 07 05:54	0∘ <u>⊽</u>			8355 Mar 05 23:53	0° ∀	
	8352 Sep 02 09:04	0°M		desc. node	8355 Mar 11 02:04	6° ¥ 20'52	
desc. node	8352 Sep 23 07:01	22°M33'29			8355 Mar 29 23:47	0° Υ	
desc. node	8352 Sep 30 15:02	0°×7		morning set	8355 Apr 01 11:22	3° Y ′06'49	
evening max el	8352 Oct 05 17:35	4° ∡ 758'55	45°41'24	morning sec	8355 Apr 22 21:07	0°8	
evening max er	8352 Nov 06 17:07	0°る	43 41 24		6555 Apr 22 21.07	00	
greatest brilliancy	8352 Nov 10 17:07 8352 Nov 13 20:58	3° そ 05'40	-4.7m	superior conj	8355 May 12 05:35	24° 8 20'04	1026120
		4°る46'00	-4./111		•		
retrograde	8352 Nov 23 11:35			minimum elong	8355 May 12 09:19	24° 8 31'50	
	8352 Dec 09 05:16	30°R ₹		max. Earth dist.	8355 May 13 20:09		1.71282 AU
evening set	8352 Dec 10 07:46	29° 🖈 22'04	60 2 614 5		8355 May 16 17:46	0°II	
inferior conj	8352 Dec 14 17:55	26° ∡ 740′15			8355 Jun 09 15:45	0°50	
minimum elong	8352 Dec 15 03:57	26° ∡ ¹24'36		evening rise	8355 Jun 21 14:55	14° © 57'14	
min. Earth dist.	8352 Dec 15 13:20	26° ₹ 09'59	0.28547 AU	asc. node	8355 Jul 02 00:15	27° © 53'56	
morning rise	8352 Dec 19 23:44	23° ҂ 29′18			8355 Jul 03 16:48	0 \circ Ω	
direct	8353 Jan 05 02:47	18° ⊀ 26′09			8355 Jul 27 22:10	0° ™	
asc. node	8353 Jan 14 06:51	20° ₹ 01'01			8355 Aug 21 09:07	0∘ ত	
greatest brilliancy	8353 Jan 16 06:32	20° ∡ ⁴44'12	-4.8m		8355 Sep 15 03:53	0°M₊	
	8353 Feb 01 01:51	0°ප			8355 Oct 10 10:28	0° ∡ 7	
morning max el	8353 Feb 24 06:02	20°る39'49	46°31'44	desc. node	8355 Oct 21 18:24	13° ∡ 11'09	
	8353 Mar 05 07:34	0° ≈			8355 Nov 05 11:53	0°ರ	
	8353 Apr 01 07:02	0° ∀			8355 Dec 02 23:47	0° ≈	
	8353 Apr 26 17:24	0 ° $\mathbf{\gamma}$		evening max el	8355 Dec 17 14:36	14° ≈ 45′27	46°06'55
desc. node	8353 May 06 00:45	11° Y 12'51			8356 Jan 03 14:25	0° ∀	
	8353 May 21 11:14	0° ႘		greatest brilliancy	8356 Jan 26 04:44	13° ¥ 50'49	-4.8m
	8353 Jun 14 21:20	Π°		retrograde	8356 Feb 04 23:07	15° ¥ 36'34	
	8353 Jul 09 04:38	0°©		asc. node	8356 Feb 11 18:23	14° ¥ 40'45	
	8353 Aug 02 11:44	0°N		evening set	8356 Feb 19 12:30	11°) €27'58	
asc. node	8353 Aug 26 22:26	0° m 09'27		inferior conj	8356 Feb 25 16:47	7° ¥ 49'43	3°29'53
	8353 Aug 26 19:22	0° m)		minimum elong	8356 Feb 25 09:13		3°27'41
morning set	8353 Aug 28 23:43	2° m)41'21		min. Earth dist.	8356 Feb 25 18:58	7°) 46′21	0.27138 AU
morning sec	8353 Sep 20 03:17	0∘ ಹ		morning rise	8356 Mar 02 05:33	4°) (31'44	0.27130110
	0333 Бер 20 03.17	° –		morning rise	8356 Mar 16 02:17	30°R≈	
superior conj	8353 Oct 05 03:53	18° ≙ 31'32	1°16'45	direct	8356 Mar 17 11:30	30 k∞ 29°≈57'41	
minimum elong	8353 Oct 03 03:35 8353 Oct 04 20:16	18° ⊆ 08'00		direct	8356 Mar 18 20:55	0°)	
•				arantaat brillianav		1° ∺ 55'23	-4.9m
max. Earth dist.	8353 Oct 05 14:20		1.73289 AU	greatest brilliancy	8356 Mar 27 16:43	1 π3323 0°Υ	-4.9111
	8353 Oct 14 11:14	0°M			8356 May 04 03:02		46050106
	8353 Nov 07 19:37	0° ∡ 7		morning max el	8356 May 06 23:22	2° Υ 50'29	46°59'26
evening rise	8353 Nov 10 14:01	3° ∡ 724′21			8356 Jun 01 06:44	0° 8	
	8353 Dec 02 05:08	0°る		desc. node	8356 Jun 02 12:52	1° 8 24'46	
desc. node	8353 Dec 16 15:50	17° る 43'59			8356 Jun 27 07:06	0°II	
	8353 Dec 26 16:01	0° ≈			8356 Jul 22 12:40	0°99	
	8354 Jan 20 04:10	0° ∀			8356 Aug 16 10:26	0 \circ Ω	
	8354 Feb 13 18:08	$0^{\circ}\mathbf{\Upsilon}$			8356 Sep 10 04:17	0° ™	
	8354 Mar 10 12:56	9° 8		asc. node	8356 Sep 23 10:39	16°M)08′52	
	8354 Apr 04 20:21	$\Pi^{\circ}0$			8356 Oct 04 18:56	0∘ ত	
asc. node	8354 Apr 08 15:04	4° Ⅱ 23'16			8356 Oct 29 06:20	0° M	
	8354 May 01 10:48	0ංව		morning set	8356 Nov 05 17:58	9° ™ 12'24	
evening max el	8354 May 14 10:44	13°535'44	46°51'08		8356 Nov 22 14:54	0° ∡ 7	
	8354 Jun 01 02:27	$0^{\circ}\Omega$		max. Earth dist.	8356 Dec 10 13:27	22° ₹ 09'52	1.72952 AU

superior conj	8356 Dec 12 09:43	24° ∡ ¹26'41	1°07'02	min. Earth dist.	8359 May 10 09:23	22° 8 34'03	0.27149 AU
minimum elong	8356 Dec 12 19:13	24° 🖈 56'05	1°06'54	morning rise	8359 May 13 03:48	20° 8 52'46	0.27117110
g	8356 Dec 16 21:30	ੁ ਅਤ	1 000.	direct	8359 May 31 01:11	14° 8 44'47	
	8357 Jan 10 02:52	0° ≈		greatest brilliancy	8359 Jun 09 16:42	16° 8 29'58	-4.9m
desc. node	8357 Jan 13 03:48	3° ≈ 46′03		desc. node	8359 Jul 01 00:36	29° 8 27'51	
evening rise	8357 Jan 19 12:33	11° ≈ 39'38			8359 Jul 01 16:29	0°II	
Č	8357 Feb 03 07:03	0° ∀		morning max el	8359 Jul 20 03:13	16° Ⅱ 48'39	46°31'04
	8357 Feb 27 10:04	$0^{\circ}\mathbf{\Upsilon}$		Č	8359 Aug 02 00:02	0°ಅ	
	8357 Mar 23 12:56	8° 0			8359 Aug 29 06:54	$0^{\circ}\Omega$	
	8357 Apr 16 18:15	$\Pi^{\circ}0$			8359 Sep 24 07:42	0° ™	
asc. node	8357 May 06 02:38	23° Ⅱ 43'33			8359 Oct 19 17:02	0∘ ⊽	
	8357 May 11 06:31	0 \circ \odot		asc. node	8359 Oct 21 23:04	2° ≙ 41'17	
	8357 Jun 05 08:34	$0^{\circ}\Omega$			8359 Nov 13 15:38	0° M	
	8357 Jul 01 13:44	0° m ∕			8359 Dec 08 06:08	0° ∡ 7	
evening max el	8357 Jul 24 12:01	24° Mp 07'43	46°06'44		8360 Jan 01 14:52	0°ප	
	8357 Jul 30 14:27	0∘ ত		morning set	8360 Jan 14 23:06	16° る 31'12	
desc. node	8357 Aug 25 21:40	20° ≙ 16'45			8360 Jan 25 19:38	0° ≈	
greatest brilliancy	8357 Sep 01 03:55	23° ≙ 11'03	-4.8m	desc. node	8360 Feb 10 15:49	19° ≈ 43'37	
retrograde	8357 Sep 11 23:55	25° £ 19'44			8360 Feb 18 21:23	0° ∀	
evening set	8357 Sep 29 00:02	19° £ 50'08		max. Earth dist.	8360 Feb 20 04:08	1° ¥ 36′02	1.71792 AU
min. Earth dist.	8357 Oct 03 02:04	17° ≏ 19'46					
inferior conj	8357 Oct 03 13:27	17° ≏ 01'52		superior conj	8360 Feb 23 02:37	5°) 16′17	
minimum elong	8357 Oct 03 05:02	17° ≙ 15'06	7°35'52	minimum elong	8360 Feb 22 19:32	4°) ₹54'08	0°29'17
morning rise	8357 Oct 07 10:09	14° △ 38'25			8360 Mar 13 20:38	0°Υ	
direct	8357 Oct 25 00:36	8° ≏ 48'01		evening rise	8360 Apr 03 03:38	25° Y 27'52	
greatest brilliancy	8357 Nov 04 02:17	10° £ 37'17	-4.7m		8360 Apr 06 18:21	0° 8	
	8357 Dec 03 07:48	0°M	45040104		8360 Apr 30 16:21	0°II	
morning max el	8357 Dec 12 22:24	8°M54'52	45°48'21	,	8360 May 24 17:07	0°©	
asc. node	8357 Dec 16 21:10	12°M47'40		asc. node	8360 Jun 02 14:21	11°501'44	
	8358 Jan 02 09:12	0° ∡			8360 Jun 17 23:22	0° N	
	8358 Jan 28 23:56	0°る 0°≈			8360 Jul 12 14:14	0° െ 0°™	
	8358 Feb 23 07:16	0° ∺			8360 Aug 06 18:49	0° ™	
desc. node	8358 Mar 19 22:55 8358 Apr 07 14:26	23° ₩ 00'24		desc. node	8360 Sep 02 00:03 8360 Sep 22 09:03	21°M51'06	
desc. node	8358 Apr 13 05:42	23 π0024 0°Υ		desc. node	8360 Sep 22 09.03 8360 Sep 30 11:43	21 II L 3100	
	8358 May 07 07:25	0°8		evening max el	8360 Oct 03 09:43	2° x ⁷ 49'35	45°41'29
	8358 May 31 06:56	0°II		evening max ci	8360 Nov 09 01:06	0°る	45 41 29
morning set	8358 Jun 16 05:35	19° ∏ 56'39		greatest brilliancy	8360 Nov 11 11:07	0°る53'32	-4.7m
morning set	8358 Jun 24 06:43	0°9		retrograde	8360 Nov 21 02:50	2° ට 334'23	7.7111
	8358 Jul 18 08:21	$0^{\circ}\Omega$		retrograde	8360 Dec 02 12:42	30°R. ₹	
	0550 041 10 00.21	000		evening set	8360 Dec 08 02:03	27° ∡ ¹06'03	
superior conj	8358 Jul 25 05:56	8° Ω 34'39	-0°10'21	inferior conj	8360 Dec 12 09:26	24° ₹ 27'53	-6°49'41
minimum elong	8358 Jul 25 08:24	8° Ω 42'18		minimum elong	8360 Dec 12 19:20	24° ✓ 12'25	6°47'39
behind sun begin	8358 Jul 24 13:41	7° Ω 44'08		min. Earth dist.	8360 Dec 13 04:04	23° ₹ '58'46	0.28598 AU
behind sun end	8358 Jul 26 03:07	9° Ω 40′26		morning rise	8360 Dec 17 12:17	21° ₹ '21'00	
max. Earth dist.	8358 Jul 28 04:10	12° Ω 12'42	1.72421 AU	direct	8361 Jan 02 19:17	16° ∡ 13'27	
asc. node	8358 Jul 29 12:11	13° Ω 52'06		asc. node	8361 Jan 13 08:44	18° ∡ 17'51	
	8358 Aug 11 12:27	0° m p		greatest brilliancy	8361 Jan 13 21:25	18° ∡ ¹29'59	-4.8m
evening rise	8358 Sep 01 01:52	25° m 24'56			8361 Feb 01 15:17	5°0	
	8358 Sep 04 19:06	0∘ ⊽		morning max el	8361 Feb 21 21:36	18° る 24'31	46°29'58
	8358 Sep 29 04:44	0°M₊			8361 Mar 05 02:17	0° ≈	
	8358 Oct 23 18:31	0°⊀			8361 Mar 31 21:47	0°) €	
	8358 Nov 17 13:59	0°₹			8361 Apr 26 06:29	0° Y	
desc. node	8358 Nov 18 06:06	0° る 48'28		desc. node	8361 May 05 02:48	10° Ƴ 40'36	
	8358 Dec 12 16:38	0° ≈			8361 May 20 23:25	$0^{\circ}S$	
	8359 Jan 07 05:03	0° ∀			8361 Jun 14 08:57	Π °0	
	8359 Feb 02 11:32	0° Υ			8361 Jul 08 15:52	0°®	
evening max el	8359 Feb 28 05:50	27° Y 30′12	46°51'43	_	8361 Aug 01 22:39	0°N	
_	8359 Mar 02 18:03	0° 8		asc. node	8361 Aug 26 00:19	29° Ω 42'11	
asc. node	8359 Mar 11 05:45	8° 8 05'10	4.0		8361 Aug 26 06:05	0° m/y	
greatest brilliancy	8359 Apr 09 23:39	28° 8 33'44	-4.9m	morning set	8361 Aug 26 15:54	0° Mp 30'16	
	8359 Apr 15 09:12	0°Ⅱ 0°Ⅲ			8361 Sep 19 13:53	0∘ ⊽	
retrograde	8359 Apr 19 17:48	0° Ⅱ 22'40			02(1.0 + 02.21.21	16000444	1015112
arranint	8359 Apr 24 00:24	30°R 8		superior conj	8361 Oct 02 21:21	16° Ω 24'43	1°15'13
evening set	8359 May 07 22:30	24° 8 03'56	0007144	minimum elong	8361 Oct 02 13:19	15° Ω 59'59	
inferior conj	8359 May 10 10:17	22° 8 32'40 22° 8 28'16	9°07'44 9°07'29	max. Earth dist.	8361 Oct 03 10:55	17° Ω 06'34	1.73277 AU
minimum elong	8359 May 10 13:08	22 028 16	9 07 29		8361 Oct 13 21:49	0° M	

	8361 Nov 07 06:17	0° ∡ 7			8364 Mar 26 10:59	0°) {	
evening rise	8361 Nov 08 07:13	1° √ 16'44			8364 May 04 02:20	0°Υ	
	8361 Dec 01 15:57	0°る		morning max el	8364 May 04 12:30	0° Υ 25'36	46°59'24
desc. node	8361 Dec 15 17:49	17° る 16'25			8364 May 31 23:14	0°8	
	8361 Dec 26 03:07	0° ≈		desc. node	8364 Jun 01 14:52	0° 8 44'12	
	8362 Jan 19 15:42	0°) €			8364 Jun 26 21:06	$\Pi^{\circ}0$	
	8362 Feb 13 06:19	$0^{\circ}\mathbf{\Upsilon}$			8364 Jul 22 01:23	0°€	
	8362 Mar 10 02:05	8° 0			8364 Aug 15 22:22	$0^{\circ}\Omega$	
	8362 Apr 04 11:13	$\Pi^{\circ}0$			8364 Sep 09 15:41	0° m	
asc. node	8362 Apr 07 17:05	3° Ⅱ 45'11		asc. node	8364 Sep 22 12:45	15°Mp41'11	
	8362 May 01 05:33	0°ಅ			8364 Oct 04 05:59	0∘ ত	
evening max el	8362 May 12 01:40	11° © 16'35	46°52'09		8364 Oct 28 17:10	0° M	
	8362 Jun 01 13:29	$0^{\circ}\Omega$		morning set	8364 Nov 03 11:09	7° ጤ 04'18	
greatest brilliancy	8362 Jun 20 16:29	11° Ω 44'17	-4.9m		8364 Nov 22 01:39	0° √	
retrograde	8362 Jul 01 09:54	13° Ω 52'17		max. Earth dist.	8364 Dec 08 07:59	20° ∡ 05′27	1.72984 AU
evening set	8362 Jul 16 09:32	9° Ω 26'40					
inferior conj	8362 Jul 22 10:27	5° Ω 50'11	1°31'17	superior conj	8364 Dec 10 02:14	22° х 16′03	1°09'05
minimum elong	8362 Jul 22 13:54	5° Ω 44'51	1°30'04	minimum elong	8364 Dec 10 11:32	22° ∡ ¹44'48	1°08'59
min. Earth dist.	8362 Jul 22 01:59	6° Ω 03'18	0.27696 AU		8364 Dec 16 08:18	0°ಕ	
morning rise	8362 Jul 28 18:59	2° Ω 05'19			8365 Jan 09 13:47	0° ≈	
desc. node	8362 Jul 28 12:05	2° Ω 14'36		desc. node	8365 Jan 12 05:41	3°≈18′01	
	8362 Aug 02 05:39	30°Rூ		evening rise	8365 Jan 17 03:18	9°≈22'35	
direct	8362 Aug 12 10:33	27°956'07	4.0		8365 Feb 02 18:08	0°) €	
greatest brilliancy	8362 Aug 22 03:58	29°540'10	-4.8m		8365 Feb 26 21:22	$^{\circ \gamma}$	
	8362 Aug 23 02:14	0° Ω	45040120		8365 Mar 23 00:29	0° B	
morning max el	8362 Sep 30 08:45	28° Ω 03'05	45°48'30	aca mada	8365 Apr 16 06:13	0°Ⅲ 23°Ⅲ11'41	
	8362 Oct 02 09:15	0∘ ⊽ 0∘₥		asc. node	8365 May 05 04:38	23° ய 11741 0° 9	
asc. node	8362 Oct 31 03:33 8362 Nov 18 11:15	0° ഫ 33'50			8365 May 10 19:10 8365 Jun 04 22:29	0°€	
asc. Houe	8362 Nov 26 15:45	20 = 33 30 0° M			8365 Jul 01 06:22	0° Mp	
	8362 Nov 20 13.43 8362 Dec 22 02:02	0° ⊼ 1		evening max el	8365 Jul 22 03:02	رانا کا 21° m 52'15	46°08'19
	8363 Jan 15 21:10	°ੇਤ ਹ`ਤ		evening max er	8365 Jul 30 15:48	0° Ω	40 0017
	8363 Feb 09 07:01	0° ≈		desc. node	8365 Aug 24 23:43	0 — 18° Ω 50'05	
	8363 Mar 05 10:54	0° ∀		greatest brilliancy	8365 Aug 29 18:56	20° £ 58'47	-4.8m
desc. node	8363 Mar 10 04:05	5° ¥ 52'52		retrograde	8365 Sep 09 16:26	23° ⊆ 09'16	1.0111
dese. node	8363 Mar 29 10:44	0°Υ		evening set	8365 Sep 26 12:57	17° Ω 44'03	
morning set	8363 Mar 29 22:02	0° Υ 35'24		min. Earth dist.	8365 Sep 30 17:21		0.28996 AU
S	8363 Apr 22 08:04	0°8		inferior conj	8365 Oct 01 05:36	14° ≙ 51'22	
	1			minimum elong	8365 Sep 30 20:47	15° ≏ 05'13	7°26'03
superior conj	8363 May 09 16:46	21° 8 50'03	-1°27'09	morning rise	8365 Oct 05 04:44	12° £ 24'36	
minimum elong	8363 May 09 19:28	21° 8 58'32	1°27'18	direct	8365 Oct 22 16:14	6° £ 37'51	
max. Earth dist.	8363 May 11 00:27	23° 8 29'38	1.71265 AU	greatest brilliancy	8365 Nov 01 17:44	8° £ 27'09	-4.7m
	8363 May 16 04:42	$\Pi^{\circ}0$			8365 Dec 03 10:08	0°M	
	8363 Jun 09 02:41	0ංම		morning max el	8365 Dec 10 14:11	6°M43'19	45°47'29
evening rise	8363 Jun 19 02:53	12° © 30'34		asc. node	8365 Dec 15 23:06	12°M01'12	
asc. node	8363 Jul 01 02:06	27° 5 25'35			8366 Jan 02 01:50	0° ∡ ¹	
	8363 Jul 03 03:46	$0^{\circ}\Omega$			8366 Jan 28 13:45	0°ಕ	
	8363 Jul 27 09:15	0° т р			8366 Feb 22 19:52	0° ≈	
	8363 Aug 20 20:28	0∘ ⊽			8366 Mar 19 10:53	0° ∀	
	8363 Sep 14 15:44	0°M		desc. node	8366 Apr 06 16:28	22°) (30'39	
	8363 Oct 09 23:16	0° ∡ 7			8366 Apr 12 17:16	0° Υ	
desc. node	8363 Oct 20 20:27	12° ₹ 38'16			8366 May 06 18:42	8°0	
	8363 Nov 05 02:30	ිර ව			8366 May 30 18:02	0°Ⅱ 17°Ⅲ23104	
	8363 Dec 02 18:39	0°≈	46905126	morning set	8366 Jun 13 18:40	17° Ⅱ 33'04	
evening max el	8363 Dec 15 03:46 8364 Jan 04 03:06	12° ≈ 25'04 0° 升	46°05'26		8366 Jun 23 17:41 8366 Jul 17 19:15	$0 _{\circ}$ ೮	
greatest brilliancy	8364 Jan 23 18:46	11° H 29'27	-4.8m		8300 Jul 17 19.13	0 86	
retrograde	8364 Feb 02 11:44	11 X 2927	- 7 .0III	superior conj	8366 Jul 22 20:33	6° Ω 17'09	-0°13'53
asc. node	8364 Feb 10 20:20	13 X 14 26 11° X 50'18		minimum elong	8366 Jul 22 23:51	6° Ω 27'23	
evening set	8364 Feb 17 00:44	9° H 06'56		behind sun begin	8366 Jul 22 11:26	5° Ω 48'50	3 13 33
inferior conj	8364 Feb 23 06:16		3°07'46	behind sun end	8366 Jul 23 12:15	7° Ω 05'57	
minimum elong	8364 Feb 22 23:23	5°) (38'00	3°05'46	max. Earth dist.	8366 Jul 25 19:04	9° Ω 56'15	1.72381 AU
min. Earth dist.	8364 Feb 23 09:46	5° ∺ 22'00	0.27162 AU	asc. node	8366 Jul 28 14:07	13° Ω 24'24	
morning rise	8364 Feb 28 21:32	2°) (05'49			8366 Aug 10 23:18	0°m)	
2	8364 Mar 04 02:33	30°R≈		evening rise	8366 Aug 29 18:46	23° Mp 15'28	
direct	8364 Mar 15 00:46	27° ≈ 34'32		Č	8366 Sep 04 05:59	0∘ <u>⊽</u>	
greatest brilliancy	8364 Mar 25 08:34	29° ≈ 34'24	-4.9m		8366 Sep 28 15:45	0°M	
- 7					•		

desc. node	8366 Oct 23 05:50 8366 Nov 17 08:00 8366 Nov 17 01:50	0°♂ 0°♂18'33 0°♂		desc. node	8369 May 04 04:40 8369 May 20 11:44 8369 Jun 13 20:44	10° Y 07'25 0° ႘ 0° Ⅱ	
	8366 Dec 12 05:20 8367 Jan 06 19:12	0° ∺			8369 Jul 08 03:15 8369 Aug 01 09:43	0 ಂ ${f U}$	
	8367 Feb 02 04:27	0° Υ		morning set	8369 Aug 24 08:20	28° Ω 19'29	
evening max el	8367 Feb 25 20:17	25° Y 08′24	46°50'39	asc. node	8369 Aug 25 02:23	29° Ω 15′08	
	8367 Mar 02 18:42	0°8			8369 Aug 25 16:55	0° m	
asc. node	8367 Mar 10 07:51	7° 8 03'13	4.0		8369 Sep 19 00:36	0∘ ⊽	
greatest brilliancy retrograde	8367 Apr 07 12:01 8367 Apr 17 07:30	26° と 06'43 27° と 56'29	-4.9m	superior conj	8369 Sep 30 15:03	14° ≙ 18'24	1°13'36
evening set	8367 May 05 11:55	21° 8 36'59		minimum elong	8369 Sep 30 06:41	13° ⊆ 52'35	1°13'25
inferior conj	8367 May 07 23:08	20° 8 06'34	9°10'20	max. Earth dist.	8369 Oct 01 06:52	15° ≏ 07'08	1.73264 AU
minimum elong	8367 May 08 01:02	20° 8 03'40	9°10'10		8369 Oct 13 08:31	0° M	
min. Earth dist.	8367 May 07 21:23	20° 8 09'16	0.27138 AU	evening rise	8369 Nov 06 00:37	29°M09'22	
morning rise direct	8367 May 10 14:10 8367 May 28 14:31	18° と 30'31 12° と 18'57			8369 Nov 06 17:04 8369 Dec 01 02:55	%マ 0°ス	
greatest brilliancy	8367 Jun 07 04:28	14° 8 03'17	-4.9m	desc. node	8369 Dec 14 19:42	0 3 16°る48'02	
desc. node	8367 Jun 30 02:28	28° 8 18'19			8369 Dec 25 14:24	0° ≈	
	8367 Jul 02 02:55	$\Pi^{\circ}0$			8370 Jan 19 03:25	0° ∀	
morning max el	8367 Jul 17 17:50	14° Ⅱ 29'10	46°32'40		8370 Feb 12 18:41	0° Υ	
	8367 Aug 01 18:53 8367 Aug 28 21:43	0.೮ 0.ತಿ			8370 Mar 09 15:28 8370 Apr 04 02:23	0°B 0°B	
	8367 Sep 23 20:42	0°Mp		asc. node	8370 Apr 04 02:23	3° Д 06'18	
	8367 Oct 19 05:03	0∘ ⊽			8370 May 01 00:57	0ంత	
asc. node	8367 Oct 21 00:59	2° ₽ 11'18		evening max el	8370 May 09 15:35	8° 9 54'19	46°53'00
	8367 Nov 13 03:04	0°M			8370 Jun 02 04:32	0° N	
	8367 Dec 07 17:15 8368 Jan 01 01:49	್ತ 0°⊀		greatest brilliancy retrograde	8370 Jun 18 08:59 8370 Jun 28 23:59	9° Ω 26'44 11° Ω 32'48	-4.9m
morning set	8368 Jan 12 14:19	14°る15'46		evening set	8370 Jul 14 01:34	$7^{\circ}\Omega_{05'36}$	
morning sec	8368 Jan 25 06:33	0° ≈		min. Earth dist.	8370 Jul 19 17:26	3° Ω 43'01	0.27655 AU
desc. node	8368 Feb 09 17:47	19° ≈ 15'42		inferior conj	8370 Jul 20 00:44	3° £ 31′42	1°53'31
max. Earth dist.	8368 Feb 17 15:26	29°≈07'14	1.71834 AU	minimum elong	8370 Jul 20 04:59	3° Ω 25'05	1°52'03
	8368 Feb 18 08:20	0° ∀		morning rise	8370 Jul 25 23:15 8370 Jul 26 09:01	30°₹© 29°©46'49	
superior conj	8368 Feb 20 15:04	2°) 50′56	-0°26'05	desc. node	8370 Jul 27 14:09	29°509'01	
minimum elong	8368 Feb 20 08:48	2°) 31′21		direct	8370 Aug 10 00:02	25°538'10	
	8368 Mar 13 07:39	$0^{\circ}\Upsilon$		greatest brilliancy	8370 Aug 19 18:22	27° 5 22'40	-4.8m
evening rise	8368 Mar 31 14:58	22° Y 57'52			8370 Aug 25 21:01	0°N	45040104
	8368 Apr 06 05:28 8368 Apr 30 03:36	0°B 8°0		morning max el	8370 Sep 27 22:15 8370 Oct 02 06:53	25° Ω 45'35 0° m)	45°49'34
	8368 May 24 04:32	0°©			8370 Oct 02 00:53 8370 Oct 30 18:57	0∘ ত المار	
asc. node	8368 Jun 01 16:13	10° © 31'56		asc. node	8370 Nov 17 13:10	20° ഫ 00'15	
	8368 Jun 17 11:03	$0^{\circ}\Omega$			8370 Nov 26 04:52	0°M₊	
	8368 Jul 12 02:25	0° mp			8370 Dec 21 14:04	0° ∡ 7	
	8368 Aug 06 08:01 8368 Sep 01 15:28	0° ™ 0° 亚			8371 Jan 15 08:39 8371 Feb 08 18:13	್ %%	
desc. node	8368 Sep 21 11:04	21°ML07'29			8371 Mar 04 21:57	0° ∺	
	8368 Sep 30 09:26	0°⊀		desc. node	8371 Mar 09 06:07	5° ¥ 24'50	
evening max el	8368 Oct 01 01:27	0° ∡ 38′29	45°41'25	morning set	8371 Mar 27 08:37	28°) €03'46	
greatest brilliancy	8368 Nov 09 01:59	28° ∡ 41'37	-4.7m		8371 Mar 28 21:42	0° Υ	
retrograde	8368 Nov 14 06:46 8368 Nov 18 17:46	0°중 0°중22'21			8371 Apr 21 18:59	0°8	
retrograde	8368 Nov 23 02:18	0 022 21 30°R 🗷		superior conj	8371 May 07 03:53	19° 8 19'54	-1°27'31
evening set	8368 Dec 05 20:26	24° ₹ 49'51		minimum elong	8371 May 07 05:31	19° 8 25'02	
inferior conj	8368 Dec 10 01:07	22° ∡ 15′19		max. Earth dist.	8371 May 08 03:40	20° 8 34'38	1.71251 AU
minimum elong	8368 Dec 10 10:48	22° ₹ 00'09			8371 May 15 15:36	0°II	
min. Earth dist.	8368 Dec 10 19:11 8368 Dec 15 00:52	21° 🖈 47'01 19° 🖈 12'30	0.28648 AU	evening rise	8371 Jun 08 13:35 8371 Jun 16 14:45	0°ഇ 10° © 03'41	
morning rise direct	8368 Dec 31 11:35	19° × °12′30 14° × ⁷ 00′34		asc. node	8371 Jun 16 14:45 8371 Jun 30 04:07	26°©57'43	
greatest brilliancy	8369 Jan 11 12:42	16° ⊀ 15'46	-4.8m		8371 Jul 02 14:44	0°Ω	
asc. node	8369 Jan 12 10:41	16° ₹ 37'54			8371 Jul 26 20:22	0° m)	
	8369 Feb 02 01:29	0°ප 160 ප 00	1.0000115		8371 Aug 20 07:50	0° ™	
morning max el	8369 Feb 19 12:17	16° る 06'26 0°≈	46°28'12		8371 Sep 14 03:35	0° M 0° <i>⊀</i> 7	
	8369 Mar 04 20:43 8369 Mar 31 12:31	0° ₩		desc. node	8371 Oct 09 12:02 8371 Oct 19 22:24	12° × ⁷ 05'15	
	8369 Apr 25 19:38	0° Υ			8371 Nov 04 17:10	0°ප	

	8371 Dec 02 13:54	0° ≈		morning set	8374 Jun 11 07:15	15° Ⅱ 08'28	
evening max el	8371 Dec 02 13:54 8371 Dec 12 16:56	0 ∞ 10°≈05'15	46°03'54	morning set	8374 Jun 23 04:26	0°95	
evening max er	8372 Jan 04 19:56	0° ∀	40 03 34		8374 Jul 17 05:54	0°Ω	
greatest brilliancy	8372 Jan 21 08:05	9° ₩ 07'32	-4 8m		03/4 Jul 1/ 03.34	0 86	
retrograde	8372 Jan 31 00:46	10° ¥ 52'32	4.0111	superior conj	8374 Jul 20 10:36	3°Ω58'33	-0°17'27
asc. node	8372 Feb 09 22:26	8°) 54'27		minimum elong	8374 Jul 20 14:44	4°Ω11'24	
evening set	8372 Feb 14 13:08	6°) 45'32		max. Earth dist.	8374 Jul 23 11:40	7° Ω 45'41	1.72338 AU
inferior conj	8372 Feb 20 19:39	3°) €04'58	2°45'18	asc. node	8374 Jul 27 16:09	12° Ω 57'46	1.,2550110
minimum elong	8372 Feb 20 13:31		2°43'29		8374 Aug 10 09:54	0° m)	
min. Earth dist.	8372 Feb 21 00:14		0.27193 AU	evening rise	8374 Aug 27 11:18	21° mp 05'41	
	8372 Feb 25 23:10	30°R≈			8374 Sep 03 16:37	0∘ ಹ	
morning rise	8372 Feb 26 13:21	29° ≈ 40'12			8374 Sep 28 02:32	0°M	
direct	8372 Mar 12 14:17	25°≈11'11			8374 Oct 22 16:56	0° ∡ 7	
greatest brilliancy	8372 Mar 23 00:07	27°≈13'08	-4.9m	desc. node	8374 Nov 16 09:58	29° х 49′32	
8	8372 Mar 29 01:18	0°) €			8374 Nov 16 13:27	0°₹	
morning max el	8372 May 02 02:33	28°) €03'09	46°59'22		8374 Dec 11 17:48	0° ≈	
C	8372 May 04 00:38	0° Y			8375 Jan 06 09:06	0° ∀	
desc. node	8372 May 31 16:47	0° 8 04'05			8375 Feb 01 21:16	$0^{\circ}\mathbf{\Upsilon}$	
	8372 May 31 15:21	0°8		evening max el	8375 Feb 23 10:50	22° Ƴ 48'06	46°49'25
	8372 Jun 26 10:50	0° I I		C	8375 Mar 02 20:06	0°8	
	8372 Jul 21 13:53	0ಂಣ		asc. node	8375 Mar 09 09:44	6° 8 00'27	
	8372 Aug 15 10:07	$0^{\circ}\Omega$		greatest brilliancy	8375 Apr 05 00:24	23° 8 40'46	-4.9m
	8372 Sep 09 02:56	0° m)		retrograde	8375 Apr 14 20:46	25° 8 30'47	
asc. node	8372 Sep 21 14:39	15° m 13'20		evening set	8375 May 03 00:42	19° 8 11'38	
	8372 Oct 03 16:53	0∘ ⊽		inferior conj	8375 May 05 11:55	17° 8 41'06	9°11'57
	8372 Oct 28 03:50	0° M ₊		minimum elong	8375 May 05 12:49	17° 8 39'42	9°11'48
morning set	8372 Nov 01 04:30	4° ጤ 57'15		min. Earth dist.	8375 May 05 09:23	17° 8 44'59	0.27130 AU
	8372 Nov 21 12:13	0° ∡ ¹		morning rise	8375 May 08 00:59	16° 8 07'55	
max. Earth dist.	8372 Dec 06 04:39	18° ∡ 08'18	1.73012 AU	direct	8375 May 26 03:53	9° 8 53'48	
				greatest brilliancy	8375 Jun 04 16:21	11° 8 37'04	-4.9m
superior conj	8372 Dec 07 19:01	20° ∡ ¹06'53	1°11'00	desc. node	8375 Jun 29 04:33	27° 8 11'42	
minimum elong	8372 Dec 08 04:04	20° ∡ ³34'51	1°10'56		8375 Jul 02 10:21	$\Pi^{\circ}0$	
	8372 Dec 15 18:53	8°0		morning max el	8375 Jul 15 07:32	12° Ⅱ 07'46	46°34'10
	8373 Jan 09 00:28	0° ≈			8375 Aug 01 13:02	0 \circ \odot	
desc. node	8373 Jan 11 07:44	2° ≈ 51'12			8375 Aug 28 12:07	$0^{\circ}\Omega$	
evening rise	8373 Jan 14 18:20	7° ≈ 07'07			8375 Sep 23 09:20	O° m	
	8373 Feb 02 05:01	0° ∀			8375 Oct 18 16:41	0∘ ত	
	8373 Feb 26 08:30	0 ° Υ		asc. node	8375 Oct 20 02:53	1° ≏ 42'16	
	8373 Mar 22 11:55	0° ႘			8375 Nov 12 14:09	0° M.	
	8373 Apr 15 18:05	Π $^{\circ}0$			8375 Dec 07 04:02	0° ∡ ¹	
asc. node	8373 May 04 06:31	22° Ⅲ 39'42			8375 Dec 31 12:29	0°ප	
	8373 May 10 07:44	0ಂ ತಾ		morning set	8376 Jan 10 05:44	12° る 01'58	
	8373 Jun 04 12:21	$0 {\circ} \mathcal{N}$			8376 Jan 24 17:09	0° ≈	
	8373 Jun 30 23:06	0° m		desc. node	8376 Feb 08 19:49	18° ≈ 49'04	
evening max el	8373 Jul 19 18:41	19° m 38'58	46°09'57	max. Earth dist.	8376 Feb 15 01:50	26° ≈ 36'54	1.71871 AU
	8373 Jul 30 18:19	0∘ 亚			8376 Feb 17 18:55	0° ℋ	
desc. node	8373 Aug 24 01:45	17° ≏ 20'57					
greatest brilliancy	8373 Aug 27 09:31	18° ≏ 46'28	-4.8m	superior conj	8376 Feb 18 03:58	0° ∺ 28'17	
retrograde	8373 Sep 07 09:11	20° Ω 58'54		minimum elong	8376 Feb 17 22:33	0°) 11′20	0°22'07
evening set	8373 Sep 24 01:46	15° ≏ 38'08			8376 Mar 12 18:17	0°Υ	
inferior conj	8373 Sep 28 21:35	12° Ω 40'58		evening rise	8376 Mar 29 02:41	20° Y 30′22	
minimum elong	8373 Sep 28 12:25	12° ♀ 55'20			8376 Apr 05 16:13	0°B	
min. Earth dist.	8373 Sep 28 08:13		0.28964 AU		8376 Apr 29 14:29	$\Pi^{\circ}0$	
morning rise	8373 Oct 02 23:15	10° Ω 10'47		_	8376 May 23 15:38	0°€	
direct	8373 Oct 20 08:11	4° Ω 27'59		asc. node	8376 May 31 18:14	10°503'32	
greatest brilliancy	8373 Oct 30 08:32		-4.7m		8376 Jun 16 22:27	0° N	
	8373 Dec 03 10:46	0°M,	4504615		8376 Jul 11 14:23	0° m)	
morning max el	8373 Dec 08 06:20	4°M33'36	45°46'47		8376 Aug 05 21:05	0° ™	
asc. node	8373 Dec 15 01:03	11°M16'17		1 1	8376 Sep 01 06:52	0°M	
	8374 Jan 01 17:50	0° ₹		desc. node	8376 Sep 20 12:59	20°M23'44	45041120
	8374 Jan 28 03:07	% ප		evening max el	8376 Sep 28 16:01	28°M25'13	45°41'30
	8374 Feb 22 08:05	0° ≈			8376 Sep 30 07:46	0° ∡ 7	4.5
1 1	8374 Mar 18 22:30	0°) (01120		greatest brilliancy	8376 Nov 06 17:09	26° ₹30'36	-4.7m
desc. node	8374 Apr 05 18:21	22°) (01'20		retrograde	8376 Nov 16 08:18	28° 🖈 11'01	
	8374 Apr 12 04:33	0°Υ •••		evening set	8376 Dec 03 14:39	22° x ⁷ 34'14	7010127
	8374 May 06 05:45	8°0		inferior conj	8376 Dec 07 16:43	20°×703'24	
	8374 May 30 04:55	0°Щ		minimum elong	8376 Dec 08 02:06	19° ⊀ 48'40	/~11'43

mm. Imath 8175 Dec 10 1315 1979 May 10 1025 7795825 micer 8376 Dec 12 1316 1724071 ac. node 8379 May 10 1025 2795825 greatest fellinger 8377 Jan 10 11248 1879 Dec 12 1316 1879 Dec 12 1316 1870 Dec 12 1316	min Earth dist	8376 Dec 08 10:27	100.725122	0.20606 ATT		8379 Jun 08 00:15	0°©	
direct S176 No. Po 30 kg 12 Per 2011	min. Earth dist.			0.28090 AU				
geath stillmaney 9379 and 11 24 9 14 9 14 9 14 9 14 9 14 9 14 9 1	•				•			
Month Mont					asc. node			
March Marc	greatest brilliancy			-4.8m				
Mathematical 1977 1972 1976 1976 1976 1970	asc. node	8377 Jan 11 12:48						
SATE MART 14 1421 O'See desc. node 8379 Oct 19 00.9 (0) 09 Call 100 Call 100 Call 00 Call 00 Call 100		8377 Feb 02 08:36	0°ಕ			8379 Aug 19 18:59		
desc. mode 8377 May 21 0.042 0°H desc. mode 8379 No.0 of 17.082 17.292 17.292 18.292 1	morning max el	8377 Feb 17 02:12	13° る 47'19	46°26'42		8379 Sep 13 15:17	0° M ₊	
6es. node 3377 Agy 28 08.18 0°° 1 S77 Say 09 0335 0°B 4 S877 Bac 09 04035 6°B 4 S877 Bac 09 04035 6°B 6°C 6 Control 8377 Bac 10 0640 6°C 6°C </td <td></td> <td>8377 Mar 04 14:21</td> <td>0°≈</td> <td></td> <td></td> <td>8379 Oct 09 00:47</td> <td>0°∡¹</td> <td></td>		8377 Mar 04 14:21	0° ≈			8379 Oct 09 00:47	0° ∡ ¹	
describing 8378 May 19 2.323 0°Y3 589 eventing maxel 8370 Dec 10 0-64 77-8478 4°0229 8377 May 12 2.323 0°Y4 eventing maxel 8370 Dec 10 0-64 77-8478 4°0229 1877 May 17 1415 0°Y4 erclegated millione 8380 Jan 18 20-59 0°Y4 570 4°180 1877 May 17 1415 2°Y4 erclegated 8380 Jan 18 20-59 0°Y4 570 4°180 1880 May 18 20 3377 Aug 24 0022 2°Y48724 erclegated 8380 Feb 10 20-14 4°Y4207 2°2231 1880 Feb 10 20 3377 Aug 24 002 1°Y40175 1°1151 minimum clong 8378 Feb 12 10-14 2°74175 1°1151 1°115		8377 Mar 31 02:42	0° ∀		desc. node	8379 Oct 19 00:21	11° ∡ ³32′22	
1972 1972		8377 Apr 25 08:18	0 \circ Υ			8379 Nov 04 07:58	0°ರ	
1907 1908 1909	desc. node	8377 May 03 06:39	9° Ƴ 35'59			8379 Dec 02 09:42	0° ≈	
March Mar		8377 May 19 23:35	0° ႘		evening max el	8379 Dec 10 06:46	7° ≈ 47'28	46°02'29
morning set 8377 May 20 22 26/08*1 26/0		8377 Jun 13 08:06	$\Pi^{\circ}0$			8380 Jan 05 18:36	0° ₩	
morning set 8377 May 20 22 26/08*1 26/0		8377 Jul 07 14:15	0°9		greatest brilliancy	8380 Jan 18 20:59	6°¥45'29	-4.8m
Section Sect								
ase, node 8377 Aug 24 04184 28°248V24 centing seed of the control	morning set				•			
Part	•							
Standard	asc. node	=			-			202221
Superior con		_						
supprior corion 8377 Sp 2 8 08.21 12° Δ1175 1° 11° 13° M moming in the minimal mode of 3377 Sp 2 90.24 1° Δ40 M 1° 13° M moming in the minimal mode of 3377 Nov 12 18.58 0° M 1° 3° M ON 1 1° 13° M ON 1 20° M ON 1 20° M ON 1 4° M ON 1		83// Sep 18 11:04	0-22		•			
minimum dong M377 Sep 27 23.40 11° Δ4448 19¹ 138 momning rise 8380 Reb 2 0 40.50 27° 84.488 3 18° 80 ft 1 3° 20° 10 4 18° 20° 10<		00000	100011107	1011151	min. Earth dist.			0.27225 AU
max. Earth dist. 8377 Sep 29 00.24 13° Δ0194 1.73250 AU greatest brilliane 8380 Mar 10 04-164 22° ≤48'03 4 more evening rise 8377 Nov 05 03.34 0°2" more morning max el 8380 Mar 20 15-124 0°H 1 morning max el 8380 Mar 20 16-126 0°H 1 morning max el 8380 Mar 20 16-128 25° β4:007 de'59' R desc. node 8377 Nov 06 03:36 0°E - comorning max el 8380 May 30 10-128 25° β4:007 de'59' R desc. node 8378 Nov 16 1612 10°E3 05° 4 - comorning max el 8380 May 30 10-00.08 0°P - comorning max el 8380 May 30 10-00.08 0°P - comorning max el 8380 May 30 10-00.08 0°P - comorning max el 8378 Mar 00 11-24 0°H - comorning max el 8380 May 30 10-00.08 0°H - comorning max el 8378 Mar 01 10-12 0°H - comorning max el 8380 May 30 10-00.08 0°H - comorning max el 8378 Mar 01 10-12 0°H - comorning max el 8380 May 30 10-00.08 0°H - comorning max el 8378 Mar 01 10-12 0°H - comorning max el 8378 Mar 01 10-12 0°H - comorning max el		•						
evening rise 8377 Oct 12 18:58 0°IL greatest brilliancy 8380 Mar 20 15:04 24°8-51'21 4.9m 6827 Nov 30 13:39 0°Z* morning max 8380 May 03 22:03 0°C* 65°91'8 desc. node 8377 Doc 13 21:45 16°Z0254 desc. node 8380 May 03 12:03 0°C* 1 8377 Doc 15 01:28 0°PS 4880 May 03 10:04 20°C* 20°C* 1 8378 Fab 12 06:52 0°PY 4880 May 03 10:04 0°C* 0°C* 0°C* 8378 Fab 12 06:52 0°PY 4880 May 01 12:02 0°C* 0°C* 0°C* 8378 Fab 12 06:52 0°PY 4880 May 01 12:02 0°C* 0°C	•	•	11° ≏ 44'48	1°11'38	Č	8380 Feb 24 04:59	27° ≈ 14'58	
Company Com	max. Earth dist.	8377 Sep 29 00:24	13° ≏ 01'04	1.73250 AU	direct	8380 Mar 10 04:16	22° ≈ 48′03	
March Mar		8377 Oct 12 18:58	0° M.		greatest brilliancy	8380 Mar 20 15:04	24° ≈ 51′21	-4.9m
desc. node	evening rise	8377 Nov 03 17:41	27°ML01'50			8380 Mar 30 16:14	0° ∀	
desc. node 8377 Dec 12 2145 16°₹20′54 desc. node 8380 May 30 18.49 29°°√24′54 C°B 8378 Lan 18 14.57 0°H 8380 May 30 10′708 0°B 1 0°B 0°B 1 0°B 0°B 1 0°B 0°B 0°B 1 0°B 0°B 1 0°B 0°B 1 0°B 0°B 0°B 0°B 0°B <t< td=""><td></td><td>8377 Nov 06 03:36</td><td>0°∡¹</td><td></td><td>morning max el</td><td>8380 Apr 29 17:28</td><td>25°) 43′07</td><td>46°59'18</td></t<>		8377 Nov 06 03:36	0° ∡ ¹		morning max el	8380 Apr 29 17:28	25°) 43′07	46°59'18
8377 Dec 25 01:28 0% 0% 0% 0% 0% 0% 0% 0		8377 Nov 30 13:39	_{0°} ප			8380 May 03 22:03	0 ° Υ	
8377 Dec 25 01:28 0% 0% 0% 0% 0% 0% 0% 0	desc. node	8377 Dec 13 21:45	16° ♂ 20'54		desc. node	8380 May 30 18:49	29° Ƴ 24'54	
Say			0° ≈			•		
8378 Feb 12 06:52 0°P			0° ₩			•		
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asc. node 8378 Apr 30 2 2:101 2°II28°0 0°G asc. node 8380 Cp 20 16:32 14°II45°5 Company (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2			_			•		
evening max el 8378 May 07 04:37 6°\$\$ 8380 Oct 03 03:40 0°\$\$ \$0.00	4	•			1-	•		
evening max el 8378 May 07 04:37 6923107 46'53'58 morning set 8380 Oct 29 1:428 62"L504 1	asc. node	•			asc. node	•	-	
greatest brilliancy 8378 Jun 16 0:117 γ²Ω1017 -4.9m 8380 Nov 20 22:47 0°¾		•		4.50.50150				
greatest brilliancy 8378 Jun 16 01:17 7°Ω1017 4-9m max. Earth dist. 8380 Nov 20 22:47 0°x² 16°x²0955 1.73041 AU retrograde 8378 Jun 12 0 14:12 9°Ω15'01 max. Earth dist. 8380 Dec 04 00:57 16°x²0955 1.73041 AU evening set 8378 Jul 17 15:10 4°Ω45'33 superior conj 8380 Dec 05 11:47 17°x²5'734 1°12'11 minimum elong 8378 Jul 17 0:012 1°Ω4'04 2°13'30 minimum elong 8380 Dec 05 20:31 18°x²2'432 1°214'7 minimum elong 8378 Jul 19 15:32 30°8°6 8381 Jun 80 11:14 0°∞ 1°24'7 desc. node 8378 Jul 26 16:10 26°508'53 evening rise 8381 Jun 10 09:41 2°≈23'53 direct 8378 Aug 17 0:19 25°5005'2 4.8m 8381 Feb 21 15:58 0°¥ greatest brilliancy 8378 Aug 17 0:19 25°5005'2 4.8m 8381 Feb 21 15:58 0°¥ morning max el 8378 Sec 2 12:18 23°202'95 45°5032 8381 Jun 10 09:41 0°% asc. node 8378 Nov 16 15:12	evening max el	•		46°53'58				
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San File	retrograde				max. Earth dist.	8380 Dec 04 00:57	16° ∡ ′09'55	1.73041 AU
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Morning rise 8378 Jul 19 15:32 30°R	minimum elong	8378 Jul 17 20:12	1° Ω 06'47	2°13'50	minimum elong	8380 Dec 05 20:31	18° ≯ ²24'32	1°12'47
morning rise 8378 Jul 23 23:02 27°Φ30'07 desc. node 8381 Jan 10 09:41 2°≈23'53 desc. node desc. node 8378 Aug 07 13:28 23°Φ21'18 cevening rise 8381 Jan 12 09:12 4°≈51'04 desc. node greatest brilliancy 8378 Aug 17 09:19 25°Φ0652 -4.8m 8381 Feb 25 19:41 0°°Y 6°°B 0°H morning max el 8378 Sep 25 12:18 23°Ω29'58 45°50'32 45°50'3	min. Earth dist.	8378 Jul 17 09:00	1° Ω 24'09	0.27622 AU		8380 Dec 15 05:30	0° ප	
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Sample	morning set	8379 Mar 24 19:16	25°) 32′50		evening set	8381 Sep 21 15:00	13° ≏ 33'06	
Sample		8379 Mar 28 08:30	$0^{\circ}\mathbf{\Upsilon}$		min. Earth dist.	8381 Sep 25 23:14	10° ≏ 54'14	0.28930 AU
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8381 Dec 03 10:15 U'IL	max. Earui ülst.	•		1./1230 AU	greatest offillancy			-4 ./111
		63/9 May 15 02:1/	0-Щ			6381 Dec 03 10:15	U-IIL	

morning max el	8381 Dec 05 22:28	2°M 23:52	45°45'50		8384 Aug 05 10:39	0∘ ত	
asc. node	8381 Dec 03 22:28 8381 Dec 14 03:07	10°M32'13	73 73 30		8384 Aug 31 22:56	0° m .	
asc. node	8382 Jan 01 09:42	0° ₹		desc. node	8384 Sep 19 15:02	19°MJ38'48	
	8382 Jan 27 16:35	0°ਤ ਹ ×		evening max el	8384 Sep 26 06:11	26°M10'06	45°41'46
	8382 Feb 21 20:27	0°≈		evening max ci	*	20 IIC10 00 0° 🔏	43 41 40
	8382 Mar 18 10:17	0 ≈ 0° ∺		greatest brilliancy	8384 Sep 30 07:27 8384 Nov 04 08:29	0 x ⁴ 24° x 19'35	-4.7m
desc. node	8382 Apr 04 20:21	21° X 31'53		retrograde	8384 Nov 13 23:19	24 × 1933 26° × 100'08	-4./111
desc. flode	8382 Apr 11 15:59	21 γ (3133		evening set	8384 Dec 01 09:05	20° ₹ 18'56	
	8382 May 05 16:57	0°8		-		20 x ·18 30 17° x 51'50	7924110
	,	0°II		inferior conj	8384 Dec 05 08:39		
	8382 May 29 15:58 8382 Jun 08 19:45	12° Ⅱ 43'01		minimum elong min. Earth dist.	8384 Dec 05 17:43 8384 Dec 06 02:06	17° × ⁷ 37'37	0.28742 AU
morning set	8382 Jun 22 15:23	12 ഥ 4301 0° 9			8384 Dec 00 02:00 8384 Dec 10 02:01	17 x ·24 27 14° x 57'43	0.28/42 AU
		0° U		morning rise			
	8382 Jul 16 16:45	0.95		direct	8384 Dec 26 19:00	9° 🖈 36'02	4.0
	0202 I1 10 00.41	10 (020)22	0921101	greatest brilliancy	8385 Jan 06 20:42	11° 🖈 50'32	-4.8m
superior conj	8382 Jul 18 00:41	1° Ω 39'23		asc. node	8385 Jan 10 14:40	13° ₹ 29'32	
minimum elong	8382 Jul 18 05:38	1° £ 54'46			8385 Feb 02 13:44	0°る	46925100
max. Earth dist.	8382 Jul 21 05:07	5° Ω 37'05	1.72290 AU	morning max el	8385 Feb 14 16:29	11° る 28'25	46°25'00
asc. node	8382 Jul 26 18:03	12° Ω 30′04			8385 Mar 04 07:56	0° ≈	
	8382 Aug 09 20:41	0° m)			8385 Mar 30 17:09	0°) €	
evening rise	8382 Aug 25 04:00	18° m 55'47			8385 Apr 24 21:23	0° Υ	
	8382 Sep 03 03:24	0∘ 亚		desc. node	8385 May 02 08:42	9° Υ 03'21	
	8382 Sep 27 13:28	0°M			8385 May 19 11:54	8°0	
	8382 Oct 22 04:12	0° ∡ 7			8385 Jun 12 19:54	0°II	
desc. node	8382 Nov 15 12:03	29° ₹ 20'19			8385 Jul 07 01:41	0°9	
	8382 Nov 16 01:17	6°0			8385 Jul 31 07:37	0°N	
	8382 Dec 11 06:33	0° ≈		morning set	8385 Aug 19 16:14	23° Ω 55'05	
	8383 Jan 05 23:27	0°) €		asc. node	8385 Aug 23 06:11	28° Ω 20′22	
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evening max el	8383 Feb 21 00:58	20° Y 25'35	46°48'05		8385 Sep 17 21:56	0∘ ⊽	
	8383 Mar 02 23:29	0° 8				_	
asc. node	8383 Mar 08 11:44	4° 8 55'12		superior conj	8385 Sep 26 01:46	10° £ 03'56	1°10'00
greatest brilliancy	8383 Apr 02 13:25	21° 8 14'27	-4.9m	minimum elong	8385 Sep 25 16:48	9° £ 36'17	1°09'46
retrograde	8383 Apr 12 09:33	23° 8 03'56		max. Earth dist.	8385 Sep 26 17:13	10° ≙ 51'31	1.73235 AU
evening set	8383 Apr 30 12:53	16° 8 46'22			8385 Oct 12 05:49	0°M	
inferior conj	8383 May 03 00:43	15° 8 14'43		evening rise	8385 Nov 01 11:09	24°M54'26	
minimum elong	8383 May 03 00:38	15° 8 14'51 15° 8 19'21			8385 Nov 05 14:31	0°⋜	
min. Earth dist.	8383 May 02 21:42	_	0.27119 AU	1 1	8385 Nov 30 00:44		
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morning max el	8383 Jul 12 20:16	9° ∏ 42'56	46°35'41		8386 Apr 03 09:07	0°II	
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asc. node	8383 Oct 18 04:57	0 == 1° £ 13'04		greatest brilliancy	8386 Jun 13 16:58	4° Ω 50'45	-4 9m
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	8383 Dec 06 15:03	0° ∡ 7		evening set	8386 Jul 09 10:01	2° Ω 22'35	
	8383 Dec 30 23:23	°ਤ ਹ°ਤ		evening set	8386 Jul 13 11:05	2 8€ 22 33	
morning set	8384 Jan 07 21:26	9° ろ 48'09		inferior conj	8386 Jul 15 05:18	28°954'55	2°37'34
morning set	8384 Jan 24 04:03	0°≈		minimum elong	8386 Jul 15 11:07	28°945'55	
desc. node	8384 Feb 07 21:42	18°≈20'50		min. Earth dist.	8386 Jul 15 00:06	29° © 02'57	
max. Earth dist.	8384 Feb 12 12:03		1.71919 AU	morning rise	8386 Jul 21 12:36	25°911'25	0.27570 AC
max. Darm Wist.	550T1C0 12 12.05	27 ~07 JZ	1./1/1/ AU	desc. node	8386 Jul 25 18:03	23°910'31	
superior conj	8384 Feb 15 16:57	28°≈04'45	-0°18'50	direct	8386 Aug 05 02:42	21° 5 01'49	
minimum elong	8384 Feb 15 12:23	27°≈50'30		greatest brilliancy	8386 Aug 14 23:46	22°5948'31	-4.8m
mmmum ciong	8384 Feb 17 05:52	27 ≈ 30 30 0° ∺	0 10 30	grounds orinnancy	8386 Aug 28 18:16	0°Ω	7.0111
	8384 Mar 12 05:21	0° Υ		morning max el	8386 Sep 23 02:57	21° Ω 14'20	45°51'41
evening rise	8384 Mar 26 14:09	18° Y 00′53		morning max ci	8386 Oct 01 23:55	0° Mp	TJ J1 71
evening fise	8384 Apr 05 03:22	0° 8			8386 Oct 01 23:33 8386 Oct 30 01:08	0∘ ت بالا	
	8384 Apr 29 01:47	0°II		asc. node	8386 Nov 15 17:08	0 == 18° £ 53'59	
	8384 May 23 03:07	0°©		ase. Houc	8386 Nov 25 06:49	0° M	
asc. node	8384 May 30 20:15	0 so 9°533'52			8386 Dec 20 13:57	0° ⊼ 1	
ase. Houc	8384 Jun 16 10:17	9 3 33 32 0° Ω			8387 Jan 14 07:26	0°ろ	
	8384 Jul 11 02:49	0° m)			8387 Feb 07 16:26	0°≈	
	550 FULL 11 02.79	עויי			555/100 0/ 10.20	0 /0	

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	8387 Mar 03 19:55	0° \		greatest brilliancy	8389 Aug 22 16:21	14° £ 23'37	-4.8m
desc. node	8387 Mar 07 09:59	4°) €28'28		retrograde	8389 Sep 02 18:34	16° £ 37'40	
morning set	8387 Mar 22 06:23	23°) 02'39		evening set	8389 Sep 19 03:54	11° £ 26'31	
morning sec	8387 Mar 27 19:34	0° Υ		min. Earth dist.	8389 Sep 23 14:17		0.28893 AU
	8387 Apr 20 16:46	%8 0°8		inferior conj	8389 Sep 24 05:44	8° ⊆ 20'13	
	6367 Apr 20 10.40	00		minimum elong	8389 Sep 23 20:04	8° £ 35'22	
gumariar agni	9297 May 02 02:19	14° 8 20'10	1927/42	U		s =33 22 5°Ω42'34	0 3237
superior conj	8387 May 02 02:18			morning rise	8389 Sep 28 12:35		
minimum elong	8387 May 02 01:44	14° 8 18'21		direct	8389 Oct 15 16:53	0° ჲ 08'53	4.7
max. Earth dist.	8387 May 02 13:35		1.71234 AU	greatest brilliancy	8389 Oct 25 13:08	1° £ 54'35	-4.7m
	8387 May 14 13:20	0°II			8389 Dec 03 08:56	0°M	45045100
	8387 Jun 07 11:20	0°9		morning max el	8389 Dec 03 13:29	0°M10'58	45°45'03
evening rise	8387 Jun 11 14:36	5°510'20		asc. node	8389 Dec 13 05:02	9°M48'01	
asc. node	8387 Jun 28 08:00	26° © 01'49			8390 Jan 01 01:23	0° ∡	
	8387 Jul 01 12:36	$0 {\circ} \Omega$			8390 Jan 27 05:56	0°ಕ	
	8387 Jul 25 18:31	0° m ∕			8390 Feb 21 08:44	0° ≈	
	8387 Aug 19 06:34	0∘ ಹ			8390 Mar 17 21:59	0° ∀	
	8387 Sep 13 03:25	0°M₊		desc. node	8390 Apr 03 22:22	21°) 02'44	
	8387 Oct 08 13:58	0° ∡ ¹			8390 Apr 11 03:18	0 ° $\mathbf{\Upsilon}$	
desc. node	8387 Oct 18 02:26	10° ∡ 758'42			8390 May 05 04:02	9° 8	
	8387 Nov 03 23:17	0°ප			8390 May 29 02:52	Π $\circ 0$	
	8387 Dec 02 06:27	0° ≈		morning set	8390 Jun 06 08:32	10° Ⅱ 18'53	
evening max el	8387 Dec 07 21:48	5° ≈ 32'09	46°01'14		8390 Jun 22 02:10	0 \circ \odot	
	8388 Jan 07 02:10	0° ∀					
greatest brilliancy	8388 Jan 16 10:06	4° ℋ 24'00	-4.8m	superior conj	8390 Jul 15 14:54	29° © 20'58	-0°24'30
retrograde	8388 Jan 26 04:19	6° ₩ 09'38		minimum elong	8390 Jul 15 20:38	29° © 38'46	0°24'24
asc. node	8388 Feb 08 02:17	2° 升 50′17			8390 Jul 16 03:27	$\mathfrak{O}^{\circ} \mathfrak{O}$	
evening set	8388 Feb 09 15:02	2°) €03'09		max. Earth dist.	8390 Jul 18 23:04	3° Ω 30′19	1.72247 AU
	8388 Feb 13 05:31	30°R ≈		asc. node	8390 Jul 25 20:01	12° Ω 02'59	
inferior conj	8388 Feb 15 22:37	28° ≈ 20'53	1°59'42		8390 Aug 09 07:22	o° mp	
minimum elong	8388 Feb 15 18:05	28° ≈ 27'51	1°58'23	evening rise	8390 Aug 22 20:32	16° Mp 45'28	
min. Earth dist.	8388 Feb 16 04:32	28°≈11'48	0.27253 AU	•	8390 Sep 02 14:08	0∘ ⊽	
morning rise	8388 Feb 21 20:42	24°≈50'35			8390 Sep 27 00:23	0°M,	
direct	8388 Mar 07 18:53	20° ≈ 25'54			8390 Oct 21 15:27	0° ⊼	
greatest brilliancy	8388 Mar 18 05:37	22° ≈ 29'36	-4.9m	desc. node	8390 Nov 14 13:57	28° ₹ ′50'40	
· ·	8388 Mar 31 19:15	0°) €			8390 Nov 15 13:07	8°0	
morning max el	8388 Apr 27 08:31	23° ¥ 23'31	46°58'55		8390 Dec 10 19:19	0° ≈	
5 5	8388 May 03 18:44	$0^{\circ}\Upsilon$			8391 Jan 05 13:51	0°) €	
desc. node	8388 May 29 20:48	28° Ƴ 45'37			8391 Feb 01 08:39	0°Υ	
	8388 May 30 22:46	0°8		evening max el	8391 Feb 18 14:10	18° Y 01'15	46°46'45
	8388 Jun 25 13:58	0°II			8391 Mar 03 04:24	0°8	
	8388 Jul 20 14:43	0°ಅ		asc. node	8391 Mar 07 13:50	3° 8 49'05	
	8388 Aug 14 09:31	0°N		greatest brilliancy	8391 Mar 31 03:08	18° 8 49'35	-4.9m
	8388 Sep 08 01:22	0° m)		retrograde	8391 Apr 09 22:05	20° 8 38'04	1.9111
asc. node	8388 Sep 19 18:38	14° m) 18'09		evening set	8391 Apr 28 00:30	14° 8 23'09	
use. Houe	8388 Oct 02 14:41	0∘ ರ		inferior conj	8391 Apr 30 13:38	12° 8 49'27	9°11'58
	8388 Oct 27 01:17	0° ™		minimum elong	8391 Apr 30 12:32	12° 8 51'08	9°11'50
morning set	8388 Oct 27 15:11	0°M42'45		min. Earth dist.	8391 Apr 30 10:30		0.27105 AU
morning set	8388 Nov 20 09:32	0°×7		morning rise	8391 May 03 00:36	11° 8 19'07	0.27103710
max. Earth dist.	8388 Dec 01 20:31	14° ∡ 108'48	1.73064 AU	direct	8391 May 21 05:12	5° 8 02'39	
man. Durin dist.	5500 Dec 01 20.51	1. 7 00 70	1.7500T AU	greatest brilliancy	8391 May 30 17:35	6° 8 45'09	-4 9m
superior conj	8388 Dec 03 04:31	15° ∡ 747'39	1014'34	desc. node	8391 Jun 27 08:26	25° 8 02'28	-4.9111
minimum elong	8388 Dec 03 04:51	16° 🗷 13'26		desc. node	8391 Jul 02 19:14	0°II	
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daga mada					8391 Aug 01 00:18	0°Ω	
desc. node	8389 Jan 09 11:35	1°≈55'56			8391 Aug 27 16:38		
evening rise	8389 Jan 10 00:10	2°≈34'53			8391 Sep 22 10:36	0° m 0° °	
	8389 Feb 01 03:03	0° ∀		1	8391 Oct 17 16:09	0° ₽	
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	8389 Apr 14 18:06	0°II			8391 Dec 06 01:54	0° ∡ 7	
asc. node	8389 May 02 10:34	21° II 35'54			8391 Dec 30 10:06	0°る	
	8389 May 09 09:17	0°©		morning set	8392 Jan 05 12:55	7° る 34'20	
	8389 Jun 03 16:42	0° N			8392 Jan 23 14:42	0° ≈	
	8389 Jun 30 09:47	0° m)		desc. node	8392 Feb 06 23:43	17°≈53'47	
evening max el	8389 Jul 15 03:36	15° m 15'44	46°13'10	max. Earth dist.	8392 Feb 10 00:36	21° ≈ 41′01	1.71965 AU
	8389 Jul 31 04:51	0∘ ⊽					
desc. node	8389 Aug 22 05:43	14° ≙ 13'14		superior conj	8392 Feb 13 05:48	25° ≈ 41'46	-0°15'08

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Section Se	direct	8392 Dec 24 10:30	7° ∡ ¹24'05		asc. node	8395 Jun 27 10:00	25° © 34'34	
moming max el 8393 Feb 12 0734 9°B 21222 46'23'27 8395 Sep 12 15:10 0°B 1 CP 8393 Mar 30 0706 0°PA 46'23'27 8395 Sep 12 15:10 0°TM 1 CP 8393 Mar 30 0706 0°PA 46'23'27 8395 Cep 13 06'27 0°PA 1 CP 8893 Mar 30 0706 0°PA 8395 Nor 03 14'22 0°PC 8395 Nor 03 14'22 0°PC 8893 Mar 12 07:17 10'35 8°P3'13'5 8395 Nor 03 14'22 0°PC 8395 Nor 03 14'22 0°PC 8393 Mar 12 07:17 0°PL 8395 Nor 03 14'22 0°PC 8396 Nor 03 14'22 0°PC 48'8'9'4'8' 48'8'9'4'8' 48'8'9'4'8' 48'8'9'4'8' 48'8'9'4'8' 48'8'9'4'8' 48'8'9'4'8' 48'8'9'4'8' 48'8'9'4'8' 48'8'9'4'8' 48'8'9'4'8' 48'8'9'4'8' 48'8'9'4'8'8' 48'8'9'4'8'8'8'8'8'8'8'8'8'8'8'8'8'8'8'8	greatest brilliancy	8393 Jan 04 13:02	9° ∡ ³38'59	-4.8m		8395 Jun 30 23:24	$0 { m ^o} \Omega$	
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Say 1		8393 May 18 23:46	$B_{\circ 0}$		evening max el	8395 Dec 05 13:09	3° ≈ 18'53	45°59'46
morning set 8393 Jul 30 18:21 0°\$\(\) retrograde 8396 Jan 23 17:48 3°\$\(\) \(\) \(\) \(\) sac. node 8393 Aug 24 00:59 27°\$\(\) \(\) \(\) \(\) sac. node 8396 Feb 07 04:24 29°\$\(\) \(\) \(\)		8393 Jun 12 07:17	$\Pi^{\circ}0$			8396 Jan 09 00:06	0° ∀	
Marching set Ma		8393 Jul 06 12:41	0ಂತಾ		greatest brilliancy	8396 Jan 13 23:19	2° ∺ 03'34	-4.8m
Says Aug 2 08.16 27° \$\(\alpha\) 5415 08.21 09° \$\(\alpha\) 1 1960 1		8393 Jul 30 18:21	$0^{\circ}\Omega$		-	8396 Jan 23 17:48	3°) 48'47	
Says Aug 2 08.16 27° \$\(\alpha\) 5415 08.21 09° \$\(\alpha\) 1 1960 1	morning set	8393 Aug 17 08:19			C	8396 Feb 06 15:11		
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Say		•			•	8396 Feb 07 04:23	29° ≈ 42'37	
Superior conj Say3 Sep 23 19:19 7°\$\(\one{a}\)5800 1°8503 1°		-			inferior conj			1°36'39
Superior conj Say3 Sep 23 19:19 7° Δ58'00 1°08'03 min. Earth dist. 8396 Feb 13 18:45 25° ×49'26 0,27288 AU minimum elong 8393 Sep 23 10:09 7° Δ29'41 1°07'48 morning rise 8396 Feb 19 12:04 22°×26'39 max. Earth dist. 8393 Sep 24 11:59 8° Δ49'21 1.73222 AU direct 8396 Mar 05 09:26 18°×04'12 evening rise 8393 Oct 30 04:47 22° M.48'45 Say3 Nov 05 01:02 0° ×7 morning max el 8396 Apr 01 14:51 0° \(\frac{1}{2}\) \ (3393 Nov 05 01:02 0° ×7 morning max el 8396 Apr 01 14:51 0° \(\frac{1}{2}\) \ (3393 Nov 05 01:02 0° ×7 morning max el 8396 Apr 01 14:51 0° \(\frac{1}{2}\) \ (3933 Nov 05 01:02 0° ×7 morning max el 8396 Apr 03 14:36 0° \(\frac{1}{2}\) \ (3933 Nov 05 01:02 0° ×7 morning max el 8396 May 03 14:36 0° \(\frac{1}{2}\) \ (3933 Nov 05 01:02 0° ×7 morning max el 8396 May 03 14:36 0° \(\frac{1}{2}\) \ (3933 Nov 05 01:02 0° ×7 morning max el 8396 May 03 14:36 0° \(\frac{1}{2}\) \ (3933 Nov 05 01:02 0° ×7 morning max el 8396 May 03 14:36 0° \(\frac{1}{2}\) \ (3945 May 03 13:58 0° \(\frac{1}{2}\) \ (3945 May 10 17 14:24 0° \(\frac{1}{2}\)		1			3			
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8394 Apr 30 14:16 0° □ 8394 Apr 30 14:16 0° □ 8396 Oct 02 01:22 0° □ evening max el 8394 May 02 07:30 1° □ 44'31 46°55'42 morning set 8396 Oct 25 08:42 28° □ 36'46 8396 Oct 26 11:46 0° □ 8396 Oct 26 11:46 0° □ 8396 Nov 19 19:57 0° № 1 10 10 10 10 10 10 10 10 10 10 10 10 1	asc node	•			asa node	-		
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8394 Jun 05 19:01 0° € 8396 Nov 19 19:57 0° ₹ 17:00 Nov 19:00 Nov	avanina may al	•		16055112	morning set			
greatest brilliancy 8394 Jun 11 08:04 2°Ω31'38 -4.9m 8396 Nov 19 19:57 0°水 12°№ 10°№ 10°№ 10°№ 10°№ 10°№ 10°№ 10°№ 10	evening max ei	•		+U JJ 44	morning set			
retrograde 8394 Jun 21 19:29 4°\$\Omega\$35'38 max. Earth dist. 8396 Nov 29 15:17 12°\$\stractions{7}06'19 1.73085 AU evening set 8394 Jul 07 02:17 0°\$\Omega\$00'20 superior conj 8396 Nov 30 21:41 13°\$\tilde{7}0'13 1°16'09 inferior conj 8394 Jul 12 19:19 26°\$\sigma\$36'04 2°59'23 minimum elong 8396 Dec 01 05:37 14°\$\tilde{7}04'42 1°16'09 minimum elong 8394 Jul 13 01:53 26°\$\sigma\$25'57 2°57'14 8396 Dec 14 02:46 0°\$\tilde{5}\$ min. Earth dist. 8394 Jul 12 14:47 26°\$\sigma\$43'05 0.27558 AU 8397 Jan 07 08:46 0°\$\tilde{5}\$	araataat brillianay			4.0				
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morning rise 8394 Jul 19 U1:52 22:304 U1 evening rise 839/ Jan U/ 15:2/ U*≈2U42				0.27338 AU	arraniai			
	morning rise	6394 Jul 19 01:52	22″2034'01		evening rise	639/Jan U/ 15:2/	0°≈20'42	

daga mada	8397 Jan 08 13:39	1° ≈ 29'24			8399 Jul 31 17:24	0°9	
desc. node							
	8397 Jan 31 13:52	0°) €			8399 Aug 27 06:41	$\Omega^{\circ}\Omega$	
	8397 Feb 24 18:03	0° Υ			8399 Sep 21 23:08	0° Т р	
	8397 Mar 20 22:28	0°8		asc. node	8399 Oct 17 08:46	0° £ 14'53	
_	8397 Apr 14 06:05	0°II			8399 Oct 17 03:48	0∘ ত	
asc. node	8397 May 01 12:26	21° ∏ 03'42			8399 Nov 10 23:44	0°M	
	8397 May 08 22:04	0°€			8399 Dec 05 12:47	0° ∡ ″	
	8397 Jun 03 06:59	$0^{\circ}\Omega$			8399 Dec 29 20:51	0° る	
	8397 Jun 30 03:36	0° ™		morning set	8400 Jan 03 04:43	5° る 21'20	
evening max el	8397 Jul 12 19:25	13°M/02'33	46°14'46		8400 Jan 23 01:26	0° ≈	
	8397 Jul 31 13:30	0∘ ⊽		desc. node	8400 Feb 06 01:42	17° ≈ 26′30	
greatest brilliancy	8397 Aug 20 08:41	12° ≏ 13'13	-4.8m	max. Earth dist.	8400 Feb 07 15:39	19° ≈ 24'44	1.72008 AU
desc. node	8397 Aug 21 07:43	12° ≏ 34'30					
retrograde	8397 Aug 31 10:33	14° ≙ 26'54		superior conj	8400 Feb 10 19:08	23° ≈ 20′05	-0°11'29
evening set	8397 Sep 16 17:01	9° ჲ 20'42		minimum elong	8400 Feb 10 16:21	23° ≈ 11′24	0°11'13
min. Earth dist.	8397 Sep 21 05:50	6° ≙ 34'58	0.28851 AU	behind sun begin	8400 Feb 09 22:14	22° ≈ 14'56	
inferior conj	8397 Sep 21 21:45	6° £ 09'59	-6°42'08	behind sun end	8400 Feb 11 10:27	24° ≈ 07'53	
minimum elong	8397 Sep 21 11:54	6° £ 25'27	6°40'16		8400 Feb 16 03:19	0° ∀	
morning rise	8397 Sep 26 07:11	3° £ 28'23			8400 Mar 11 02:58	$0^{\circ}\mathbf{\Upsilon}$	
	8397 Oct 03 06:06	30°R, Mp		evening rise	8400 Mar 21 13:54	13° Y 06′13	
direct	8397 Oct 13 08:43	27° m 59'33			8400 Apr 04 01:14	8°	
greatest brilliancy	8397 Oct 23 03:48	29° m 43'57	-4.7m		8400 Apr 27 23:55	$\Pi^{\circ}0$	
	8397 Oct 23 22:01	0∘ ⊽			8400 May 22 01:40	0°ಅ	
morning max el	8397 Dec 01 03:54	27° £ 57'21	45°44'26	asc. node	8400 May 29 00:09	8° © 35'34	
C	8397 Dec 03 06:25	0°M			8400 Jun 15 09:31	$0^{\circ}\Omega$	
asc. node	8397 Dec 12 07:00	9°M05'21			8400 Jul 10 03:18	0° m	
	8397 Dec 31 16:34	0° ∡ 7			8400 Aug 04 13:35	0∘ ⊽	
	8398 Jan 26 18:57	0° ට			8400 Aug 31 07:20	0°M	
	8398 Feb 20 20:46	0° ≈		desc. node	8400 Sep 17 18:58	18°M07'52	
	8398 Mar 17 09:29	0° ∀		evening max el	8400 Sep 21 10:41	21°M41'40	45°42'26
desc. node	8398 Apr 03 00:13	20°) 33′28		evening max or	8400 Sep 30 09:58	0°×71	13 12 20
desc. node	8398 Apr 10 14:31	0°Υ		greatest brilliancy	8400 Oct 30 13:21	19° х 56'20	-4.7m
	8398 May 04 15:04	0°8		retrograde	8400 Nov 09 06:19	21° × 30'20	4.7III
	8398 May 28 13:47	0°II		evening set	8400 Nov 26 21:25	15°×748'53	
morning set	8398 Jun 03 20:44	7° ∏ 52'48		inferior conj	8400 Nov 30 16:18	13°× 70°33	-7°13'28
morning set	8398 Jun 21 12:58	0°95		minimum elong	8400 Dec 01 00:32	13° 🖈 16'09	7°42'12
	6596 Juli 21 12.36	0 39		min. Earth dist.	8400 Dec 01 00:32 8400 Dec 01 08:33	13° х 1009 13° х 03'37	0.28837 AU
gumariar agni	8398 Jul 13 04:40	27° © 01'07	0020100		8400 Dec 01 08:33 8400 Dec 05 03:22	13 x 103 37 10° x 144′25	0.28837 AU
superior conj minimum elong	8398 Jul 13 04.40 8398 Jul 13 11:09	27° 5 01'07 27° 5 21'19		morning rise direct	8400 Dec 03 03:22 8400 Dec 22 02:35	5° ₹ 11'55	
minimum clong	8398 Jul 15 11:09 8398 Jul 15 14:09	0°Ω	0 27 32		8400 Dec 22 02:33 8401 Jan 02 05:02	7° ∡ 11 55	4 9m
may Earth dist		0 3ℓ 1°Ω15'56	1.72196 AU	greatest brilliancy		10° ₹ 34'33	-4.8m
max. Earth dist.	8398 Jul 16 14:33 8398 Jul 24 22:02		1.72190 AU	asc. node	8401 Jan 08 18:45		
asc. node		11° Ω 36′04			8401 Feb 02 18:30	0°る	46021155
	8398 Aug 08 18:01	0°Mp		morning max el	8401 Feb 09 23:43	6°₹58'43	40°21'33
evening rise	8398 Aug 20 12:43	14° m 34'14			8401 Mar 03 17:33	0° ≫	
	8398 Sep 02 00:50	0∘ 亚			8401 Mar 29 21:04		
	8398 Sep 26 11:16	0°M			8401 Apr 23 22:41	0°Υ 7° 0 50142	
	8398 Oct 21 02:41	0° ⊀ 7		desc. node	8401 Apr 30 12:33	7° Υ 59'42	
desc. node	8398 Nov 13 15:54	28° ₹ 21'19			8401 May 18 11:45	8°0	
	8398 Nov 15 00:54	% ප			8401 Jun 11 18:48	0° I I	
	8398 Dec 10 08:03	0° ≈			8401 Jul 05 23:54	0°9	
	8399 Jan 05 04:18	0°) €			8401 Jul 30 05:21	0°N	
	8399 Feb 01 02:44	0° Υ	16045100	morning set	8401 Aug 15 00:06	19° Ω 30'40	
evening max el	8399 Feb 16 02:37	15° Y 35'33	46°45'20	asc. node	8401 Aug 21 10:08	27° Ω 26'31	
_	8399 Mar 03 11:18	0° 8			8401 Aug 23 11:50	0° m	
asc. node	8399 Mar 06 15:42	2° 8 41'00			8401 Sep 16 19:06	0∘ ত	
greatest brilliancy	8399 Mar 28 16:41	16° 8 24'35	-4.9m				
retrograde	8399 Apr 07 10:25	18° 8 12'19		superior conj	8401 Sep 21 12:26	5° Ω 49'37	1°06'00
evening set	8399 Apr 25 11:22	12° 8 00'41	00400:-	minimum elong	8401 Sep 21 03:05	5° £ 20'46	1°05'42
inferior conj	8399 Apr 28 02:30	10° 8 24'01	9°10'19	max. Earth dist.	8401 Sep 22 07:22	6° £ 48'00	1.73207 AU
minimum elong	8399 Apr 28 00:24	10° 8 27'17	9°10'09		8401 Oct 11 02:58	0°M	
min. Earth dist.	8399 Apr 27 23:26	10° 8 28'46	0.27101 AU	evening rise	8401 Oct 27 22:07	20°M41'19	
morning rise	8399 Apr 30 13:26	8° 8 53'41			8401 Nov 04 11:51	0° ∡ ″	
direct	8399 May 18 17:22	2° 8 36'55			8401 Nov 28 22:30	0°రె	
greatest brilliancy	8399 May 28 07:05	4° 8 20'12	-4.9m	desc. node	8401 Dec 11 03:41	14° る 56'55	
desc. node	8399 Jun 26 10:32	24° 8 00'33			8401 Dec 23 11:20	0° ≈	
	8399 Jul 02 21:15	Π °0			8402 Jan 17 02:19	0°) €	
morning max el	8399 Jul 07 21:04	4° Ⅱ 52'25	46°38'51		8402 Feb 10 20:23	0 ° $\mathbf{\Upsilon}$	

	040234 07 21 22	٠.٠			0404 4 12 00 44	00.0	
	8402 Mar 07 21:33	0.8			8404 Aug 13 08:44	0° N	
	8402 Apr 02 16:44	0°II			8404 Sep 06 23:40	0° m	
asc. node	8402 Apr 03 02:58	0°Ⅱ29'00		asc. node	8404 Sep 17 22:25	13° m 22'35	
evening max el	8402 Apr 29 22:21	29° Ⅱ 24'50	46°56'33		8404 Oct 01 12:22	0∘ ⊽	
	8402 Apr 30 12:20	0 \circ		morning set	8404 Oct 23 02:03	26° ≏ 29'11	
	8402 Jun 08 10:40	$0 {\circ} \Omega$			8404 Oct 25 22:37	0° M	
greatest brilliancy	8402 Jun 08 22:51	0° Ω 11'41	-4.9m		8404 Nov 19 06:46	0° ∡ 7	
retrograde	8402 Jun 19 10:35	2° Ω 15'45		max. Earth dist.	8404 Nov 27 07:38	9° ∡ ¹55'14	1.73108 AU
	8402 Jun 29 23:11	30° ℝ ∽					
evening set	8402 Jul 04 18:46	27°537'21		superior conj	8404 Nov 28 14:43	11° ∡ ³31'10	1°17'38
inferior conj	8402 Jul 10 09:23	24°9516'27	3°20'54	minimum elong	8404 Nov 28 22:11	11° ∡ 54'14	1°17'39
minimum elong	8402 Jul 10 16:38	24° © 05'17	3°18'35	C	8404 Dec 13 13:39	8°0	
min. Earth dist.	8402 Jul 10 05:12	24°9522'54	0.27530 AU	evening rise	8405 Jan 05 06:29	28° る 04'41	
morning rise	8402 Jul 16 14:58	20°936'09	0.27030110	e, emily 115e	8405 Jan 06 19:46	0°≈	
desc. node	8402 Jul 23 22:06	17°529'30		desc. node	8405 Jan 07 15:35	1°≈01'20	
direct	8402 Jul 31 06:27	16°923'58		dese. Hode	8405 Jan 31 01:02	0° ∀	
greatest brilliancy	8402 Aug 10 02:57	18°911'13	-4.8m		8405 Feb 24 05:29	0°Υ	
greatest brilliancy			-4.0111				
	8402 Aug 30 06:16	0°N	45054100		8405 Mar 20 10:15	0° B	
morning max el	8402 Sep 18 10:13	16° Ω 49'29	45°54'00		8405 Apr 13 18:25	0°II	
	8402 Oct 01 14:18	0° m)		asc. node	8405 Apr 30 14:29	20° ∏ 30′58	
	8402 Oct 29 06:19	0∘ ಹ			8405 May 08 11:15	0₀ ©	
asc. node	8402 Nov 13 21:06	17° ≏ 48'59			8405 Jun 02 21:46	0 ° Ω	
	8402 Nov 24 08:13	0° M .			8405 Jun 29 22:13	0° m y	
	8402 Dec 19 13:29	0° ∡ ¹		evening max el	8405 Jul 10 10:27	10° Mp 46′22	46°16'23
	8403 Jan 13 06:02	0°ರ			8405 Aug 01 01:43	0∘ ত	
	8403 Feb 06 14:34	0° ≈		greatest brilliancy	8405 Aug 18 01:12	10° ♀ 02'06	-4.8m
	8403 Mar 02 17:50	0° ∀		desc. node	8405 Aug 20 09:36	10° ≏ 51'17	
desc. node	8403 Mar 05 13:48	3° ¥ 32'07		retrograde	8405 Aug 29 02:18	12° ≏ 15'26	
morning set	8403 Mar 17 04:23	18° ¥ 02'44		evening set	8405 Sep 14 06:11	7° £ 13'53	
8	8403 Mar 26 17:21	0° Ƴ		min. Earth dist.	8405 Sep 18 21:44	4° £ 24'21	0.28809 AU
	8403 Apr 19 14:29	0°8		inferior conj	8405 Sep 19 13:47	3° ₽ 59'08	
	0 105 71pr 15 11.25	° O		minimum elong	8405 Sep 19 03:50	4° Ω 14'46	
superior conj	8403 Apr 27 00:11	9° 8 18'48	1°27'11	morning rise	8405 Sep 24 01:49	1° £ 13'31	0 2/1/
minimum elong	•	9° 8 10'09		morning rise	•		
C	8403 Apr 26 21:26	.T.		Ji 4	8405 Sep 26 06:09	30°RM) 35°M 40124	
max. Earth dist.	8403 Apr 27 07:18	9° 8 41'10	1.71220 AU	direct	8405 Oct 11 00:00	25° m 49'24	4.7
	8403 May 13 11:00	0°II		greatest brilliancy	8405 Oct 20 19:06	27° m 33'15	-4.7m
	8403 Jun 06 09:03	0°€			8405 Oct 26 14:21	0∘ ⊽	
evening rise	8403 Jun 06 13:52	0°915'04		morning max el	8405 Nov 28 17:58	25° ≏ 41'57	45°43'45
asc. node	8403 Jun 26 12:01	25°906'26			8405 Dec 03 03:29	0°M₊	
	8403 Jun 30 10:28	$0 {\circ} \Omega$		asc. node	8405 Dec 11 09:03	8°M22'33	
	8403 Jul 24 16:41	0° m y			8405 Dec 31 07:54	0° ∡ ¹	
	8403 Aug 18 05:20	0∘ 亚			8406 Jan 26 08:14	o°ප	
	8403 Sep 12 03:21	0° M			8406 Feb 20 09:05	0° ≈	
	8403 Oct 07 16:09	0° ∡ ¹			8406 Mar 16 21:16	0°) €	
desc. node	8403 Oct 16 06:18	9° ∡ 751'28		desc. node	8406 Apr 02 02:15	20°) €03'57	
	8403 Nov 03 06:11	0°ಕ			8406 Apr 10 01:57	$0^{\circ}\Upsilon$	
	8403 Dec 02 01:48	0° ≈			8406 May 04 02:19	0° ႘	
evening max el	8403 Dec 03 04:15	1° ≈ 03'52	45°58'25		8406 May 28 00:54	0° Ⅱ	
greatest brilliancy							
8	8404 Jan 11 13:1/	29° ≈ 43°10	-4.8m	morning set	•	5° Ⅱ 25′18	
	8404 Jan 11 13:17 8404 Jan 12 09:38	29° ≈ 43'16 0° ₩	-4.8m	morning set	8406 Jun 01 08:43	5°∏25'18 0°≌	
retrograde	8404 Jan 12 09:38	0° ∀	-4.8m	morning set	•	5°∏25'18 0°©	
retrograde	8404 Jan 12 09:38 8404 Jan 21 06:56	0° \ 1° \ 27'20	-4.8m	ū	8406 Jun 01 08:43 8406 Jun 20 23:58	0°©	0°31'28
-	8404 Jan 12 09:38 8404 Jan 21 06:56 8404 Jan 29 19:13	0°) 1°) 27′20 30°R≈	-4.8m	superior conj	8406 Jun 01 08:43 8406 Jun 20 23:58 8406 Jul 10 18:22	0°5 24°540'18	
evening set	8404 Jan 12 09:38 8404 Jan 21 06:56 8404 Jan 29 19:13 8404 Feb 04 18:09	0° 	-4.8m	superior conj minimum elong	8406 Jun 01 08:43 8406 Jun 20 23:58 8406 Jul 10 18:22 8406 Jul 11 01:35	0°5 24°540'18 25°502'45	0°31'18
evening set asc. node	8404 Jan 12 09:38 8404 Jan 21 06:56 8404 Jan 29 19:13 8404 Feb 04 18:09 8404 Feb 06 06:15	0°\t 1°\t27'20 30°\ex 27°≈21'16 26°≈31'29		superior conj	8406 Jun 01 08:43 8406 Jun 20 23:58 8406 Jul 10 18:22 8406 Jul 11 01:35 8406 Jul 14 03:23	0°\$ 24°\$40'18 25°\$02'45 28°\$52'30	
evening set asc. node inferior conj	8404 Jan 12 09:38 8404 Jan 21 06:56 8404 Jan 29 19:13 8404 Feb 04 18:09 8404 Feb 06 06:15 8404 Feb 11 01:48	0° H 1° H 27'20 30° R≈ 27° ≈ 21'16 26° ≈ 31'29 23° ≈ 38'02	1°13'40	superior conj minimum elong max. Earth dist.	8406 Jun 01 08:43 8406 Jun 20 23:58 8406 Jul 10 18:22 8406 Jul 11 01:35 8406 Jul 14 03:23 8406 Jul 15 01:04	0°© 24°©40'18 25°©02'45 28°©52'30 0°\$\Omega\$	0°31'18
evening set asc. node inferior conj minimum elong	8404 Jan 12 09:38 8404 Jan 21 06:56 8404 Jan 29 19:13 8404 Feb 04 18:09 8404 Feb 06 06:15 8404 Feb 11 01:48 8404 Feb 10 22:59	0° \ 1° \ \ 27'20 30° \ 8≈ 27° ≈ 21'16 26° ≈ 31'29 23° ≈ 38'02 23° ≈ 42'23	1°13'40 1°12'52	superior conj minimum elong	8406 Jun 01 08:43 8406 Jun 20 23:58 8406 Jul 10 18:22 8406 Jul 11 01:35 8406 Jul 14 03:23 8406 Jul 15 01:04 8406 Jul 23 23:55	0°5 24°540'18 25°502'45 28°552'30 0°\$ 11°\$\O8'01	0°31'18
evening set asc. node inferior conj minimum elong min. Earth dist.	8404 Jan 12 09:38 8404 Jan 21 06:56 8404 Jan 29 19:13 8404 Feb 04 18:09 8404 Feb 06 06:15 8404 Feb 11 01:48 8404 Feb 10 22:59 8404 Feb 11 09:26	0° H 1° H 27′20 30° R≈ 27°≈21′16 26°≈31′29 23°≈38′02 23°≈42′23 23°≈42′16	1°13'40	superior conj minimum elong max. Earth dist. asc. node	8406 Jun 01 08:43 8406 Jun 20 23:58 8406 Jul 10 18:22 8406 Jul 11 01:35 8406 Jul 14 03:23 8406 Jul 15 01:04 8406 Jul 23 23:55 8406 Aug 08 04:54	0°\$ 24°\$40'18 25°\$02'45 28°\$52'30 0°\$\alpha\$ 11°\$\alpha\$08'01 0°\$\text{m}\$	0°31'18
evening set asc. node inferior conj minimum elong min. Earth dist. morning rise	8404 Jan 12 09:38 8404 Jan 21 06:56 8404 Jan 29 19:13 8404 Feb 04 18:09 8404 Feb 06 06:15 8404 Feb 11 01:48 8404 Feb 10 22:59 8404 Feb 11 09:26 8404 Feb 17 03:22	0° H 1° H 27′20 30° R≈ 27°≈21′16 26°≈31′29 23°≈38′02 23°≈42′23 23°≈26′16 20°≈02′23	1°13'40 1°12'52	superior conj minimum elong max. Earth dist.	8406 Jun 01 08:43 8406 Jun 20 23:58 8406 Jul 10 18:22 8406 Jul 11 01:35 8406 Jul 14 03:23 8406 Jul 15 01:04 8406 Jul 23 23:55 8406 Aug 08 04:54 8406 Aug 18 04:50	0°\$ 24°\$40'18 25°\$02'45 28°\$52'30 0°\$\Omega\$ 11°\$\Omega\$08'01 0°\$\mathrm{n}\$ 12°\$\mathrm{n}\$22'04	0°31'18
evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct	8404 Jan 12 09:38 8404 Jan 21 06:56 8404 Jan 29 19:13 8404 Feb 04 18:09 8404 Feb 06 06:15 8404 Feb 11 01:48 8404 Feb 10 22:59 8404 Feb 11 09:26	0° H 1° H 27′20 30° R≈ 27°≈21′16 26°≈31′29 23°≈38′02 23°≈42′23 23°≈42′16	1°13'40 1°12'52	superior conj minimum elong max. Earth dist. asc. node	8406 Jun 01 08:43 8406 Jun 20 23:58 8406 Jul 10 18:22 8406 Jul 11 01:35 8406 Jul 14 03:23 8406 Jul 15 01:04 8406 Jul 23 23:55 8406 Aug 08 04:54 8406 Aug 18 04:50 8406 Sep 01 11:46	0°© 24°©40'18 25°©02'45 28°©52'30 0°N 11°N08'01 0°M 12°M22'04 0°Ω	0°31'18
evening set asc. node inferior conj minimum elong min. Earth dist. morning rise	8404 Jan 12 09:38 8404 Jan 21 06:56 8404 Jan 29 19:13 8404 Feb 04 18:09 8404 Feb 06 06:15 8404 Feb 11 01:48 8404 Feb 10 22:59 8404 Feb 11 09:26 8404 Feb 17 03:22	0° H 1° H 27′20 30° R≈ 27°≈21′16 26°≈31′29 23°≈38′02 23°≈42′23 23°≈26′16 20°≈02′23	1°13'40 1°12'52	superior conj minimum elong max. Earth dist. asc. node	8406 Jun 01 08:43 8406 Jun 20 23:58 8406 Jul 10 18:22 8406 Jul 11 01:35 8406 Jul 14 03:23 8406 Jul 15 01:04 8406 Jul 23 23:55 8406 Aug 08 04:54 8406 Aug 18 04:50	0°5 24°540'18 25°502'45 28°552'30 0°N 11°N08'01 0°M 12°M22'04 0°£ 0°M	0°31'18
evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct	8404 Jan 12 09:38 8404 Jan 21 06:56 8404 Jan 29 19:13 8404 Feb 04 18:09 8404 Feb 11 01:48 8404 Feb 10 22:59 8404 Feb 11 09:26 8404 Feb 17 03:22 8404 Mar 02 23:44	0° H 1° H 27′20 30° R≈ 27°≈21′16 26°≈31′29 23°≈38′02 23°≈42′23 23°≈26′16 20°≈02′23 15°≈42′08	1°13'40 1°12'52 0.27322 AU	superior conj minimum elong max. Earth dist. asc. node	8406 Jun 01 08:43 8406 Jun 20 23:58 8406 Jul 10 18:22 8406 Jul 11 01:35 8406 Jul 14 03:23 8406 Jul 15 01:04 8406 Jul 23 23:55 8406 Aug 08 04:54 8406 Aug 18 04:50 8406 Sep 01 11:46	0°© 24°©40'18 25°©02'45 28°©52'30 0°N 11°N08'01 0°M 12°M22'04 0°Ω	0°31'18
evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct	8404 Jan 12 09:38 8404 Jan 21 06:56 8404 Jan 29 19:13 8404 Feb 04 18:09 8404 Feb 10 01:48 8404 Feb 10 22:59 8404 Feb 11 09:26 8404 Feb 17 03:22 8404 Mar 02 23:44 8404 Mar 13 11:12	0° H 1° H 27′20 30° R≈ 27°≈21′16 26°≈31′29 23°≈38′02 23°≈42′23 23°≈26′16 20°≈02′23 15°≈42′08 17°≈46′20	1°13'40 1°12'52 0.27322 AU	superior conj minimum elong max. Earth dist. asc. node	8406 Jun 01 08:43 8406 Jun 20 23:58 8406 Jul 10 18:22 8406 Jul 11 01:35 8406 Jul 14 03:23 8406 Jul 15 01:04 8406 Jul 23 23:55 8406 Aug 08 04:54 8406 Aug 18 04:50 8406 Sep 01 11:46 8406 Sep 25 22:22	0°5 24°540'18 25°502'45 28°552'30 0°N 11°N08'01 0°M 12°M22'04 0°£ 0°M	0°31'18
evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8404 Jan 12 09:38 8404 Jan 21 06:56 8404 Jan 29 19:13 8404 Feb 04 18:09 8404 Feb 10 01:48 8404 Feb 10 22:59 8404 Feb 11 09:26 8404 Feb 17 03:22 8404 Mar 02 23:44 8404 Mar 13 11:12 8404 Apr 02 05:48	0° H 1° H 27′20 30° R≈ 27° ≈ 21′16 26° ≈ 31′29 23° ≈ 42′23 23° ≈ 26′16 20° ≈ 02′23 15° ≈ 42′08 17° ≈ 46′20 0° H 18° H 39′00 0° Y	1°13'40 1°12'52 0.27322 AU -4.9m	superior conj minimum elong max. Earth dist. asc. node evening rise	8406 Jun 01 08:43 8406 Jun 20 23:58 8406 Jul 10 18:22 8406 Jul 11 01:35 8406 Jul 14 03:23 8406 Jul 15 01:04 8406 Jul 23 23:55 8406 Aug 08 04:54 8406 Aug 18 04:50 8406 Sep 01 11:46 8406 Sep 25 22:22 8406 Oct 20 14:08	0°\$ 24°\$40'18 25°\$02'45 28°\$52'30 0°\$C 11°\$C08'01 0°\$M 12°\$M\$22'04 0°\$L 0°\$M. 0°\$\mathrightarrow{\sigma}\$	0°31'18
evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8404 Jan 12 09:38 8404 Jan 21 06:56 8404 Jan 29 19:13 8404 Feb 04 18:09 8404 Feb 10 01:48 8404 Feb 10 22:59 8404 Feb 11 09:26 8404 Feb 17 03:22 8404 Mar 02 23:44 8404 Mar 13 11:12 8404 Apr 02 05:48 8404 Apr 22 12:34	0° ₩ 1° ₩ 27′20 30° R≈ 27° ≈ 21′16 26° ≈ 31′29 23° ≈ 42′23 23° ≈ 26′16 20° ≈ 02′23 15° ≈ 42′08 17° ≈ 46′20 0° ₩ 18° ₩ 39′00	1°13'40 1°12'52 0.27322 AU -4.9m	superior conj minimum elong max. Earth dist. asc. node evening rise	8406 Jun 01 08:43 8406 Jun 20 23:58 8406 Jul 10 18:22 8406 Jul 11 01:35 8406 Jul 14 03:23 8406 Jul 15 01:04 8406 Jul 23 23:55 8406 Aug 08 04:54 8406 Aug 18 04:50 8406 Sep 01 11:46 8406 Sep 25 22:22 8406 Oct 20 14:08 8406 Nov 12 17:59	0°\$ 24°\$40'18 25°\$02'45 28°\$52'30 0°\$C 11°\$C08'01 0°\$m 12°\$m\$22'04 0°\$\bar{\Omega}\$ 0°\$\mathbf{m}. 0°\$\struct\sigma^2 27°\$\struct\sigma^551'39	0°31'18
evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	8404 Jan 12 09:38 8404 Jan 21 06:56 8404 Jan 29 19:13 8404 Feb 04 18:09 8404 Feb 06 06:15 8404 Feb 11 01:48 8404 Feb 10 22:59 8404 Feb 11 09:26 8404 Feb 17 03:22 8404 Mar 02 23:44 8404 Mar 13 11:12 8404 Apr 02 05:48 8404 Apr 22 12:34 8404 May 03 10:12	0° H 1° H 27′20 30° R≈ 27° ≈ 21′16 26° ≈ 31′29 23° ≈ 42′23 23° ≈ 26′16 20° ≈ 02′23 15° ≈ 42′08 17° ≈ 46′20 0° H 18° H 39′00 0° Y	1°13'40 1°12'52 0.27322 AU -4.9m	superior conj minimum elong max. Earth dist. asc. node evening rise	8406 Jun 01 08:43 8406 Jun 20 23:58 8406 Jul 10 18:22 8406 Jul 11 01:35 8406 Jul 14 03:23 8406 Jul 15 01:04 8406 Jul 23 23:55 8406 Aug 08 04:54 8406 Aug 18 04:50 8406 Sep 01 11:46 8406 Sep 25 22:22 8406 Oct 20 14:08 8406 Nov 12 17:59 8406 Nov 14 12:58	0°© 24°©40'18 25°©02'45 28°©52'30 0°A 11°A08'01 0°M 12°M22'04 0°Ω 0°M 27°×751'39	0°31'18
evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	8404 Jan 12 09:38 8404 Jan 21 06:56 8404 Jan 29 19:13 8404 Feb 04 18:09 8404 Feb 06 06:15 8404 Feb 11 01:48 8404 Feb 10 22:59 8404 Feb 11 09:26 8404 Feb 17 03:22 8404 Mar 02 23:44 8404 Mar 13 11:12 8404 Apr 02 05:48 8404 Apr 22 12:34 8404 May 03 10:12 8404 May 28 00:45	0° H 1° H 27′20 30° R≈ 27° ≈ 21′16 26° ≈ 31′29 23° ≈ 42′23 23° ≈ 26′16 20° ≈ 02′23 15° ≈ 42′08 17° ≈ 46′20 0° H 18° H 39′00 0° Ψ 27° Υ 28′28	1°13'40 1°12'52 0.27322 AU -4.9m	superior conj minimum elong max. Earth dist. asc. node evening rise	8406 Jun 01 08:43 8406 Jun 20 23:58 8406 Jul 10 18:22 8406 Jul 11 01:35 8406 Jul 14 03:23 8406 Jul 15 01:04 8406 Jul 23 23:55 8406 Aug 08 04:54 8406 Aug 18 04:50 8406 Sep 01 11:46 8406 Sep 25 22:22 8406 Oct 20 14:08 8406 Nov 12 17:59 8406 Nov 14 12:58 8406 Dec 09 21:09	0°\$ 24°\$40'18 25°\$02'45 28°\$52'30 0°\$\mathcal{Q}\$ 11°\$\mathcal{Q}\$08'01 0°\$\mathcal{m}\$\$ 12°\$\mathcal{m}\$\$22'04 0°\$\mathcal{Q}\$\$ 0°\$\mathcal{M}\$\$ 27°\$\mathcal{A}\$\$51'39 0°\$\mathcal{G}\$\$ 0°\$\mathcal{G}\$\$	0°31'18
evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	8404 Jan 12 09:38 8404 Jan 21 06:56 8404 Jan 29 19:13 8404 Feb 04 18:09 8404 Feb 06 06:15 8404 Feb 11 01:48 8404 Feb 10 22:59 8404 Feb 11 09:26 8404 Feb 17 03:22 8404 Mar 02 23:44 8404 Mar 13 11:12 8404 Apr 02 05:48 8404 Apr 22 12:34 8404 May 03 10:12 8404 May 28 00:45 8404 May 30 05:17	0°¥ 1°¥27'20 30°R≈ 27°≈21'16 26°≈31'29 23°≈42'23 23°≈42'16 20°≈02'23 15°≈42'08 17°≈46'20 0°¥ 18°¥39'00 0°Ψ 27°Ψ28'28	1°13'40 1°12'52 0.27322 AU -4.9m	superior conj minimum elong max. Earth dist. asc. node evening rise	8406 Jun 01 08:43 8406 Jun 20 23:58 8406 Jul 10 18:22 8406 Jul 11 01:35 8406 Jul 14 03:23 8406 Jul 15 01:04 8406 Jul 23 23:55 8406 Aug 08 04:54 8406 Aug 18 04:50 8406 Sep 01 11:46 8406 Sep 25 22:22 8406 Oct 20 14:08 8406 Nov 12 17:59 8406 Nov 14 12:58 8406 Dec 09 21:09 8407 Jan 04 19:14	0°\$ 24°\$40'18 25°\$02'45 28°\$52'30 0°\$\mathref{\Omega}\$ 11°\$\O8'01 0°\$\mathref{\Omega}\$ 0°\$\mathref{\Omega}\$ 0°\$\mathref{\Sigma}\$ 0°\$\mathref{\Sigma}\$ 0°\$\mathref{\Sigma}\$ 0°\$\mathref{\Sigma}\$ 0°\$\mathref{\Sigma}\$ 0°\$\mathref{\Sigma}\$ 0°\$\mathref{\Sigma}\$ 0°\$\mathref{\Sigma}\$	0°31'18

	8407 Mar 03 21:21	0° ႘			8409 Aug 22 22:34	0° m/	
asc. node	8407 Mar 05 17:42	1° 8 30'15			8409 Sep 16 05:45	0° ت	
greatest brilliancy	8407 Mar 26 05:41	13° 8 57'53	-4.9m		0107 Sep 10 03.13	~ —	
retrograde	8407 Apr 04 22:59	15° 8 45'42	,	superior conj	8409 Sep 19 05:28	3° ≏ 41'17	1°03'49
evening set	8407 Apr 22 21:33	9° 8 37'52		minimum elong	8409 Sep 18 20:00	3° ₽ 12'03	1°03'30
inferior conj	8407 Apr 25 15:16	7° 8 57'34	9°07'39	max. Earth dist.	8409 Sep 20 04:22		1.73190 AU
minimum elong	8407 Apr 25 12:11	8° 8 02'20	9°07'24		8409 Oct 10 13:36	0° M	
min. Earth dist.	8407 Apr 25 12:03	8° 8 02'31	0.27094 AU	evening rise	8409 Oct 25 15:35	18°M34'32	
morning rise	8407 Apr 28 02:49	6° 8 26'26		-	8409 Nov 03 22:34	0° ∡ ⊓	
direct	8407 May 16 05:34	0° 8 10'10			8409 Nov 28 09:26	ರ°ರ	
greatest brilliancy	8407 May 25 20:18	1° 8 54'23	-4.9m	desc. node	8409 Dec 10 05:37	14° る 29'01	
desc. node	8407 Jun 25 12:31	22° 8 59'33			8409 Dec 22 22:36	0°≈	
	8407 Jul 02 22:05	Π $^{\circ}0$			8410 Jan 16 14:06	0° ∀	
morning max el	8407 Jul 05 10:27	2° Ⅱ 28'47	46°40'24		8410 Feb 10 08:55	0° Y	
	8407 Jul 31 10:16	0 \circ \odot			8410 Mar 07 11:21	0° 8	
	8407 Aug 26 20:41	0 $^{\circ}$ Ω		asc. node	8410 Apr 02 05:00	29° 8 48'48	
	8407 Sep 21 11:41	0° m			8410 Apr 02 08:59	Π $^{\circ}0$	
asc. node	8407 Oct 16 10:50	29° m 45'54		evening max el	8410 Apr 27 13:46	27° Ⅱ 06'32	46°57'11
	8407 Oct 16 15:31	0∘ ⊽			8410 Apr 30 11:19	0 \circ \mathfrak{s}	
	8407 Nov 10 10:57	0° M		greatest brilliancy	8410 Jun 06 13:47	27° © 51'35	-4.9m
	8407 Dec 04 23:45	0° ∡ ¹		retrograde	8410 Jun 17 01:21	29° © 55'01	
	8407 Dec 29 07:41	0°ප		evening set	8410 Jul 02 11:14	25° © 13'44	
morning set	8407 Dec 31 20:38	3° る 08'32		inferior conj	8410 Jul 07 23:14	21° © 56'18	3°42'20
	8408 Jan 22 12:15	0° ≈		minimum elong	8410 Jul 08 07:08	21° 5 944'06	3°39'51
desc. node	8408 Feb 05 03:35	16° ≈ 58′28		min. Earth dist.	8410 Jul 07 19:25	22° © 02'11	0.27498 AU
max. Earth dist.	8408 Feb 05 07:29	17° ≈ 10′36	1.72056 AU	morning rise	8410 Jul 14 03:33	18° © 17'55	
				desc. node	8410 Jul 23 00:00	14° 5 946'02	
superior conj	8408 Feb 08 08:19	20° ≈ 57'36		direct	8410 Jul 28 20:34	14° © 04'29	
minimum elong	8408 Feb 08 06:27	20° ≈ 51'45	0°07'33	greatest brilliancy	8410 Aug 07 15:50	15° © 51'07	-4.8m
behind sun begin	8408 Feb 07 08:18	19° ≈ 42'42			8410 Aug 30 17:45	0 ° Ω	
behind sun end	8408 Feb 09 04:36	22°≈00'50		morning max el	8410 Sep 16 01:10	14° £ 35′16	45°55'06
	8408 Feb 15 14:13	0°){			8410 Oct 01 08:41	0° m)	
	8408 Mar 10 13:58	0° γ		,	8410 Oct 28 20:35	0° ⊽	
evening rise	8408 Mar 19 01:46	10° Ƴ 38'30		asc. node	8410 Nov 12 23:02	17° ≏ 16'43	
	8408 Apr 03 12:20	0°H 8°0			8410 Nov 23 20:45	0° ™ 0° <i>≯</i> 7	
	8408 Apr 27 11:10	0.2e			8410 Dec 19 01:07 8411 Jan 12 17:12	0°る	
asc. node	8408 May 21 13:07 8408 May 28 02:09	8° 5 06'04			8411 Feb 06 01:29	0°≈	
asc. Houe	8408 Jun 14 21:20	0°Ω			8411 Mar 02 04:38	0 ≈ 0° ∺	
	8408 Jul 09 15:49	0° mp		desc. node	8411 Mar 04 15:52	3° ∺ 04'51	
	8408 Aug 04 03:25	0° <u>0</u> مار		morning set	8411 Mar 14 15:50	15°) 34'45	
	8408 Aug 31 00:12	0°M		morning sec	8411 Mar 26 04:06	0°Υ	
desc. node	8408 Sep 16 21:01	17° M 21'09			8411 Apr 19 01:12	0°8	
evening max el	8408 Sep 19 02:15	19°M30'19	45°42'58		0.111.pr 15 01.12	• •	
	8408 Sep 30 13:38	0° ⊼ 7		superior conj	8411 Apr 24 11:18	6° 8 49'02	-1°26'39
greatest brilliancy	8408 Oct 28 03:05	17° ∡ ¹44'04	-4.7m	minimum elong	8411 Apr 24 07:29	6° 8 37'00	1°26'44
retrograde	8408 Nov 06 22:23	19° ∡ ¹28'45		max. Earth dist.	8411 Apr 24 14:21	6° 8 58'38	1.71219 AU
evening set	8408 Nov 24 15:30	13° ∡ ³34'14			8411 May 12 21:45	Π°	
inferior conj	8408 Nov 28 08:10	11° √ 17'41	-7°52'06	evening rise	8411 Jun 04 01:10	27° Ⅱ 46'31	
minimum elong	8408 Nov 28 15:56	11° ₹ 05'31	7°50'58		8411 Jun 05 19:50	0 \circ \mathfrak{S}	
min. Earth dist.	8408 Nov 28 23:13	10° ₹ ′54′06	0.28880 AU	asc. node	8411 Jun 25 13:52	24° © 38'27	
morning rise	8408 Dec 02 16:08	8° ₰ ³37'50			8411 Jun 29 21:20	$0^{\circ}\Omega$	
direct	8408 Dec 19 19:09	3° ₹ 00'14			8411 Jul 24 03:42	0° ™	
greatest brilliancy	8408 Dec 30 20:18	5° ∡ 14'29	-4.8m		8411 Aug 17 16:39	0∘ ত	
asc. node	8409 Jan 07 20:36	9° ∡ 11'14			8411 Sep 11 15:18	0° M	
	8409 Feb 02 18:51	0°రె			8411 Oct 07 05:19	0° ∡ ¹	
morning max el	8409 Feb 07 16:10	4° る 46'15	46°20'13	desc. node	8411 Oct 15 08:23	9° ∡ 18'12	
	8409 Mar 03 09:56	0° ≈			8411 Nov 02 21:55	0°∃	
	8409 Mar 29 10:55	0°) €		evening max el	8411 Nov 30 18:35	28° る 47'59	45°57'01
	8409 Apr 23 11:21	0°Υ			8411 Dec 02 00:42	0°≈	4.0
desc. node	8409 Apr 29 14:36	7° Υ 28'01		greatest brilliancy	8412 Jan 09 03:47	27°≈24'48	-4.8m
	8409 May 17 23:43	8°0		retrograde	8412 Jan 18 19:42	29°≈07'27	
	8409 Jun 11 06:18	0°∏		evening set	8412 Feb 02 08:11	25°≈01'02	
	8409 Jul 05 11:03	0° ⊙		asc. node	8412 Feb 05 08:15	23°≈18'59	0050122
	8409 Jul 29 16:15	0°Ω		inferior conj	8412 Feb 08 15:35	21°≈18'04	
morning set	8409 Aug 12 15:45	17° Ω 17'21		minimum elong	8412 Feb 08 13:39	21°≈21'04	0°50'04
asc. node	8409 Aug 20 12:03	26° Ω 59'14		min. Earth dist.	8412 Feb 09 00:31	21° ≈ 04'16	0.27356 AU

	0412 5 1 14 10 22	150 20150			04444 45 04 05	100 - 1112 -	
morning rise	8412 Feb 14 18:33	17° ≈ 39'58		evening rise	8414 Aug 15 21:07	10° m 11'35	
direct	8412 Feb 29 13:38	13° ≈ 21'32			8414 Aug 31 22:20	0∘ ⊽	
greatest brilliancy	8412 Mar 11 02:51	15° ≈ 26′50	-4.9m		8414 Sep 25 09:08	0° M ₊	
	8412 Apr 02 16:20	0° ∀			8414 Oct 20 01:15	0° ∡ ¹	
morning max el	8412 Apr 20 01:21	16° ¥ 14'26	46°57'29	desc. node	8414 Nov 11 19:52	27° ₹ ¹22'25	
morning max or	8412 May 03 04:46	0°Υ	10 37 27	desc. node	8414 Nov 14 00:42	0°중	
		٠.					
desc. node	8412 May 27 02:43	26° Y 51′07			8414 Dec 09 09:58	0° ≈	
	8412 May 29 19:57	0°B			8415 Jan 04 10:00	0° ∀	
	8412 Jun 24 05:36	Π °0			8415 Jan 31 16:46	0° Y	
	8412 Jul 19 03:18	0 \circ ∞		evening max el	8415 Feb 11 04:11	10° Ƴ 45′23	46°42'36
	8412 Aug 12 20:08	$0^{\circ}\Omega$			8415 Mar 04 10:14	$_{0\circ}$ 8	
	8412 Sep 06 10:38	0° m)		asc. node	8415 Mar 04 19:47	0° 8 18'39	
asc. node	8412 Sep 17 00:29	12° m 55'52		greatest brilliancy	8415 Mar 23 18:07	11° 8 31'40	-4.9m
use. Houe	8412 Sep 30 23:00	0° ⊡		retrograde	8415 Apr 02 12:05	13° 8 20'18	1.7111
	•			-	1	_	
morning set	8412 Oct 20 19:15	24° £ 22'11		evening set	8415 Apr 20 07:14	7° 8 16'50	
	8412 Oct 25 09:04	0° M ₊		inferior conj	8415 Apr 23 04:03	5° 8 32'06	9°03'50
	8412 Nov 18 17:12	0° ∡ ¹		minimum elong	8415 Apr 23 00:01	5° 8 38'19	9°03'30
max. Earth dist.	8412 Nov 25 00:20	7° ∡ ¹46'26	1.73132 AU	min. Earth dist.	8415 Apr 23 00:25	5° 8 37'42	0.27086 AU
				morning rise	8415 Apr 25 16:49	3° 8 59'20	
superior conj	8412 Nov 26 07:49	9° ∡ ¹23'36	1°19'00	C	8415 May 03 06:25	30° Ŗ ♈	
minimum elong	8412 Nov 26 14:47	9° ∡ 745'05		direct	8415 May 13 18:23	27° Ƴ 44'29	
minimum clong			1 1702		•		4.0
	8412 Dec 13 00:09	0° ろ		greatest brilliancy	8415 May 23 09:07	29° Y ′29'14	-4.9m
evening rise	8413 Jan 02 21:46	25° る 50'35			8415 May 24 18:27	$0^{\circ}S$	
	8413 Jan 06 06:24	0° ≈		desc. node	8415 Jun 24 14:24	22° 8 00'50	
desc. node	8413 Jan 06 17:29	0° ≈ 34'15			8415 Jul 02 21:17	$\Pi^{\circ}0$	
	8413 Jan 30 11:53	0° ∀		morning max el	8415 Jul 03 00:40	0° Ⅱ 08'25	46°42'03
	8413 Feb 23 16:34	$_0$ ° γ		Č	8415 Jul 31 02:21	0°9	
	8413 Mar 19 21:41	0°8			8415 Aug 26 10:08	0°Ω	
		0°U			=		
	8413 Apr 13 06:21				8415 Sep 20 23:48	0° m)	
asc. node	8413 Apr 29 16:29	19° ∏ 59'25		asc. node	8415 Oct 15 12:43	29° Mp 17'22	
	8413 May 08 00:03	0			8415 Oct 16 02:53	0∘ ত	
	8413 Jun 02 12:14	0 $^{\circ}\Omega$			8415 Nov 09 21:53	0° M	
	8413 Jun 29 16:49	0° m y			8415 Dec 04 10:26	0° ∡ ¹	
evening max el	8413 Jul 08 00:51	8° Mp 29'45	46°17'54		8415 Dec 28 18:15	ი∘ჳ	
V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8413 Aug 01 17:31	0∘ ⊽		morning set	8415 Dec 29 12:44	0°る57'09	
greatest brilliancy	8413 Aug 15 17:28	0 — 7° Ω 51'26	-4.8m	morning set	8416 Jan 21 22:49	0° ≈	
	Č		-4.0111	T 4 1 4			1.72000 411
desc. node	8413 Aug 19 11:42	9° Ω 05'18		max. Earth dist.	8416 Feb 02 23:42	14° ≈ 58'33	1.72099 AU
retrograde	8413 Aug 26 18:02	10° ≏ 04'58		desc. node	8416 Feb 04 05:37	16° ≈ 31'44	
evening set	8413 Sep 11 19:23	5° ≏ 07'35					
min. Earth dist.	8413 Sep 16 13:44	2° £ 14'23	0.28769 AU	superior conj	8416 Feb 05 21:38	18° ≈ 36′26	-0°04'05
inferior conj	8413 Sep 17 05:48	1° ≏ 49'11		minimum elong	8416 Feb 05 20:41	18° ≈ 33'26	0°03'55
minimum elong	8413 Sep 16 19:47	2° Ω 04'54		behind sun begin	8416 Feb 04 20:33	17° ≈ 18'15	
minimum ciong	8413 Sep 20 04:04	30°RM)	0 15 55	behind sun end	8416 Feb 06 20:49	19° ≈ 48'39	
				bellilla sull ella			
morning rise	8413 Sep 21 20:30	28° m 59'39			8416 Feb 15 00:51	0° ∀	
direct	8413 Oct 08 15:03	23° m 39'56			8416 Mar 10 00:43	0° Y	
greatest brilliancy	8413 Oct 18 10:59	25° Mp 24'07	-4.7m	evening rise	8416 Mar 16 13:50	8° Ƴ 12'07	
	8413 Oct 28 05:22	0∘ ⊽			8416 Apr 02 23:13	8° 0	
morning max el	8413 Nov 26 08:21	23° ≏ 28'30	45°43'16		8416 Apr 26 22:12	Π° 0	
	8413 Dec 02 23:24	0° M ₊			8416 May 21 00:23	0ංම	
asc. node	8413 Dec 10 10:58	7° ጤ 41'04		asc. node	8416 May 27 04:01	7° 9 36'49	
	8413 Dec 30 22:35	7 IIU+1 0+ 0° √			8416 Jun 14 08:59	0°Ω	
	8414 Jan 25 21:01	0° ප			8416 Jul 09 04:08	0° m)	
	8414 Feb 19 20:56	0° ≈			8416 Aug 03 17:05	0∘ ⊽	
	8414 Mar 16 08:37	0°) €			8416 Aug 30 17:04	0° M	
desc. node	8414 Apr 01 04:14	19°) 35′24		desc. node	8416 Sep 15 23:02	16°M34'24	
	8414 Apr 09 13:01	$0^{\circ}\mathbf{\Upsilon}$		evening max el	8416 Sep 16 18:25	17° M 21'15	45°43'24
	8414 May 03 13:10	0°8		-	8416 Sep 30 18:47	0° ∡ ¹	
	8414 May 27 11:36	0°II		greatest brilliancy	8416 Oct 25 17:05	15° х 33'03	-4.7m
morning act	•	0 П 2°П59'47					7. / 111
morning set	8414 May 29 20:57			retrograde	8416 Nov 04 14:29	17° 🖈 19'03	
	8414 Jun 20 10:33	0		evening set	8416 Nov 22 09:35	11° ∡ 20′52	
				inferior conj	8416 Nov 26 00:08	9° ∡ 07'12	-7°59'57
superior conj	8414 Jul 08 08:19	22° © 21'31	-0°34'51	minimum elong	8416 Nov 26 07:24	8° ₰ ′55'50	7°58'57
minimum elong	8414 Jul 08 16:12	22°5546'06	0°34'40	min. Earth dist.	8416 Nov 26 13:53	8° ∡ 745'41	0.28920 AU
max. Earth dist.	8414 Jul 11 15:46	26°\$29'01	1.72102 AU	morning rise	8416 Nov 30 05:03	6° ∡ ³31'54	
	8414 Jul 14 11:34	0° Ω		direct	8416 Dec 17 12:03	0° х 49'37	
aca nada		10° Ω 41'33					1 8m
asc. node	8414 Jul 23 01:54			greatest brilliancy	8416 Dec 28 11:15	3°×702'18	-4.8m
	8414 Aug 07 15:23	0° m		asc. node	8417 Jan 06 22:36	7° ∡ 751'19	

	8417 Feb 02 17:54	0°궁 2°궁33'34	46010120	dd.	8419 Oct 06 18:50	0° ҂ ¹ 8° ҂ ¹43'44	
morning max el	8417 Feb 05 08:19 8417 Mar 03 01:53	2° ⊘ 33°34 0° ≈	46°18'29	desc. node	8419 Oct 14 10:19 8419 Nov 02 14:07	8° x '43'44 0° る	
	8417 Mar 29 00:30	0° ∀		evening max el	8419 Nov 28 07:58	26° る 29'29	45°55'41
	8417 Apr 22 23:49	0°Υ			8419 Dec 02 00:51	0° ≈	4.0
desc. node	8417 Apr 28 16:29 8417 May 17 11:32	6° Y 56'21 0° と		greatest brilliancy retrograde	8420 Jan 06 18:14 8420 Jan 16 08:32	25°≈05'59 26°≈47'36	-4.8m
	8417 Jun 10 17:41	0°U		evening set	8420 Jan 30 22:29	20 ≈4730 22°≈40'04	
	8417 Jul 04 22:07	0°9		asc. node	8420 Feb 04 10:20	20° ≈ 04'14	
	8417 Jul 29 03:04	0 $^{\circ}\Omega$		inferior conj	8420 Feb 06 05:30	18° ≈ 57'48	0°27'31
morning set	8417 Aug 10 07:36	15° Ω 04'53		minimum elong	8420 Feb 06 04:27	18°≈59'27	0°27'19
asc. node	8417 Aug 19 14:07 8417 Aug 22 09:12	26° Ω 32'42 0° m		min. Earth dist. morning rise	8420 Feb 06 15:49 8420 Feb 12 09:43	18° ≈ 41'53 15° ≈ 17'39	0.27398 AU
	8417 Sep 15 16:17	0∘ ⊽		direct	8420 Feb 27 03:28	11° ≈ 00'18	
	•			greatest brilliancy	8420 Mar 08 19:07	13° ≈ 07′27	-4.9m
superior conj	8417 Sep 16 22:45	1° Ω 34'00			8420 Apr 03 00:28	0° \	
minimum elong max. Earth dist.	8417 Sep 16 13:13 8417 Sep 18 02:31	1° £ 04'37 2° £ 59'40	1°01'15 1.73168 AU	morning max el	8420 Apr 17 14:30	13°) (49'37 0° °	46°56'55
max. Earm dist.	8417 Oct 10 00:07	2 == 3940 0°M	1./3108 AU	desc. node	8420 May 02 23:16 8420 May 26 04:41	26° Υ 12'56	
evening rise	8417 Oct 23 09:20	16°M28'54		dese. node	8420 May 29 10:50	0°8	
	8417 Nov 03 09:12	0° ∡ ¹			8420 Jun 23 18:50	$\Pi^{\circ}0$	
	8417 Nov 27 20:19	0°る			8420 Jul 18 15:36	0° ©	
desc. node	8417 Dec 09 07:33 8417 Dec 22 09:53	14°る01'09 0°≈			8420 Aug 12 07:50 8420 Sep 05 21:54	0° Ω 0° m	
	8418 Jan 16 01:56	0° ∺		asc. node	8420 Sep 16 02:22	12° Mp 27'30	
	8418 Feb 09 21:33	0° Υ			8420 Sep 30 09:59	0∘ ⊽	
	8418 Mar 07 01:17	0° 8		morning set	8420 Oct 18 12:30	22° ≙ 14'12	
asc. node	8418 Apr 01 06:57	29° 8 07'55			8420 Oct 24 19:54	0°M.	
evening max el	8418 Apr 02 01:32 8418 Apr 25 04:40	0°Ⅱ 24°Ⅱ46'45	46°57'40	max. Earth dist.	8420 Nov 18 03:58 8420 Nov 22 18:25	0° द्र ⁷ 5° द्र ⁷ 40'51	1.73152 AU
evening max er	8418 Apr 30 11:23	0°95	40 37 40	max. Earth dist.	8420 NOV 22 18.23	3 🗶 4031	1.73132 AU
greatest brilliancy	8418 Jun 04 05:10	25° © 31'44	-4.9m	superior conj	8420 Nov 24 01:11	7° ∡ 15'50	1°20'14
retrograde	8418 Jun 14 15:38	27° © 33'45		minimum elong	8420 Nov 24 07:37	7° ∡ ³35'40	1°20'18
evening set	8418 Jun 30 03:51	22°549'34	4902124		8420 Dec 12 10:58	0°る 23°る36'50	
inferior conj minimum elong	8418 Jul 05 13:02 8418 Jul 05 21:33	19° © 35'45 19° © 22'36	4°03'24 4°00'47	evening rise desc. node	8420 Dec 31 13:24 8421 Jan 05 19:34	0°≈06'51	
min. Earth dist.	8418 Jul 05 09:49	19° 5 40'43	0.27468 AU	dese. node	8421 Jan 05 17:21	0° ≈	
morning rise	8418 Jul 11 15:47	15° © 59'19			8421 Jan 29 23:02	0° ∀	
desc. node	8418 Jul 22 02:08	12° © 07'17			8421 Feb 23 04:02	0° Υ	
direct greatest brilliancy	8418 Jul 26 10:26 8418 Aug 05 04:59	11°5944'33 13°5930'36	4 8m		8421 Mar 19 09:33 8421 Apr 12 18:48	0°Π 8°0	
greatest billiancy	8418 Aug 31 02:21	0°Ω	-4.0111	asc. node	8421 Apr 28 18:21	19° Ⅱ 25'53	
morning max el	8418 Sep 13 15:16	12° Ω 18'30	45°56'24		8421 May 07 13:25	0ಂಣ	
	8418 Oct 01 02:41	0° m			8421 Jun 02 03:25	0 $^{\circ}\Omega$	
,	8418 Oct 28 10:45	0° 亞		. ,	8421 Jun 29 12:34	0° m)	4.601.012.6
asc. node	8418 Nov 12 00:58 8418 Nov 23 09:14	16° £ 44'28 0° I L		evening max el	8421 Jul 05 15:04 8421 Aug 02 16:00	6°Mp11'04 0°Ω	46°19'36
	8418 Dec 18 12:47	0° ⊼ ¹		greatest brilliancy	8421 Aug 13 08:59	ა _ 5° ჲ 38'02	-4.8m
	8419 Jan 12 04:27	8°0		desc. node	8421 Aug 18 13:41	7° ≏ 13'20	
	8419 Feb 05 12:34	0° ≈		retrograde	8421 Aug 24 09:56	7° ≙ 52'37	
desc. node	8419 Mar 01 15:38	0° 光 2° 升 36'50		evening set min. Earth dist.	8421 Sep 09 08:26	2° £ 58'56	0.20720 ATT
morning set	8419 Mar 03 17:53 8419 Mar 12 03:09	2 ★3636 13°¥05'45		IIIII. Eartii dist.	8421 Sep 14 05:17 8421 Sep 14 06:56	0° £ 02'35 30°₽ ™	0.28728 AU
morning sec	8419 Mar 25 15:03	0°Υ		inferior conj	8421 Sep 14 21:35	29° m/37'04	-6°01'20
	8419 Apr 18 12:07	9° 8		minimum elong	8421 Sep 14 11:33	29° m 52'46	5°59'11
	04104 04 00 14	401410100	1005156	morning rise	8421 Sep 19 14:59	26° m 43'52	
superior conj minimum elong	8419 Apr 21 22:14 8419 Apr 21 17:23	4°818'08 4°802'53		direct greatest brilliancy	8421 Oct 06 06:01 8421 Oct 16 02:35	21° m) 28'13 23° m) 12'57	-4.7m
max. Earth dist.	8419 Apr 21 17:23 8419 Apr 21 18:17		1.71218 AU	greatest brilliancy	8421 Oct 16 02:33 8421 Oct 29 09:24	0° ت	-→. /111
	8419 May 12 08:41	0°Щ		morning max el	8421 Nov 23 23:30	21° ≏ 15'31	45°43'00
evening rise	8419 Jun 01 12:13	25° Ⅱ 16′29			8421 Dec 02 19:14	0°M	
1	8419 Jun 05 06:49	0°95		asc. node	8421 Dec 09 12:58	6°M58'59	
asc. node	8419 Jun 24 15:54 8419 Jun 29 08:26	24° © 10′24 0° Ω			8421 Dec 30 13:31 8422 Jan 25 10:04	0° ヹ	
	8419 Jul 23 14:59	0° mp			8422 Feb 19 09:06	0° ≈	
	8419 Aug 17 04:16	0∘ ⊽			8422 Mar 15 20:18	0° ∀	
	8419 Sep 11 03:33	0°M₊		desc. node	8422 Mar 31 06:07	19°) 05′31	

	8422 Apr 09 00:26	$0^{\circ}\mathbf{\Upsilon}$		desc. node	8424 Sep 15 00:58	15° M 45'15	
	8422 Apr 09 00.26 8422 May 03 00:26	0°8		desc. node	8424 Oct 01 02:54	13 IIC43 13 0° 🗖	
	8422 May 26 22:46	0°II		greatest brilliancy	8424 Oct 01 02:34 8424 Oct 23 07:35	13° ∡ ¹21'13	4.7m
morning set	8422 May 27 08:38	0° П 30'57		retrograde	8424 Nov 02 06:03	15° × ⁷ 07'47	-4. /III
morning set	8422 Jun 19 21:36	0°©		•		9° × 06'27	
	8422 Jun 19 21:30	0-98		evening set	8424 Nov 20 03:24		0007107
	0422 I-1 05 21-27	100050105	0020114	inferior conj	8424 Nov 23 16:01	6° ₹ 55'25	
superior conj	8422 Jul 05 21:37	19°959'05		minimum elong	8424 Nov 23 22:41	6° ₹ 44'57	
minimum elong	8422 Jul 06 06:10	20°525'44		min. Earth dist.	8424 Nov 24 04:30	6° ₹ 35'48	0.28955 AU
max. Earth dist.	8422 Jul 09 03:22		1.72057 AU	morning rise	8424 Nov 27 17:51	4° ₹ 24'28	
,	8422 Jul 13 22:32	0° N		1.	8424 Dec 06 22:25	30°RM	
asc. node	8422 Jul 22 03:55	10° £ 13'42		direct	8424 Dec 15 04:40	28°M37'48	
	8422 Aug 07 02:21	0° M)		4 41 111	8424 Dec 23 17:49	0° 🗖	4.0
evening rise	8422 Aug 13 12:55	7° m 58'10		greatest brilliancy	8424 Dec 26 01:56	0° ₹ 48'33	-4.8m
	8422 Aug 31 09:23	0∘ 亚		asc. node	8425 Jan 06 00:42	6° ₹ 32'48	
	8422 Sep 24 20:23	0° M 0° ₹			8425 Feb 02 16:26	0°る	46016140
	8422 Oct 19 12:53	0° √ 7		morning max el	8425 Feb 02 23:32	0°る17'35	46*16*49
desc. node	8422 Nov 10 21:51	26° ₹ 51'58			8425 Mar 02 17:53	0° ≈	
	8422 Nov 13 12:59	ි. ව°0			8425 Mar 28 14:13	0°) €	
	8422 Dec 08 23:19	0° ≈			8425 Apr 22 12:23	0°Υ 6° Ω 2 42.5	
	8423 Jan 04 01:22	0°) €		desc. node	8425 Apr 27 18:29	6° Y 24'35	
	8423 Jan 31 12:46	0° Υ	46041110		8425 May 16 23:26	8°0	
evening max el	8423 Feb 08 18:12	8° Υ 23'24	46°41'19		8425 Jun 10 05:09	0° Ⅱ	
asc. node	8423 Mar 03 21:39	29° Y 03'40			8425 Jul 04 09:17	0°9	
4 41 711	8423 Mar 05 03:58	0° 8	4.0	. ,	8425 Jul 28 14:03	0°N	
greatest brilliancy	8423 Mar 21 05:57	9° 8 04'12	-4.9m	morning set	8425 Aug 07 23:19	12° Ω 51′21	
retrograde	8423 Mar 31 01:33	10° 8 54'04		asc. node	8425 Aug 18 16:00	26° Ω 04'55	
evening set	8423 Apr 17 16:31	4° 8 55'36	9950100		8425 Aug 21 20:03	0° m	
inferior conj minimum elong	8423 Apr 20 16:52 8423 Apr 20 11:55	3° と 05'40 3° と 13'17		superior conj	8425 Sep 14 15:43	29° m 25'02	0950112
min. Earth dist.	8423 Apr 20 12:24	3° 8 12'32		minimum elong	8425 Sep 14 15:43 8425 Sep 14 06:12	28° m 55'42	
morning rise	8423 Apr 23 07:20	1° 8 30'31	0.27082 AU	minimum ciong	8425 Sep 15 03:03	20 11 √ 33 42	0 3631
morning risc	8423 Apr 25 21:35	30°RΥ		max. Earth dist.	8425 Sep 15 03:03 8425 Sep 15 22:34	0 = 1° ⊆ 00'13	1.73147 AU
direct	8423 May 11 07:44	25° Υ 18'05		max. Lartii dist.	8425 Oct 09 10:53	0°M	1./314/ AO
greatest brilliancy	8423 May 20 21:26	27° Υ 02'27	-4.9m	evening rise	8425 Oct 21 02:41	14°M21'19	
greatest orimancy	8423 May 27 13:12	0°8	4.7111	evening rise	8425 Nov 02 20:04	0°×7	
desc. node	8423 Jun 23 16:32	21° 8 02'40			8425 Nov 27 07:26	0°ප	
morning max el	8423 Jun 30 15:13	27° 8 47'25	46°43'21	desc. node	8425 Dec 08 09:37	13° る 33'02	
8	8423 Jul 02 20:04	0°II			8425 Dec 21 21:24	0° ≈	
	8423 Jul 30 18:43	0°9			8426 Jan 15 14:01	0°) €	
	8423 Aug 25 24:00	0°N			8426 Feb 09 10:27	0° Υ	
	8423 Sep 20 12:21	0° m/y			8426 Mar 06 15:31	0°8	
asc. node	8423 Oct 14 14:39	28° m) 47'45		asc. node	8426 Mar 31 08:57	28° 8 26'27	
	8423 Oct 15 14:40	0∘ ⊽			8426 Apr 01 18:30	0°Щ	
	8423 Nov 09 09:12	0° M		evening max el	8426 Apr 22 18:41	22° Ⅲ 24'37	46°58'14
	8423 Dec 03 21:30	0° ∡ ¹		•	8426 Apr 30 12:39	0°ಲಾ	
morning set	8423 Dec 27 04:50	28° ҂ ⁴44'38		greatest brilliancy	8426 Jun 01 21:08	23° © 12'58	-4.9m
	8423 Dec 28 05:13	0°ರ		retrograde	8426 Jun 12 05:35	25° © 13'10	
	8424 Jan 21 09:46	0° ≈		evening set	8426 Jun 27 20:43	20° © 25'54	
max. Earth dist.	8424 Jan 31 14:09	12° ≈ 39'59	1.72137 AU	inferior conj	8426 Jul 03 03:04	17° © 15'59	4°23'53
				minimum elong	8426 Jul 03 12:07	17° 5 02'00	4°21'10
superior conj	8424 Feb 03 11:12	16° ≈ 15′00		min. Earth dist.	8426 Jul 03 00:38	17° © 19'45	0.27439 AU
minimum elong	8424 Feb 03 11:09	16° ≈ 14'50	0°00'14	morning rise	8426 Jul 09 03:58	13° © 41'41	
behind sun begin	8424 Feb 02 10:41	14° ≈ 58'36		desc. node	8426 Jul 21 04:04	9° © 34'51	
behind sun end	8424 Feb 04 11:38	17° ≈ 31'06		direct	8426 Jul 24 00:00	9° © 25'17	
desc. node	8424 Feb 03 07:35	16° ≈ 03'43		greatest brilliancy	8426 Aug 02 18:47	11°©11'14	-4.8m
	8424 Feb 14 11:50	0° ∀			8426 Aug 31 08:25	0 $^{\circ}$ Ω	
	8424 Mar 09 11:45	0 ° $\mathbf{\gamma}$		morning max el	8426 Sep 11 04:41	9° Ω 59'58	45°57'33
evening rise	8424 Mar 14 02:12	5° Y 45'50			8426 Sep 30 20:17	0° т р	
	8424 Apr 02 10:22	0° 8		_	8426 Oct 28 00:49	0∘ ⊽	
	8424 Apr 26 09:30	0°II		asc. node	8426 Nov 11 03:00	16° £ 12'21	
_	8424 May 20 11:57	0.20			8426 Nov 22 21:44	0°M	
asc. node	8424 May 26 06:04	7° 5 07'09			8426 Dec 18 00:29	0° ∡	
	8424 Jun 13 20:59	0° N			8427 Jan 11 15:44	ව°00	
	8424 Jul 08 16:55	0° ™			8427 Feb 04 23:38	0° ≈	
	8424 Aug 03 07:20	0∘ m 0∘ ত		daga mada	8427 Mar 01 02:36	0° ∺ 2° ∺ 08'13	
evening max el	8424 Aug 30 10:49 8424 Sep 14 10:24	0° ጤ 15° ጤ 10'13	15012152	desc. node morning set	8427 Mar 02 19:41 8427 Mar 09 14:23	10° H 36'31	
evening max ti	от4т оср 14 10.44	15 1161013	נננד נד	morning set	074/ WIAI 07 14.43	10 10001	

	8427 Mar 25 01:58	0°Υ		evening set	8429 Sep 06 21:49	0° ჲ 51'42	
	8427 Apr 17 23:01	%8 0°8		evening set	8429 Sep 08 09:32	0 <u>—</u> 31 7 2	
	012/11pi 1/ 25.01	ů O		min. Earth dist.	8429 Sep 11 20:39	27° m 52'51	0.28683 AU
superior conj	8427 Apr 19 09:13	1° 8 47'31	-1°25'03	inferior conj	8429 Sep 12 13:29	27° m) 26'34	
minimum elong	8427 Apr 19 03:24	1° 8 29'12		minimum elong	8429 Sep 12 03:31	27° mp 42'08	
max. Earth dist.	8427 Apr 18 19:32		1.71219 AU	morning rise	8429 Sep 17 09:36	24° m) 29'53	
	8427 May 11 19:34	$\Pi^{\circ}0$		direct	8429 Oct 03 21:26	19° m 18'18	
evening rise	8427 May 29 23:24	22° Ⅱ 47'05		greatest brilliancy	8429 Oct 13 17:41	21° Mp 03'04	-4.7m
	8427 Jun 04 17:44	0° ©			8429 Oct 30 04:53	0∘ ⊽	
asc. node	8427 Jun 23 17:54	23° 5 42'38		morning max el	8429 Nov 21 15:27	19° ≙ 06'05	45°42'35
	8427 Jun 28 19:23	$0^{\circ}\Omega$			8429 Dec 02 13:57	0° M	
	8427 Jul 23 02:05	O° m y		asc. node	8429 Dec 08 14:59	6° ™ 18'47	
	8427 Aug 16 15:44	0∘ ত			8429 Dec 30 03:51	0° ∡	
	8427 Sep 10 15:43	0° M ₊			8430 Jan 24 22:42	0°ಕ	
	8427 Oct 06 08:21	0°⊀			8430 Feb 18 20:54	0° ≈	
desc. node	8427 Oct 13 12:17	8° ₹ 09'28			8430 Mar 15 07:39	0° ∀	
	8427 Nov 02 06:34	0°₹		desc. node	8430 Mar 30 08:09	18°) 37′01	
evening max el	8427 Nov 25 21:03	24° る 10'35	45°54'27		8430 Apr 08 11:32	0° Υ	
	8427 Dec 02 02:12	0° ≈		_	8430 May 02 11:22	0° 8	
greatest brilliancy	8428 Jan 04 08:22	22° ≈ 47'04	-4.8m	morning set	8430 May 24 20:11	28° 8 02'50	
retrograde	8428 Jan 13 21:48	24°≈28'15			8430 May 26 09:33	0°Щ	
evening set	8428 Jan 28 12:56	20°≈19'03			8430 Jun 19 08:17	0	
inferior conj	8428 Feb 03 19:24	16°≈37'50	0°04'35		0.420 * 1 02 10 40	1.5000.510.1	0041122
minimum elong	8428 Feb 03 19:13	16°≈38'07	0°04'40	superior conj	8430 Jul 03 10:49	17°537'21	
transit middle	8428 Feb 03 19:13	16°≈38'07	0°04'40	minimum elong	8430 Jul 03 19:59	18°505'55	
transit begin	8428 Feb 03 15:19	16°≈44'08		max. Earth dist.	8430 Jul 06 16:19		1.72013 AU
transit end	8428 Feb 03 23:07	16°≈32'05		aga mada	8430 Jul 13 09:10 8430 Jul 21 05:47	0° Ω 9° Ω 46'32	
asc. node min. Earth dist.	8428 Feb 03 12:11 8428 Feb 04 06:56	16°≈48'58 16°≈20'00	0.27443 AU	asc. node	8430 Jul 21 05:47 8430 Aug 06 12:57	9°8746'32 0°M)	
morning rise	8428 Feb 10 00:43	10 ≈20 00 12°≈56'08	0.27443 AO	evening rise	8430 Aug 11 04:47	5° Mp 46'03	
direct	8428 Feb 24 17:19	8°≈39'16		evening rise	8430 Aug 30 20:02	0∘ ʊ	
greatest brilliancy	8428 Mar 06 11:19	10°≈48'31	-4.9m		8430 Sep 24 07:12	0° m	
greatest offinancy	8428 Apr 03 06:06	0° \	4.7111		8430 Oct 19 00:04	0° ⊼	
morning max el	8428 Apr 15 04:25	11°) 27'18	46°56'20	desc. node	8430 Nov 09 23:56	26° х 23′09	
morning man vi	8428 May 02 17:09	0°Υ	.0 2020	dese. node	8430 Nov 13 00:49	0°る	
desc. node	8428 May 25 06:42	25° Ƴ 35'42			8430 Dec 08 12:20	0° ≈	
	8428 May 29 01:21	0°8			8431 Jan 03 16:34	0° ∀	
	8428 Jun 23 07:47	Π°			8431 Jan 31 09:06	0° Y	
	8428 Jul 18 03:36	0ංම		evening max el	8431 Feb 06 08:52	6° Ƴ 03'56	46°39'46
	8428 Aug 11 19:12	$0^{\circ}\Omega$		asc. node	8431 Mar 02 23:41	27° Y 47'14	
	8428 Sep 05 08:49	o° m p			8431 Mar 06 03:32	9° 8	
asc. node	8428 Sep 15 04:17	12° m)00'17		greatest brilliancy	8431 Mar 18 17:55	6° 8 37'33	-4.9m
	8428 Sep 29 20:39	0∘ ⊽		retrograde	8431 Mar 28 14:54	8° 8 28'03	
morning set	8428 Oct 16 05:54	20° ≏ 07'40		evening set	8431 Apr 15 01:23	2° 8 35'31	
	8428 Oct 24 06:26	0° M ₊		inferior conj	8431 Apr 18 05:32	0° 8 39'46	
	8428 Nov 17 14:29	0° ∡ ¹		minimum elong	8431 Apr 17 23:43	0° 8 48'42	8°52'35
max. Earth dist.	8428 Nov 20 14:02	3° ∡ 140'47	1.73176 AU	min. Earth dist.	8431 Apr 18 00:19	0° 8 47'47	0.27074 AU
					8431 Apr 19 07:28	30° ₹ Υ	
superior conj	8428 Nov 21 18:34	5° ≯ 08'52		morning rise	8431 Apr 20 22:07	29° Y 01′27	
minimum elong	8428 Nov 22 00:26	5° ∡ 126'59	1°21'26	direct	8431 May 08 21:03	22° Y 52'26	
	8428 Dec 11 21:33	0°る		greatest brilliancy	8431 May 18 09:25	24° Y 35'54	-4.9m
evening rise	8428 Dec 29 04:58	21° る 23'33			8431 May 29 05:49	0°8	
desc. node	8429 Jan 04 21:28	29° る 39'36		desc. node	8431 Jun 22 18:28	20° 8 06'19	46044127
	8429 Jan 05 04:04	0° ≈		morning max el	8431 Jun 28 05:09	25° ႘ 25'55	46°44'37
	8429 Jan 29 09:58 8429 Feb 22 15:16	0° ℋ 0° Ƴ			8431 Jul 02 17:33 8431 Jul 30 10:22	0°€ 0°∏	
	8429 Mar 18 21:12	0°8			8431 Aug 25 13:19	0°Ω 0 €3	
	8429 Mai 18 21.12 8429 Apr 12 07:02	0°II			8431 Sep 20 00:25	0°Mp	
asc. node	8429 Apr 27 20:25	18° Ⅱ 53'35		asc. node	8431 Oct 13 16:42	رانا 28° الل 19'44	
ase. Hour	8429 May 07 02:37	0°9		asc. node	8431 Oct 15 10:42 8431 Oct 15 01:59	0° ⊽	
	8429 Jun 01 18:30	0° U			8431 Nov 08 20:04	0° m .	
	8429 Jun 29 08:32	0° m)			8431 Dec 03 08:05	0° ⊼	
evening max el	8429 Jul 03 06:10	3° m/ 55'42	46°21'26	morning set	8431 Dec 24 21:21	26° ∡ ³34'52	
<i>3</i>	8429 Aug 03 22:16	0∘ <mark>ಹ</mark>	-	5	8431 Dec 27 15:42	0°る	
greatest brilliancy	8429 Aug 11 00:19	3° £ 25'51	-4.8m		8432 Jan 20 20:16	0° ≈	
desc. node	8429 Aug 17 15:35	5° ≙ 18'43		max. Earth dist.	8432 Jan 29 03:27		1.72182 AU
retrograde	8429 Aug 22 02:39	5° ≏ 41'55					
-	~						

superior conj	8432 Feb 01 01:04	13° ≈ 55'52	0°03'19	min. Earth dist.	8434 Jun 30 15:20	14° © 57'22	0.27414 AU
minimum elong	8432 Feb 01 01:54	13°≈58'26	0°03'25	morning rise	8434 Jul 06 15:33	11°523'28	
behind sun begin	8432 Jan 31 01:46	12° ≈ 43′20		desc. node	8434 Jul 20 05:58	7° 5 06'41	
behind sun end	8432 Feb 02 02:01	15° ≈ 13'33		direct	8434 Jul 21 12:49	7° 5 04'44	
desc. node	8432 Feb 02 09:29	15° ≈ 36'46		greatest brilliancy	8434 Jul 31 08:41	8° 9 51'18	-4.8m
	8432 Feb 13 22:26	0°) €			8434 Aug 31 12:29	$0^{\circ}\Omega$	
	8432 Mar 08 22:30	$0^{\circ}\mathbf{\Upsilon}$		morning max el	8434 Sep 08 17:50	7° Ω 40'42	45°58'57
evening rise	8432 Mar 11 14:27	3° Y 20′11			8434 Sep 30 13:21	0° ™	
	8432 Apr 01 21:14	8° 0			8434 Oct 27 14:35	0∘ ⊽	
	8432 Apr 25 20:33	Π $^{\circ}0$		asc. node	8434 Nov 10 04:55	15° ≏ 40'35	
	8432 May 19 23:15	0°ಅ			8434 Nov 22 09:59	0° M	
asc. node	8432 May 25 08:03	6° ॐ 38′08			8434 Dec 17 11:57	0° ∡	
	8432 Jun 13 08:44	$0^{\circ}\Omega$			8435 Jan 11 02:48	0°ප	
	8432 Jul 08 05:25	O° m y			8435 Feb 04 10:29	0° ≈	
	8432 Aug 02 21:22	0∘ ⊽			8435 Feb 28 13:20	0° ∀	
	8432 Aug 30 04:33	0°M₊		desc. node	8435 Mar 01 21:46	1° ¥ 41′15	
evening max el	8432 Sep 12 01:59	12°M59'21	45°44'28	morning set	8435 Mar 07 02:17	8° ¥ 10′10	
desc. node	8432 Sep 14 03:01	14°M56'44			8435 Mar 24 12:39	0° Ƴ	
	8432 Oct 01 13:13	0°⊀		max. Earth dist.	8435 Apr 16 00:14	28° Y 14'45	1.71231 AU
greatest brilliancy	8432 Oct 20 23:01	11° ≯ 12'03	-4.7m				
retrograde	8432 Oct 30 21:31	12° ≯ 58'39		superior conj	8435 Apr 16 20:32	29° Y 18'33	
evening set	8432 Nov 17 21:20	6° ₹ 54'34		minimum elong	8435 Apr 16 13:46	28° Y 57'16	1°23'59
inferior conj	8432 Nov 21 08:11	4° ∡ ¹45'57 −			8435 Apr 17 09:43	0°8	
minimum elong	8432 Nov 21 14:13	4° ₹ 36′26			8435 May 11 06:20	0°П	
min. Earth dist.	8432 Nov 21 19:40	4° ₹ 27'52	0.28984 AU	evening rise	8435 May 27 10:32	20° ∏ 17'47	
morning rise	8432 Nov 25 07:02	2° ₹ 19'10			8435 Jun 04 04:34	0°®	
	8432 Nov 29 11:11	30°RM		asc. node	8435 Jun 22 19:45	23°5514'31	
direct	8432 Dec 12 21:04	26°M28'21	4.0		8435 Jun 28 06:19	$\Omega^{\circ}\Omega$	
greatest brilliancy	8432 Dec 23 17:02	28°M37'24	-4.8m		8435 Jul 22 13:12	0° m	
1	8432 Dec 26 22:39	0° ∡ 7			8435 Aug 16 03:14	0∘ 亚	
asc. node	8433 Jan 05 02:31	5° ₹ 17'59	46015106		8435 Sep 10 03:57	0°M√	
morning max el	8433 Jan 31 14:00	28° メ 01'27 0°る	46°15'06	JJ.	8435 Oct 05 22:00	0° 🔏 7° -₹2.5100	
	8433 Feb 02 13:28 8433 Mar 02 09:09	0° ≈		desc. node	8435 Oct 12 14:20 8435 Nov 01 23:18	7° メ 35'09 0° る	
	8433 Mar 28 03:27	0 ≈ 0° ∀		evening max el	8435 Nov 01 23.18 8435 Nov 23 10:51	0 る 21° る 53'45	45°53'24
	8433 Apr 22 00:37	0 Υ 0° Υ		evening max ei	8435 Dec 02 04:56	21 O 33 43 0° ≈	43 33 24
desc. node	8433 Apr 26 20:29	5°Υ53'46		greatest brilliancy	8436 Jan 01 22:09	0 ∞ 20°≈28'21	-4.8m
dese. Hode	8433 May 16 11:04	0° 8		retrograde	8436 Jan 11 11:43	20 ≈2021 22°≈09'40	- 4 .0m
	8433 Jun 09 16:23	0°II		evening set	8436 Jan 26 03:43	17°≈58'29	
	8433 Jul 03 20:14	0°©		inferior conj	8436 Feb 01 09:23	14°≈18'30	-0°18'19
	8433 Jul 28 00:47	$0^{\circ}\Omega$		minimum elong	8436 Feb 01 10:04	14°≈17'25	
morning set	8433 Aug 05 14:41	10° Ω 37'30		min. Earth dist.	8436 Feb 01 21:51	13° ≈ 59'17	0.27486 AU
asc. node	8433 Aug 17 17:56	25° Ω 38'11		asc. node	8436 Feb 02 14:13	13° ≈ 34'03	0.27 .00
	8433 Aug 21 06:38	0° m)		morning rise	8436 Feb 07 15:39	10° ≈ 35'43	
				direct	8436 Feb 22 07:40	6° ≈ 19'00	
superior conj	8433 Sep 12 08:33	27° Mp 16'32	0°56'45	greatest brilliancy	8436 Mar 04 03:02	8° ≈ 29'51	-4.9m
minimum elong	8433 Sep 11 23:06	26° m 47'22	0°56'23	,	8436 Apr 03 09:35	0°) €	
max. Earth dist.	8433 Sep 13 16:59	28° M 56'36	1.73122 AU	morning max el	8436 Apr 12 19:25	9° ∺ 08'22	46°55'45
	8433 Sep 14 13:32	0∘ ⊽		•	8436 May 02 10:27	0° Y	
	8433 Oct 08 21:22	0°M		desc. node	8436 May 24 08:39	24° Y ′58'58	
evening rise	8433 Oct 18 20:07	12°M14'53			8436 May 28 15:35	0° ႘	
	8433 Nov 02 06:40	0° ∡ ¹			8436 Jun 22 20:35	Π $^{\circ}0$	
	8433 Nov 26 18:16	ರ°0			8436 Jul 17 15:36	0 \circ \odot	
desc. node	8433 Dec 07 11:32	13° る 05'27			8436 Aug 11 06:39	0 $^{\circ}\Omega$	
	8433 Dec 21 08:36	0° ≈			8436 Sep 04 19:53	0° m	
	8434 Jan 15 01:46	0° ℋ		asc. node	8436 Sep 14 06:22	11° m 33'07	
	8434 Feb 08 23:02	$0^{\circ}\mathbf{\Upsilon}$			8436 Sep 29 07:26	0∘ ⊽	
	8434 Mar 06 05:34	0°8		morning set	8436 Oct 13 22:54	17° ≏ 59'24	
asc. node	8434 Mar 30 10:58	27° 8 45'10			8436 Oct 23 17:05	0° M	
	8434 Apr 01 11:37	$\Pi^{\circ}0$			8436 Nov 17 01:07	0° ∡	
evening max el	8434 Apr 20 07:37	19° Ⅱ 59'53	46°58'26	max. Earth dist.	8436 Nov 18 11:08	1° ∡ ′44′59	1.73195 AU
	8434 Apr 30 15:17	0ಂತಾ					
greatest brilliancy	8434 May 30 13:00	20°553'16	-4.9m	superior conj	8436 Nov 19 11:38	3° ∡ ¹00'37	1°22'22
retrograde	8434 Jun 09 18:58	22° © 51'38		minimum elong	8436 Nov 19 16:54	3° ∡ 16'51	1°22'27
evening set	8434 Jun 25 13:20	18° © 00'47		_	8436 Dec 11 08:14	0° ろ	
inferior conj	8434 Jun 30 16:44	14° © 55'12	4°44'13	evening rise	8436 Dec 26 20:27	19° る 09'49	
minimum elong	8434 Jul 01 02:16	14°5940'28	40.4110.5	desc. node	8437 Jan 03 23:22	29° る 12'00	

	8437 Jan 04 14:54	0° ≈		morning max el	8439 Jun 25 18:10	23° 8 01'20	46°46'00
	8437 Jan 28 21:01	0 ≈ 0° ∀		morning max er	8439 Jul 02 14:30	23 Ο 01 20	40 40 00
	8437 Feb 22 02:36	0° Υ			8439 Jul 30 01:59	0°©	
	8437 Mar 18 08:55	0°8			8439 Aug 25 02:44	0°Ω	
	8437 Apr 11 19:20	0°II			8439 Sep 19 12:41	0°m)	
asc. node	8437 Apr 26 22:24	18° Ⅱ 20'54		asc. node	8439 Oct 12 18:35	27° Mp 50'24	
asc. node	8437 May 06 15:54	0°95		asc. node	8439 Oct 14 13:35	27 الله 30 2 4 0° Ω	
	8437 Jun 01 09:48	$0 {\circ} \Omega$			8439 Nov 08 07:15	0° m	
	8437 Jun 29 05:18	0° m			8439 Dec 02 19:04	0°× 7 1	
evening max el	8437 Jun 30 22:02	1° Mp 41'50	46°23'01	morning set	8439 Dec 22 13:34	24° × ⁷ 22'57	
evening man er	8437 Aug 05 20:01	0∘ ⊽	.0 25 01	morning sec	8439 Dec 27 02:35	0°る	
greatest brilliancy	8437 Aug 08 15:24	1° £ 12'19	-4.8m		8440 Jan 20 07:10	0° ≈	
desc. node	8437 Aug 16 17:40	3° ≏ 18′29		max. Earth dist.	8440 Jan 26 15:38	7°≈53'56	1.72226 AU
retrograde	8437 Aug 19 19:16	3° ₽ 29'32					
Ü	8437 Sep 02 01:21	30°R ₩		superior conj	8440 Jan 29 14:46	11° ≈ 35'10	0°06'58
evening set	8437 Sep 04 11:05	28° m/42'52		minimum elong	8440 Jan 29 16:28	11° ≈ 40′27	0°07'02
min. Earth dist.	8437 Sep 09 11:42	25° m/41'36	0.28640 AU	behind sun begin	8440 Jan 28 18:12	10° ≈ 31'10	
inferior conj	8437 Sep 10 05:08	25° m 14'26		behind sun end	8440 Jan 30 14:44	12° ≈ 49'45	
minimum elong	8437 Sep 09 19:18	25° m 29'45	5°28'47	desc. node	8440 Feb 01 11:30	15° ≈ 09'05	
morning rise	8437 Sep 15 03:59	22° m/ 14'11			8440 Feb 13 09:24	0° ∀	
direct	8437 Oct 01 13:05	17° Mp 06'50			8440 Mar 08 09:34	0° Υ	
greatest brilliancy	8437 Oct 11 08:07	18° m 51'01	-4.7m	evening rise	8440 Mar 09 02:37	0° Y 53'20	
	8437 Oct 30 19:54	0∘ ⊽		C	8440 Apr 01 08:27	0°8	
morning max el	8437 Nov 19 07:26	16° ≏ 55'48	45°42'12		8440 Apr 25 07:56	0°Щ	
	8437 Dec 02 08:31	0°M,			8440 May 19 10:54	0°©	
asc. node	8437 Dec 07 16:54	5°M37'51		asc. node	8440 May 24 09:55	6°≌07'44	
	8437 Dec 29 18:16	0° ∡ ¹			8440 Jun 12 20:49	$0^{\circ}\Omega$	
	8438 Jan 24 11:29	6°0			8440 Jul 07 18:17	0° m)	
	8438 Feb 18 08:52	0° ≈			8440 Aug 02 11:49	0∘ ত	
	8438 Mar 14 19:10	0° ∀			8440 Aug 29 23:02	0° M	
desc. node	8438 Mar 29 10:06	18°) 07'47		evening max el	8440 Sep 09 16:35	10° M ₊45'10	45°44'58
	8438 Apr 07 22:47	$0^{\circ}\mathbf{\Upsilon}$		desc. node	8440 Sep 13 05:00	14° M 06'18	
	8438 May 01 22:26	0°8			8440 Oct 02 03:44	0° ∡ ¹	
morning set	8438 May 22 08:06	25° 8 35'22		greatest brilliancy	8440 Oct 18 14:28	9° ∡ 01'41	-4.7m
	8438 May 25 20:29	$\Pi^{\circ}0$		retrograde	8440 Oct 28 12:41	10° ∡ ¹48'21	
	8438 Jun 18 19:07	0 \circ \odot		evening set	8440 Nov 15 14:55	4° ∡ ¹41'39	
				inferior conj	8440 Nov 19 00:18	2° ∡ ³35′10	-8°19'15
superior conj	8438 Jul 01 00:16	15° © 15'52	-0°44'47	minimum elong	8440 Nov 19 05:41	2° ∡ ¹26'41	8°18'39
minimum elong	8438 Jul 01 09:57	15° © 46'05	0°44'33	min. Earth dist.	8440 Nov 19 11:07	2° ∡ 18′07	0.29017 AU
max. Earth dist.	8438 Jul 04 08:01	19° © 24'40	1.71970 AU	morning rise	8440 Nov 22 20:20	0° ∡ 12'21	
	8438 Jul 12 19:56	$0^{\circ}\Omega$			8440 Nov 23 04:35	30°₽ML	
asc. node	8438 Jul 20 07:48	9° Ω 19'19		direct	8440 Dec 10 12:57	24° M ₊17'18	
	8438 Aug 05 23:45	0° m ∕		greatest brilliancy	8440 Dec 21 08:50	26°M25'31	-4.8m
evening rise	8438 Aug 08 20:42	3° My 33'24			8440 Dec 28 19:45	0° ∡ ¹	
	8438 Aug 30 06:57	0 ்⊽		asc. node	8441 Jan 04 04:35	4° ∡ °04'07	
	8438 Sep 23 18:20	0° M		morning max el	8441 Jan 29 04:13	25° ∡ ¹43'05	46°13'30
	8438 Oct 18 11:36	0°⊀			8441 Feb 02 10:22	0°₹	
desc. node	8438 Nov 09 01:47	25° ₹ 52'32			8441 Mar 02 00:42	0° ≈	
	8438 Nov 12 13:04	0°₹			8441 Mar 27 17:00	0° ∀	
	8438 Dec 08 01:49	0° ≈			8441 Apr 21 13:09	0°Υ 20	
	8439 Jan 03 08:23	0°) €		desc. node	8441 Apr 25 22:23	5° Y 21'36	
	8439 Jan 31 06:32	0° Υ			8441 May 15 23:01	0°8	
evening max el	8439 Feb 03 23:19	3° ℃ 43'01	46°38'12		8441 Jun 09 03:56	0°Щ	
asc. node	8439 Mar 02 01:45	26° Y 27′25			8441 Jul 03 07:31	0°©	
	8439 Mar 07 13:05	0° 8	4.0		8441 Jul 27 11:50	0° Ω	
greatest brilliancy	8439 Mar 16 06:31	4° 8 10'48	-4.9m	morning set	8441 Aug 03 06:10	8° Ω 22'52	
retrograde	8439 Mar 26 03:48	6° 8 01'00		asc. node	8441 Aug 16 19:59	25° Ω 10'51	
evening set	8439 Apr 12 10:03	0° 8 15'03			8441 Aug 20 17:30	0° m	
: <i>C</i> :	8439 Apr 12 20:09	30°RΥ	9947122		0441 0 10 01 27	0.50 m. 0.5150	0054112
inferior conj	8439 Apr 15 18:14	28° Y 13'06	8°46'22	superior conj	8441 Sep 10 01:37	25° Mp 07'50	0°54'13
minimum elong	8439 Apr 15 11:36	28° Y 23'18	8°45'38	minimum elong	8441 Sep 09 16:16	24° Mp 38'59	
min. Earth dist.	8439 Apr 15 12:39	28° Y 21'40	0.27063 AU	max. Earth dist.	8441 Sep 11 10:36	26° Mp 49'37	1.73095 AU
morning rise	8439 Apr 18 13:13	26° Y 31'01			8441 Sep 14 00:18	0∘ m 0∘ ⊽	
direct	8439 May 06 10:06	20° Y 26′04	4.0m-	arranici-	8441 Oct 08 08:09	0°M	
greatest brilliancy	8439 May 15 21:52	22° Y 08'54	-4.YIN	evening rise	8441 Oct 16 13:51	10°M08'26	
dana mada	8439 May 30 10:26	0° と 19° と 10'20			8441 Nov 01 17:36	0°る	
desc. node	8439 Jun 21 20:22	19 010/20			8441 Nov 26 05:30	0 0	

desc. node	8441 Dec 06 13:29	12° ♂ 36'44			8444 Aug 10 18:11	0°N	
dese. Hode	8441 Dec 20 20:15	0°≈			8444 Sep 04 07:02	0° m/y	
	8442 Jan 14 14:01	0° ∀		asc. node	8444 Sep 13 08:12	11° m 04'52	
	8442 Feb 08 12:11	$0^{\circ}\Upsilon$		use. Houe	8444 Sep 28 18:20	0∘ ರ	
	8442 Mar 05 20:15	0°8		morning set	8444 Oct 11 16:10	15° Ω 51'44	
asc. node	8442 Mar 29 12:55	27° 8 01'56		5 8 4 4	8444 Oct 23 03:50	0°M	
	8442 Apr 01 05:32	$\Pi^{\circ}0$			8444 Nov 16 11:49	0°⊀	
evening max el	8442 Apr 17 20:05	17° Ⅱ 32'59	46°58'51	max. Earth dist.	8444 Nov 16 08:36	29°M50'05	1.73209 AU
	8442 Apr 30 20:05	0°ಅ					
greatest brilliancy	8442 May 28 04:32	18° © 32'12	-4.9m	superior conj	8444 Nov 17 05:08	0° х 53′27	1°23'14
retrograde	8442 Jun 07 08:41	20° 5 29'24		minimum elong	8444 Nov 17 09:46	1° ∡ *07'44	1°23'21
evening set	8442 Jun 23 06:05	15° © 34'24			8444 Dec 10 18:59	℃ 0	
inferior conj	8442 Jun 28 06:27	12° © 33'28	5°04'02	evening rise	8444 Dec 24 12:24	16° る 57'21	
minimum elong	8442 Jun 28 16:24	12° © 18'05	5°01'11	desc. node	8445 Jan 03 01:27	28° る 44'49	
min. Earth dist.	8442 Jun 28 05:59	12° © 34'12	0.27391 AU		8445 Jan 04 01:48	0° ≈	
morning rise	8442 Jul 04 02:59	9° © 04'51			8445 Jan 28 08:09	0° ∀	
direct	8442 Jul 19 01:29	4°5643'02			8445 Feb 21 14:05	0° Υ	
desc. node	8442 Jul 19 08:06	4°9543'07			8445 Mar 17 20:51	0°B	
greatest brilliancy	8442 Jul 28 22:42	6°930'36	-4.8m		8445 Apr 11 07:53	0°II	
	8442 Aug 31 15:15	0° Ω		asc. node	8445 Apr 26 00:16	17° Ⅱ 47'05	
morning max el	8442 Sep 06 08:01	5° Ω 22'59	46°00'30		8445 May 06 05:31	0° ©	
	8442 Sep 30 06:21	0° Mp			8445 Jun 01 01:34	0°N	16024147
1	8442 Oct 27 04:26	0° Ω		evening max el	8445 Jun 28 14:27	29° Ω 28'50	46°24'47
asc. node	8442 Nov 09 06:51 8442 Nov 21 22:24	15° ≏ 08'17 0° ™		arrantant brillianass	8445 Jun 29 03:00	0° Mp 28° Mp 59'15	-4.8m
	8442 Dec 16 23:39	0° ⊼ 7		greatest brilliancy	8445 Aug 06 07:01	0° ت 29 الأ	-4.0111
	8443 Jan 10 14:09	0°궁		desc. node	8445 Aug 09 05:24 8445 Aug 15 19:37	0 <u>≈</u> 1° Ω 13'34	
	8443 Feb 03 21:40	0°≈		retrograde	8445 Aug 17 11:46	1° ⊆ 15'54	
	8443 Feb 28 00:26	0° ∺		retrograde	8445 Aug 25 10:28	30°RM)	
desc. node	8443 Feb 28 23:44	1°) 12'42		evening set	8445 Sep 02 00:37	26° m 33'52	
morning set	8443 Mar 04 13:56	5°) (41'53		min. Earth dist.	8445 Sep 07 02:52		0.28590 AU
morning sec	8443 Mar 23 23:43	0°Υ		inferior conj	8445 Sep 07 20:48	23° m 02'13	
max. Earth dist.	8443 Apr 13 07:07		1.71241 AU	minimum elong	8445 Sep 07 11:10	23° m 17'15	
	1			morning rise	8445 Sep 12 22:17	19° m 58'25	
superior conj	8443 Apr 14 07:24	26° Ƴ 47'00	-1°22'46	direct	8445 Sep 29 04:56	14° m 55'33	
minimum elong	8443 Apr 13 23:44	26° Y 22'54	1°22'43	greatest brilliancy	8445 Oct 08 22:13	16° m 38'33	-4.7m
	8443 Apr 16 20:47	9° 8			8445 Oct 31 06:58	0∘ ⊽	
	8443 May 10 17:24	$\Pi^{\circ}0$		morning max el	8445 Nov 16 23:09	14° ≙ 45'07	45°41'54
evening rise	8443 May 24 21:25	17° Ⅱ 46'49			8445 Dec 02 02:31	0° M	
	8443 Jun 03 15:40	0 \circ \odot		asc. node	8445 Dec 06 18:53	4°M57'46	
asc. node	8443 Jun 21 21:48	22° 5 46'11			8445 Dec 29 08:25	0°⊀	
	8443 Jun 27 17:31	$0^{\circ}\Omega$			8446 Jan 24 00:03	0° ප	
	8443 Jul 22 00:36	0° m			8446 Feb 17 20:40	0° ≈	
	8443 Aug 15 15:02	0∘ ত			8446 Mar 14 06:35	0° ∀	
	8443 Sep 09 16:28	0° M		desc. node	8446 Mar 28 11:59	17°) € 38'36	
	8443 Oct 05 11:58	0° ∡ 7			8446 Apr 07 09:59	0° Υ	
desc. node	8443 Oct 11 16:15	6° ₹ 59'43		. ,	8446 May 01 09:30	0°8	
avanina may al	8443 Nov 01 16:33	0°る 19°る38'59	45952121	morning set	8446 May 19 19:33	23° ႘ 06'21	
evening max el	8443 Nov 21 01:33 8443 Dec 02 09:32	0°≈	+3 3441		8446 May 25 07:26 8446 Jun 18 05:58	0°© 0°∏	
greatest brilliancy	8443 Dec 30 11:24	0 ≈ 18° ≈ 09'00	-4.8m		8440 Juli 18 05.58	0 3	
retrograde	8444 Jan 09 01:52	18 ≈09 00 19°≈50'44	7.0111	superior conj	8446 Jun 28 13:07	12° © 52'19	-0°47'59
evening set	8444 Jan 23 18:47	15°≈37'28		minimum elong	8446 Jun 28 23:17		0°47'45
inferior conj	8444 Jan 29 23:23	11°≈58'41	-0°41'06	max. Earth dist.	8446 Jul 01 22:54	17° 5 07'34	1.71923 AU
minimum elong	8444 Jan 30 00:57	11°≈56'16		man Barur dige.	8446 Jul 12 06:43	0° Ω	1., 1, 25 110
min. Earth dist.	8444 Jan 30 12:28	11° ≈ 38'31		asc. node	8446 Jul 19 09:47	8° Ω 52'02	
asc. node	8444 Feb 01 16:15	10° ≈ 19'22			8446 Aug 05 10:32	0° mp	
morning rise	8444 Feb 05 06:26	8° ≈ 15'05		evening rise	8446 Aug 06 12:02	1° mp 18′57	
direct	8444 Feb 19 22:39	3° ≈ 58′20			8446 Aug 29 17:48	0∘ ⊽	
greatest brilliancy	8444 Mar 01 18:23	6° ≈ 10'01	-4.9m		8446 Sep 23 05:24	0° M	
	8444 Apr 03 11:58	0° ∀			8446 Oct 17 23:04	0° ∡ ¹	
morning max el	8444 Apr 10 11:09	6° ∺ 50′20	46°54'56	desc. node	8446 Nov 08 03:48	25° ₹ 22'41	
	8444 May 02 03:47	$0^{\circ}\Upsilon$			8446 Nov 12 01:15	0°ರ	
desc. node	8444 May 23 10:36	24° Y 21′27			8446 Dec 07 15:15	0° ≈	
	8444 May 28 06:00	0°8			8447 Jan 03 00:12	0° ∀	
	8444 Jun 22 09:35	0° Ⅱ			8447 Jan 31 04:26	0°Υ 1° 9 °21147	46026125
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8449 Apr 21 01:12 0°Υ 8451 Dec 02 15:49 0°≈ desc. node 8449 Apr 25 00:22 4°Υ51'07 greatest brilliancy 8451 Dec 28 00:52 15°≈51'01 -4.8m 8449 May 15 10:29 0°∀ retrograde 8452 Jan 06 15:58 17°≈32'46					evening may al			15051117
desc. node 8449 Apr 25 00:22 4°γ′51′07 greatest brilliancy 8451 Dec 28 00:52 15°≈51′01 -4.8m 8449 May 15 10:29 0°8 retrograde 8452 Jan 06 15:58 17°≈32′46					evening max el			70 J11/
8449 May 15 10:29 0°8 retrograde 8452 Jan 06 15:58 17°≈32'46	desc rodo	•			grantost brillians			1 8m
	uesc. noue	•			-			-4 .0111
6449 Juli U6 13.U2 U ⊥ evening set 8432 Jan 21 1U:U/ 13°≈1/′36					-			
		0449 JUN US 15:U2	υщ		evening set	0432 Jan 21 10:0/	13 🗪1/36	

inferior conj	8452 Jan 27 13:27	9° ≈ 40'04	-1°03'37	asc. node	8454 Jul 18 11:39	8° Ω 24'34	
minimum elong	8452 Jan 27 15:52	9° ≈ 36'21	1°02'43	evening rise	8454 Aug 04 03:17	29° Ω 04'19	
min. Earth dist.	8452 Jan 28 03:02	9° ≈ 19'07	0.27584 AU		8454 Aug 04 21:16	0° ™	
asc. node	8452 Jan 31 18:07	7° ≈ 07'30			8454 Aug 29 04:37	0∘ ত	
morning rise	8452 Feb 02 21:00	5° ≈ 55'47			8454 Sep 22 16:25	0°M₊	
direct	8452 Feb 17 13:55	1° ≈ 39'10			8454 Oct 17 10:30	0° ∡	
greatest brilliancy	8452 Feb 28 09:19	3°≈50'57	-4.9m	desc. node	8454 Nov 07 05:52	24° ₹ 53'03	
	8452 Apr 03 12:29	0° ∀			8454 Nov 11 13:27	0°る	
morning max el	8452 Apr 08 02:21	4° ₩ 32'18	46°53'57		8454 Dec 07 04:48	0° ≈	
	8452 May 01 20:22	$0^{\circ}\mathbf{\Upsilon}$			8455 Jan 02 16:23	0° ∀	
desc. node	8452 May 22 12:38	23° Y 45'40		evening max el	8455 Jan 30 02:13	28° ¥ 57'46	46°34'53
	8452 May 27 19:54	0°8			8455 Jan 31 03:25	0° Y	
	8452 Jun 21 22:09	$\Pi^{\circ}0$		asc. node	8455 Feb 28 05:40	23° Y 40'51	
	8452 Jul 16 15:28	0		greatest brilliancy	8455 Mar 11 09:04	29° Ƴ 20'31	-4.9m
	8452 Aug 10 05:22	$0^{\circ}\Omega$			8455 Mar 13 10:10	8° 0	
	8452 Sep 03 17:49	O° My		retrograde	8455 Mar 21 04:25	1° 8 09'05	
asc. node	8452 Sep 12 10:10	10° m 38'07			8455 Mar 28 16:49	30° ŖƳ	
	8452 Sep 28 04:54	0∘ ত		evening set	8455 Apr 07 03:00	25° Ƴ 37'04	
morning set	8452 Oct 09 09:31	13° ≏ 45'17		inferior conj	8455 Apr 10 19:57	23° Y 22'07	8°29'36
	8452 Oct 22 14:17	0° M.		minimum elong	8455 Apr 10 11:48	23° Y 34'39	8°28'31
max. Earth dist.	8452 Nov 14 04:32	27°M51'16	1.73226 AU	min. Earth dist.	8455 Apr 10 14:39	23° Y 30'16	0.27051 AU
				morning rise	8455 Apr 13 20:38	21° Y 31'10	
superior conj	8452 Nov 14 22:38	28°M47'05	1°23'59	direct	8455 May 01 11:07	15° Ƴ 34'57	
minimum elong	8452 Nov 15 02:37	28°M59'21	1°24'07	greatest brilliancy	8455 May 11 01:07	17° Ƴ 18'52	-4.9m
	8452 Nov 15 22:16	0° ∡ ¹			8455 May 31 22:20	0°8	
	8452 Dec 10 05:32	6°0		desc. node	8455 Jun 20 00:27	17° 8 22'57	
evening rise	8452 Dec 22 04:09	14° る 44'55		morning max el	8455 Jun 20 18:42	18° 8 08'29	46°48'22
desc. node	8453 Jan 02 03:22	28° る 17'42		Ü	8455 Jul 02 06:14	0° Ⅱ	
	8453 Jan 03 12:30	0° ≈			8455 Jul 29 08:26	0°ಅ	
	8453 Jan 27 19:06	0°) €			8455 Aug 24 05:09	$0^{\circ}\Omega$	
	8453 Feb 21 01:21	o°Υ			8455 Sep 18 12:52	0° m)	
	8453 Mar 17 08:32	0°8		asc. node	8455 Oct 10 22:34	26° m 53'26	
	8453 Apr 10 20:14	0°П			8455 Oct 13 12:22	0∘ ⊽	
asc. node	8453 Apr 25 02:21	17° Ⅱ 14'26			8455 Nov 07 05:12	0°M	
use. noue	8453 May 05 19:00	0ಂತ			8455 Dec 01 16:33	0° ⊼ 7	
	8453 May 31 17:21	$0^{\circ}\Omega$		morning set	8455 Dec 17 22:36	20° ₹ 02'24	
evening max el	8453 Jun 26 06:41	27° Ω 15'47	46°26'25	morning sec	8455 Dec 25 23:55	0°る	
evening man er	8453 Jun 29 01:21	0°m	.0 2020		8456 Jan 19 04:33	0° ≈	
greatest brilliancy	8453 Aug 03 23:18	26° Mp 47'21	-4 8m	max. Earth dist.	8456 Jan 21 20:29		1.72316 AU
desc. node	8453 Aug 14 21:34	29° m 04'23		man. Darun diot.	0.000000	3 10 10 11	1.,2010110
retrograde	8453 Aug 15 03:49	29° Mp 04'28		superior conj	8456 Jan 24 19:13	6° ≈ 58'34	0°14'07
evening set	8453 Aug 30 14:17	24° m/ 25'11		minimum elong	8456 Jan 24 22:35	7° ≈ 09'01	0°14'07
min. Earth dist.	8453 Sep 04 18:21	21° Mp 18'46	0.28539 AU	behind sun begin	8456 Jan 24 10:46	6°≈32'16	0 1407
inferior conj	8453 Sep 05 12:25	20° m 50'32		behind sun end	8456 Jan 25 10:25	7° ≈ 45'47	
minimum elong	8453 Sep 05 03:02	21° m 05'11		desc. node	8456 Jan 30 15:23	14°≈14'28	
morning rise	8453 Sep 10 16:26	17° m 43'03	. 5015	door. node	8456 Feb 12 06:57	0° ∀	
direct	8453 Sep 26 20:33	12° m 44'51		evening rise	8456 Mar 04 04:02	26°) €04'37	
greatest brilliancy	8453 Oct 06 12:30	14° m/ 26'43	-4 7m	evening rise	8456 Mar 07 07:19	0°Υ	
greatest stimume)	8453 Oct 31 14:47	0∘ ʊ	,		8456 Mar 31 06:27	0°8	
morning max el	8453 Nov 14 13:52	12° ≏ 32'35	45°41'35		8456 Apr 24 06:20	0°II	
morning max or	8453 Dec 01 19:55	0°M	10 11 55		8456 May 18 09:55	0°©	
asc. node	8453 Dec 05 20:55	4°M18'45		asc. node	8456 May 22 13:56	5° 5 08'46	
ase. Houe	8453 Dec 28 22:19	0°×7		ase. Houe	8456 Jun 11 20:49	0° Ω	
	8454 Jan 23 12:30	°5			8456 Jul 06 20:00	0° m)	
	8454 Feb 17 08:24	0°≈			8456 Aug 01 17:03	0° ت سائر	
	8454 Mar 13 17:56	0° ∀			8456 Aug 29 13:24	0° m .	
desc. node	8454 Mar 27 14:04	17°) 10'16		evening max el	8456 Sep 04 21:14	6°M15'52	45°46'31
acse. Houc	8454 Apr 06 21:06	0° Υ		desc. node	8456 Sep 11 09:01	12°M23'06	15 70 51
	8454 Apr 30 20:27	0°8		acse. Houc	8456 Oct 04 01:37	0° √	
morning set	8454 May 17 06:48	20° 8 37'06		greatest brilliancy	8456 Oct 13 20:11	0 x . 4° x 40'34	-4.7m
morning set	8454 May 24 18:15	0° Ⅱ		retrograde	8456 Oct 23 20:03	6° ₹ 29'39	-4 ./III
	8454 Jun 17 16:43	0°9		•		0° × '29'39 0° × '18'10	
	0434 Jun 1 / 10:43	0.50		evening set	8456 Nov 11 01:22		
superior coni	8454 Jun 26 01:57	1000220155	0051106	infarior coni	8456 Nov 11 13:19	30°RM 28°M 15'14	Q070112
superior conj	8454 Jun 26 01:57	10°928'55		inferior conj	8456 Nov 14 08:37	28°M15'14	
minimum elong max. Earth dist.	8454 Jun 26 12:30 8454 Jun 29 13:00	11°501'53	1.71878 AU	minimum elong min. Earth dist.	8456 Nov 14 12:36 8456 Nov 14 17:46	28°M08'59 28°M00'51	8°27'54 0.29072 AU
max. Batul ülst.	04.14.11111 // 15.00	14 2948 14	1./10/0 AU	mm. natui dist.	042U NUV 14 17:40	∠o 1160031	ひ. ムラロノム AU
	8454 Jul 11 17:27	0°N		morning rise	8456 Nov 17 23:42	26°M00'01	

direct	8456 Dec 05 20:32	19° M 56'40			8459 Jun 26 15:34	$0^{\circ}\Omega$	
greatest brilliancy	8456 Dec 16 16:58	22°M04'46	-4 8m		8459 Jul 20 23:06	0° m)	
greatest orimaney	8456 Dec 30 23:18	0° √	1.0111		8459 Aug 14 14:22	0° ت	
asc. node	8457 Jan 02 08:28	1° ∡ 743'51			8459 Sep 08 17:26	0°M	
morning max el	8457 Jan 24 10:30	21° × 13'14	46°10'30		8459 Oct 04 16:06	0° ⊼ ¹	
5 5	8457 Feb 02 01:34	0°₹		desc. node	8459 Oct 09 20:18	5° ∡ 149'12	
	8457 Mar 01 06:35	0° ≈			8459 Nov 01 04:03	8°0	
	8457 Mar 26 19:15	0° ∺		evening max el	8459 Nov 16 08:36	15° ප 14'00	45°50'14
	8457 Apr 20 13:33	0 ° Υ		•	8459 Dec 03 01:10	0° ≈	
desc. node	8457 Apr 24 02:23	4° Ƴ 19'45		greatest brilliancy	8459 Dec 25 14:53	13° ≈ 32'51	-4.8m
	8457 May 14 22:18	0°8		retrograde	8460 Jan 04 05:46	15° ≈ 13'56	
	8457 Jun 08 02:30	Π $^{\circ}0$		evening set	8460 Jan 19 01:44	10° ≈ 56'53	
	8457 Jul 02 05:33	0°छ		inferior conj	8460 Jan 25 03:37	7° ≈ 20'47	-1°25'56
	8457 Jul 26 09:29	0 $^{\circ}\Omega$		minimum elong	8460 Jan 25 06:52	7° ≈ 15'46	1°24'46
morning set	8457 Jul 29 12:33	3° Ω 52'42		min. Earth dist.	8460 Jan 25 17:51	6° ≈ 58'47	0.27630 AU
asc. node	8457 Aug 14 23:48	24° Ω 16′32		asc. node	8460 Jan 30 20:11	3° ≈ 56'45	
	8457 Aug 19 14:52	0° m)		morning rise	8460 Jan 31 11:24	3° ≈ 35'52	
					8460 Feb 09 10:57	30°Ŗ₹	
superior conj	8457 Sep 05 11:00	20° m 48'55		direct	8460 Feb 15 05:03	29° る 19'24	
minimum elong	8457 Sep 05 02:02	20° Tp 21'13	0°48'27		8460 Feb 21 02:20	0° ≈	
max. Earth dist.	8457 Sep 06 20:55	22° m 33'39	1.73048 AU	greatest brilliancy	8460 Feb 26 00:22	1° ≈ 31'02	-4.9m
	8457 Sep 12 21:32	0∘ ⊽			8460 Apr 03 12:16	0° ∀	
	8457 Oct 07 05:26	0°M		morning max el	8460 Apr 05 16:42	2°) (11'08	46°53'04
evening rise	8457 Oct 12 00:56	5°M55'27			8460 May 01 12:57	0°Υ 222 0 02254	
	8457 Oct 31 15:10	0° ⊼		desc. node	8460 May 21 14:34	23° Y ′08'54	
	8457 Nov 25 03:35	0°る			8460 May 27 09:57	8°0	
desc. node	8457 Dec 04 17:26	11°る40'43 0°≈			8460 Jun 21 10:57	0° © 0°∏	
	8457 Dec 19 19:09 8458 Jan 13 14:07	0° ∺			8460 Jul 16 03:30	0°€0	
	8458 Feb 07 14:12	0 χ 0° Υ			8460 Aug 09 16:55 8460 Sep 03 05:01	0°Mp	
	8458 Mar 05 01:36	0° 8		asc. node	8460 Sep 11 12:14	0 iyi 10°Mo 10'26	
asc. node	8458 Mar 27 16:56	25° 8 35'49		asc. Houc	8460 Sep 27 15:51	10 m/10 20 0° Ω	
asc. Houc	8458 Mar 31 18:08	23 Ο 33 4 9		morning set	8460 Oct 07 02:41	0 = 11° ⊆ 37'02	
evening max el	8458 Apr 12 23:30	12° ∏ 47'10	46°59'30	morning set	8460 Oct 22 01:07	0°M	
evening max er	8458 May 01 11:37	0°95	40 37 30	max. Earth dist.	8460 Nov 11 23:07		1.73237 AU
greatest brilliancy	8458 May 23 09:41	13° 5 49'09	-4.9m	man. Darin dist.	0.001.07 11 25.07	20 110	1.75257110
retrograde	8458 Jun 02 13:15	15° © 46'12		superior conj	8460 Nov 12 16:04	26°M39'33	1°24'38
•				1 3			
evening set	8458 Jun 18 15:45	10°9542'00		minimum elong	8460 Nov 12 19:22	26°M49'44	1°24'46
evening set inferior conj	8458 Jun 18 15:45 8458 Jun 23 09:45	10°\$42'00 7°\$50'44	5°41'57	minimum elong	8460 Nov 12 19:22 8460 Nov 15 09:03	26° ™ 49'44 0° <i>⊀</i>	1°24'46
•				minimum elong			1°24'46
inferior conj	8458 Jun 23 09:45	7° © 50'44		minimum elong	8460 Nov 15 09:03	0° ₹	1°24'46
inferior conj minimum elong	8458 Jun 23 09:45 8458 Jun 23 20:21	7°\$50'44 7°\$34'25	5°39'07	C	8460 Nov 15 09:03 8460 Dec 09 16:23	ರ°0 ರ°0	1°24'46
inferior conj minimum elong min. Earth dist.	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07	7°950'44 7°934'25 7°950'10	5°39'07	evening rise	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56	0°ダ 0°쥥 12°쥥31'37	1°24'46
inferior conj minimum elong min. Earth dist. morning rise	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10	7°950'44 7°934'25 7°950'10 4°929'48	5°39'07	evening rise	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17	0°♂ 0°♂ 12°♂31'37 27°♂49'34 0°≈ 0°∺	1°24'46
inferior conj minimum elong min. Earth dist. morning rise direct	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10 8458 Jul 14 04:10	7°\$50'44 7°\$34'25 7°\$50'10 4°\$29'48 0°\$00'27	5°39'07	evening rise	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17 8461 Jan 02 23:32	0°♂ 0°♂ 12°♂31'37 27°♂49'34 0°≈	1°24'46
inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10 8458 Jul 14 04:10 8458 Jul 17 11:57 8458 Jul 24 01:22 8458 Aug 31 16:10	7°\$50'44 7°\$34'25 7°\$50'10 4°\$29'48 0°\$00'27 0°\$13'24 1°\$48'58 0°\$	5°39'07 0.27353 AU -4.8m	evening rise	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17 8461 Jan 02 23:32 8461 Jan 27 06:24	0°♂ 0°♂ 12°♂31'37 27°♂49'34 0°≈ 0°升 0°介 0°℃	1°24'46
inferior conj minimum elong min. Earth dist. morning rise direct desc. node	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10 8458 Jul 14 04:10 8458 Jul 17 11:57 8458 Jul 24 01:22 8458 Aug 31 16:10 8458 Sep 01 14:30	7°\$50'44 7°\$34'25 7°\$50'10 4°\$29'48 0°\$00'27 0°\$13'24 1°\$48'58 0°\$0{0}\$\$0'0\$\$0'0{0}\$\$0'0\$\$0'0\$\$0'0\$\$0'0\$\$0'0\$\$0'0\$\$0'0\$\$0'0\$\$0'0\$\$0'0\$\$0'0\$\$0'0\$\$0'0\$\$0'0\$\$0'0\$\$0'0\$\$0'0\$\$0'0\$\$0'\textsupe	5°39'07 0.27353 AU -4.8m	evening rise	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17 8461 Jan 02 23:32 8461 Jan 27 06:24 8461 Feb 20 12:58 8461 Mar 16 20:35 8461 Apr 10 08:55	0°♂ 0°♂ 12°♂31'37 27°♂49'34 0°≈ 0°升 0°升 0°℃	1°24'46
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10 8458 Jul 14 04:10 8458 Jul 17 11:57 8458 Jul 24 01:22 8458 Aug 31 16:10 8458 Sep 01 14:30 8458 Sep 29 14:57	7°\$50'44 7°\$34'25 7°\$50'10 4°\$29'48 0°\$00'27 0°\$13'24 1°\$48'58 0°\$\Omega\$0'\Omega\$0'\Omega\$148 0°\$\Omega\$0'\Omega\$148	5°39'07 0.27353 AU -4.8m	evening rise	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17 8461 Jan 02 23:32 8461 Jan 27 06:24 8461 Feb 20 12:58 8461 Mar 16 20:35 8461 Apr 10 08:55 8461 Apr 24 04:19	0°♂ 0°♂ 12°♂31'37 27°♂49'34 0°≈ 0°भ 0°भ 0°भ 0°Ы 16° \$\textbf{I}\$40'30	1°24'46
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10 8458 Jul 14 04:10 8458 Jul 17 11:57 8458 Jul 24 01:22 8458 Aug 31 16:10 8458 Sep 01 14:30 8458 Sep 29 14:57 8458 Oct 26 07:27	7°\$50'44 7°\$34'25 7°\$50'10 4°\$29'48 0°\$00'27 0°\$13'24 1°\$48'58 0°\$\Omega\$00\text{0}\$0	5°39'07 0.27353 AU -4.8m	evening rise desc. node	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17 8461 Jan 02 23:32 8461 Jan 27 06:24 8461 Feb 20 12:58 8461 Mar 16 20:35 8461 Apr 10 08:55 8461 Apr 24 04:19 8461 May 05 08:50	0°♂ 0°♂ 12°♂31'37 27°♂49'34 0°≈ 0°升 0°升 0°℃ 0°Ⅱ 16°Ⅱ40'30 0°©	1°24'46
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10 8458 Jul 14 04:10 8458 Jul 17 11:57 8458 Jul 24 01:22 8458 Aug 31 16:10 8458 Sep 01 14:30 8458 Sep 29 14:57 8458 Oct 26 07:27 8458 Nov 07 10:48	7°\$50'44 7°\$34'25 7°\$50'10 4°\$29'48 0°\$00'27 0°\$13'24 1°\$48'58 0°\$\Omega\$00\text{0}\$0\text{0}\$0\text{0}\$ 0°\$\Omega\$53'48 0°\$\Omega\$0\text{0}\$\Omega\$14'\$\text{0}\$\text{0}\$51'10	5°39'07 0.27353 AU -4.8m	evening rise desc. node	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17 8461 Jan 02 23:32 8461 Jan 27 06:24 8461 Feb 20 12:58 8461 Mar 16 20:35 8461 Apr 10 08:55 8461 Apr 24 04:19 8461 May 05 08:50 8461 May 31 09:39	0°\$\frac{7}{0}\text{o"}\frac{7}{0}\text{o"}\frac{7}{0}\text{o"}\frac{7}{0}\text{o"}\frac{7}{0}\text{o"}\frac{7}{0}\text{o"}\frac{7}{0}\text{o"}\frac{7}{0}\text{o"}\frac{1}{0}\text{o"}\f	
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10 8458 Jul 14 04:10 8458 Jul 17 11:57 8458 Jul 24 01:22 8458 Aug 31 16:10 8458 Sep 01 14:30 8458 Sep 29 14:57 8458 Oct 26 07:27 8458 Nov 07 10:48 8458 Nov 20 22:47	7°\$50'44 7°\$34'25 7°\$50'10 4°\$29'48 0°\$00'27 0°\$13'24 1°\$48'58 0°\$0 0°\$\Omega_53'48 0°\$\Omega_14\cdots_05'10 0°\$\Underset{\textit{L}}	5°39'07 0.27353 AU -4.8m	evening rise desc. node	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17 8461 Jan 02 23:32 8461 Jan 27 06:24 8461 Feb 20 12:58 8461 Mar 16 20:35 8461 Apr 10 08:55 8461 Apr 24 04:19 8461 May 05 08:50 8461 May 31 09:39 8461 Jun 23 22:03	0°\$\frac{1}{2}\cdot \frac{3}{3}\cdot \frac{1}{3}\cdot \frac{3}{3}\cdot \frac{1}{3}\cdot \frac{3}{3}\cdot \frac{1}{3}\cdot \frac{3}{4}\cdot \frac{3}{4}\cdot \frac{1}{3}\cdot \frac{1}{4}\cdot \frac{3}{4}\cdot \frac{1}{4}\cdot \frac{3}{4}\cdot \frac{1}{4}\cdot \frac{3}{4}\cdot \frac{1}{4}\cdot \f	
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10 8458 Jul 14 04:10 8458 Jul 17 11:57 8458 Jul 24 01:22 8458 Aug 31 16:10 8458 Sep 01 14:30 8458 Sep 29 14:57 8458 Oct 26 07:27 8458 Nov 07 10:48 8458 Nov 20 22:47 8458 Dec 15 22:40	7°\$50'44 7°\$34'25 7°\$50'10 4°\$29'48 0°\$00'27 0°\$13'24 1°\$48'58 0°\$0 0°\$\Omega\$53'48 0°\$\Omega\$00\$25'10 0°\$\mathbb{L}\$0\$'\$\mathbb{L}\$	5°39'07 0.27353 AU -4.8m	evening rise desc. node asc. node	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17 8461 Jan 02 23:32 8461 Jan 27 06:24 8461 Feb 20 12:58 8461 Mar 16 20:35 8461 Apr 10 08:55 8461 Apr 24 04:19 8461 May 05 08:50 8461 May 31 09:39 8461 Jun 23 22:03 8461 Jun 29 00:59	0°\$\frac{\sigma}{0}\text{o"}\frac{\sigma}{0}\text{o"}\frac{\sigma}{31'37}\text{27°}\frac{\sigma}{34'9'34}\text{0"}\text{\text{o"}\gamma}\text{0"}\text{\text{o"}\gamma}\text{0"}\text{\text{o"}\gamma}\text{0"}\text{\text{o"}\gamma}\text{0"}\text{\text{o"}\sigma}\text{0"}\text{\text{o"}\sigma}\text{0"}\text{\text{o"}\sigma}\text{0"}\text{\text{o"}\text{\text{o"}\sigma}\text{0"}\text{\text{o"}\text{\text{o"}\sigma}\text{0"}\text{\text{o"}\text{\text{o"}\text{o"}\text{\text{o"}\text{o"}\text{\text{o"}\text{o"}\text{\text{o"}\text{o"}\text{\text{o"}\text{o"}\text{\text{o"}\text{o"}\text{\text{o"}\text{o"}\text{\text{o"}\text{o"}\text{o"}\text{\text{o"}\text{o"}\text{\text{o"}\text{o"}\text{\text{o"}\text{o"}\text{\text{o"}\text{o"}\text{\text{o"}\text{o"}\text{o"}\text{\text{o"}\text{o"}\text{o"}\text{\text{o"}\text{o"}\text{o"}\text{\text{o"}o"	46°27'53
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10 8458 Jul 14 04:10 8458 Jul 17 11:57 8458 Jul 24 01:22 8458 Aug 31 16:10 8458 Sep 01 14:30 8458 Sep 29 14:57 8458 Oct 26 07:27 8458 Nov 07 10:48 8458 Nov 20 22:47 8458 Dec 15 22:40 8459 Jan 09 12:26	7°\$50'44 7°\$34'25 7°\$50'10 4°\$29'48 0°\$00'27 0°\$13'24 1°\$48'58 0°\$0 0°\$\$13'48 0°\$\$0 14°\$\$205'10 0°\$\$\mathbf{L}\$ 0°\$\$\mathbf{L}\$ 0°\$\$\mathbf{L}\$ 0°\$\$\mathbf{L}\$ 0°\$\$\mathbf{L}\$ 0°\$\$\mathbf{L}\$ 0°\$\$\mathbf{L}\$	5°39'07 0.27353 AU -4.8m	evening rise desc. node asc. node evening max el greatest brilliancy	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17 8461 Jan 02 23:32 8461 Jan 27 06:24 8461 Feb 20 12:58 8461 Mar 16 20:35 8461 Apr 10 08:55 8461 Apr 24 04:19 8461 May 05 08:50 8461 May 31 09:39 8461 Jun 23 22:03 8461 Jun 29 00:59 8461 Aug 01 15:56	0°\$\frac{\sigma}{\sigma} 0°\$\frac{\sigma}{\sigma} 12°\$\frac{\sigma}{\sigma} 31'37 27°\$\frac{\sigma}{\sigma} 49'34 0°\$\times 0°\$\frac{\sigma}{\sigma} 0°\$\frac{\sigma}{\sigma} 0°\$\frac{\sigma}{\sigma} 16°\$\pi 40'30 0°\$\frac{\sigma}{\sigma} 24°\$\Omega 59'42 0°\$\pi \sigma 24°\$\pi \sigma 34'51	
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10 8458 Jul 14 04:10 8458 Jul 17 11:57 8458 Jul 24 01:22 8458 Aug 31 16:10 8458 Sep 01 14:30 8458 Sep 29 14:57 8458 Nov 07 10:48 8458 Nov 20 22:47 8458 Dec 15 22:40 8459 Jan 09 12:26 8459 Feb 02 19:33	7°\$50'44 7°\$34'25 7°\$50'10 4°\$29'48 0°\$00'27 0°\$13'24 1°\$48'58 0°\$0 0°\$\$13'48 0°\$\$0 0°\$\$14'\$\$205'10 0°\$\$1 0°\$\$1 0°\$\$1 0°\$\$1 0°\$\$1 0°\$\$1	5°39'07 0.27353 AU -4.8m	evening rise desc. node asc. node evening max el greatest brilliancy retrograde	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17 8461 Jan 02 23:32 8461 Jan 27 06:24 8461 Feb 20 12:58 8461 Mar 16 20:35 8461 Apr 10 08:55 8461 Apr 24 04:19 8461 May 05 08:50 8461 May 31 09:39 8461 Jun 23 22:03 8461 Jun 29 00:59 8461 Aug 01 15:56 8461 Aug 12 19:21	0°♂ 0°♂ 12°♂31'37 27°♂49'34 0°≈ 0°升 0°भ 0°भ 0°॥ 16°॥40'30 0°© 0°Ω 24°Ω59'42 0°™ 24°№34'51 26°™34'51	46°27'53
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inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el asc. node	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10 8458 Jul 14 04:10 8458 Jul 17 11:57 8458 Jul 24 01:22 8458 Aug 31 16:10 8458 Sep 01 14:30 8458 Sep 29 14:57 8458 Oct 26 07:27 8458 Nov 07 10:48 8458 Nov 20 22:47 8458 Dec 15 22:40 8459 Jan 09 12:26 8459 Feb 02 19:33 8459 Feb 27 03:40 8459 Feb 27 03:40 8459 Feb 27 14:12	7°550'44 7°534'25 7°550'10 4°529'48 0°500'27 0°513'24 1°548'58 0°Ω 0°Ω53'48 0°™ 0°Ω 14°Ω05'10 0°™ 0°% 0°% 0°% 0°% 0°% 0°% 0°% 0°% 0°% 0°%	5°39'07 0.27353 AU -4.8m	evening rise desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set min. Earth dist.	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17 8461 Jan 02 23:32 8461 Jan 27 06:24 8461 Feb 20 12:58 8461 Mar 16 20:35 8461 Apr 10 08:55 8461 Apr 24 04:19 8461 May 05 08:50 8461 May 31 09:39 8461 Jun 23 22:03 8461 Jun 29 00:59 8461 Aug 01 15:56 8461 Aug 12 19:21 8461 Aug 13 23:38 8461 Aug 28 04:04 8461 Sep 02 10:15	0°\$\frac{\sigma}{0}\text{o"}\frac{\sigma}{0}\text{o"}\frac{\sigma}{31'37}\text{27°}\frac{\sigma}{34'9'34}\text{0"}\text{o"}\text	46°27'53 -4.8m
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inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el asc. node desc. node morning set max. Earth dist.	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10 8458 Jul 14 04:10 8458 Jul 17 11:57 8458 Jul 24 01:22 8458 Aug 31 16:10 8458 Sep 01 14:30 8458 Sep 29 14:57 8458 Oct 26 07:27 8458 Nov 07 10:48 8458 Nov 20 22:47 8458 Dec 15 22:40 8459 Jan 09 12:26 8459 Feb 02 19:33 8459 Feb 27 03:40 8459 Feb 27 03:40 8459 Feb 27 14:12 8459 Mar 22 21:22 8459 Apr 08 02:04	7°\$50'44 7°\$34'25 7°\$50'10 4°\$29'48 0°\$00'27 0°\$13'24 1°\$48'58 0°\$\Omega\$0'\Omega\$148 0°\$\Omega\$0'\Omega\$148 0°\$\Omega\$0'\Omega\$10 0°\$\Omega\$0'\Omega\$0'\Omega\$0'\Omega\$17'16 0°\Omega\$0'\Omega	5°39'07 0.27353 AU -4.8m 46°03'20	evening rise desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set min. Earth dist. inferior conj	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17 8461 Jan 02 23:32 8461 Jan 27 06:24 8461 Feb 20 12:58 8461 Mar 16 20:35 8461 Apr 10 08:55 8461 Apr 24 04:19 8461 May 05 08:50 8461 May 31 09:39 8461 Jun 23 22:03 8461 Jun 29 00:59 8461 Aug 01 15:56 8461 Aug 12 19:21 8461 Aug 13 23:38 8461 Aug 28 04:04 8461 Sep 02 10:15 8461 Sep 03 04:03 8461 Sep 02 19:00 8461 Sep 08 10:32	0°\$\frac{\sigma}{0}\text{o"}\$\frac{\sigma}{3}\text{137}\text{27°}\$\frac{\sigma}{3}\text{49'}\text{34}\text{0"}\$\pi\$\text{o"}\$\pi\$\text{0"}\$\pi\$\text{0"}\$\pi\$\text{0"}\$\pi\$\text{0"}\$\pi\$\text{0"}\$\pi\$\text{0"}\$\pi\$\text{0"}\$\pi\$\text{0"}\$\text{0"}\$\text{0"}\$\text{0"}\$\text{0"}\$\text{0"}\$\text{0"}\$\text{0"}\$\text{24}\text{0"}\$\text{34'}\text{51'}\text{26}\text{m}\text{34'}\text{51'}\text{26}\text{m}\text{37'}\text{51'}\text{11}\text{19°} \text{m}\text{05'}\text{46}\text{18°}\text{m}\text{37'}\text{52'}\text{05}\text{15°}\text{m}\text{26'}\text{44'}\text{49'}\text{49'}\text{49'}\text{49'}\text{49'}\text{49'}\text{49'}\text{51'}\text{15'}\te	46°27'53 -4.8m 0.28490 AU -4°41'25
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el asc. node	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10 8458 Jul 14 04:10 8458 Jul 17 11:57 8458 Jul 24 01:22 8458 Aug 31 16:10 8458 Sep 01 14:30 8458 Sep 29 14:57 8458 Oct 26 07:27 8458 Nov 07 10:48 8458 Nov 20 22:47 8458 Dec 15 22:40 8459 Jan 09 12:26 8459 Feb 02 19:33 8459 Feb 27 03:40 8459 Feb 27 14:12 8459 Mar 22 21:22 8459 Apr 09 05:31	7°\$50'44 7°\$34'25 7°\$50'10 4°\$29'48 0°\$00'27 0°\$13'24 1°\$48'58 0°\$0 0°\$£53'48 0°\$0 0°\$£ 14°\$£05'10 0°\$L 0°\$₹ 0°\$\$ 0°\$£ 0°\$£ 0°\$£ 0°\$£ 0°\$£ 0°\$£ 0°\$£	5°39'07 0.27353 AU -4.8m 46°03'20 1.71267 AU -1°19'48	evening rise desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17 8461 Jan 02 23:32 8461 Jan 27 06:24 8461 Feb 20 12:58 8461 Apr 10 08:55 8461 Apr 24 04:19 8461 May 05 08:50 8461 May 31 09:39 8461 Jun 23 22:03 8461 Jun 29 00:59 8461 Aug 01 15:56 8461 Aug 12 19:21 8461 Aug 13 23:38 8461 Aug 28 04:04 8461 Sep 02 10:15 8461 Sep 03 04:03 8461 Sep 02 19:00	0°\$\frac{\sigma}{0}\text{o"}\$\frac{\sigma}{3}\text{137}\text{27°}\$\frac{\sigma}{3}\text{49'}\text{34}\text{0°}\times \text{0°}\text{V}\text{0°}\text{V}\text{0°}\text{V}\text{0°}\text{U}\text{16°}\text{I40'}\text{30}\text{0°}\text{S}\text{0°}\text{S}\text{0°}\text{S}\text{24°}\text{0.59'}\text{42}\text{0°}\text{IN}\text{24°}\text{I34'}\text{51}\text{26°}\text{IN}\text{51'}\text{12}\text{26°}\text{IN}\text{49'}\text{23}\text{22°}\text{IN}\text{15'}\text{11}\text{19°}\text{IN}\text{05'}\text{46}\text{18°}\text{IN}\text{37'}\text{55}\text{18°}\text{IN}\text{52'}\text{05}\text{18°}\text{IN}\text{52'}\text{05}\text{18°}\text{IN}\text{52'}\text{05}\text{18°}\text{IN}\text{52'}\text{05}\text{18°}\text{IN}\text{52'}\text{05}\text{18°}\text{IN}\text{52'}\text{05}\text{18°}\text{IN}\text{52'}\text{05}\text{18°}\text{IN}\text{52'}\text{05}\text{18°}\text{IN}\text{52'}\text{05}\text{18°}\text{18°}\text{IN}\text{52'}\text{05}\text{18°}\text{18'}	46°27'53 -4.8m 0.28490 AU -4°41'25
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el asc. node desc. node morning set max. Earth dist. superior conj	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10 8458 Jul 14 04:10 8458 Jul 17 11:57 8458 Jul 24 01:22 8458 Aug 31 16:10 8458 Sep 01 14:30 8458 Sep 29 14:57 8458 Oct 26 07:27 8458 Nov 07 10:48 8458 Nov 20 22:47 8458 Dec 15 22:40 8459 Jan 09 12:26 8459 Feb 02 19:33 8459 Feb 27 03:40 8459 Feb 27 03:40 8459 Feb 27 14:12 8459 Mar 22 21:22 8459 Apr 08 02:04	7°\$50'44 7°\$34'25 7°\$50'10 4°\$29'48 0°\$00'27 0°\$13'24 1°\$48'58 0°\$0 0°\$53'48 0°\$0 14°\$05'10 0°\$\text{M}\$ 17'16 0°\$\text{M}\$50'08 0°\$\text{M}\$ 20°\$\text{M}\$20'17	5°39'07 0.27353 AU -4.8m 46°03'20 1.71267 AU -1°19'48	evening rise desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17 8461 Jan 02 23:32 8461 Jan 27 06:24 8461 Feb 20 12:58 8461 Mar 16 20:35 8461 Apr 10 08:55 8461 Apr 24 04:19 8461 May 05 08:50 8461 May 31 09:39 8461 Jun 23 22:03 8461 Jun 29 00:59 8461 Aug 11 15:56 8461 Aug 12 19:21 8461 Aug 13 23:38 8461 Aug 28 04:04 8461 Sep 02 10:15 8461 Sep 03 04:03 8461 Sep 08 10:32 8461 Sep 08 10:32	0°\$\frac{\sigma}{0}\text{o"}\$\frac{\sigma}{3}\text{137}\text{27°}\$\frac{\sigma}{3}\text{49'}\text{34}\text{0"}\$\text{\sigma}\$\text{0"}\$\text{\sigma}\$\text{0"}\$\text{\sigma}\$\text{0"}\$\text{\sigma}\$\text{0"}\$\text{\sigma}\$\text{0"}\$\text{\sigma}\$\text{0"}\$\text{\sigma}\$\text{0"}\$\text{\sigma}\$\text{0"}\$\text{\sigma}\$\text{0"}\$\text{\sigma}\$\sig	46°27'53 -4.8m 0.28490 AU -4°41'25 4°39'08
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el asc. node desc. node morning set max. Earth dist. superior conj	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10 8458 Jul 14 04:10 8458 Jul 17 11:57 8458 Jul 24 01:22 8458 Aug 31 16:10 8458 Sep 01 14:30 8458 Sep 29 14:57 8458 Oct 26 07:27 8458 Nov 07 10:48 8458 Nov 20 22:47 8458 Dec 15 22:40 8459 Jan 09 12:26 8459 Feb 02 19:33 8459 Feb 27 03:40 8459 Feb 27 03:40 8459 Feb 27 14:12 8459 Mar 22 21:22 8459 Apr 08 02:04	7°\$50'44 7°\$34'25 7°\$50'10 4°\$29'48 0°\$00'27 0°\$13'24 1°\$48'58 0°\$0 0°\$53'48 0°\$0 14°\$05'10 0°\$\text{M}\$ 17'16 0°\$\text{M}\$50'08 0°\$\text{M}\$ 20°\$\text{M}\$20'17	5°39'07 0.27353 AU -4.8m 46°03'20 1.71267 AU -1°19'48	evening rise desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17 8461 Jan 02 23:32 8461 Jan 27 06:24 8461 Feb 20 12:58 8461 Mar 16 20:35 8461 Apr 10 08:55 8461 Apr 24 04:19 8461 May 05 08:50 8461 May 31 09:39 8461 Jun 23 22:03 8461 Jun 29 00:59 8461 Aug 11 15:56 8461 Aug 12 19:21 8461 Aug 13 23:38 8461 Aug 28 04:04 8461 Sep 02 10:15 8461 Sep 03 04:03 8461 Sep 04 10:32 8461 Sep 08 10:32 8461 Sep 24 11:45 8461 Oct 04 03:34	0° ₹ 0° ₹ 12° ₹ 31'37 27° ₹ 49'34 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0°	46°27'53 -4.8m 0.28490 AU -4°41'25 4°39'08 -4.7m
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el asc. node desc. node morning set max. Earth dist. superior conj	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10 8458 Jul 14 04:10 8458 Jul 17 11:57 8458 Jul 24 01:22 8458 Aug 31 16:10 8458 Sep 01 14:30 8458 Sep 29 14:57 8458 Oct 26 07:27 8458 Nov 07 10:48 8458 Nov 20 22:47 8458 Dec 15 22:40 8459 Jan 09 12:26 8459 Feb 02 19:33 8459 Feb 27 03:40 8459 Feb 27 03:40 8459 Feb 27 14:12 8459 Mar 22 21:22 8459 Apr 08 02:21 8459 Apr 09 05:31 8459 Apr 08 20:21 8459 Apr 15 18:28	7°\$50'44 7°\$34'25 7°\$50'10 4°\$29'48 0°\$00'27 0°\$13'24 1°\$48'58 0°\$0 0°\$53'48 0°\$0 14°\$05'10 0°\$\mathred{\text{m}} 0°\$\text{m}} 0°\$\text{m} 17'16 0°\$\text{m} 0°\$\text{m} 20°\$\text{m} 21°\$\text{m} 46'35 21°\$\text{m} 17'44 0°\$\text{d}	5°39'07 0.27353 AU -4.8m 46°03'20 1.71267 AU -1°19'48	evening rise desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17 8461 Jan 02 23:32 8461 Jan 27 06:24 8461 Feb 20 12:58 8461 Mar 16 20:35 8461 Apr 10 08:55 8461 Apr 24 04:19 8461 May 05 08:50 8461 May 31 09:39 8461 Jun 23 22:03 8461 Jun 29 00:59 8461 Aug 12 19:21 8461 Aug 12 19:21 8461 Aug 13 23:38 8461 Aug 28 04:04 8461 Sep 02 10:15 8461 Sep 03 04:03 8461 Sep 04 10:32 8461 Sep 24 11:45 8461 Oct 04 03:34 8461 Oct 31 20:43	0° ₹ 0° ₹ 12° ₹ 31'37 27° ₹ 49'34 0° ≈ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹	46°27'53 -4.8m 0.28490 AU -4°41'25 4°39'08 -4.7m
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el asc. node desc. node morning set max. Earth dist. superior conj minimum elong	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10 8458 Jul 14 04:10 8458 Jul 17 11:57 8458 Jul 24 01:22 8458 Aug 31 16:10 8458 Sep 01 14:30 8458 Sep 29 14:57 8458 Oct 26 07:27 8458 Nov 07 10:48 8458 Nov 20 22:47 8458 Dec 15 22:40 8459 Jan 09 12:26 8459 Feb 02 19:33 8459 Feb 27 03:40 8459 Feb 27 03:40 8459 Feb 27 14:12 8459 Mar 22 21:22 8459 Apr 08 02:04 8459 Apr 09 05:31 8459 Apr 08 20:21 8459 May 09 15:10	7°\$50'44 7°\$34'25 7°\$50'10 4°\$29'48 0°\$00'27 0°\$13'24 1°\$48'58 0°\$0 0°\$53'48 0°\$0 14°\$05'10 0°\$\mathbb{L}\$ 17'16 0°\$\mathbb{L}\$50'08 0°\$\mathbb{L}\$ 21°\$\mathbb{L}\$46'35 21°\$\mathbb{L}\$17'44 0°\$\mathbb{L}\$ 0°\$\$\mathbb{H}\$	5°39'07 0.27353 AU -4.8m 46°03'20 1.71267 AU -1°19'48	evening rise desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17 8461 Jan 02 23:32 8461 Jan 27 06:24 8461 Feb 20 12:58 8461 Mar 16 20:35 8461 Apr 10 08:55 8461 Apr 24 04:19 8461 May 05 08:50 8461 May 31 09:39 8461 Jun 29 00:59 8461 Aug 01 15:56 8461 Aug 12 19:21 8461 Aug 12 19:21 8461 Aug 13 23:38 8461 Aug 28 04:04 8461 Sep 02 10:15 8461 Sep 02 10:15 8461 Sep 03 04:03 8461 Sep 04 10:32 8461 Sep 24 11:45 8461 Oct 04 03:34 8461 Oct 31 20:43 8461 Nov 12 03:51	0° ₹ 0° ₹ 12° ₹ 31'37 27° ₹ 49'34 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0°	46°27'53 -4.8m 0.28490 AU -4°41'25 4°39'08 -4.7m
inferior conj minimum elong min. Earth dist. morning rise direct desc. node greatest brilliancy morning max el asc. node desc. node morning set max. Earth dist. superior conj minimum elong	8458 Jun 23 09:45 8458 Jun 23 20:21 8458 Jun 23 10:07 8458 Jun 29 01:10 8458 Jul 14 04:10 8458 Jul 17 11:57 8458 Jul 24 01:22 8458 Aug 31 16:10 8458 Sep 01 14:30 8458 Sep 29 14:57 8458 Oct 26 07:27 8458 Nov 07 10:48 8458 Nov 20 22:47 8458 Dec 15 22:40 8459 Jan 09 12:26 8459 Feb 02 19:33 8459 Feb 27 03:40 8459 Feb 27 03:40 8459 Feb 27 14:12 8459 Mar 22 21:22 8459 Apr 08 02:04 8459 Apr 09 05:31 8459 Apr 08 20:21 8459 May 09 15:10 8459 May 19 19:24	7°\$50'44 7°\$34'25 7°\$50'10 4°\$29'48 0°\$00'27 0°\$13'24 1°\$48'58 0°\$0 0°\$653'48 0°\$0 14°\$05'10 0°\$\mathbb{T}\$ 12°\$\mathbb{T}\$46'35 21°\$\mathbb{T}\$17'144 0°\$\mathbb{T}\$ 0°\$\mathbb{T}\$ 12°\$\mathbb{T}\$46'36	5°39'07 0.27353 AU -4.8m 46°03'20 1.71267 AU -1°19'48	evening rise desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el	8460 Nov 15 09:03 8460 Dec 09 16:23 8460 Dec 19 19:56 8461 Jan 01 05:17 8461 Jan 02 23:32 8461 Jan 27 06:24 8461 Feb 20 12:58 8461 Mar 16 20:35 8461 Apr 10 08:55 8461 Apr 24 04:19 8461 May 05 08:50 8461 May 31 09:39 8461 Jun 23 22:03 8461 Jun 29 00:59 8461 Aug 01 15:56 8461 Aug 12 19:21 8461 Aug 13 23:38 8461 Aug 13 23:38 8461 Aug 28 04:04 8461 Sep 02 10:15 8461 Sep 03 04:03 8461 Sep 04 10:32 8461 Oct 04 03:34 8461 Oct 04 03:51 8461 Nov 12 03:51 8461 Dec 01 13:15	0° ₹ 0° ₹ 12° ₹ 31'37 27° ₹ 49'34 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0°	46°27'53 -4.8m 0.28490 AU -4°41'25 4°39'08 -4.7m

	8462 Jan 23 01:05	0°₹		desc. node	8464 Sep 10 10:59	11°M30'09	
	8462 Feb 16 20:17	0°≈		desc. Hode	8464 Oct 05 15:24	0° x ⁷	
	8462 Mar 13 05:27	0° ∺		greatest brilliancy	8464 Oct 11 10:12	2° ∡ 129'34	-4.7m
desc. node	8462 Mar 26 15:58	16°) 40'49		retrograde	8464 Oct 21 12:30	4° ×7 20'49	4.7111
dese. Hode	8462 Apr 06 08:24	0°Υ		renograde	8464 Nov 05 12:19	30°RML	
	8462 Apr 30 07:34	0°8		evening set	8464 Nov 08 18:18	28°M07'22	
morning set	8462 May 14 18:11	18° 8 07'33		inferior conj	8464 Nov 12 00:53	26°M05'35	-8°31'43
morning sec	8462 May 24 05:15	0° Ⅱ		minimum elong	8464 Nov 12 04:08	26°M00'28	8°31'24
	8462 Jun 17 03:36	0°9		min. Earth dist.	8464 Nov 12 08:40	25°M53'21	0.29098 AU
				morning rise	8464 Nov 15 13:52	23°M53'46	
superior conj	8462 Jun 23 15:04	8°906'02	-0°54'06	direct	8464 Dec 03 13:05	17° M 46'48	
minimum elong	8462 Jun 24 01:57	8°940'00		greatest brilliancy	8464 Dec 14 08:40	19°M54'28	-4.8m
max. Earth dist.	8462 Jun 27 01:47	12° © 24'25	1.71829 AU	8	8464 Dec 31 15:08	0° ₹ ¹	
	8462 Jul 11 04:17	$0^{\circ}\Omega$		asc. node	8465 Jan 01 10:32	0° х 36′54	
asc. node	8462 Jul 17 13:41	7° Ω 57'12		morning max el	8465 Jan 22 02:52	19° ∡ ′01'36	46°08'57
evening rise	8462 Aug 01 18:42	26° Ω 49'46		Č	8465 Feb 01 20:19	0°₹	
Č	8462 Aug 04 08:07	0° m			8465 Feb 28 21:14	0° ≈	
	8462 Aug 28 15:34	0∘ <u>⊽</u>			8465 Mar 26 08:13	0° ∀	
	8462 Sep 22 03:36	0°M			8465 Apr 20 01:39	0° Υ	
	8462 Oct 16 22:08	0° ∡ 7		desc. node	8465 Apr 23 04:17	3° Y 48'40	
desc. node	8462 Nov 06 07:42	24° ₹ 22'07			8465 May 14 09:54	0°8	
	8462 Nov 11 01:52	5°0			8465 Jun 07 13:46	0°II	
	8462 Dec 06 18:38	0° ≈			8465 Jul 01 16:35	0°©	
	8463 Jan 02 08:59	0° ∀			8465 Jul 25 20:19	$0^{\circ}\Omega$	
evening max el	8463 Jan 27 14:35	26°) 32′09	46°33'14	morning set	8465 Jul 27 03:36	1° Ω 37'02	
Č	8463 Jan 31 03:36	$_{0}^{\circ}\Upsilon$		asc. node	8465 Aug 14 01:51	23° Ω 49'50	
asc. node	8463 Feb 27 07:41	22° Υ 12'44			8465 Aug 19 01:32	0° m)	
greatest brilliancy	8463 Mar 08 22:08	26° Y 54'25	-4.9m				
retrograde	8463 Mar 18 16:41	28° Ƴ 42'47		superior conj	8465 Sep 03 03:38	18° m 39'18	0°46'04
evening set	8463 Apr 04 11:13	23° Y 17'20		minimum elong	8465 Sep 02 18:56	18° m) 12'25	0°45'39
inferior conj	8463 Apr 08 08:44	20° Y 55'58	8°19'43	max. Earth dist.	8465 Sep 04 16:37	20° m) 33'31	1.73019 AU
minimum elong	8463 Apr 07 23:57	21° Υ 09'30	8°18'26		8465 Sep 12 08:05	0∘ ⊽	
min. Earth dist.	8463 Apr 08 03:44	21° Υ 03'41	0.27048 AU		8465 Oct 06 16:01	0°M₊	
morning rise	8463 Apr 11 12:39	19° Ƴ 00'18		evening rise	8465 Oct 09 18:44	3° M ₄49'57	
direct	8463 Apr 28 23:24	13°Υ08'22			8465 Oct 31 01:54	0° ⊼ 7	
greatest brilliancy	8463 May 08 15:09	14° Y 53'44	-4.9m		8465 Nov 24 14:35	0°8	
8	8463 Jun 01 09:59	0°8		desc. node	8465 Dec 03 19:25	11° る 12'47	
morning max el	8463 Jun 18 07:30	15° 8 42'53	46°49'47		8465 Dec 19 06:35	0° ≈	
desc. node	8463 Jun 19 02:20	16° 8 30'06			8466 Jan 13 02:13	0°) €	
	8463 Jul 02 01:19	0°Щ			8466 Feb 07 03:20	0° Υ	
	8463 Jul 28 23:23	0°99			8466 Mar 04 16:33	0°8	
	8463 Aug 23 18:14	$0^{\circ}\Omega$		asc. node	8466 Mar 26 18:52	24° 8 51'43	
	8463 Sep 18 00:53	0° m)			8466 Mar 31 13:10	0°II	
asc. node	8463 Oct 10 00:26	26° m 24'34		evening max el	8466 Apr 10 14:08	10° Ⅲ 26'34	46°59'39
	8463 Oct 12 23:46	0∘ <u>⊽</u>		<i>8</i>	8466 May 01 23:56	0°©	
	8463 Nov 06 16:12	0°M		greatest brilliancy	8466 May 20 23:35	11° 5 26'28	-4.9m
	8463 Dec 01 03:22	0° ⊼		retrograde	8466 May 31 03:34	13° © 23'33	
morning set	8463 Dec 15 15:13	17° ₹ 52'12		evening set	8466 Jun 16 08:34	8° © 14'47	
<i>3</i>	8463 Dec 25 10:40	0°る		inferior conj	8466 Jun 20 23:07	5°9528'18	6°00'16
	8464 Jan 18 15:19	0° ≈		minimum elong	8466 Jun 21 09:57	5° © 11'38	5°57'26
max. Earth dist.	8464 Jan 19 14:06	1° ≈ 10'49	1.72361 AU	min. Earth dist.	8466 Jun 20 23:30	5° © 27'43	0.27336 AU
				morning rise	8466 Jun 26 11:37	2° © 11'42	
superior conj	8464 Jan 22 09:28	4° ≈ 40'09	0°17'40		8466 Jun 30 22:21	30°RⅡ	
minimum elong	8464 Jan 22 13:37	4°≈53'04	0°17'37	direct	8466 Jul 11 17:57	27° Ⅱ 38'24	
desc. node	8464 Jan 29 17:26	13° ≈ 47'18		desc. node	8466 Jul 16 14:05	28° Ⅱ 05'41	
	8464 Feb 11 17:47	0° ∀		greatest brilliancy	8466 Jul 21 13:47	29° Ⅱ 26'20	-4.8m
evening rise	8464 Mar 01 16:48	23°) (40'21		<u> </u>	8466 Jul 23 01:57	0.2 2	
<i>3</i>	8464 Mar 06 18:16	0°Υ		morning max el	8466 Aug 30 05:35	28° © 38'38	46°04'50
	8464 Mar 30 17:34	0°8			8466 Aug 31 15:01	0° Ω	
	8464 Apr 23 17:41	0°II			8466 Sep 29 06:45	0° mp	
	8464 May 17 21:35	0.ee			8466 Oct 25 20:40	0∘ ⊽	
asc. node	8464 May 21 15:50	4° © 38'29		asc. node	8466 Nov 06 12:45	ა — 13° ჲ 34'10	
	8464 Jun 11 08:57	0°Ω			8466 Nov 20 10:45	0°M	
	8464 Jul 06 09:02	0° m/y			8466 Dec 15 09:59	0° ⊼	
	8464 Aug 01 07:56	0° 0			8467 Jan 08 23:24	0°ਤੇ	
	8464 Aug 29 09:23	0° m .			8467 Feb 02 06:22	0° ≈	
evening max el	8464 Sep 02 12:22	4°ML03'27	45°47'26	morning set	8467 Feb 25 02:31	0 ∞ 28°≈25'18	
Troning max of	5 10 1 50p 02 12.22	1 110032/	13 1/20	morning sot	510,100 25 02.51	20 ~23 10	

	0467.5.1.26.05.26	200 - 40140			0460 4 25 17 40	200m 05102	
desc. node	8467 Feb 26 05:36	29°≈49'48		evening set	8469 Aug 25 17:48	20° m 05'03	
	8467 Feb 26 08:53	0°) €		min. Earth dist.	8469 Aug 31 02:09	16° Mp 52'47	0.28440 AU
To de l'a	8467 Mar 22 08:07	0° Υ	1.71200 411	inferior conj	8469 Aug 31 19:31	16° Mp 25'38	
max. Earth dist.	8467 Apr 05 08:50	17° Ƴ 36'55	1.71280 AU	minimum elong	8469 Aug 31 10:50	16° Mp 39'13	4°21'28
	0467 4 06 16 22	100001 (121	1010105	morning rise	8469 Sep 06 04:24	13° m 10'53	
superior conj	8467 Apr 06 16:32	19° ℃ 16'31		direct	8469 Sep 22 02:18	8° Mp 21'28	
minimum elong	8467 Apr 06 06:42	18° Y 45'39	1°17'54	greatest brilliancy	8469 Oct 01 18:56	10° m 03'09	-4.7m
	8467 Apr 15 05:14	0° 8			8469 Nov 01 00:21	0∘ ⊽	
	8467 May 09 01:57	$0^{\circ}\Pi$		morning max el	8469 Nov 09 17:41	8° ≏ 02'16	45°41'20
evening rise	8467 May 17 06:06	10° Ⅱ 15'44			8469 Dec 01 05:53	0° M ₊	
	8467 Jun 02 00:21	0_{\circ} වෙ		asc. node	8469 Dec 04 00:50	3°ML00'43	
asc. node	8467 Jun 19 03:42	21° © 22'13			8469 Dec 28 01:50	0° ∡ ¹	
	8467 Jun 26 02:31	0 $^{\circ}$ Ω			8470 Jan 22 13:15	0°ಕ	
	8467 Jul 20 10:18	O°My			8470 Feb 16 07:47	0° ≈	
	8467 Aug 14 02:02	0∘ ত			8470 Mar 12 16:35	0° ∀	
	8467 Sep 08 05:55	0°M₊		desc. node	8470 Mar 25 17:52	16° ∺ 12'31	
	8467 Oct 04 06:15	0° ∡ 7			8470 Apr 05 19:20	0 ° $\mathbf{\Upsilon}$	
desc. node	8467 Oct 08 22:13	5° ∡ 13'39			8470 Apr 29 18:23	$_{0\circ}$ 8	
	8467 Oct 31 22:14	0°ප		morning set	8470 May 12 05:15	15° 8 37'50	
evening max el	8467 Nov 13 23:20	13° る 00'23	45°49'15		8470 May 23 15:58	Π $^{\circ}0$	
	8467 Dec 03 12:59	0° ≈			8470 Jun 16 14:16	0ංම	
greatest brilliancy	8467 Dec 23 05:27	11° ≈ 16′58	-4.8m				
retrograde	8468 Jan 01 19:12	12° ≈ 56'55		superior conj	8470 Jun 21 03:43	5° © 42'16	-0°57'02
evening set	8468 Jan 16 17:38	8° ≈ 37'40		minimum elong	8470 Jun 21 14:50	6° © 17'01	0°56'48
inferior conj	8468 Jan 22 17:58	5° ≈ 03'22	-1°47'57	max. Earth dist.	8470 Jun 24 11:02	9° © 50'08	1.71785 AU
minimum elong	8468 Jan 22 21:59	4° ≈ 57'07	1°46'32		8470 Jul 10 14:55	$0^{\circ}\Omega$	
min. Earth dist.	8468 Jan 23 09:02	4° ≈ 40'00	0.27680 AU	asc. node	8470 Jul 16 15:39	7° Ω 30'19	
morning rise	8468 Jan 29 01:44	1°≈17'55		evening rise	8470 Jul 30 09:31	24° Ω 34'02	
asc. node	8468 Jan 29 22:12	0°≈50'43		C	8470 Aug 03 18:46	0° mp	
	8468 Jan 31 15:03	30°Rる			8470 Aug 28 02:18	0∘ ⊽	
direct	8468 Feb 12 19:50	27° る 01'19			8470 Sep 21 14:35	0° M .	
greatest brilliancy	8468 Feb 23 15:59	29° る 13'13	-4.9m		8470 Oct 16 09:35	0° ∡ ¹	
8	8468 Feb 25 13:01	0° ≈		desc. node	8470 Nov 05 09:44	23° ₹ 52'16	
	8468 Apr 03 10:40	0° \			8470 Nov 10 14:10	0°ප	
morning max el	8468 Apr 03 06:12	29° ≈ 48'45	46°51'58		8470 Dec 06 08:23	0° ≈	
morning man er	8468 May 01 04:58	0°Υ	.0 0100		8471 Jan 02 01:38	0°) €	
desc. node	8468 May 20 16:31	22° Υ 33'19		evening max el	8471 Jan 25 03:26	24°) €08'59	46°31'47
desc. Hode	8468 May 26 23:37	0°8		evening max er	8471 Jan 31 04:33	0°Υ	10 31 17
	8468 Jun 20 23:23	0°II		asc. node	8471 Feb 26 09:35	20° Y 42'37	
	8468 Jul 15 15:12	0°©		greatest brilliancy	8471 Mar 06 10:38	24° Υ 29'09	-4.9m
	8468 Aug 09 04:06	$0^{\circ}\Omega$		retrograde	8471 Mar 16 05:34	26° Υ 18'13	4.7111
	8468 Sep 02 15:52	0° mp		evening set	8471 Apr 01 19:32	20°Υ58'57	
asc. node	8468 Sep 10 14:03	بران 9° ۱۱ ۵43′05		inferior conj	8471 Apr 05 21:38	18° Υ 31'15	8°08'50
asc. Houe	8468 Sep 27 02:28	0∘ ʊ		minimum elong	8471 Apr 05 21:38 8471 Apr 05 12:16	18° Y 45'38	8°07'22
morning sat	8468 Oct 04 19:39	0 = 9° £ 29'11		min. Earth dist.	8471 Apr 05 12:10 8471 Apr 05 16:32	18° Y 39'05	0.27046 AU
morning set		9 == 2911 0° M			•	16° Y 30'42	0.27040 AU
F4b 4i-4	8468 Oct 21 11:36 8468 Nov 09 15:55		1 72246 ATT	morning rise	8471 Apr 09 04:59		
max. Earth dist.	8408 NOV 09 13.33	23°M38'50	1.73246 AU	direct	8471 Apr 26 12:12	10° Y 43′16	4.0
	0460N 10 00 26	2.40 m 2212.1	1025100	greatest brilliancy	8471 May 06 04:45	12° Y 29'37	-4.9m
superior conj	8468 Nov 10 09:36	24°M33'21			8471 Jun 01 18:07	0°8	46050152
minimum elong	8468 Nov 10 12:11		1°25'17	morning max el	8471 Jun 15 21:18	13° 8 20'42	46°50'52
	8468 Nov 14 19:30	0° ⊼		desc. node	8471 Jun 18 04:28	15° 8 39'45	
	8468 Dec 09 02:54	0°る			8471 Jul 01 19:39	0°II	
evening rise	8468 Dec 17 11:54	10°る20'09			8471 Jul 28 13:58	0°©	
desc. node	8468 Dec 31 07:21	27° る 23'03			8471 Aug 23 07:05	0° N	
	8469 Jan 02 10:12	0° ≈			8471 Sep 17 12:44	0° m)	
	8469 Jan 26 17:20	0°) €		asc. node	8471 Oct 09 02:25	25° m 56'31	
	8469 Feb 20 00:15	0° Υ			8471 Oct 12 10:58	0° ⊡	
	8469 Mar 16 08:20	0°B			8471 Nov 06 03:02	0° M -	
_	8469 Apr 09 21:23	0°II			8471 Nov 30 14:00	0° ∡ ¹	
asc. node	8469 Apr 23 06:12	16° ∏ 07'00		morning set	8471 Dec 13 07:44	15° ∡ ¹42'15	
	8469 May 04 22:33	0°€			8471 Dec 24 21:15	0°₹	
	8469 May 31 02:00	0 $^{\circ}\Omega$		max. Earth dist.	8472 Jan 17 07:51	29° る 03'49	1.72401 AU
evening max el	8469 Jun 21 12:17	22° Ω 41'18	46°29'28		8472 Jan 18 01:56	0° ≈	
	8469 Jun 29 01:30	0° m					
greatest brilliancy	8469 Jul 30 08:29	22°M 22'31	-4.8m	superior conj	8472 Jan 19 23:45	2° ≈ 22'18	0°21'11
retrograde	8469 Aug 10 10:33	24° Mp 37'59		minimum elong	8472 Jan 20 04:39	2° ≈ 37'34	0°21'06
desc. node	8469 Aug 13 01:35	24° m 29'44		desc. node	8472 Jan 28 19:21	13° ≈ 20′10	

	8472 Feb 11 04:29	0°) €		greatest brilliancy	8474 Jul 19 02:12	27° I 104'04	-4 8m
evening rise	8472 Feb 28 05:46	21°) 17'20		greatest erimane;	8474 Jul 25 17:04	0°ಅ	
Č	8472 Mar 06 05:03	$0^{\circ}\mathbf{\Upsilon}$		morning max el	8474 Aug 27 19:48	26° © 21'29	46°06'11
	8472 Mar 30 04:29	8° 0		-	8474 Aug 31 12:49	$0^{\circ}\Omega$	
	8472 Apr 23 04:48	$\Pi^{\circ}0$			8474 Sep 28 22:18	0° m	
	8472 May 17 09:02	0ං ව			8474 Oct 25 09:52	0∘ ⊽	
asc. node	8472 May 20 17:55	4° © 09'26		asc. node	8474 Nov 05 14:46	13° ≏ 03'09	
	8472 Jun 10 20:56	$0^{\circ}\Omega$			8474 Nov 19 22:48	0°M₊	
	8472 Jul 05 21:59	0° т р			8474 Dec 14 21:25	0° ∡ ¹	
	8472 Jul 31 22:56	0∘ ত			8475 Jan 08 10:30	0°ප	
	8472 Aug 29 06:03	0°M	45040100		8475 Feb 01 17:18	0°≈	
evening max el	8472 Aug 31 04:20	1°M53'02	45°48'22	morning set	8475 Feb 22 14:48	25°≈59'53	
desc. node	8472 Sep 09 12:56 8472 Oct 08 04:04	10° M .36′03 0° <i>₹</i>		desc. node	8475 Feb 25 07:27 8475 Feb 25 19:46	29° ≈ 21'31 0° ∀	
greatest brilliancy	8472 Oct 08 04.04 8472 Oct 09 00:07	0° х ¹ 0° х ¹18'19	4.7m		8475 Mar 21 19:01	0° Υ	
retrograde	8472 Oct 19 05:01	2° 🖈 11'29	-4 ./III	max. Earth dist.	8475 Apr 02 12:55	14° Υ 44'41	1.71297 AU
retrograde	8472 Oct 29 16:52	30°RM		max. Lartii dist.	0473 Apr 02 12.33	17 77771	1.712)7710
evening set	8472 Nov 06 10:48	25°M56'49		superior conj	8475 Apr 04 03:32	16° Ƴ 46'00	-1°16'11
inferior conj	8472 Nov 09 16:59	23°M55'33	-8°34'22	minimum elong	8475 Apr 03 17:09	16° Ƴ 13'24	
minimum elong	8472 Nov 09 19:30	23°M51'35	8°34'07	C	8475 Apr 14 16:10	0°8	
min. Earth dist.	8472 Nov 09 23:06	23°M45'56	0.29119 AU		8475 May 08 12:54	$\Pi^{\circ}0$	
morning rise	8472 Nov 13 04:08	21°M46'37		evening rise	8475 May 14 16:45	7° Ⅱ 44'07	
direct	8472 Dec 01 05:48	15°M36'50			8475 Jun 01 11:21	0 \circ \odot	
greatest brilliancy	8472 Dec 11 23:27	17°M43'06	-4.8m	asc. node	8475 Jun 18 05:39	20° © 53'52	
asc. node	8472 Dec 31 12:35	29°M31'43			8475 Jun 25 13:37	0 $^{\circ}$ Ω	
	8473 Jan 01 02:53	0° ∡ 7			8475 Jul 19 21:38	0° m)	
morning max el	8473 Jan 19 19:09	16° ₹ 50'02	46°07'21		8475 Aug 13 13:49	0∘ 亚	
	8473 Feb 01 14:34	0°る 0°≈			8475 Sep 07 18:35	0° M 0° ⊀ ¹	
	8473 Feb 28 11:40	0° ₩		desc. node	8475 Oct 03 20:44 8475 Oct 08 00:13	0°×' 4° <i>×</i> 737'37	
	8473 Mar 25 21:03 8473 Apr 19 13:38	0 Υ 0° Υ		desc. node	8475 Oct 31 17:10	4 x・3/3/ 0°る	
desc. node	8473 Apr 22 06:15	3° Υ 18'10		evening max el	8475 Nov 11 13:21	0 ರ 10° ठ 44'19	45°48'11
dese. node	8473 May 13 21:22	0°8		evening max er	8475 Dec 04 05:23	0°≈	13 10 11
	8473 Jun 07 00:54	0°II		greatest brilliancy	8475 Dec 20 20:27	9° ≈ 00'47	-4.8m
	8473 Jul 01 03:29	0°©		retrograde	8475 Dec 30 08:28	10° ≈ 39'29	
morning set	8473 Jul 24 18:48	29°522'06		evening set	8476 Jan 14 09:42	6°≈17'32	
	8473 Jul 25 07:01	$0^{\circ}\Omega$		inferior conj	8476 Jan 20 08:23	2° ≈ 45′29	-2°09'35
asc. node	8473 Aug 13 03:41	23° Ω 22'39		minimum elong	8476 Jan 20 13:11	2° ≈ 38′02	2°07'57
	8473 Aug 18 12:07	0° m		min. Earth dist.	8476 Jan 21 00:34		0.27732 AU
					8476 Jan 24 21:12	30°Ŗる	
superior conj	8473 Aug 31 20:07			morning rise	8476 Jan 26 15:55	28° る 59'48	
minimum elong	8473 Aug 31 11:45	16° Mp 03'23	0°42'46	asc. node	8476 Jan 29 00:03	27°る47'48	
max. Earth dist.	8473 Sep 02 13:01	18° Mp 35'36	1.72994 AU	direct	8476 Feb 10 10:17	24° る 42'32	4.0
	8473 Sep 11 18:39	0° ™ 0° 亞		greatest brilliancy	8476 Feb 21 08:10 8476 Feb 27 18:23	26° ろ 55'28 0°≈	-4.8m
evening rise	8473 Oct 06 02:38 8473 Oct 07 12:15	1°M43'30		morning max el	8476 Mar 31 19:22	0 ≈ 27°≈24'40	46°50'53
evening rise	8473 Oct 30 12:40	0° ⊼		morning max cr	8476 Apr 03 08:31	27 ≈ 24 40	40 30 33
	8473 Nov 24 01:39	ੁੰ≎			8476 Apr 30 21:00	0° Υ	
desc. node	8473 Dec 02 21:27	10° る 44'48		desc. node	8476 May 19 18:33	21° Υ 57'23	
	8473 Dec 18 18:07	0° ≈			8476 May 26 13:26	0°8	
	8474 Jan 12 14:28	0°)			8476 Jun 20 12:02	Π°	
	8474 Feb 06 16:40	0 ° $\mathbf{\gamma}$			8476 Jul 15 03:06	0°©	
	8474 Mar 04 07:48	9° 8			8476 Aug 08 15:30	0 $^{\circ}$ Ω	
asc. node	8474 Mar 25 20:52	24° 8 07'01			8476 Sep 02 02:54	0° m	
	8474 Mar 31 08:51	$\Pi^{\circ}0$		asc. node	8476 Sep 09 16:02	9° m 15'37	
evening max el	8474 Apr 08 05:04	8° Ⅱ 06'33	46°59'48		8476 Sep 26 13:17	0∘ ⊽	
,	8474 May 02 16:26	0°50	4.0	morning set	8476 Oct 02 12:57	7° Ω 21'43	
greatest brilliancy	8474 May 18 14:06	9°504'48	-4.9m	P d V	8476 Oct 20 22:18	0°M	1 72262 444
retrograde	8474 May 28 17:49	11°501'09		max. Earth dist.	8476 Nov 07 09:28	21°M32'00	1.73262 AU
evening set inferior conj	8474 Jun 14 01:37 8474 Jun 18 12:40	5°548'09 3°506'26	6°17'47	superior conj	8476 Nov 08 03:26	22° M 27'26	1°25'32
minimum elong	8474 Jun 18 12:40 8474 Jun 18 23:38	2°549'33	6°17'47 6°15'02	minimum elong	8476 Nov 08 03:26 8476 Nov 08 05:20	22°11L27'26 22°11L33'17	1°25′32 1°25′41
min. Earth dist.	8474 Jun 18 13:04	2 \$34933 3°\$05'49	0.27313 AU	minimum ciong	8476 Nov 14 06:13	0° √	1 43 41
morning rise	8474 Jun 23 21:57	29° I I54'15	0.27313110		8476 Dec 08 13:43	0°ਤੋ	
	8474 Jun 23 17:49	30°RⅡ		evening rise	8476 Dec 15 04:05	8° る 08'29	
direct	8474 Jul 09 07:46	25° Ⅱ 17'10		desc. node	8476 Dec 30 09:15	26° ප 54'59	
desc. node	8474 Jul 15 15:57	26° Ⅱ 03'29			8477 Jan 01 21:14	0° ≈	

		>/		_			
	8477 Jan 26 04:37	0° ∀		asc. node	8479 Oct 08 04:26	25° m 27'42	
	8477 Feb 19 11:54	0 ° $\mathbf{\Upsilon}$			8479 Oct 11 22:27	0∘ ⊽	
	8477 Mar 15 20:28	$6^{\circ}B$			8479 Nov 05 14:08	0° M	
	8477 Apr 09 10:16	Π $^{\circ}0$			8479 Nov 30 00:54	0° ∡ 7	
asc. node	8477 Apr 22 08:17	15° Ⅲ 32'47		morning set	8479 Dec 11 00:49	13° ∡ ³33′23	
	8477 May 04 12:47	0°ಲಾ			8479 Dec 24 08:06	0°る	
	8477 May 30 19:05	$0^{\circ}\Omega$		max. Earth dist.	8480 Jan 15 01:57	26° る 57'13	1.72443 AU
evening max el	8477 Jun 19 02:11	20° Ω 20'59	46°31'09				
	8477 Jun 29 03:47	0° m)		superior conj	8480 Jan 17 14:34	0° ≈ 05'26	0°24'36
greatest brilliancy	8477 Jul 28 00:58	20° m 09'09	-4.8m	minimum elong	8480 Jan 17 20:10	0°≈22'50	0°24'30
retrograde	8477 Aug 08 02:11	22° m/24'29	- 4 .0111	minimum clong	8480 Jan 17 12:49	0 ≈ 22 30	0 24 30
C	-	-		desc. node			
desc. node	8477 Aug 12 03:32	22° Mp 04'39		desc. node	8480 Jan 27 21:17	12°≈52'15	
evening set	8477 Aug 23 07:49	17° m 53'53			8480 Feb 10 15:27	0° ∀	
inferior conj	8477 Aug 29 11:06	14° Mp 12'47		evening rise	8480 Feb 25 18:58	18°) 54′04	
minimum elong	8477 Aug 29 02:49	14° m 25'43	4°03'27		8480 Mar 05 16:10	0° Υ	
min. Earth dist.	8477 Aug 28 18:09	14° Mp 39'15	0.28389 AU		8480 Mar 29 15:48	0°8	
morning rise	8477 Sep 03 22:20	10° m 54'51			8480 Apr 22 16:22	Π $^{\circ}0$	
direct	8477 Sep 19 16:48	6° ™ 09'11			8480 May 16 20:55	0 \circ \odot	
greatest brilliancy	8477 Sep 29 10:32	7° m 51'36	-4.7m	asc. node	8480 May 19 19:50	3° © 38'32	
	8477 Nov 01 02:35	0∘ ⊽			8480 Jun 10 09:22	$0^{\circ}\Omega$	
morning max el	8477 Nov 07 08:15	5° ≏ 48'33	45°41'24		8480 Jul 05 11:25	0° m)	
	8477 Nov 30 22:25	0°M.			8480 Jul 31 14:33	0∘ ত	
asc. node	8477 Dec 03 02:49	2°M22'12		evening max el	8480 Aug 28 20:45	29° ≏ 42'43	45°49'21
	8477 Dec 27 15:30	0° %			8480 Aug 29 03:52	0°M	
	8478 Jan 22 01:42	0° ਰ		desc. node	8480 Sep 08 15:00	9° M 40'15	
	8478 Feb 15 19:39	0° ≈		greatest brilliancy	8480 Oct 06 14:47	28°M07'18	4.7m
	8478 Mar 12 04:07	0° ₩		greatest offinality	8480 Oct 00 14:47 8480 Oct 15 17:21	20 11 0 07 10 0° √	-4./111
JJ.							
desc. node	8478 Mar 24 19:56	15°) 43'31		retrograde	8480 Oct 16 21:30	0° ∡ *01'36	
	8478 Apr 05 06:39	0° Υ			8480 Oct 18 01:28	30°RM	
_	8478 Apr 29 05:33	0° 8		evening set	8480 Nov 04 03:12	23°M46'33	
morning set	8478 May 09 16:04	13° 8 06'09		inferior conj	8480 Nov 07 09:13	21°M45'17	
	8478 May 23 03:03	$\Pi^{\circ}0$		minimum elong	8480 Nov 07 10:58	21°M42'31	8°36'10
	8478 Jun 16 01:17	0		min. Earth dist.	8480 Nov 07 13:42	21°M38'13	0.29131 AU
				morning rise	8480 Nov 10 18:45	19° M 38'46	
superior conj	8478 Jun 18 16:11	3° © 16'46	-0°59'52	direct	8480 Nov 28 22:37	13°M26'53	
minimum elong	8478 Jun 19 03:30	3° 5 52'08	0°59'40	greatest brilliancy	8480 Dec 09 13:47	15° ™ 30′58	-4.8m
max. Earth dist.	8478 Jun 21 19:35	7° © 12'29	1.71743 AU	asc. node	8480 Dec 30 14:24	28° M 27'29	
	8478 Jul 10 01:55	$0^{\circ}\Omega$			8481 Jan 01 11:38	0° ∡ ¹	
asc. node	8478 Jul 15 17:32	7° Ω 01'59		morning max el	8481 Jan 17 11:02	14° ∡ ³37'16	46°05'49
evening rise	8478 Jul 28 00:19	22° Ω 17'07		_	8481 Feb 01 08:28	0°ප	
C	8478 Aug 03 05:47	O° M⊅			8481 Feb 28 02:03	0° ≈	
	8478 Aug 27 13:24	0∘ <u>⊽</u>			8481 Mar 25 09:59	0°) €	
	8478 Sep 21 01:54	0°M			8481 Apr 19 01:49		
	8478 Oct 15 21:22	0° ∡ 7				() ~ · V ·	
desc. node		· ^		desc node	*	0° Υ 2° Ƴ 47'0ጷ	
desc. Hode	2472 Nov 04 11:47	230 7 21:36		desc. node	8481 Apr 21 08:16	2° Y 47'08	
	8478 Nov 04 11:47	23° ≯ 21'36		desc. node	8481 Apr 21 08:16 8481 May 13 09:07	2° Y 47'08 0° と	
	8478 Nov 10 02:48	ರ∘ರ		desc. node	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21	2° Y 47'08 0° と 0°耳	
	8478 Nov 10 02:48 8478 Dec 05 22:33	5°0 š0			8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41	2° Y 47'08 0° ႘ 0° 川 0°寧	
	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59	0°ಕ 0°≈ 0°¥	46020105	desc. node	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33	2°Y47'08 0°8 0°11 0°9 27°904'50	
evening max el	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08	0°る 0°≈ 0°¥ 21°¥46′55	46°30'05	morning set	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00	2°Y47'08 0°B 0°II 0°S 27°S04'50 0°N	
-	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08 8479 Jan 31 07:27	0°る 0°≈ 0°¥ 21°¥46′55 0°℃	46°30'05		8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00 8481 Aug 12 05:41	2°Y47'08 0°U 0°U 0°S 27°S04'50 0°N 22°N55'10	
asc. node	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08 8479 Jan 31 07:27 8479 Feb 25 11:37	0°る 0°≈ 0°¥ 21°¥46′55 0°℃ 19°℃		morning set	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00	2°Y47'08 0°B 0°II 0°S 27°S04'50 0°N	
asc. node greatest brilliancy	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08 8479 Jan 31 07:27	0°δ 0°≈ 0°¥ 21°¥46'55 0°Υ 19°Υ07'48 22°Υ01'40	46°30'05 -4.9m	morning set asc. node	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00 8481 Aug 12 05:41 8481 Aug 17 22:58	2°Y47'08 0°B 0°II 0°S 27°S04'50 0°A 22°A55'10 0°M	
asc. node	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08 8479 Jan 31 07:27 8479 Feb 25 11:37	0°δ 0°≈ 0°¥ 21°¥46'55 0°Υ 19°Υ07'48 22°Υ01'40 23°Υ51'41		morning set	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00 8481 Aug 12 05:41	2°Y47'08 0°U 0°U 0°S 27°S04'50 0°N 22°N55'10	0°40'13
asc. node greatest brilliancy	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08 8479 Jan 31 07:27 8479 Feb 25 11:37 8479 Mar 03 22:37	0°δ 0°≈ 0°¥ 21°¥46'55 0°Υ 19°Υ07'48 22°Υ01'40 23°Υ51'41 18°Υ38'40		morning set asc. node	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00 8481 Aug 12 05:41 8481 Aug 17 22:58	2°Y47'08 0°B 0°II 0°S 27°S04'50 0°A 22°A55'10 0°M	0°40′13 0°39′48
asc. node greatest brilliancy retrograde	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08 8479 Jan 31 07:27 8479 Feb 25 11:37 8479 Mar 03 22:37 8479 Mar 13 18:53	0°δ 0°≈ 0°¥ 21°¥46'55 0°Υ 19°Υ07'48 22°Υ01'40 23°Υ51'41		morning set asc. node superior conj	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00 8481 Aug 12 05:41 8481 Aug 17 22:58	2° Y 47'08 0° U 0° U 0° U 0° U 27° © 04'50 0° U 22° U 55'10 0° U 14° U 17'24	
asc. node greatest brilliancy retrograde evening set	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08 8479 Jan 31 07:27 8479 Feb 25 11:37 8479 Mar 03 22:37 8479 Mar 13 18:53 8479 Mar 30 03:42	0°δ 0°≈ 0°¥ 21°¥46'55 0°Υ 19°Υ07'48 22°Υ01'40 23°Υ51'41 18°Υ38'40	-4.9m	morning set asc. node superior conj minimum elong	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00 8481 Aug 12 05:41 8481 Aug 17 22:58 8481 Aug 29 12:16 8481 Aug 29 04:18	2° Y 47'08 0° U 0° U 0° U 0° S 27° S 04'50 0° S 22° S 55'10 0° T 14° T 17'24 13° T 52'46	0°39'48
asc. node greatest brilliancy retrograde evening set inferior conj	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08 8479 Jan 31 07:27 8479 Feb 25 11:37 8479 Mar 03 22:37 8479 Mar 13 18:53 8479 Mar 30 03:42 8479 Apr 03 10:21	0°る 0°≈ 0°¥ 21°¥46'55 0°Y 19°Y07'48 22°Y01'40 23°Y51'41 18°Y38'40 16°Y04'30	-4.9m 7°56'54	morning set asc. node superior conj minimum elong	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00 8481 Aug 12 05:41 8481 Aug 17 22:58 8481 Aug 29 12:16 8481 Aug 29 04:18 8481 Aug 31 09:37	2°Y47'08 0°U 0°U 0°S 27°S04'50 0°N 22°N55'10 0°M 14°M17'24 13°M52'46 16°M37'31	0°39'48
asc. node greatest brilliancy retrograde evening set inferior conj minimum elong	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08 8479 Jan 31 07:27 8479 Feb 25 11:37 8479 Mar 03 22:37 8479 Mar 13 18:53 8479 Mar 30 03:42 8479 Apr 03 10:21 8479 Apr 03 00:29	0°る 0°≈ 0°¥ 21°¥46'55 0°Y 19°Y07'48 22°Y01'40 23°Y51'41 18°Y38'40 16°Y04'30 16°Y19'38	-4.9m 7°56'54 7°55'15	morning set asc. node superior conj minimum elong max. Earth dist.	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00 8481 Aug 12 05:41 8481 Aug 17 22:58 8481 Aug 29 12:16 8481 Aug 29 04:18 8481 Aug 31 09:37 8481 Sep 11 05:27	2°Y47'08 0°U 0°U 0°S 27°S04'50 0°A 22°A55'10 0°M 14°M17'24 13°M52'46 16°M37'31 0°Ω	0°39'48
asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08 8479 Jan 31 07:27 8479 Feb 25 11:37 8479 Mar 03 22:37 8479 Mar 13 18:53 8479 Mar 30 03:42 8479 Apr 03 10:21 8479 Apr 03 00:29 8479 Apr 03 04:58	0°る 0°≈ 0°¥ 21°¥46′55 0°Y 19°Y07′48 22°Y01′40 23°Y51′41 18°Y38′40 16°Y04′30 16°Y19′38 16°Y12′44	-4.9m 7°56'54 7°55'15	morning set asc. node superior conj minimum elong max. Earth dist.	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00 8481 Aug 12 05:41 8481 Aug 17 22:58 8481 Aug 29 12:16 8481 Aug 29 04:18 8481 Aug 31 09:37 8481 Sep 11 05:27 8481 Oct 05 05:44	2° Y 47'08 0° U 0° U 0° U 0° U 27° S 04'50 0° U 22° U 55'10 0° U 14° U 17'24 13° U 52'46 16° U 37'31 0° L 29° L 36'12	0°39'48
asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08 8479 Jan 31 07:27 8479 Feb 25 11:37 8479 Mar 03 22:37 8479 Mar 13 18:53 8479 Mar 30 03:42 8479 Apr 03 10:21 8479 Apr 03 00:29 8479 Apr 03 04:58 8479 Apr 06 21:15	0°₹ 0°≈ 0°¥ 21°¥46′55 0°Y 19°Y07′48 22°Y01′40 23°Y51′41 18°Y38′40 16°Y04′30 16°Y19′38 16°Y12′44 13°Y58′56	-4.9m 7°56'54 7°55'15 0.27046 AU	morning set asc. node superior conj minimum elong max. Earth dist.	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00 8481 Aug 12 05:41 8481 Aug 17 22:58 8481 Aug 29 12:16 8481 Aug 29 04:18 8481 Aug 31 09:37 8481 Sep 11 05:27 8481 Oct 05 05:44 8481 Oct 05 13:28	2°Y47'08 0°B 0°B 27°\$04'50 0°B 22°\$05'510 0°M 14°M17'24 13°M52'46 16°M37'31 0°£ 29°£36'12 0°M	0°39'48
asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08 8479 Jan 31 07:27 8479 Feb 25 11:37 8479 Mar 03 22:37 8479 Mar 13 18:53 8479 Mar 30 03:42 8479 Apr 03 10:21 8479 Apr 03 00:29 8479 Apr 03 04:58 8479 Apr 06 21:15 8479 Apr 24 01:18	0°₹ 0°₩ 21°₩46'55 0°Ψ 19°Ψ07'48 22°Ψ01'40 23°Ψ51'41 18°Ψ38'40 16°Ψ04'30 16°Ψ19'38 16°Ψ12'44 13°Ψ58'56 8°Ψ16'18	-4.9m 7°56'54 7°55'15 0.27046 AU	morning set asc. node superior conj minimum elong max. Earth dist.	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00 8481 Aug 12 05:41 8481 Aug 17 22:58 8481 Aug 29 12:16 8481 Aug 31 09:37 8481 Sep 11 05:27 8481 Oct 05 05:44 8481 Oct 05 13:28 8481 Oct 29 23:40	2°Y47'08 0°♥ 0°¶ 0°® 27°®04'50 0°\$ 22°\$05'510 0°\$ 14°\$\$17'24 13°\$\$52'46 16°\$\$37'31 0°\$ 29°\$36'12 0°\$ 0°\$	0°39'48
asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08 8479 Jan 31 07:27 8479 Feb 25 11:37 8479 Mar 03 22:37 8479 Mar 13 18:53 8479 Mar 30 03:42 8479 Apr 03 10:21 8479 Apr 03 00:29 8479 Apr 03 04:58 8479 Apr 06 21:15 8479 Apr 24 01:18 8479 May 03 17:46	0°ጜ 0°፠ 0°¥ 21°¥46'55 0°Y 19°Y07'48 22°Y01'40 23°Y51'41 18°Y38'40 16°Y04'30 16°Y19'38 16°Y12'44 13°Y58'56 8°Y16'18 10°Y03'02	-4.9m 7°56'54 7°55'15 0.27046 AU -4.9m	morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00 8481 Aug 12 05:41 8481 Aug 17 22:58 8481 Aug 29 12:16 8481 Aug 31 09:37 8481 Sep 11 05:27 8481 Oct 05 05:44 8481 Oct 05 13:28 8481 Oct 29 23:40 8481 Nov 23 12:55	2°Y47'08 0°႘ 0°Ⅱ 0°೪ 27°೪04'50 0°Ω 22°Ω55'10 0°ﺵ 14°₥17'24 13°₥52'46 16°₥37'31 0°Ω 29°Ω36'12 0°ጤ 0°% 0°उ	0°39'48
asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08 8479 Jan 31 07:27 8479 Feb 25 11:37 8479 Mar 03 22:37 8479 Mar 13 18:53 8479 Mar 30 03:42 8479 Apr 03 10:21 8479 Apr 03 00:29 8479 Apr 03 04:58 8479 Apr 06 21:15 8479 Apr 24 01:18 8479 May 03 17:46 8479 Jun 02 00:34	0°₹ 0°≈ 0°¥ 21°¥46'55 0°Υ 19°Υ07'48 22°Υ01'40 23°Υ51'41 18°Υ38'40 16°Υ04'30 16°Υ12'44 13°Υ58'56 8°Υ16'18 10°Υ03'02 0°႘ 10°႘58'32	-4.9m 7°56'54 7°55'15 0.27046 AU -4.9m	morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00 8481 Aug 12 05:41 8481 Aug 17 22:58 8481 Aug 29 12:16 8481 Aug 31 09:37 8481 Sep 11 05:27 8481 Oct 05 05:44 8481 Oct 05 13:28 8481 Oct 29 23:40 8481 Nov 23 12:55 8481 Dec 01 23:21	2°Y47'08 0°႘ 0°Ⅱ 0°೪ 27°೪04'50 0°Ω 22°Ω55'10 0°№ 14°№17'24 13°№52'46 16°№37'31 0°Ω 29°Ω36'12 0°№ 0°% 10°८15'57 0°%	0°39'48
asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08 8479 Jan 31 07:27 8479 Feb 25 11:37 8479 Mar 03 22:37 8479 Mar 13 18:53 8479 Mar 30 03:42 8479 Apr 03 10:21 8479 Apr 03 00:29 8479 Apr 03 04:58 8479 Apr 04 21:15 8479 Apr 05 21:15 8479 Apr 06 21:15 8479 Apr 07 08:29 8479 Apr 08 21:15 8479 Apr 09 09:34 8479 Jun 09 00:34 8479 Jun 13 11:40 8479 Jun 17 06:22	0°₹ 0°≈ 0°¥ 21°¥46'55 0°Υ 19°Υ07'48 22°Υ01'40 23°Υ51'41 18°Υ38'40 16°Υ04'30 16°Υ19'38 16°Υ12'44 13°Υ58'56 8°Υ16'18 10°Υ03'02 0°႘ 10°႘58'32 14°႘48'24	-4.9m 7°56'54 7°55'15 0.27046 AU -4.9m	morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00 8481 Aug 12 05:41 8481 Aug 17 22:58 8481 Aug 29 12:16 8481 Aug 29 04:18 8481 Aug 31 09:37 8481 Sep 11 05:27 8481 Oct 05 05:44 8481 Oct 05 13:28 8481 Oct 29 23:40 8481 Nov 23 12:55 8481 Dec 01 23:21 8481 Dec 18 05:48 8482 Jan 12 02:49	2°Y47'08 0°႘ 0°Ⅱ 0°೪ 27°೪04'50 0°Ω 22°Ω55'10 0°♍ 14°♍17'24 13°₥52'46 16°₥37'31 0°乒 29°乒36'12 0°♏ 0°Ґ 10°♂15'57	0°39'48
asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08 8479 Jan 31 07:27 8479 Feb 25 11:37 8479 Mar 03 22:37 8479 Mar 13 18:53 8479 Mar 30 03:42 8479 Apr 03 10:21 8479 Apr 03 00:29 8479 Apr 03 04:58 8479 Apr 06 21:15 8479 Apr 06 21:15 8479 Apr 07 00:34 8479 Jun 07 00:34 8479 Jun 17 06:22 8479 Jul 01 14:00	0°₹ 0°≈ 0°¥ 21°¥46'55 0°Υ 19°Υ07'48 22°Υ01'40 23°Υ51'41 18°Υ38'40 16°Υ04'30 16°Υ12'44 13°Υ58'56 8°Υ16'18 10°Υ03'02 0°₽ 10°₽58'32 14°₽48'24 0°Ⅱ	-4.9m 7°56'54 7°55'15 0.27046 AU -4.9m	morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00 8481 Aug 12 05:41 8481 Aug 17 22:58 8481 Aug 29 12:16 8481 Aug 29 04:18 8481 Aug 29 04:18 8481 Aug 31 09:37 8481 Sep 11 05:27 8481 Oct 05 05:44 8481 Oct 05 13:28 8481 Oct 05 13:28 8481 Oct 29 23:40 8481 Nov 23 12:55 8481 Dec 01 23:21 8481 Dec 18 05:48 8482 Jan 12 02:49 8482 Feb 06 06:07	2°Y47'08 0°႘ 0°႘ 0°႘ 27°೪04'50 0°Ω 22°Ω55'10 0°♍ 14°♍17'24 13°₥52'46 16°₥37'31 0°Ω 29°Ω36'12 0°♏ 0°% 10°♂15'57 0°≈ 0°ዧ 0°Υ	0°39'48
asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08 8479 Jan 31 07:27 8479 Feb 25 11:37 8479 Mar 03 22:37 8479 Mar 13 18:53 8479 Mar 30 03:42 8479 Apr 03 10:21 8479 Apr 03 00:29 8479 Apr 03 04:58 8479 Apr 06 21:15 8479 Apr 06 21:15 8479 May 03 17:46 8479 Jun 02 00:34 8479 Jun 13 11:40 8479 Jun 17 06:22 8479 Jul 01 14:00 8479 Jul 28 04:46	0°₹ 0°≈ 0°¥ 21°¥46'55 0°Ψ 19°Ψ07'48 22°Ψ01'40 23°Ψ51'41 18°Ψ38'40 16°Ψ04'30 16°Ψ19'38 16°Ψ12'44 13°Ψ58'56 8°Ψ16'18 10°Ψ03'02 0°℧ 10°℧58'32 14°℧48'24 0°Ⅱ 0°©	-4.9m 7°56'54 7°55'15 0.27046 AU -4.9m	morning set asc. node superior conj minimum elong max. Earth dist. evening rise desc. node	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00 8481 Aug 12 05:41 8481 Aug 17 22:58 8481 Aug 29 12:16 8481 Aug 29 04:18 8481 Aug 29 04:18 8481 Aug 31 09:37 8481 Sep 11 05:27 8481 Oct 05 05:44 8481 Oct 05 13:28 8481 Oct 05 13:28 8481 Oct 29 23:40 8481 Nov 23 12:55 8481 Dec 01 23:21 8481 Dec 18 05:48 8482 Jan 12 02:49 8482 Feb 06 06:07 8482 Mar 03 23:18	2°Y47'08 0°႘ 0°Ⅱ 0°ಽ 27°ಽ04'50 0°Ω 22°Ω55'10 0°₥ 14°₥17'24 13°₥52'46 16°₥37'31 0°료 29°료36'12 0°ጤ 0°Ґ 10°♂15'57 0°ѕ 0°ℋ 0°℃	0°39'48
asc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	8478 Nov 10 02:48 8478 Dec 05 22:33 8479 Jan 01 18:59 8479 Jan 22 17:08 8479 Jan 31 07:27 8479 Feb 25 11:37 8479 Mar 03 22:37 8479 Mar 13 18:53 8479 Mar 30 03:42 8479 Apr 03 10:21 8479 Apr 03 00:29 8479 Apr 03 04:58 8479 Apr 06 21:15 8479 Apr 06 21:15 8479 Apr 07 00:34 8479 Jun 07 00:34 8479 Jun 17 06:22 8479 Jul 01 14:00	0°₹ 0°≈ 0°¥ 21°¥46'55 0°Υ 19°Υ07'48 22°Υ01'40 23°Υ51'41 18°Υ38'40 16°Υ04'30 16°Υ12'44 13°Υ58'56 8°Υ16'18 10°Υ03'02 0°₽ 10°₽58'32 14°₽48'24 0°Ⅱ	-4.9m 7°56'54 7°55'15 0.27046 AU -4.9m	morning set asc. node superior conj minimum elong max. Earth dist. evening rise	8481 Apr 21 08:16 8481 May 13 09:07 8481 Jun 06 12:21 8481 Jun 30 14:41 8481 Jul 22 09:33 8481 Jul 24 18:00 8481 Aug 12 05:41 8481 Aug 17 22:58 8481 Aug 29 12:16 8481 Aug 29 04:18 8481 Aug 29 04:18 8481 Aug 31 09:37 8481 Sep 11 05:27 8481 Oct 05 05:44 8481 Oct 05 13:28 8481 Oct 05 13:28 8481 Oct 29 23:40 8481 Nov 23 12:55 8481 Dec 01 23:21 8481 Dec 18 05:48 8482 Jan 12 02:49 8482 Feb 06 06:07	2°Y47'08 0°႘ 0°႘ 0°႘ 27°೪04'50 0°Ω 22°Ω55'10 0°♍ 14°♍17'24 13°₥52'46 16°₥37'31 0°Ω 29°Ω36'12 0°♏ 0°% 10°♂15'57 0°≈ 0°ዧ 0°Υ	0°39'48

evening max el	8482 Apr 05 19:13	5° Ⅱ 44'05	46°59'31		8484 Sep 25 23:59	0∘ ⊽	
evening man er	8482 May 03 15:07	0°9	.0 5751	morning set	8484 Sep 30 05:46	5° ₽ 13'00	
greatest brilliancy	8482 May 16 04:58	6°942'30	-4.9m		8484 Oct 20 08:53	0°M	
retrograde	8482 May 26 07:18	8°937'20		max. Earth dist.	8484 Nov 05 04:09	19° ™ 29'06	1.73274 AU
evening set	8482 Jun 11 18:33	3°520'05					
inferior conj	8482 Jun 16 02:02	0°943'18	6°34'44	superior conj	8484 Nov 05 20:53	20°M20'41	1°25'48
minimum elong	8482 Jun 16 13:02	0° © 26'19	6°32'06	minimum elong	8484 Nov 05 22:04	20°M24'22	1°25'57
min. Earth dist.	8482 Jun 16 02:46	0°9542'09	0.27297 AU		8484 Nov 13 16:46	0° ∡ ¹	
	8482 Jun 17 06:09	30° Ŗ Ⅱ			8484 Dec 08 00:21	8°0	
morning rise	8482 Jun 21 07:50	27° Ⅱ 35'40		evening rise	8484 Dec 12 20:07	5° る 56'58	
direct	8482 Jul 06 21:00	22° Ⅱ 54'27		desc. node	8484 Dec 29 11:11	26° る 27'35	
desc. node	8482 Jul 14 17:56	24° Ⅱ 04'48			8485 Jan 01 08:04	0° ≈	
greatest brilliancy	8482 Jul 16 14:59	24° Ⅱ 40'44	-4.8m		8485 Jan 25 15:44	0° ∀	
	8482 Jul 27 09:15	0			8485 Feb 18 23:20	0° Y	
morning max el	8482 Aug 25 09:05	24° © 00'55	46°07'41		8485 Mar 15 08:22	0°B	
	8482 Aug 31 10:10	$0 ^{\circ} \Omega$			8485 Apr 08 22:53	0∘Щ	
	8482 Sep 28 13:50	0° m p		asc. node	8485 Apr 21 10:14	14° ∏ 59'11	
_	8482 Oct 24 23:06	0∘ ⊽			8485 May 04 02:45	0°99	
asc. node	8482 Nov 04 16:41	12° £ 31'43			8485 May 30 12:03	0° N	
	8482 Nov 19 10:53	0° M ₊		evening max el	8485 Jun 16 16:27	18° Ω 02'48	46°32'43
	8482 Dec 14 08:53	0° ∡			8485 Jun 29 07:10	0° m)	4.0
	8483 Jan 07 21:37	5°0		greatest brilliancy	8485 Jul 25 16:37	17° Mp 55'27	-4.8m
	8483 Feb 01 04:14	0°≈		retrograde	8485 Aug 05 18:05	20° m) 11'25	
morning set desc. node	8483 Feb 20 03:42	23°≈36'33		desc. node	8485 Aug 11 05:37	19° M) 34'53	
desc. node	8483 Feb 24 09:34	28°≈54'16 0° 米		evening set min. Earth dist.	8485 Aug 20 21:48	15° Mp 42'39	0.28345 AU
	8483 Feb 25 06:37 8483 Mar 21 05:51	0 Υ 0° Υ		inferior conj	8485 Aug 26 09:48 8485 Aug 27 02:30	12° My 00'05	
max. Earth dist.	8483 Mar 30 18:02	11° Υ 56'06	1.71318 AU	minimum elong	8485 Aug 26 18:42	12° my 12'15	
max. Latin dist.	8483 Wai 30 18.02	11 1 30 00	1./1316 AU	morning rise	8485 Sep 01 16:05	8° mp 39'11	3 44 32
superior conj	8483 Apr 01 15:07	14° Ƴ 17'39	-1°14'10	direct	8485 Sep 17 07:25	3° m) 56'54	
minimum elong	8483 Apr 01 04:17	13° Y 43'39		greatest brilliancy	8485 Sep 27 01:52	5° Mp 40'02	-4.7m
minimum crong	8483 Apr 14 03:01	0°8	1 13 33	greatest orimane,	8485 Nov 01 03:16	ე° <u>ი</u>	1.7111
	8483 May 07 23:48	0°II		morning max el	8485 Nov 04 23:42	3° ₽ 37'25	45°41'29
evening rise	8483 May 12 03:40	5° Ⅱ 13'29		5 5	8485 Nov 30 14:27	0°M₊	
C	8483 May 31 22:20	0°©		asc. node	8485 Dec 02 04:44	1° M 44'24	
asc. node	8483 Jun 17 07:32	20°525'14			8485 Dec 27 04:50	0° ∡ ¹	
	8483 Jun 25 00:46	$0^{\circ}\Omega$			8486 Jan 21 13:49	ರ°0	
	8483 Jul 19 09:04	0° m p			8486 Feb 15 07:09	0° ≈	
	8483 Aug 13 01:44	0∘ ⊽			8486 Mar 11 15:18	0°) €	
	8483 Sep 07 07:25	0° M ₊		desc. node	8486 Mar 23 21:50	15° ¥ 15′03	
	8483 Oct 03 11:27	0° ∡ ¹			8486 Apr 04 17:37	0° Y	
desc. node	8483 Oct 07 02:16	4° ⋌ 101'18			8486 Apr 28 16:22	0°8	
	8483 Oct 31 12:40	0° ප		morning set	8486 May 07 03:05	10° 8 36'12	
evening max el	8483 Nov 09 02:44	8° පි 26'51	45°47'20		8486 May 22 13:44	Π °0	
	8483 Dec 05 03:24	0° ≈			8486 Jun 15 11:54	0 \circ	
greatest brilliancy	8483 Dec 18 11:15	6° ≈ 44'44	-4.8m			_	
retrograde	8483 Dec 27 22:01	8°≈22'46		superior conj	8486 Jun 16 04:53	0°553'09	
evening set	8484 Jan 12 01:56	3°≈57'32	2020155	minimum elong	8486 Jun 16 16:17	1°528'52	
inferior conj	8484 Jan 17 22:50	0°≈28'07		max. Earth dist.	8486 Jun 19 06:01	4°9541'57	1.71701 AU
minimum elong	8484 Jan 18 04:22	0°≈19'32		1-	8486 Jul 09 12:29	0°Ω	
min. Earth dist.	8484 Jan 18 16:08 8484 Jan 18 16:57	0°≈0116 30° Ŗ る	0.27784 AU	asc. node evening rise	8486 Jul 14 19:34 8486 Jul 25 15:21	6°Ω35'28 20°Ω02'10	
morning rise	8484 Jan 24 05:59	26°る42'43		evening rise	8486 Aug 02 16:22	0°m)	
asc. node	8484 Jan 28 02:09	24°පි49'10			8486 Aug 27 00:06	0° <u>∿</u>	
direct	8484 Feb 08 00:34	22°る24'07			8486 Sep 20 12:53	0° m .	
greatest brilliancy	8484 Feb 19 00:37	22 ප 2407 24° පි 38'43	-4.8m		8486 Oct 15 08:53	0° ⊼ ¹	
greatest similare	8484 Feb 29 04:55	0°≈		desc. node	8486 Nov 03 13:39	22° х 51′09	
morning max el	8484 Mar 29 09:21	25°≈03'24	46°50'02		8486 Nov 09 15:13	0°る	
	8484 Apr 03 05:19	0°) €			8486 Dec 05 12:35	0° ≈	
	8484 Apr 30 12:29	$0^{\circ}\mathbf{\Upsilon}$			8487 Jan 01 12:22	0° ∀	
desc. node	8484 May 18 20:29	21° Y 22'16		evening max el	8487 Jan 20 07:43	19° ¥ 28'15	46°28'31
	8484 May 26 02:49	0°8		-	8487 Jan 31 11:34	0° Y	
	8484 Jun 20 00:20	$\Pi^{\circ}0$		asc. node	8487 Feb 24 13:39	17° Y ′30'42	
	8484 Jul 14 14:45	0ංම		greatest brilliancy	8487 Mar 01 10:33	19° Y 35'33	-4.9m
	8484 Aug 08 02:43	0 $^{\circ}$ Ω		retrograde	8487 Mar 11 08:15	21° Y ′26′16	
	8484 Sep 01 13:49	0° m		evening set	8487 Mar 27 12:03	16° Ƴ 19'35	
asc. node	8484 Sep 08 18:04	8° m 48'38		inferior conj	8487 Mar 31 23:04	13° Y 39'01	7°44'14

minimum along	9497 Mar. 21, 12:47	13° Ƴ 54'46	7°42'23		9490 Oct 04 22:59	0°M	
minimum elong min. Earth dist.	8487 Mar 31 12:47 8487 Mar 31 17:22	13 Y 34 46	0.27043 AU		8489 Oct 04 23:58 8489 Oct 29 10:19	0 IIL 0° ∡ 7	
morning rise	8487 Apr 04 13:33	13 γ 47 43 11° Υ 28'16	0.27043 AU		8489 Nov 22 23:52	0°る	
direct	8487 Apr 21 14:45	5° Υ 50'49		desc. node	8489 Dec 01 01:22	0 0 9° る 48'15	
greatest brilliancy	8487 May 01 06:30	7° Υ 37'19	-4.9m	desc. node	8489 Dec 01 01.22 8489 Dec 17 17:16	9°≈	
greatest billiancy	8487 Jun 02 04:27	0° 8	-4.9111		8490 Jan 11 15:02	0 ≈ 0° ∺	
morning max el	8487 Jun 11 02:03	8° 8 37'48	46°53'03		8490 Feb 05 19:33	0	
desc. node	8487 Jun 16 08:19	13° 8 59'26	40 33 03		8490 Mar 03 14:54	0°8	
desc. node	8487 Jul 01 07:24	0°Ⅱ		asc. node	8490 Mar 24 00:49	22° 8 35'49	
	8487 Jul 27 18:53	0° ©		ase. node	8490 Mar 31 02:06	0°Ⅱ	
	8487 Aug 22 08:42	0° U		evening max el	8490 Apr 03 08:19	3° Ⅱ 19'25	46°59'23
	8487 Sep 16 12:26	0° mp		evening max er	8490 May 04 22:11	0°95	40 37 23
asc. node	8487 Oct 07 06:18	24° mp 59'48		greatest brilliancy	8490 May 13 20:16	4°9521'13	-4.9m
asc. node	8487 Oct 11 09:29	ე° <u>ი</u>		retrograde	8490 May 23 20:25	6°9514'14	-4 .7III
	8487 Nov 05 00:51	0° m .		evening set	8490 Jun 09 11:30	0°952'31	
	8487 Nov 29 11:28	0° x 7⊓		evening set	8490 Jun 10 22:51	30°R I	
morning set	8487 Dec 08 17:42	11° ×7 24'52		inferior conj	8490 Jun 13 15:26	28° II 20'53	6°51'04
morning set	8487 Dec 23 18:37	0°る		minimum elong	8490 Jun 14 02:23	28° I I03'57	
max. Earth dist.	8488 Jan 12 17:27	24°る43'40	1.72482 AU	min. Earth dist.	8490 Jun 13 16:45	28° Ⅱ 18'51	0.27279 AU
max. Lattii dist.	0400 Jan 12 17.27	24 043 40	1.72402 AU	morning rise	8490 Jun 18 17:29	25° I 18'08	0.27277 AC
superior conj	8488 Jan 15 05:10	27° ♂ 48'58	0°27'59	direct	8490 Jul 04 09:41	20° I 32'14	
minimum elong	8488 Jan 15 11:26	28° පි 08'25	0°27'52	desc. node	8490 Jul 13 20:03	22° I 11'35	
minimum clong	8488 Jan 16 23:22	20 ⊙ 00 23	0 27 32	greatest brilliancy	8490 Jul 14 04:16	22° I 11'33	-4.8m
desc. node	8488 Jan 26 23:20	0 ~ 12° ≈ 25'43		greatest orimaney	8490 Jul 28 12:52	0°95	- 4 .0111
desc. node	8488 Feb 10 02:05	0°) €		morning max el	8490 Aug 22 22:09	21° © 40'21	46°09'18
evening rise	8488 Feb 23 07:55	16°) (31'10		morning max er	8490 Aug 31 06:28	0°Ω	40 07 10
evening rise	8488 Mar 05 02:55	0°Υ			8490 Sep 28 04:51	0° m)	
	8488 Mar 29 02:45	0°8			8490 Oct 24 11:58	0∘ ত الم	
	8488 Apr 22 03:33	0°II		asc. node	8490 Nov 03 18:37	ა _ 12° ჲ 01'14	
	8488 May 16 08:27	0° ©		ase. node	8490 Nov 18 22:40	0°M	
asc. node	8488 May 18 21:45	3° © 08'46			8490 Dec 13 20:04	0° ∡ 7	
ase. Houe	8488 Jun 09 21:27	0°Ω			8491 Jan 07 08:31	0°ਤ	
	8488 Jul 05 00:32	0° m)			8491 Jan 31 15:01	0° ≈	
	8488 Jul 31 05:54	0° ∿		morning set	8491 Feb 17 16:24	21°≈12'54	
evening max el	8488 Aug 26 12:52	27° ⊆ 33'00	45°50'18	desc. node	8491 Feb 23 11:28	28°≈26'38	
evening max er	8488 Aug 29 01:59	0°M	45 50 10	dese. Hode	8491 Feb 24 17:23	0° ₩	
desc. node	8488 Sep 07 16:59	8°M44'35			8491 Mar 20 16:39	0° Υ	
greatest brilliancy	8488 Oct 04 05:56	25°M58'14	-4.7m	max. Earth dist.	8491 Mar 27 23:02	9° Υ '07'15	1.71344 AU
retrograde	8488 Oct 14 13:26	27°M53'01	4.7111	max. Earth dist.	04)1 With 27 25.02	7 1 07 13	1.71544710
evening set	8488 Nov 01 19:18	21°M38'15		superior conj	8491 Mar 30 02:14	11° Y '47'57	-1°11'59
inferior conj	8488 Nov 05 01:30	19°M36'27	-8°37'37	minimum elong	8491 Mar 29 15:01	11° Y 12'46	
minimum elong	8488 Nov 05 02:29	19°M34'54		minimum clong	8491 Apr 13 13:50	0°8	1 11 71
min. Earth dist.	8488 Nov 05 04:40	19°M31'28	0.29145 AU		8491 May 07 10:38	0°II	
morning rise	8488 Nov 08 09:41	17°M31'46	0.27143710	evening rise	8491 May 09 14:07	2° I I41'36	
direct	8488 Nov 26 15:20	11°ML18'18		evening rise	8491 May 31 09:15	0°95	
greatest brilliancy	8488 Dec 07 04:29	13°M20'16	-4.8m	asc. node	8491 Jun 16 09:35	19° © 57'23	
asc. node	8488 Dec 29 16:30	27°M26'18	4.0111	ase. node	8491 Jun 24 11:50	0°Ω	
ase. Houe	8489 Jan 01 17:32	0° √			8491 Jul 18 20:25	0° m)	
morning max el	8489 Jan 15 02:07	12° ₹ 23'21	46°04'11		8491 Aug 12 13:35	0∘ ⊽	
morning max or	8489 Feb 01 01:43	0°る	10 0111		8491 Sep 06 20:13	0° m	
	8489 Feb 27 16:03	0° ≈			8491 Oct 03 02:12	0° ∡ 7	
	8489 Mar 24 22:34	0° ₩		desc. node	8491 Oct 06 04:11	3° ∡ 724'46	
	8489 Apr 18 13:39	0°Υ		dese. Hode	8491 Oct 31 08:33	0° る	
desc. node	8489 Apr 20 10:11	2° Υ 16'48		evening max el	8491 Nov 06 16:25	6° る 10'55	45°46'40
desc. Hode	8489 May 12 20:29	0° 8		evening max er	8491 Dec 06 09:18	0°≈	45 40 40
	8489 Jun 05 23:25	0°II		greatest brilliancy	8491 Dec 16 01:31	4° ≈ 29'09	-4.8m
	8489 Jun 30 01:31	0ಂ ತಾ		retrograde	8491 Dec 25 12:11	6° ≈ 07'19	4.0111
morning set	8489 Jul 20 00:22	24°5948'43		evening set	8492 Jan 09 18:26	1°≈38'21	
morning out	8489 Jul 24 04:39	0°Ω		5. C 500	8492 Jan 12 14:45	30°Rる	
asc. node	8489 Aug 11 07:42	22° Ω 28'45		inferior conj	8492 Jan 15 13:28	28°る11'42	-2°51'46
450. HOUC	8489 Aug 17 09:29	0° M)		minimum elong	8492 Jan 15 19:41	28°る02'05	
	0707 Aug 17 07.29	עוויי		min. Earth dist.	8492 Jan 16 07:33	28 3 02 03 27° る 43'41	0.27842 AU
superior conj	8489 Aug 27 04:38	12° Mp 07'12	0°37'12	morning rise	8492 Jan 21 20:05	27 34341 24° る 27'04	0.27042 AU
minimum elong	8489 Aug 26 21:06	12 mp 07 12 11° mp 43'55		asc. node	8492 Jan 27 04:07	24 82704 21° る 56'26	
max. Earth dist.	0707 Aug 40 41.00	כככורעווייי	0 30 47	asc. nouc	07/2 Jan 2/ 04.0/	21 03020	
man, Larui aist.	8489 Aug 29 05:08	14° m 37'02	1 72926 ATT	direct	8492 Feb. 05. 15:22	20°₹06;33	
	8489 Aug 29 05:08 8489 Sep. 10 15:54		1.72926 AU	direct	8492 Feb 05 15:22 8492 Feb 16 17:04	20°る06'33 22°る22'45	-4 8m
evening rise	8489 Aug 29 05:08 8489 Sep 10 15:54 8489 Oct 02 23:25	14° № 37'08 0° <u>Ω</u> 27° <u>Ω</u> 30'36	1.72926 AU	direct greatest brilliancy	8492 Feb 05 15:22 8492 Feb 16 17:04 8492 Mar 01 05:13	20°る06'33 22°る22'45 0°≈	-4.8m

morning max el	8492 Mar 27 00:27	22° ≈ 44'58	46°48'51		8494 Nov 09 04:00	8°0	
morning max cr	8492 Apr 03 01:30	0° ∀	40 40 51		8494 Dec 05 03:02	0° ≈	
	8492 Apr 30 03:53	0° Υ			8495 Jan 01 06:25	0° ∀	
desc. node	8492 May 17 22:27	20° Y 47'04		evening max el	8495 Jan 17 22:54	17° ¥ 10'38	46°26'58
dese. Hode	8492 May 25 16:16	0°8		evening max er	8495 Jan 31 17:51	0° Υ	10 20 30
	8492 Jun 19 12:42	0°II		asc. node	8495 Feb 23 15:32	15° Ƴ 49'41	
	8492 Jul 14 02:27	0°©		greatest brilliancy	8495 Feb 26 23:04	17° Υ 10'11	-4.9m
	8492 Aug 07 13:58	$0 {\circ} \Omega$		retrograde	8495 Mar 08 21:28	19° Υ '00'57	4.7111
	8492 Sep 01 00:45	0° m/y		evening set	8495 Mar 24 20:51	14° Υ 00'41	
asc. node	8492 Sep 07 19:54	8° Mp 20'55		inferior conj	8495 Mar 29 12:03	11° Υ 13'50	7°30'43
asc. Houc	8492 Sep 25 10:43	0∘ ღ		minimum elong	8495 Mar 29 01:28		7°28'42
morning set	8492 Sep 27 22:42	ა 3° 04'29		min. Earth dist.	8495 Mar 29 06:13	11° Υ 22'47	0.27041 AU
morning set	•	0°M				8° Υ 57'41	0.27041 AU
Earth diet	8492 Oct 19 19:29		1 72202 ATT	morning rise	8495 Apr 02 06:09	3° Υ 25'46	
max. Earth dist.	8492 Nov 03 00:24	17°M30'50	1.73283 AU	direct	8495 Apr 19 04:25	5°Υ11'51	-4.9m
	9402 N 02 14-25	100 m 14125	1025157	greatest brilliancy	8495 Apr 28 19:37		-4.9m
superior conj	8492 Nov 03 14:35	18°M14'35	1°25'57		8495 Jun 02 06:59	0° 8	46052145
minimum elong	8492 Nov 03 15:03	18°M16'02	1°26'05	morning max el	8495 Jun 08 15:47	6° 8 14'38	46°53'45
	8492 Nov 13 03:21	0° ∡		desc. node	8495 Jun 15 10:26	13° 8 10'55	
	8492 Dec 07 11:02	0°る			8495 Jul 01 00:48	0°∏	
evening rise	8492 Dec 10 12:35	3°₹46'45			8495 Jul 27 09:17	0°©	
desc. node	8492 Dec 28 13:15	26° る 00'31			8495 Aug 21 21:36	0 \circ Ω	
	8492 Dec 31 18:56	0° ≈			8495 Sep 16 00:25	0° m)	
	8493 Jan 25 02:53	0° ∀		asc. node	8495 Oct 06 08:18	24° m 31'05	
	8493 Feb 18 10:52	0 ° $\mathbf{\gamma}$			8495 Oct 10 20:53	0∘ ⊽	
	8493 Mar 14 20:26	9° 8			8495 Nov 04 11:54	0° M	
	8493 Apr 08 11:49	Π $^{\circ}0$			8495 Nov 28 22:21	0° ∡ ¹	
asc. node	8493 Apr 20 12:08	14° Ⅱ 24'29		morning set	8495 Dec 06 10:32	9° ∡ 15'19	
	8493 May 03 17:10	0 \circ \odot			8495 Dec 23 05:28	0°ප	
	8493 May 30 05:46	$0 {\circ} \Omega$		max. Earth dist.	8496 Jan 10 07:14	22° る 23'48	1.72521 AU
evening max el	8493 Jun 14 07:41	15° Ω 45'58	46°34'25				
	8493 Jun 29 12:54	O° Mp		superior conj	8496 Jan 12 20:02	25° る 32'26	0°31'19
greatest brilliancy	8493 Jul 23 07:54	15° Mp 40'13	-4.8m	minimum elong	8496 Jan 13 02:54	25° る 53'45	0°31'10
retrograde	8493 Aug 03 10:19	17° m 57'04			8496 Jan 16 10:15	0° ≈	
desc. node	8493 Aug 10 07:31	16° m 59'07		desc. node	8496 Jan 26 01:14	11° ≈ 57'41	
evening set	8493 Aug 18 11:53	13° m 30'02			8496 Feb 09 13:02	0°) €	
min. Earth dist.	8493 Aug 24 01:03	10° Mp 12'03	0.28295 AU	evening rise	8496 Feb 20 21:11	14°) €08'20	
inferior conj	8493 Aug 24 17:44	9° Mp 46'07	-3°27'46		8496 Mar 04 14:00	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	8493 Aug 24 10:28	9° m 57'26	3°25'48		8496 Mar 28 14:00	0°8	
morning rise	8493 Aug 30 09:37	6° m 22'31			8496 Apr 21 15:03	$\Pi^{\circ}0$	
direct	8493 Sep 14 22:17	1° m 43'31			8496 May 15 20:17	0°ಅ	
greatest brilliancy	8493 Sep 24 16:26	3° m 26'48	-4.7m	asc. node	8496 May 17 23:50	2° © 38'36	
,	8493 Nov 01 02:59	0∘ <u>⊽</u>			8496 Jun 09 09:54	$0^{\circ}\Omega$	
morning max el	8493 Nov 02 15:49		45°41'38		8496 Jul 04 14:08	0° m)	
. 8	8493 Nov 30 06:22	0°M			8496 Jul 30 22:01	0° <u>ٽ</u>	
asc. node	8493 Dec 01 06:46	1°M06'52		evening max el	8496 Aug 24 04:21	25° Ω 20'03	45°51'12
	8493 Dec 26 18:11	0° ∡ ¹		<i>8</i>	8496 Aug 29 01:44	0°M₊	
	8494 Jan 21 02:02	0°ප		desc. node	8496 Sep 06 18:55	7° M 45'59	
	8494 Feb 14 18:47	0° ≈		greatest brilliancy	8496 Oct 01 21:33	23°M47'59	-4.7m
	8494 Mar 11 02:36	0°) €		retrograde	8496 Oct 12 04:58	25°M42'57	
desc. node	8494 Mar 22 23:45	14°) (46'12		evening set	8496 Oct 30 11:02	19°M29'03	
	8494 Apr 04 04:44	0°Υ		inferior conj	8496 Nov 02 17:47	17° M 26'18	-8°38'09
	8494 Apr 28 03:23	0°8		minimum elong	8496 Nov 02 17:59	17°M25'59	
morning set	8494 May 04 13:59	8° 8 05'10		min. Earth dist.	8496 Nov 02 19:57	17°M22'52	0.29152 AU
morning sec	8494 May 22 00:42	0°II		morning rise	8496 Nov 06 00:55	15°M23'00	0.27102110
	0494 May 22 00.42	о д		direct	8496 Nov 24 07:30	9°M08'25	
superior conj	8494 Jun 13 17:05	28° Ⅱ 26'51	-1°05'14	greatest brilliancy	8496 Dec 04 19:39	11°M08'55	-4.7m
minimum elong	8494 Jun 14 04:30	28 H 2031 29° H 02'35		asc. node	8496 Dec 28 18:31	26°M25'20	7./111
ciong	8494 Jun 14 22:50	0°95	1 03 02	450. HOGO	8497 Jan 01 21:54	20 11 0 23 20 0° √ 1	
max. Earth dist.	8494 Jun 16 17:01	0 S 2°S12'00	1.71664 AU	morning max el	8497 Jan 12 16:25	0 x · 10° x 706'30	46°02'40
max. Darui uist.	8494 Jul 08 23:25	2 3 1200 0° Ω	1./1004 AU	morning max ci	8497 Jan 31 18:56	0°중	TO 02 HU
asc. node	8494 Jul 13 21:31	6° Ω 07'36			8497 Feb 27 06:13	0° ≈	
	8494 Jul 23 05:46	17° Ω 44'11			8497 Feb 27 06:13 8497 Mar 24 11:22	0° ∺	
evening rise						0° π 0° Υ	
	8494 Aug 02 03:18	0 ்⊽ 0∘∭		desc. node	8497 Apr 18 01:44	0° γ 1° Υ 45'52	
	8494 Aug 26 11:09	0° ™		desc. Hode	8497 Apr 19 12:10	1°1′45′52 0° と	
	8494 Sep 20 00:13				8497 May 12 08:08 8497 Jun 05 10:45	0°Β	
daga ::	8494 Oct 14 20:45	0°⊀ ⁷ 22°. 7 20/16				0ಂ ತಾ ೧∝π	
desc. node	8494 Nov 02 15:41	22° ≯ 20'16			8497 Jun 29 12:37	0 50	

	0.405 x 1 15 15 14	222			0500 X 06 02 12	200-7	
morning set	8497 Jul 17 15:14	22°531'48			8500 Jan 06 03:42	30°Rる	
1	8497 Jul 23 15:35	0° N		evening set	8500 Jan 07 11:02	29°る18'05	2012/21
asc. node	8497 Aug 10 09:33	22° Ω 00'49		inferior conj	8500 Jan 13 04:01	25°₹54'16	
	8497 Aug 16 20:19	0° m		minimum elong	8500 Jan 13 10:52	25°₹43'39	0.27900 AU
superior conj	8497 Aug 24 20:53	9° m 55'36	0°24'06	min. Earth dist. morning rise	8500 Jan 13 22:33 8500 Jan 19 09:55	25°る25'35 22°る10'50	0.27900 AU
minimum elong	8497 Aug 24 20.33 8497 Aug 24 13:51	9° My 33'50	0°33'42	asc. node	8500 Jan 26 06:00	19° る 07'36	
max. Earth dist.	8497 Aug 24 13:31 8497 Aug 26 22:38	12° mp 29'23	1.72894 AU	direct	8500 Feb 03 06:41	19 3 07 30	
max. Lattii dist.	8497 Sep 10 02:44	12 m/2)23 0° Ω	1.72074 AU	greatest brilliancy	8500 Feb 14 08:56	20°る05'28	-4.8m
evening rise	8497 Sep 30 16:51	ა — 25° Ω 23'04		greatest oriminate	8500 Mar 02 23:24	0°≈	1.0111
e vennig rise	8497 Oct 04 10:51	0°M		morning max el	8500 Mar 25 16:06	20°≈27'36	46°47'39
	8497 Oct 28 21:21	0° ∡ 7			8500 Apr 03 21:14	0° ∀	., .,
	8497 Nov 22 11:13	0°ප			8500 Apr 30 19:10	0°Υ	
desc. node	8497 Nov 30 03:22	9° ට 19'26		desc. node	8500 May 18 00:29	20° Υ 11'58	
	8497 Dec 17 05:06	0° ≈			8500 May 26 05:42	0°8	
	8498 Jan 11 03:40	0°) €			8500 Jun 20 01:07	0° I I	
	8498 Feb 05 09:25	$0^{\circ}\mathbf{\Upsilon}$			8500 Jul 14 14:14	0ಂತ	
	8498 Mar 03 07:04	0° ႘			8500 Aug 08 01:18	$0^{\circ}\Omega$	
asc. node	8498 Mar 23 02:51	21° 8 48'39			8500 Sep 01 11:46	0° m	
	8498 Mar 31 00:08	0°Ⅲ		asc. node	8500 Sep 07 21:55	7° m 53'31	
evening max el	8498 Mar 31 20:54	0° Ⅱ 52'35	46°59'12		8500 Sep 25 21:30	0∘ ত	
	8498 May 06 20:44	0ಂತ		morning set	8500 Sep 26 15:45	0° £ 56′08	
greatest brilliancy	8498 May 11 11:29	1° 9 58'56	-4.9m	-	8500 Oct 20 06:10	0° M .	
retrograde	8498 May 21 09:34	3°950'36					
	8498 Jun 04 07:25	30°RⅡ		superior conj	8500 Nov 02 08:17	16°ML08'11	1°25'58
evening set	8498 Jun 07 04:30	28° Ⅲ 24′02		minimum elong	8500 Nov 02 08:01	16°M07'24	1°26'07
inferior conj	8498 Jun 11 04:52	25° Ⅱ 57'49	7°06'30	max. Earth dist.	8500 Nov 01 22:04	15°M36'42	1.73293 AU
minimum elong	8498 Jun 11 15:43	25° Ⅱ 41′03	7°04'06		8500 Nov 13 14:03	0° ∡ ″	
min. Earth dist.	8498 Jun 11 06:51	25° ∏ 54'44	0.27263 AU		8500 Dec 07 21:51	0°ಕ	
morning rise	8498 Jun 16 03:04	23° Ⅱ 00′21		evening rise	8500 Dec 09 04:56	1° る 35'50	
direct	8498 Jul 01 22:10	18° Ⅱ 09'08		desc. node	8500 Dec 28 15:08	25° る 32'26	
greatest brilliancy	8498 Jul 11 17:52	19° Ⅱ 56'14	-4.8m		8501 Jan 01 05:58	0° ≈	
desc. node	8498 Jul 12 21:54	20° Ⅱ 21'57			8501 Jan 25 14:11	0° ∀	
	8498 Jul 29 09:20	0_{\circ} වෙ			8501 Feb 18 22:32	0°Υ	
morning max el	8498 Aug 20 11:35	19° © 19'51	46°10'56		8501 Mar 15 08:38	0°B	
	8498 Aug 31 02:24	0 $^{\circ}$ Ω			8501 Apr 09 00:52	$\Pi^{\circ 0}$	
	8498 Sep 27 19:57	0° m		asc. node	8501 Apr 20 14:13	13° Ⅱ 50'05	
	8498 Oct 24 01:04	0∘ ⊽			8501 May 04 07:47	0°©	
asc. node	8498 Nov 02 20:39	11° Ω 30'10			8501 May 30 23:56	0° Ω	46026101
	8498 Nov 18 10:44	0°M		evening max el	8501 Jun 12 23:38	13° Ω 30'52	46°36'01
	8498 Dec 13 07:34	0° ∡		1 '11'	8501 Jun 30 21:00	0° Mp	4.0
	8499 Jan 06 19:41	0°る		greatest brilliancy	8501 Jul 21 23:19	13° Mp 24'58	-4.8m
marning sat	8499 Jan 31 02:03	0°≈ 18°≈48'57		retrograde	8501 Aug 02 02:30	15° Mp 42'13	
morning set desc. node	8499 Feb 15 05:12 8499 Feb 22 13:20	16 ≈46 37 27°≈58'09		desc. node	8501 Aug 17 02:07	14° Mp 18'07 11° Mp 17'00	
desc. Hode	8499 Feb 24 04:22	27 ≈3809 0° H		evening set min. Earth dist.	8501 Aug 17 02:07 8501 Aug 22 16:09	7° Mp 57'47	0.28243 AU
	8499 Mar 20 03:38	0° Υ		inferior conj	8501 Aug 23 08:52	7° Mg 31'49	
max. Earth dist.	8499 Mar 25 07:32	6° Υ 28'44	1.71373 AU	minimum elong	8501 Aug 23 08:32 8501 Aug 23 02:10	7° Mp 42'13	
max. Dartii dist.	019914141 25 07.52	0 12011	1.71373710	morning rise	8501 Aug 29 02:54	4° mp 05'37	3 00 17
superior conj	8499 Mar 27 13:25	9° Ƴ 17'51	-1°09'39		8501 Sep 08 13:22	30°R Ω	
minimum elong	8499 Mar 27 01:55	8° Υ 41'44		direct	8501 Sep 13 13:27	29° Ω 30′03	
	8499 Apr 13 00:52	0°8	-		8501 Sep 18 16:49	0° m	
	8499 May 06 21:42	0°Ⅲ		greatest brilliancy	8501 Sep 23 06:29	1° mp 12'52	-4.7m
evening rise	8499 May 07 00:49	0° Ⅱ 09'47		morning max el	8501 Nov 01 07:36	29° m 16'56	45°41'47
•	8499 May 30 20:23	0ಂತ		•	8501 Nov 02 01:35	0° ت	
asc. node	8499 Jun 15 11:32	19° 5 28'30			8501 Nov 30 21:56	0° M .	
	8499 Jun 23 23:07	$0^{\circ}\Omega$		asc. node	8501 Dec 01 08:44	0°M29'46	
	8499 Jul 18 07:57	0° m			8501 Dec 27 07:23	0° ∡ ¹	
	8499 Aug 12 01:39	0० ⊽			8502 Jan 21 14:11	0°ರ	
	8499 Sep 06 09:16	0°M₊			8502 Feb 15 06:24	0° ≈	
	8499 Oct 02 17:23	0° ∡ °			8502 Mar 11 13:55	0° ∀	
desc. node	8499 Oct 05 06:12	2° ∡ ⁴47'35		desc. node	8502 Mar 23 01:49	14°) (17′43	
	8499 Oct 31 05:27	0°రె			8502 Apr 04 15:50	0° Υ	
evening max el	8499 Nov 04 06:54	3° る 56'12	45°45'55		8502 Apr 28 14:21	0° 8	
	8499 Dec 08 06:03	0° ≈		morning set	8502 May 03 00:39	5° 8 33'39	
greatest brilliancy	8499 Dec 13 15:12	2°≈12'05	-4.8m		8502 May 22 11:35	Π $^{\circ}0$	
retrograde	8499 Dec 23 02:41	3°≈50'52					

superior conj	8502 Jun 12 05:08	26° Ⅱ 00'20	-1°07'44	greatest brilliancy	8504 Dec 03 11:26	8°M59'21	-4 7m
minimum elong	8502 Jun 12 16:27	26° I 35'47		asc. node	8504 Dec 28 20:21	25°M26'31	,
· ·	8502 Jun 15 09:40	0°©			8505 Jan 03 00:07	0° ∡ ¹	
max. Earth dist.	8502 Jun 15 06:19	29° Ⅱ 49'32	1.71626 AU	morning max el	8505 Jan 11 06:43	7° ∡ ′50'46	46°01'21
	8502 Jul 09 10:13	$0^{\circ}\Omega$		•	8505 Feb 01 11:24	8°0	
asc. node	8502 Jul 13 23:24	5° Ω 39'48			8505 Feb 27 19:51	0° ≈	
evening rise	8502 Jul 21 20:03	15° Ω 26′01			8505 Mar 24 23:46	0°) €	
	8502 Aug 02 14:07	0° m)			8505 Apr 18 13:29	$0^{\circ}\Upsilon$	
	8502 Aug 26 22:06	0∘ ⊽		desc. node	8505 Apr 19 14:08	1° Y 15'53	
	8502 Sep 20 11:26	0°M₊			8505 May 12 19:30	0°8	
	8502 Oct 15 08:30	0° ∡ ¹			8505 Jun 05 21:50	Π $^{\circ}0$	
desc. node	8502 Nov 02 17:43	21° х 49'50			8505 Jun 29 23:27	0 \circ \odot	
	8502 Nov 09 16:41	0°₹		morning set	8505 Jul 16 05:38	20°9514'06	
	8502 Dec 05 17:30	0° ≈			8505 Jul 24 02:14	0 $^{\circ}\Omega$	
	8503 Jan 02 00:46	0° ∀		asc. node	8505 Aug 10 11:34	21° Ω 34'17	
evening max el	8503 Jan 16 13:12	14° ¥ 51′03	46°25'06		8505 Aug 17 06:51	0° ™	
	8503 Feb 02 02:35	0°Υ					
asc. node	8503 Feb 23 17:35	14° Y 04'28	4.0	superior conj	8505 Aug 23 12:51	7° Mp 44'04	0°30'56
greatest brilliancy	8503 Feb 25 11:56	14° Y 44'51	-4.9m	minimum elong	8505 Aug 23 06:20	7° Mp 23'57	0°30'33
retrograde	8503 Mar 07 09:52	16° Y 34'52 11° Y 41'06		max. Earth dist.	8505 Aug 25 15:09	10° ™ 19'38 0° ₽	1.72858 AU
evening set	8503 Mar 23 05:27 8503 Mar 28 00:47	8° Y 48'07	7°16'08	avanina riaa	8505 Sep 10 13:13 8505 Sep 29 10:17	23° £ 16'33	
inferior conj minimum elong	8503 Mar 27 13:57	8 1 48 07 9° Υ 04'47	7°13'59	evening rise	8505 Oct 04 21:24	23 = 1033	
min. Earth dist.	8503 Mar 27 19:18	8°Υ56'33	0.27039 AU		8505 Oct 04 21:24 8505 Oct 29 08:05	0° ⊼ 1	
morning rise	8503 Mar 31 22:30	6° Υ 26'26	0.27039 AU		8505 Nov 22 22:15	% 8°0	
direct	8503 Apr 17 17:25	1° Υ 00'05		desc. node	8505 Nov 30 05:15	8° る 51'16	
greatest brilliancy	8503 Apr 27 09:14	2° Υ 46'25	-4.9m	dese. Hode	8505 Dec 17 16:39	0°≈	
greatest offinancy	8503 Jun 03 08:04	0°8	4.7111		8506 Jan 11 15:59	0° ∀	
morning max el	8503 Jun 07 04:13		46°54'36		8506 Feb 05 23:00	0°Υ	
desc. node	8503 Jun 15 12:18	12° 8 22'53			8506 Mar 03 23:05	0°8	
	8503 Jul 01 17:41	0°II		asc. node	8506 Mar 23 04:51	21° 8 01'55	
	8503 Jul 27 23:18	0°©		evening max el	8506 Mar 30 09:23	28° 8 26'38	46°58'52
	8503 Aug 22 10:09	$0^{\circ}\Omega$		Č	8506 Mar 31 22:35	$\Pi^{\circ}0$	
	8503 Sep 16 12:06	0° m		greatest brilliancy	8506 May 10 01:47	29° Ⅱ 36′05	-4.9m
asc. node	8503 Oct 06 10:17	24° Mp 03'05			8506 May 11 05:47	0 \circ \odot	
	8503 Oct 11 08:02	0∘ ⊽		retrograde	8506 May 19 22:50	1° 5 27'20	
	8503 Nov 04 22:43	0° M ₊			8506 May 28 09:17	30°RⅡ	
	8503 Nov 29 08:59	0° ∡ ¹		evening set	8506 Jun 05 21:15	25° ∏ 55'30	
morning set	8503 Dec 05 03:35	7° ∡ 07'11		inferior conj	8506 Jun 09 18:06	23° Ⅲ 34'47	7°21'12
	8503 Dec 23 16:03	0°₹		minimum elong	8506 Jun 10 04:45	23° Ⅱ 18'21	7°18'58
max. Earth dist.	8504 Jan 08 21:41	20° る 06'58	1.72563 AU	min. Earth dist.	8506 Jun 09 20:29	23° Ⅱ 31′06	0.27253 AU
				morning rise	8506 Jun 14 12:19	20° ∏ 43′09	
superior conj	8504 Jan 11 11:13	23° る 17'46		direct	8506 Jun 30 10:42	15° ∏ 45'55	
minimum elong	8504 Jan 11 18:38	23° る 40'46	0°34'23	greatest brilliancy	8506 Jul 10 07:12	17° Ⅲ 33'53	-4.8m
	8504 Jan 16 20:51	0° ≈		desc. node	8506 Jul 12 23:54	18° Ⅱ 36'57	
desc. node	8504 Jan 26 03:10	11° ≈ 30'33			8506 Jul 31 00:21	0.2	46010141
	8504 Feb 09 23:45	0° ∀		morning max el	8506 Aug 19 01:47	17° © 01'46	46°12'41
evening rise	8504 Feb 19 10:33	11° ¥ 46'39			8506 Aug 31 21:28	0° Ω	
	8504 Mar 05 00:54 8504 Mar 29 01:06	0° ႘			8506 Sep 28 10:31 8506 Oct 24 13:42	0 ்⊽ 0°₯	
		0°I		asa nada		0 <u>≈</u> 10° Ω 59'55	
	8504 Apr 22 02:23 8504 May 16 07:59	0ಂ ខ ೧.π		asc. node	8506 Nov 02 22:33 8506 Nov 18 22:21	0°M	
asc. node	8504 May 18 01:44	2° 5 08'22			8506 Dec 13 18:39	0° ⊼	
asc. node	8504 Jun 09 22:12	0°Ω			8507 Jan 07 06:29	%ਰ	
	8504 Jul 05 03:37	0° m)			8507 Jan 31 12:43	0° ≈	
	8504 Jul 31 14:05	0∘ ಹ ∘ .**		morning set	8507 Feb 13 18:31	16° ≈ 27'44	
evening max el	8504 Aug 22 18:51	23° ≏ 05'32	45°52'14	desc. node	8507 Feb 22 15:26	27°≈31'30	
<i>3</i>	8504 Aug 30 02:15	0°M			8507 Feb 24 15:00	0° ∀	
desc. node	8504 Sep 06 20:59	6°ML47'17			8507 Mar 20 14:16	0°Υ	
greatest brilliancy	8504 Sep 30 13:08	21°M38'34	-4.7m	max. Earth dist.	8507 Mar 23 18:46	3° Y 59'58	1.71399 AU
retrograde	8504 Oct 10 20:34	23°M34'04					
evening set	8504 Oct 29 02:24	17°M21'22		superior conj	8507 Mar 26 00:58	6° Y 50'04	-1°07'12
inferior conj	8504 Nov 01 10:05	15° M .17'15	-8°37'50	minimum elong	8507 Mar 25 13:17	6° Ƴ 13'24	1°06'51
minimum elong	8504 Nov 01 09:29	15°ML18'11	8°37'42		8507 Apr 13 11:30	0°8	
min. Earth dist.	8504 Nov 01 11:26	15°ML15'07	0.29158 AU	evening rise	8507 May 05 11:50	27° 8 40'07	
morning rise	8504 Nov 04 16:33	13°ML14'51			8507 May 07 08:24	Π °0	
direct	8504 Nov 22 23:15	6°M59′26			8507 May 31 07:11	0 \circ \odot	

asc. node	8507 Jun 15 13:26	19° © 00'31		asc. node	8509 Nov 30 10:38	29° ≏ 53'12	
	8507 Jun 24 10:06	$0^{\circ}\Omega$			8509 Nov 30 13:06	0° M	
	8507 Jul 18 19:14	0° m)			8509 Dec 26 20:20	0° ∡ ¹	
	8507 Aug 12 13:27	0∘ ⊽			8510 Jan 21 02:06	8°0	
	8507 Sep 06 22:06	0°M.			8510 Feb 14 17:48	0° ≈	
	-						
	8507 Oct 03 08:27	0° ∡ ¹			8510 Mar 11 01:01	0° ∀	
desc. node	8507 Oct 05 08:13	2° √ 11'02		desc. node	8510 Mar 22 03:41	13°)(49'11	
	8507 Nov 01 02:42	0°ಕ			8510 Apr 04 02:47	0° Y	
evening max el	8507 Nov 02 22:08	1° る 44'27	45°45'20		8510 Apr 28 01:11	9° 8	
greatest brilliancy	8507 Dec 12 04:41	29° る 56'21	-4.8m	morning set	8510 Apr 30 11:25	3° 8 02'46	
greatest similars	8507 Dec 12 09:06	0°≈		morning sec	8510 May 21 22:21	0°II	
. 1					0510 Way 21 22.21	υд	
retrograde	8507 Dec 21 17:23	1° ≈ 35'46					
	8507 Dec 30 15:47	30°Ŗ₹		superior conj	8510 Jun 09 17:24	23° Ⅱ 34'51	-1°10'07
evening set	8508 Jan 06 03:53	26° る 59'16		minimum elong	8510 Jun 10 04:32	24° ∏ 09'45	1°09'59
inferior conj	8508 Jan 11 18:38	23° る 38'11	-3°32'27	max. Earth dist.	8510 Jun 12 19:10	27° Ⅲ 25'57	1.71583 AU
minimum elong	8508 Jan 12 02:05	23° る 26'38	3°30'08		8510 Jun 14 20:22	0ಂತಾ	
min. Earth dist.	8508 Jan 12 13:16	23° る 09'19			8510 Jul 08 20:52	$0^{\circ}\Omega$	
			0.27737710	4-			
morning rise	8508 Jan 17 23:36	19° ろ 56'11		asc. node	8510 Jul 13 01:27	5° Ω 13'00	
asc. node	8508 Jan 26 08:06	16° る 25'02		evening rise	8510 Jul 19 10:28	13° Ω 08'36	
direct	8508 Feb 01 22:28	15° る 31'25			8510 Aug 02 00:48	0° m y	
greatest brilliancy	8508 Feb 13 00:15	17° る 48'46	-4.8m		8510 Aug 26 08:56	0∘ ত	
	8508 Mar 03 12:27	0° ≈			8510 Sep 19 22:36	0°M	
morning max el	8508 Mar 23 07:59	18°≈12'02	46°46'20		8510 Oct 14 20:14	0° ⊼ 7	
morning max ci			40 40 29	1 1			
	8508 Apr 03 16:00	0° ∀		desc. node	8510 Nov 01 19:34	21° ∡ 18′52	
	8508 Apr 30 09:52	0° Y			8510 Nov 09 05:25	0°ಕ	
desc. node	8508 May 17 02:22	19° Ƴ 37'46			8510 Dec 05 08:05	0° ≈	
	8508 May 25 18:38	$6^{\circ}B$			8511 Jan 01 19:33	0°) €	
	8508 Jun 19 13:07	Π $^{\circ}0$		evening max el	8511 Jan 14 02:39	12°) 29'42	46°23'21
	8508 Jul 14 01:39	0°9		Č	8511 Feb 02 14:13	$_{0}$ $^{\circ}$ Υ	
	8508 Aug 07 12:19	0°N		asc. node	8511 Feb 22 19:35	12° Υ 15'31	
	•					12° $\Upsilon 20'40$	4.0
_	8508 Aug 31 22:30	0° m)		greatest brilliancy	8511 Feb 23 01:21		-4.9m
asc. node	8508 Sep 06 23:55	7° Mp 26'51		retrograde	8511 Mar 04 22:02	14° Y 09'41	
morning set	8508 Sep 24 08:38	28° Mp 48'01		evening set	8511 Mar 20 14:23	9° Ƴ 21'52	
	8508 Sep 25 08:02	0∘ ত		inferior conj	8511 Mar 25 13:43	6° Y 23'14	7°00'54
	8508 Oct 19 16:35	0° M ₊		minimum elong	8511 Mar 25 02:43	6° Ƴ 40'11	6°58'35
				min. Earth dist.	8511 Mar 25 08:53	6° Ƴ 30'42	0.27041 AU
superior conj	8508 Oct 31 01:50	14°ML02'10	1025152	morning rise	8511 Mar 29 15:01	3°Υ56'04	0.270.1110
				morning risc			
minimum elong	8508 Oct 31 00:52	13°M 59'12			8511 Apr 06 21:52	30° ₹	
max. Earth dist.	8508 Oct 30 19:28	13° M ₊42'32	1.73297 AU	direct	8511 Apr 15 06:07	28°) 34'54	
	8508 Nov 13 00:28	0° ∡ 7			8511 Apr 23 21:09	$0^{\circ}\Upsilon$	
evening rise	8508 Dec 06 21:16	29° ∡ ¹25'42		greatest brilliancy	8511 Apr 24 23:38	0° Υ 22'15	-4.9m
	8508 Dec 07 08:24	8°0			8511 Jun 03 07:58	0° ႘	
desc. node	8508 Dec 27 17:05	25° る 05'22		morning max el	8511 Jun 04 16:18	1° 8 20'48	46°55'28
dese. node	8508 Dec 31 16:44	0° ≈		desc. node	8511 Jun 14 14:17	11° 8 35'50	.0 20 20
				desc. Houc			
	8509 Jan 25 01:15	0° ∺			8511 Jul 01 10:16	Π °0	
	8509 Feb 18 10:00	$0^{\circ}\Upsilon$			8511 Jul 27 13:11	0	
	8509 Mar 14 20:39	$6^{\circ}B$			8511 Aug 21 22:38	$0 ^{\circ} \Omega$	
	8509 Apr 08 13:45	$\Pi^{\circ}0$			8511 Sep 15 23:44	0° m ⁄	
asc. node	8509 Apr 19 16:08	13° Ⅱ 15'50		asc. node	8511 Oct 05 12:10	23° m/34'48	
	8509 May 03 22:16	0°ಅ			8511 Oct 10 19:09	0∘ ⊽	
	•						
	8509 May 30 18:10	0°N			8511 Nov 04 09:33	0°M	
evening max el	8509 Jun 10 15:50	11° Ω 17'17	46°37'32		8511 Nov 28 19:42	0°⊀	
	8509 Jul 01 07:28	0° m)		morning set	8511 Dec 02 20:42	4° ₹ 58'57	
greatest brilliancy	8509 Jul 19 15:13	11° m)11'21	-4.8m		8511 Dec 23 02:43	8°0	
retrograde	8509 Jul 30 18:27	13°Mp28'16		max. Earth dist.	8512 Jan 06 13:26	17° る 53'51	1.72604 AU
desc. node	8509 Aug 09 11:34	11° m/33'26					
evening set	8509 Aug 14 16:43	9° m 04'52		superior conj	8512 Jan 09 02:29	21° る 03'07	0°37'44
•	•		0.20102 411				
min. Earth dist.	8509 Aug 20 07:31	5° Mp 44'17		minimum elong	8512 Jan 09 10:25	21° る 27'40	0°37'33
inferior conj	8509 Aug 21 00:07	5° Mp 18'30			8512 Jan 16 07:34	0° ≈	
minimum elong	8509 Aug 20 18:03	5° Mp 27'56	2°46'33	desc. node	8512 Jan 25 05:13	11° ≈ 03′29	
morning rise	8509 Aug 26 20:10	1° m 49'41			8512 Feb 09 10:35	0° ∀	
	8509 Aug 30 11:30	30° R Ω		evening rise	8512 Feb 17 00:02	9° 升 25′09	
direct	8509 Sep 11 04:57	27° Ω 17'39		-	8512 Mar 04 11:53	$0^{\circ}\Upsilon$	
greatest brilliancy	8509 Sep 20 20:42	28° Ω 59'41	-4.7m		8512 Mar 28 12:18	0°8	
5. Carost Orimanicy	8509 Sep 20 20:42 8509 Sep 23 12:50	0° m)	1.,,111		8512 Apr 21 13:52	0°II	
	•	-•	45041152		•		
morning max el	8509 Oct 29 22:46	27° m 05'22	45-41.53	Ā	8512 May 15 19:52	0°95	
	8509 Nov 01 23:05	0∘ ⊽		asc. node	8512 May 17 03:39	1° 9 37'40	

	0512 I 00 10 45	00.0		. ,	0515 F 1 11 00 00	1.400.610.1	
	8512 Jun 09 10:45	0°N		morning set	8515 Feb 11 08:00	14°≈06'01	
	8512 Jul 04 17:23	0° m ∕		desc. node	8515 Feb 21 17:20	27° ≈ 03'02	
	8512 Jul 31 06:38	0∘ ত			8515 Feb 24 02:02	0° ℋ	
evening max el	8512 Aug 20 09:08	20° ≏ 50'06	45°53'28		8515 Mar 20 01:19	0 ° Υ	
	8512 Aug 30 04:14	0° M.		max. Earth dist.	8515 Mar 21 05:19	1° Ƴ 27'49	1.71428 AU
desc. node	8512 Sep 05 22:57	5°M46'46					
greatest brilliancy	8512 Sep 28 04:17	19°M28'35	-4.7m	superior conj	8515 Mar 23 12:19	4° Υ ′20′20	-1°04'37
retrograde	8512 Oct 08 12:36	21°M25'29		minimum elong	8515 Mar 23 00:34	3° Y '43'28	1°04'12
evening set	8512 Oct 26 17:35	15° M .14'07		Č	8515 Apr 12 22:35	0°႘	
inferior conj	8512 Oct 30 02:32	13°ML08'16	-8°36'50	evening rise	8515 May 02 22:28	25° 8 07'54	
minimum elong	8512 Oct 30 01:09	13°M10'28	8°36'41	evening rise	8515 May 06 19:32	0°Ⅱ	
min. Earth dist.	8512 Oct 30 01:03 8512 Oct 30 02:53	13°ML07'43	0.29164 AU		•	0° ©	
			0.29104 AU	1	8515 May 30 18:26		
morning rise	8512 Nov 02 08:41	11°M06'28		asc. node	8515 Jun 14 15:29	18° © 31'42	
direct	8512 Nov 20 15:09	4°M50'24			8515 Jun 23 21:32	0 \circ Ω	
greatest brilliancy	8512 Dec 01 03:36	6°M50'14	-4.7m		8515 Jul 18 06:59	0° ™	
asc. node	8512 Dec 27 22:28	24°M29'11			8515 Aug 12 01:47	0∘ ⊽	
	8513 Jan 03 01:09	0° ∡ ¹			8515 Sep 06 11:32	0° M	
morning max el	8513 Jan 08 21:46	5° ∡ 36'25	45°59'59		8515 Oct 03 00:16	0° ∡ ¹	
	8513 Feb 01 03:49	0°రె		desc. node	8515 Oct 04 10:09	1° ∡ ³32'31	
	8513 Feb 27 09:38	0° ≈		evening max el	8515 Oct 31 13:49	29° ∡ ³32'35	45°44'49
	8513 Mar 24 12:22	0°) €			8515 Nov 01 01:19	0°る	
	8513 Apr 18 01:26	0°Υ		greatest brilliancy	8515 Dec 09 18:41	。3 27° ろ 40'36	-4.8m
4 4-	-	0° Υ 45'04			8515 Dec 19 08:04	27 34030 29° る 20'00	-4.0111
desc. node	8513 Apr 18 16:04			retrograde			
	8513 May 12 07:03	0°8		evening set	8516 Jan 03 21:02	24° ろ 40'02	
	8513 Jun 05 09:07	$\Pi^{\circ}0$		inferior conj	8516 Jan 09 09:25	21° る 21'41	
	8513 Jun 29 10:32	0 \circ \odot		minimum elong	8516 Jan 09 17:24	21° る 09'17	
morning set	8513 Jul 13 19:51	17° © 54'50		min. Earth dist.	8516 Jan 10 04:03	20° る 52'46	0.28012 AU
	8513 Jul 23 13:10	$0^{\circ}\Omega$		morning rise	8516 Jan 15 13:12	17° る 41'11	
asc. node	8513 Aug 09 13:33	21° Ω 06'46		asc. node	8516 Jan 25 10:02	13° る 47'19	
	8513 Aug 16 17:41	0° m		direct	8516 Jan 30 14:21	13° る 14'27	
	Č	•		greatest brilliancy	8516 Feb 10 15:18	15° る 31'06	-4.8m
superior conj	8513 Aug 21 04:45	5° m 31'23	0°27'43	greatest similare)	8516 Mar 03 22:31	0° ≈	
minimum elong	8513 Aug 20 22:49	5° m 13'01	0°27'20	morning max el	8516 Mar 20 23:11	15°≈53'42	46°45'01
•	•			morning max ci		13 ≈ 33 42 0°) €	40 43 01
max. Earth dist.	8513 Aug 23 06:56	8° Mp 06'36	1.72821 AU		8516 Apr 03 10:44		
	8513 Sep 10 00:00	0∘ ⊽			8516 Apr 30 00:51	0° Υ	
evening rise	8513 Sep 27 03:52	21° ≏ 09'43		desc. node	8516 May 16 04:22	19° Y ′02'37	
	8513 Oct 04 08:13	0°M			8516 May 25 07:59	0°8	
	8513 Oct 28 19:04	0° ∡ ¹			8516 Jun 19 01:33	Π $^{\circ}0$	
	8513 Nov 22 09:34	0°ರ			8516 Jul 13 13:30	0 \circ \odot	
desc. node	8513 Nov 29 07:18	8° る 22'43			8516 Aug 06 23:45	$0^{\circ}\Omega$	
	8513 Dec 17 04:31	0° ≈			8516 Aug 31 09:38	0° m/	
	8514 Jan 11 04:43	0°) €		asc. node	8516 Sep 06 01:45	6° m 58'25	
	8514 Feb 05 13:06	0° Υ		morning set	8516 Sep 22 01:22	26° m/38'11	
	8514 Mar 03 15:49	0°8		morning sec	8516 Sep 24 18:58	0∘ ⊽	
asc. node	8514 Mar 22 06:47	20° 8 13'04			8516 Oct 19 03:26	0° m .	
		26° 8 01'37	46050120		8310 OCt 19 03.20	O IIG	
evening max el	8514 Mar 27 22:38	_	46°58'38		05160 + 20 10 26	1107 5450	1025120
1 '11'	8514 Mar 31 22:31	0°Ⅱ 270Ⅱ 1127	4.0	superior conj	8516 Oct 28 19:26	11°M54'59	
greatest brilliancy	8514 May 07 15:25	27° Ⅱ 11'27	-4.9m	minimum elong	8516 Oct 28 17:46	11°M49'51	1°25'46
retrograde	8514 May 17 12:35	29° Ⅱ 03'02		max. Earth dist.	8516 Oct 28 15:06	11° M 41'38	1.73298 AU
evening set	8514 Jun 03 14:01	23° Ⅱ 25'45			8516 Nov 12 11:20	0° ∡	
inferior conj	8514 Jun 07 07:18	21° Ⅱ 10′29	7°35'08	evening rise	8516 Dec 04 13:44	27° ∡ 14'46	
minimum elong	8514 Jun 07 17:41	20° Ⅱ 54'30	7°33'04		8516 Dec 06 19:22	0°る	
min. Earth dist.	8514 Jun 07 09:37	21° Ⅱ 06'55	0.27244 AU	desc. node	8516 Dec 26 19:10	24° る 37'36	
morning rise	8514 Jun 11 21:25	18° Ⅲ 25′01			8516 Dec 31 03:53	0° ≈	
direct	8514 Jun 27 23:49	13° Ⅲ 21'32			8517 Jan 24 12:40	0° ₩	
greatest brilliancy	8514 Jul 07 19:58	15° Ⅱ 09'45	-4.8m		8517 Feb 17 21:49	0° Ƴ	
desc. node	8514 Jul 12 02:02	16° ∏ 55'00			8517 Mar 14 09:04	0°8	
3000. Houe	8514 Jul 31 12:02	0°9			8517 Apr 08 03:07	0°II	
mamis 1			46014110	aca mc 1-	*		
morning max el	8514 Aug 16 16:43	14°9544'16	46°14'19	asc. node	8517 Apr 18 18:05	12° ∏ 40'12	
	8514 Aug 31 16:26	0°N			8517 May 03 13:25	0°©	
	8514 Sep 28 01:19	0° m			8517 May 30 13:29	0 \circ Ω	
	8514 Oct 24 02:38	0∘ ⊽		evening max el	8517 Jun 08 07:16	8° Ω 59'59	46°38'56
asc. node	8514 Nov 02 00:30	10° ≙ 28'46			8517 Jul 01 22:35	0° m	
	8514 Nov 18 10:18	0° M ,		greatest brilliancy	8517 Jul 17 07:38	8° m 56'19	-4.8m
	8514 Dec 13 06:03	0° ∡ ¹		retrograde	8517 Jul 28 09:48	11° M)11'59	
	8515 Jan 06 17:37	0°ರ		desc. node	8517 Aug 08 13:29	8° m 41'49	
	8515 Jan 30 23:45	0° ≈		evening set	8517 Aug 12 07:15	6° m 50'20	
				<i>3</i>		4	

min. Earth dist.	9517 Aug 17 22:01	20 m 20112	0.28142 AU	minimum elong	8520 Jan 07 02:02	19° る 13'50	0040140
inferior conj	8517 Aug 17 23:01 8517 Aug 18 15:08	3°My 03'06		minimum ciong	8520 Jan 15 18:22	0°≈	0 40 40
minimum elong	8517 Aug 18 09:45	3° mp 11'30		desc. node	8520 Jan 24 07:07	0 ~ 10° ≈ 35'39	
minimum ciong	8517 Aug 23 16:40	30°R Ω	2 20 20	dese. Hode	8520 Feb 08 21:29	0° ∺	
morning rise	8517 Aug 24 13:02	29° Ω 31'38		evening rise	8520 Feb 14 13:37	7°) €03'52	
direct	8517 Sep 08 19:48	25° Ω 03'13		evening rise	8520 Mar 03 22:56	0° Υ	
greatest brilliancy	8517 Sep 18 11:01	26°Ω44'40	-4.7m		8520 Mar 27 23:30	0°8	
8	8517 Sep 25 20:51	0° m			8520 Apr 21 01:18	0°II	
morning max el	8517 Oct 27 12:49	24° m 49'43	45°42'06		8520 May 15 07:41	0ಂತ	
C	8517 Nov 01 20:19	0∘ ⊽		asc. node	8520 May 16 05:45	1°507'46	
asc. node	8517 Nov 29 12:42	29° Ω 16'14			8520 Jun 08 23:15	$0^{\circ}\Omega$	
	8517 Nov 30 04:27	0° M			8520 Jul 04 07:14	0° m	
	8517 Dec 26 09:33	0°⊀			8520 Jul 30 23:30	0∘ ⊽	
	8518 Jan 20 14:18	ರ°0		evening max el	8520 Aug 17 23:54	18° ≏ 35'45	45°54'36
	8518 Feb 14 05:27	0°≈			8520 Aug 30 07:54	0° M.	
	8518 Mar 10 12:21	0° ∀		desc. node	8520 Sep 05 00:54	4°M44'22	
desc. node	8518 Mar 21 05:38	13° ¥ 20′12		greatest brilliancy	8520 Sep 25 18:48	17° M 17'19	-4.7m
	8518 Apr 03 13:56	$0^{\circ}\Upsilon$		retrograde	8520 Oct 06 05:00	19° M .16'14	
morning set	8518 Apr 27 22:12	0° 8 31'14		evening set	8520 Oct 24 08:15	13°M06'36	
	8518 Apr 27 12:15	9° 8		inferior conj	8520 Oct 27 18:47	10°M58'33	-8°35'03
	8518 May 21 09:22	$\Pi^{\circ}0$		minimum elong	8520 Oct 27 16:38	11°ML01'56	8°34'51
				min. Earth dist.	8520 Oct 27 17:52	10°M59'58	0.29168 AU
superior conj	8518 Jun 07 05:27	21° Ⅱ 07'49		morning rise	8520 Oct 31 00:59	8°M56'52	
minimum elong	8518 Jun 07 16:19	21° II 41'50		direct	8520 Nov 18 07:07	2°M40'42	
max. Earth dist.	8518 Jun 10 05:09		1.71546 AU	greatest brilliancy	8520 Nov 28 19:11	4°M40'17	-4.7m
	8518 Jun 14 07:22	0ಂ ತಾ		asc. node	8520 Dec 27 00:26	23°M32'43	
_	8518 Jul 08 07:51	$0^{\circ}\Omega$			8521 Jan 03 00:59	0° ∡ 7	
asc. node	8518 Jul 12 03:23	4° Ω 44'52		morning max el	8521 Jan 06 13:27	3° ∡ ¹23'52	45°58'40
evening rise	8518 Jul 17 00:17	10° Ω 48'17			8521 Jan 31 19:52	ರ್∘ರ	
	8518 Aug 01 11:49	0° Т р			8521 Feb 26 23:13	0° ≈	
	8518 Aug 25 20:05	0∘ 亚			8521 Mar 24 00:48	0°) €	
	8518 Sep 19 10:04	0°M		desc. node	8521 Apr 17 18:03	0° Υ 14'51 0° Υ	
1 1	8518 Oct 14 08:18	0° ⊀ 7			8521 Apr 17 13:14		
desc. node	8518 Oct 31 21:39 8518 Nov 08 18:31	20°♂47'36 0°る			8521 May 11 18:26 8521 Jun 04 20:11	0°Ⅱ 0°8	
	8518 Dec 04 23:10	0° ≈			8521 Jun 04 20:11 8521 Jun 28 21:22	0°9	
	8519 Jan 01 15:09	0 ≈		morning set	8521 Jul 11 10:24	0 ອ 15° ອ 37'20	
evening max el	8519 Jan 11 15:28	10° ∺ 06'20	46°21'44	morning set	8521 Jul 22 23:51	13 3 3720 0° Ω	
evening max er	8519 Feb 03 06:02	10 γ (00 20	40 21 44	asc. node	8521 Aug 08 15:25	20° Ω 39'39	
greatest brilliancy	8519 Feb 20 14:54	9° Υ 56'31	-4.9m	asc. node	8521 Aug 16 04:17	0° m)	
asc. node	8519 Feb 21 21:29	10° Υ 22'00	4.7111		0321 Aug 10 04.17	עוויי	
retrograde	8519 Mar 02 10:27	11° Y 44'54		superior conj	8521 Aug 18 20:47	3° m 19'42	0°24'26
evening set	8519 Mar 17 23:38	7° Υ 02'23		minimum elong	8521 Aug 18 15:28	3° m 03'13	0°24'05
inferior conj	8519 Mar 23 02:48	3°Y58'39	6°44'57	max. Earth dist.	8521 Aug 21 00:17	5° m 59'06	1.72791 AU
minimum elong	8519 Mar 22 15:43	4° Υ 15'44	6°42'29		8521 Sep 09 10:35	0∘ <u>⊽</u>	
min. Earth dist.	8519 Mar 22 22:40	4° Υ 05'02	0.27042 AU	evening rise	8521 Sep 24 21:29	19° ≏ 03'32	
morning rise	8519 Mar 27 07:41	1° Y 26'12		C	8521 Oct 03 18:52	0° M .	
-	8519 Mar 29 21:56	30° ₹ ₩			8521 Oct 28 05:54	0° ∡ ¹	
direct	8519 Apr 12 18:39	26°) €09'54			8521 Nov 21 20:45	5°0	
greatest brilliancy	8519 Apr 22 14:20	27°) 58'49	-4.9m	desc. node	8521 Nov 28 09:18	7° る 54'31	
	8519 Apr 27 08:09	$0^{\circ}\Upsilon$			8521 Dec 16 16:16	0° ≈	
morning max el	8519 Jun 02 04:47	28° Y 54'23	46°56'11		8522 Jan 10 17:19	0°)	
	8519 Jun 03 06:49	9° 8			8522 Feb 05 03:08	0 ° $\mathbf{\Upsilon}$	
desc. node	8519 Jun 13 16:23	10° 8 49'47			8522 Mar 03 08:37	9° 8	
	8519 Jul 01 02:35	Π $^{\circ}0$		asc. node	8522 Mar 21 08:49	19° 8 24'20	
	8519 Jul 27 03:02	0∘ ©		evening max el	8522 Mar 25 12:56	23° 8 39'59	46°58'21
	8519 Aug 21 11:11	$0^{\circ}\Omega$			8522 Mar 31 23:18	0°II	
_	8519 Sep 15 11:30	0° m		greatest brilliancy	8522 May 05 04:50	24° Ⅱ 47'31	-4.9m
asc. node	8519 Oct 04 14:10	23° Mp 06'24		retrograde	8522 May 15 02:45	26° Ⅱ 39'34	
	8519 Oct 10 06:25	0∘ 亚		evening set	8522 Jun 01 06:51	20°II57'04	704040
	8519 Nov 03 20:31	0°M.		inferior conj	8522 Jun 04 20:31	18° Ⅱ 47'08	7°48'19
	8519 Nov 28 06:30	0° 🖍 7 4012.7		minimum elong	8522 Jun 05 06:35	18° Ⅱ 31'41	7°46'25
morning set	8519 Nov 30 13:32	2° ₹ 49'37		min. Earth dist.	8522 Jun 04 22:25	18° Ⅱ 44'12	0.27229 AU
mov Ed- 3' (8519 Dec 22 13:29	0°る 15°₹46'06	1 72645 411	morning rise	8522 Jun 09 06:25	16° Ⅱ 08'04	
max. Earth dist.	8520 Jan 04 07:00	15° る 46'06	1.72645 AU	direct	8522 Jun 25 13:21	10° Ⅱ 58'30	1 0,
superior con:	8520 Jan 06 17:20	1807/7/50	0040151	greatest brilliancy	8522 Jul 05 07:59	12° ∏ 46′03	-4.8m
superior conj	8520 Jan 06 17:39	18° る 47'52	0 4031	desc. node	8522 Jul 11 03:51	15° Ⅱ 17'45	

	0500 I-1 21 20-04	000			0525 A 07 16.12	οοπ	
	8522 Jul 31 20:04	0.20			8525 Apr 07 16:13	0°П	
morning max el	8522 Aug 14 07:43	12° © 28'21	46°15'58	asc. node	8525 Apr 17 20:09	12° Ⅱ 05'52	
	8522 Aug 31 10:24	0 $^{\circ}$ Ω			8525 May 03 04:22	0ංඔ	
	8522 Sep 27 15:29	O° m y			8525 May 30 08:55	0 $^{\circ}$ Ω	
	8522 Oct 23 15:06	0∘ ⊽		evening max el	8525 Jun 05 21:41	6° Ω 41'10	46°40'17
asc. node	8522 Nov 01 02:31	9° ჲ 59'00			8525 Jul 02 18:12	0° m y	
	8522 Nov 17 21:53	0°M₊		greatest brilliancy	8525 Jul 15 00:33	6° Mg 42′49	-4.8m
	8522 Dec 12 17:08	0° ∡ ¹		retrograde	8525 Jul 26 00:47	8° m 56'51	
	8523 Jan 06 04:27	8°0		desc. node	8525 Aug 07 15:29	5° m 46'54	
	8523 Jan 30 10:28	0° ≈		evening set	8525 Aug 09 21:57	4° Mp 36'34	
morning set	8523 Feb 08 21:28	11° ≈ 45'22		min. Earth dist.	8525 Aug 15 14:54	1° m) 12'47	0.28088 AU
desc. node	8523 Feb 20 19:14	26°≈35'36		inferior conj	8525 Aug 16 06:10	0° m/ 48'59	-2°07'04
	8523 Feb 23 12:44	0°) €		minimum elong	8525 Aug 16 01:29	0° m) 56'17	
max. Earth dist.	8523 Mar 18 14:51	28°) 53'35	1.71458 AU	g	8525 Aug 17 13:42	30°RΩ	2 00 .0
max. Lattii dist.	8523 Mar 19 12:02	0° Υ	1.71430710	morning rise	8525 Aug 22 05:45	27°Ω14'58	
	0323 With 17 12:02	0 1		direct	8525 Sep 06 10:03	22° Ω 49'53	
aumariar aani	9522 Mar. 20, 22:27	1° Υ 51'35	1901152		•	24° Ω 31'26	-4.7m
superior conj	8523 Mar 20 23:37			greatest brilliancy	8525 Sep 16 01:51		-4./m
minimum elong	8523 Mar 20 11:53	1° Y 14'48	1°01'27		8525 Sep 27 08:12	0° m)	
	8523 Apr 12 09:20	0°8		morning max el	8525 Oct 25 02:24	22° m 34'22	45°42'34
evening rise	8523 Apr 30 09:06	22° 8 36'35			8525 Nov 01 16:13	0∘ ত	
	8523 May 06 06:21	Π °0		asc. node	8525 Nov 28 14:38	28° ≏ 40'46	
	8523 May 30 05:20	0 \circ ∞			8525 Nov 29 19:03	0° M ₊	
asc. node	8523 Jun 13 17:24	18° © 03'35			8525 Dec 25 22:10	0° ∡ 7	
	8523 Jun 23 08:35	$\mathfrak{O}^{\circ} \mathfrak{O}$			8526 Jan 20 02:01	0°ರ	
	8523 Jul 17 18:19	0° m y			8526 Feb 13 16:42	0° ≈	
	8523 Aug 11 13:40	0∘ ⊽			8526 Mar 09 23:22	0° ₩	
	8523 Sep 06 00:33	0°M		desc. node	8526 Mar 20 07:42	12° ¥ 52'30	
	8523 Oct 02 15:48	0° ⊼			8526 Apr 03 00:48	0° Υ	
desc. node	8523 Oct 03 12:11	0° х 55′25		morning set	8526 Apr 25 08:36	27° Y ′59'22	
evening max el	8523 Oct 29 05:17	27°×721'34	45944'06	morning set	8526 Apr 26 23:01	0°8	
evening max er		27 メ ・21 34	43 44 00		-	0°II	
4 41 311	8523 Nov 01 00:22	· <u> </u>	4.0		8526 May 20 20:04	от	
greatest brilliancy	8523 Dec 07 09:21	25°₹26'50	-4.8m				
retrograde	8523 Dec 16 22:17	27° る 05'30		superior conj	8526 Jun 04 17:18	18° ∐ 41'05	
evening set	8524 Jan 01 14:21	22° る 22'03		minimum elong	8526 Jun 05 03:46	19° Ⅱ 13'55	
inferior conj	8524 Jan 07 00:18	19° る 06'39		max. Earth dist.	8526 Jun 07 12:21		1.71509 AU
minimum elong	8524 Jan 07 08:46	18° る 53'29	4°08'37		8526 Jun 13 18:01	0	
min. Earth dist.	8524 Jan 07 19:12	18° る 37'15	0.28069 AU		8526 Jul 07 18:29	$0^{\circ}\Omega$	
morning rise	8524 Jan 13 02:38	15° පි 27'41		asc. node	8526 Jul 11 05:17	4° Ω 17'36	
asc. node	8524 Jan 24 11:56	11° る 15'59		evening rise	8526 Jul 14 13:58	8° Ω 28′27	
direct	8524 Jan 28 05:56	10°る58'54			8526 Jul 31 22:31	0° m)	
greatest brilliancy	8524 Feb 08 06:39	13° る 14'56	-4.8m		8526 Aug 25 06:57	0∘ ⊽	
į,	8524 Mar 04 05:23	0° ≈			8526 Sep 18 21:14	0°M₊	
morning max el	8524 Mar 18 13:28	13° ≈ 34'11	46°43'33		8526 Oct 13 20:01	0° ⊼ 7	
morning max or	8524 Apr 03 04:34	0° ∀	10 13 33	desc. node	8526 Oct 30 23:39	20° 🗷 17'17	
	8524 Apr 29 15:14	0°Υ		dese. Hode	8526 Nov 08 07:17	0°る	
desc. node	•	18° Υ 28'58			8526 Dec 04 13:58	0°≈	
desc. node	8524 May 15 06:24					0 ≈ 0° ¥	
	8524 May 24 20:48	8°0			8527 Jan 01 10:53		46020101
	8524 Jun 18 13:30	0° I I		evening max el	8527 Jan 09 04:11	7°) 44′04	46°20'01
	8524 Jul 13 00:54	0°©			8527 Feb 04 02:45	0°Υ 	
	8524 Aug 06 10:44	0 $^{\circ}$ Ω		greatest brilliancy	8527 Feb 18 03:54	7° Y 32'25	-4.8m
	8524 Aug 30 20:18	0° т р		asc. node	8527 Feb 20 23:33	8° Y 24'32	
asc. node	8524 Sep 05 03:47	6° Mg 32′02		retrograde	8527 Feb 27 23:07	9° Ƴ 20'48	
morning set	8524 Sep 19 18:28	24° Mp 30′56		evening set	8527 Mar 15 08:55	4° Ƴ 42'52	
	8524 Sep 24 05:24	0∘ ত		inferior conj	8527 Mar 20 15:47	1° Y '34'22	6°27'57
	8524 Oct 18 13:46	0° M		minimum elong	8527 Mar 20 04:42	1° Y 51'24	6°25'24
				min. Earth dist.	8527 Mar 20 12:17	1° Y 39'45	0.27052 AU
superior conj	8524 Oct 26 13:24	9°M50'33	1°25'19		8527 Mar 23 05:33	30° ₹ ₩	
minimum elong	8524 Oct 26 11:02	9°M43'15		morning rise	8527 Mar 25 00:18	28°) 56'48	
max. Earth dist.	8524 Oct 26 10:15	9°M40'51	1.73300 AU	direct	8527 Apr 10 07:25	23°) 44'57	
man. Durin dist.	8524 Nov 11 21:43	9 11 0 4031	1.,5500 110	greatest brilliancy	8527 Apr 20 04:59	25°\(\frac{44}{37}\)	-4.9m
avaning rise		0 x · 25° x 06'01		greatest offillaticy		25 χ 3536	7.7111
evening rise	8524 Dec 02 06:28				8527 Apr 29 06:55		16056156
1 1	8524 Dec 06 05:53	0°る		morning max el	8527 May 30 18:15	26° Ƴ 30'42	46°56'56
desc. node	8524 Dec 25 21:02	24°る10'27			8527 Jun 03 04:38	0° 8	
	8524 Dec 30 14:38	0° ≈		desc. node	8527 Jun 12 18:16	10° 8 04'06	
	8525 Jan 23 23:44	0° ∀			8527 Jun 30 18:28	Π \circ 0	
	8525 Feb 17 09:18	0 ° Υ			8527 Jul 26 16:34	0 \circ	
	8525 Mar 13 21:10	9° 8			8527 Aug 20 23:27	0 $^{\circ}\Omega$	

•			·	**		, 10	
	8527 Sep 14 23:00	0° m		greatest brilliancy	8530 May 02 18:06	22° I I22'58	-4.9m
asc. node	8527 Oct 03 16:09	22° m 38'40		retrograde	8530 May 12 16:36	24° I 14'58	1.5111
asc. node		22 اللي 36 40 0° ت		-	•	18° I 14 38	
	8527 Oct 09 17:26			evening set	8530 May 29 23:28		0000122
	8527 Nov 03 07:14	0° M ₅		inferior conj	8530 Jun 02 09:34	16° Ⅲ 22'41	8°00'33
	8527 Nov 27 17:03	0° ∡ ¹		minimum elong	8530 Jun 02 19:12	16° Ⅱ 07'52	
morning set	8527 Nov 28 06:49	0° ≯ 42′26		min. Earth dist.	8530 Jun 02 11:01	16° Ⅱ 20'27	0.27221 AU
	8527 Dec 21 23:58	0°ರ		morning rise	8530 Jun 06 15:05	13° ∏ 49'56	
max. Earth dist.	8528 Jan 02 03:01	13° る 46'45	1.72683 AU	direct	8530 Jun 23 02:51	8° Ⅲ 34′23	
				greatest brilliancy	8530 Jul 02 19:48	10° Ⅲ 20'43	-4.8m
superior conj	8528 Jan 04 09:17	16° る 34'56	0°43'52	desc. node	8530 Jul 10 05:54	13° Ⅱ 43'07	
minimum elong	8528 Jan 04 18:03	17° る 02'07	0°43'40	4000. 11040	8530 Aug 01 02:14	0°9	
minimum clong	8528 Jan 15 04:55	0°≈	0 43 40	morning max el	8530 Aug 01 02:14 8530 Aug 11 22:08	10° © 09'42	46017121
				morning max er	•		40 1/31
desc. node	8528 Jan 23 09:04	10°≈08'49			8530 Aug 31 04:19	0 $^{\circ}\Omega$	
	8528 Feb 08 08:10	0° ∀			8530 Sep 27 05:49	0°Щ	
evening rise	8528 Feb 12 03:37	4°) 44'38			8530 Oct 23 03:45	0∘ ⊽	
	8528 Mar 03 09:48	0 ° $\mathbf{\gamma}$		asc. node	8530 Oct 31 04:26	9° ≏ 28'14	
	8528 Mar 27 10:37	9° 8			8530 Nov 17 09:38	0° M	
	8528 Apr 20 12:42	$\Pi^{\circ}0$			8530 Dec 12 04:23	0° ∡ ¹	
	8528 May 14 19:31	0°€			8531 Jan 05 15:27	6°0	
asc. node	8528 May 15 07:38	0°537'11			8531 Jan 29 21:22	0° ≈	
use. node	8528 Jun 08 11:49	0°Ω		morning set	8531 Feb 06 11:15	9°≈25'08	
				•		26°≈08'11	
	8528 Jul 03 21:12	0° m/		desc. node	8531 Feb 19 21:18		
	8528 Jul 30 16:41	0∘ ⊽			8531 Feb 22 23:35	0° ∀	
evening max el	8528 Aug 15 15:27	16° ≏ 23'30	45°55'55	max. Earth dist.	8531 Mar 15 22:40	26° ∺ 13'41	1.71484 AU
	8528 Aug 30 13:23	0° M ₊					
desc. node	8528 Sep 04 02:58	3°M40'47		superior conj	8531 Mar 18 11:25	29° ∺ 24'05	-0°59'04
greatest brilliancy	8528 Sep 23 09:06	15°ML06'09	-4.7m	minimum elong	8531 Mar 17 23:48	28°)(47'41	0°58'38
retrograde	8528 Oct 03 21:50	17°ML07'10		-	8531 Mar 18 22:52	$0^{\circ}\mathbf{Y}$	
evening set	8528 Oct 21 22:39	10° M 59'47			8531 Apr 11 20:12	0°8	
inferior conj	8528 Oct 25 11:01	8°M49'02	-8°32'33	evening rise	8531 Apr 27 20:07	20° 8 06'05	
minimum elong	8528 Oct 25 11:01 8528 Oct 25 08:07	8°M53'35		evening rise	8531 May 05 17:18	0°II	
•					•		
min. Earth dist.	8528 Oct 25 08:35	8°M52'51	0.29164 AU		8531 May 29 16:26	0.62	
morning rise	8528 Oct 28 17:36	6°M47'01		asc. node	8531 Jun 12 19:19	17° © 34'48	
direct	8528 Nov 15 23:28	0°M31'25			8531 Jun 22 19:54	$0 ^{\circ} \Omega$	
greatest brilliancy	8528 Nov 26 10:06	2°M30'02	-4.7m		8531 Jul 17 05:59	0° m	
asc. node	8528 Dec 26 02:18	22°M37'39			8531 Aug 11 01:57	0。 ত	
	8529 Jan 02 23:33	0° ∡ 7			8531 Sep 05 14:05	0° M	
morning max el	8529 Jan 04 05:52	1° ҂ 13'44	45°57'30		8531 Oct 02 08:03	0° ∡ ¹	
Ü	8529 Jan 31 11:28	0°ರ		desc. node	8531 Oct 02 14:11	0° х 16'37	
	8529 Feb 26 12:30	0° ≈		evening max el	8531 Oct 26 19:49	25° ₹ 07'07	45°43'32
	8529 Mar 23 13:02	0°) €		evening max er	8531 Nov 01 01:03	0°る	13 13 32
11.		29°) 44'54			8531 Nov 01 01:03 8531 Dec 05 00:23	23°る12'29	-4.8m
desc. node	8529 Apr 16 20:02			greatest brilliancy			-4.0111
	8529 Apr 17 00:55	0° Υ		retrograde	8531 Dec 14 12:02	24°る50'08	
	8529 May 11 05:47	0°B		evening set	8531 Dec 30 07:42	20° る 02'52	
	8529 Jun 04 07:17	Π $^{\circ}0$		inferior conj	8532 Jan 04 15:11	16° る 50'46	
	8529 Jun 28 08:17	0 \circ \odot		minimum elong	8532 Jan 05 00:04	16° る 36'55	4°27'11
morning set	8529 Jul 09 00:24	13° © 17'42		min. Earth dist.	8532 Jan 05 10:37	16° පි 20'28	0.28123 AU
	8529 Jul 22 10:38	$0^{\circ}\Omega$		morning rise	8532 Jan 10 15:50	13° る 13'33	
asc. node	8529 Aug 07 17:26	20° Ω 12'44		asc. node	8532 Jan 23 14:04	8° ප් 48'35	
	8529 Aug 15 14:58	0°m		direct	8532 Jan 25 21:01	8° ප් 42'16	
		· '×		greatest brilliancy	8532 Feb 05 22:27	10°る58'20	-4.8m
superior conj	8529 Aug 16 12:13	1° m 05'47	0°21'05	greatest offinaley	8532 Mar 04 10:31	0°≈	4.0111
	•						46942117
minimum elong	8529 Aug 16 07:33	0° m 51'22		morning max el	8532 Mar 16 03:17	11°≈12'34	46-42-17
max. Earth dist.	8529 Aug 18 18:46	3° m 54'40	1.72755 AU		8532 Apr 02 22:16	0° ∀	
	8529 Sep 08 21:15	0∘ ⊽			8532 Apr 29 05:40	0° Υ	
evening rise	8529 Sep 22 14:46	16° ≙ 56'04		desc. node	8532 May 14 08:15	17° Ƴ 54'21	
	8529 Oct 03 05:36	0° M .			8532 May 24 09:45	9° 8	
	8529 Oct 27 16:49	0° ∡ ¹			8532 Jun 18 01:38	$\Pi^{\circ}0$	
	8529 Nov 21 08:02	0°ठ			8532 Jul 12 12:30	0°ಲ	
desc. node	8529 Nov 27 11:10	7° る 25'43			8532 Aug 05 22:00	$0^{\circ}\Omega$	
	8529 Dec 16 04:06	0°≈			8532 Aug 30 07:18	0° m/y	
	8530 Jan 10 06:01	0° ∺		aca nodo	•	6° Mp 04'23	
		0° Υ		asc. node	8532 Sep 04 05:46	-•	
	8530 Feb 04 17:17			morning set	8532 Sep 17 11:07	22° Tp 21'00	
_	8530 Mar 03 01:44	0°8			8532 Sep 23 16:15	0∘ 亚	
asc. node	8530 Mar 20 10:50	18° 8 34'43			8532 Oct 18 00:32	0° M	
evening max el	8530 Mar 23 03:34	21° 8 19'13	46°57'48				
	8530 Apr 01 01:27	Π $^{\circ}0$		superior conj	8532 Oct 24 06:58	7° M 43'34	1°24'50

	0532 0 4 24 03 54	70 m 24100	1024157		9525 M 22 17 47	2601/26112	
minimum elong	8532 Oct 24 03:54	7°M34'09		morning rise	8535 Mar 22 16:47	26° ¥ 26'13	
max. Earth dist.	8532 Oct 24 03:31	7°M32'58	1.73301 AU	direct	8535 Apr 07 20:35	21°) 18'45	
	8532 Nov 11 08:30	0° ∡		greatest brilliancy	8535 Apr 17 19:03	23°) 10′37	-4.9m
evening rise	8532 Nov 29 22:50	22° ≯ 55'07			8535 Apr 30 15:08	0° Y	
	8532 Dec 05 16:49	0°ප		morning max el	8535 May 28 08:43	24° Y ′08'38	46°57'38
desc. node	8532 Dec 24 23:00	23° る 42'24			8535 Jun 03 02:03	9° 8	
	8532 Dec 30 01:46	0° ≈		desc. node	8535 Jun 11 20:15	9° 8 18'22	
	8533 Jan 23 11:12	0° ∀			8535 Jun 30 10:25	Π°	
	8533 Feb 16 21:12	$_{0}^{\circ}\mathbf{\Upsilon}$			8535 Jul 26 06:15	0°©	
	8533 Mar 13 09:42	0°8			8535 Aug 20 11:54	$0^{\circ}\Omega$	
	8533 Apr 07 05:45	0°II			8535 Sep 14 10:43	0° m)	
asc. node	8533 Apr 16 22:04	11° ∏ 29'56		asc. node	8535 Oct 02 18:02	22° m) 09'54	
asc. node	•			asc. noue			
	8533 May 02 19:47	0°©			8535 Oct 09 04:41	ი∘ ত	
	8533 May 30 05:13	0 $^{\circ}$ Ω			8535 Nov 02 18:13	0° M	
evening max el	8533 Jun 03 11:24	4° Ω 19'52	46°41'43	morning set	8535 Nov 25 23:59	28°M33'58	
	8533 Jul 03 21:33	0° m y			8535 Nov 27 03:55	0° ∡ ¹	
greatest brilliancy	8533 Jul 12 17:12	4° ™ 28'13	-4.8m		8535 Dec 21 10:49	0°る	
retrograde	8533 Jul 23 15:42	6° Mp41′12		max. Earth dist.	8535 Dec 30 22:00	11° る 43'08	1.72720 AU
desc. node	8533 Aug 06 17:31	2° Mp 47'21					
evening set	8533 Aug 07 12:50	2° m/21'32		superior conj	8536 Jan 02 00:42	14° る 20'12	0°46'49
8.11	8533 Aug 11 13:48	30°RΩ		minimum elong	8536 Jan 02 09:48	14° る 48'23	0°46'38
inferior conj	8533 Aug 13 21:15	28° Ω 34'05	1046'00	minimum crong	8536 Jan 14 15:50	0°≈	0 1030
·	•			daga mada			
minimum elong	8533 Aug 13 17:18	28° Ω 40'15		desc. node	8536 Jan 22 11:07	9° ≈ 41'12	
min. Earth dist.	8533 Aug 13 06:55	28° Ω 56'24	0.28042 AU		8536 Feb 07 19:12	0° \	
morning rise	8533 Aug 19 22:24	24° Ω 57'46		evening rise	8536 Feb 09 17:17	2°) 23′25	
direct	8533 Sep 04 00:06	20° Ω 35′26			8536 Mar 02 21:00	0 ° Υ	
greatest brilliancy	8533 Sep 13 17:14	22° Ω 17'45	-4.8m		8536 Mar 26 22:02	9° 8	
	8533 Sep 28 09:46	0° m			8536 Apr 20 00:24	$\Pi^{\circ}0$	
morning max el	8533 Oct 22 16:34	20° m 19'01	45°42'58	asc. node	8536 May 14 09:35	0° © 05'53	
	8533 Nov 01 12:02	0∘ ত			8536 May 14 07:40	0°ಲಾ	
asc. node	8533 Nov 27 16:33	28° ഫ 04'05			8536 Jun 08 00:44	$0^{\circ}\Omega$	
	8533 Nov 29 09:58	0°M			8536 Jul 03 11:33	0° m)	
	8533 Dec 25 11:12	0°× 7 1			8536 Jul 30 10:27	0∘ ত مس	
	8534 Jan 19 14:08	%ਰ		avanina may al	8536 Aug 13 07:56	ა _ 14° ჲ 13'01	45°57'20
				evening max el	Č		43 37 20
	8534 Feb 13 04:19	0° ≈			8536 Aug 30 21:20	0°M	
	8534 Mar 09 10:42	0° ∀		desc. node	8536 Sep 03 04:55	2° ™ 34'56	
desc. node	8534 Mar 19 09:33	12°) 23′04		greatest brilliancy	8536 Sep 20 23:35	12°M55'03	-4.7m
	8534 Apr 02 12:00	0 ° Υ		retrograde	8536 Oct 01 14:41	14° M .57'49	
morning set	8534 Apr 22 18:59	25° Y 26′17		evening set	8536 Oct 19 12:54	8°M53'21	
	8534 Apr 26 10:08	8°		inferior conj	8536 Oct 23 03:20	6° ™ 39'23	-8°29'20
	8534 May 20 07:07	$\Pi^{\circ}0$		minimum elong	8536 Oct 22 23:42	6°M45′05	8°29'02
				min. Earth dist.	8536 Oct 22 23:14	6°M45'50	0.29160 AU
superior conj	8534 Jun 02 05:16	16° Ⅱ 13'41	-1°16'28	morning rise	8536 Oct 26 10:34	4°M36'28	
minimum elong	8534 Jun 02 15:19	16° Ⅱ 45'11		5 5	8536 Nov 04 15:28	30° ₽ Ω	
max. Earth dist.	8534 Jun 04 17:42		1.71471 AU	direct	8536 Nov 13 16:14	28° ≏ 22'11	
max. Lattii dist.	8534 Jun 13 04:59	0°95	1.71471710	uncet	8536 Nov 23 02:33	0°M	
	8534 Jul 07 05:25	0°Ω			8536 Nov 24 00:33	0° ጤ 19'01	-4.7m
1				greatest brilliancy			-4./111
asc. node	8534 Jul 10 07:20	3° Ω 49'59		asc. node	8536 Dec 25 04:25	21°M43'37	45056102
evening rise	8534 Jul 12 03:49	6° Ω 08'18		morning max el	8537 Jan 01 22:11	29°M02'49	45°56'03
	8534 Jul 31 09:30	0°Щ			8537 Jan 02 21:30	0° ∡	
	8534 Aug 24 18:06	0∘ ⊽			8537 Jan 31 03:08	0°ප	
	8534 Sep 18 08:45	0° M			8537 Feb 26 02:00	0° ≈	
	8534 Oct 13 08:10	0° ∡ 7			8537 Mar 23 01:31	0° ∀	
desc. node	8534 Oct 30 01:30	19° ∡ ¹45′03		desc. node	8537 Apr 15 21:57	29°) 14′05	
	8534 Nov 07 20:35	8°0			8537 Apr 16 12:49	0° Y	
	8534 Dec 04 05:30	0° ≈			8537 May 10 17:18	0°B	
	8535 Jan 01 07:50	0° ∀			8537 Jun 03 18:32	0°II	
evening max el	8535 Jan 06 17:42	5°) 22'41	46°18'27		8537 Jun 27 19:21	0°©	
evening max ti		5 π2241 0° γ	TU 104/	morning set		10° © 57'28	
araatt 1. '11'	8535 Feb 05 08:09		4 9	morning set	8537 Jul 06 14:21		
greatest brilliancy	8535 Feb 15 16:18	5°Υ06'28	-4.8m		8537 Jul 21 21:33	0° Ω	
asc. node	8535 Feb 20 01:31	6° Y 20'48		asc. node	8537 Aug 06 19:24	19° Ω 45'13	
retrograde	8535 Feb 25 12:14	6° Y 55′28					
evening set	8535 Mar 12 18:21	2° Y 21'44		superior conj	8537 Aug 14 03:41	28° Ω 51'31	0°17'42
	8535 Mar 16 19:08	30° ₹ ₩		minimum elong	8537 Aug 13 23:44	28° Ω 39′17	0°17'23
inferior conj	8535 Mar 18 04:39	29°) €08'42	6°10'17		8537 Aug 15 01:47	0° ™	
minimum elong	8535 Mar 17 17:39	29°) €25'35	6°07'39	max. Earth dist.	8537 Aug 16 14:05	1° m 52'24	1.72716 AU
min. Earth dist.	8535 Mar 18 01:30		0.27062 AU		8537 Sep 08 08:01	0∘ <u>v</u>	

evening rise	8537 Sep 20 08:13	14° ≏ 48'44		desc. node	8540 May 13 10:16	17° Y 20′31	
C	8537 Oct 02 16:24	0°M			8540 May 23 22:34	0° ႘	
					•		
	8537 Oct 27 03:49	0° ∡			8540 Jun 17 13:40	Π °0	
	8537 Nov 20 19:25	0° ප			8540 Jul 12 00:01	0	
desc. node	8537 Nov 26 13:14	6° る 57'10			8540 Aug 05 09:06	$0^{\circ}\Omega$	
	8537 Dec 15 16:06	0° ≈			8540 Aug 29 18:06	0° m)	
		0° ∀			· ·	-•	
	8538 Jan 09 18:58			asc. node	8540 Sep 03 07:36	5° TQ 36'55	
	8538 Feb 04 07:50	0 ° Υ		morning set	8540 Sep 15 03:40	20° Mp 11'23	
	8538 Mar 02 19:30	$_{0\circ}$ 8			8540 Sep 23 02:51	0∘ ⊽	
asc. node	8538 Mar 19 12:44	17° 8 43'06			8540 Oct 17 11:04	0°M	
	8538 Mar 20 17:56	18° 8 56'56	46°57'10		00.10 000 17 11.01	0 110	
evening max el			40 37 10				
	8538 Apr 01 05:33	Π $^{\circ}0$		superior conj	8540 Oct 22 00:41	5° ™ 37'50	1°24'15
greatest brilliancy	8538 Apr 30 07:58	19° Ⅲ 58′20	-4.9m	minimum elong	8540 Oct 21 20:58	5°M26'22	1°24'20
retrograde	8538 May 10 05:57	21° ∏ 49'24		max. Earth dist.	8540 Oct 21 21:04	5°M26'41	1.73301 AU
•	•	15° ∏ 57'36		man. Darm digt.		0°×7	1.75501110
evening set	8538 May 27 15:58				8540 Nov 10 19:04		
inferior conj	8538 May 30 22:34	13° Ⅱ 57'42	8°12'00	evening rise	8540 Nov 27 15:39	20° ∡ ¹46'23	
minimum elong	8538 May 31 07:40	13° Ⅱ 43'40	8°10'30		8540 Dec 05 03:29	0°ಕ	
min. Earth dist.	8538 May 30 23:48	13° Ⅱ 55'48	0.27207 AU	desc. node	8540 Dec 24 01:03	23° る 15'29	
	8538 Jun 03 23:31	11° I I31'17	0.27207 110	desc. node		0° ≈	
morning rise					8540 Dec 29 12:38		
direct	8538 Jun 20 15:58	6° Ⅱ 09'50			8541 Jan 22 22:21	0° ∀	
greatest brilliancy	8538 Jun 30 07:53	7° Ⅱ 55'11	-4.8m		8541 Feb 16 08:50	0° Y	
desc. node	8538 Jul 09 07:58	12° Ⅱ 11'32			8541 Mar 12 22:01	0°B	
acoc. noac		0.2 12 21132				0°II	
	8538 Aug 01 06:29				8541 Apr 06 19:09		
morning max el	8538 Aug 09 11:35	7° © 48'28	46°19'07	asc. node	8541 Apr 16 00:01	10° Ⅲ 54′25	
	8538 Aug 30 21:50	$0 {\circ} \Omega$			8541 May 02 11:17	0 \circ \odot	
	8538 Sep 26 19:57	0° m/p			8541 May 30 02:06	$0^{\circ}\Omega$	
	8538 Oct 22 16:17	0∘ ⊽		avaning may al	8541 Jun 01 01:07	1° Ω 58'44	46°43'06
				evening max el			40 43 00
asc. node	8538 Oct 30 06:22	8° ≏ 57'50			8541 Jul 05 12:55	0° m ∕	
	8538 Nov 16 21:16	0° M		greatest brilliancy	8541 Jul 10 09:20	2° Mp 12'44	-4.8m
	8538 Dec 11 15:32	0° ∡ ¹		retrograde	8541 Jul 21 06:50	4° ™ 25'21	
	8539 Jan 05 02:23	0°ප		evening set	8541 Aug 05 03:40	0° mp 05'48	
				evening set	•		
	8539 Jan 29 08:14	0° ≈			8541 Aug 05 07:55	30° R Ω	
morning set	8539 Feb 04 01:11	7° ≈ 05'31		desc. node	8541 Aug 05 19:25	29° Ω 44'06	
desc. node	8539 Feb 18 23:12	25°≈40'14		min. Earth dist.	8541 Aug 10 22:38	26°Ω39'50	0.27995 AU
	8539 Feb 22 10:27	0°) €		inferior conj	8541 Aug 11 12:07	26°Ω18'54	
TO 18 18 18 18 18 18 18 18 18 18 18 18 18			1.51.501.444	3	Č		
max. Earth dist.	8539 Mar 13 04:23	23° H 27'10	1.71521 AU	minimum elong	8541 Aug 11 08:56	26° £ 23′51	1°23'57
				morning rise	8541 Aug 17 14:45	22° Ω 40'45	
superior conj	8539 Mar 15 23:06	26° ¥ 56′07	-0°56'08	direct	8541 Sep 01 13:52	18° Ω 20'40	
*		26° ∺ 20'26			8541 Sep 11 08:22	20° Ω 04'04	1 0m
minimum elong	8539 Mar 15 11:42		0 33 40	greatest brilliancy	•		-4.0111
	8539 Mar 18 09:46	0 ° Υ			8541 Sep 29 04:15	0° m ∕	
	8539 Apr 11 07:09	$_{0\circ}$ 8		morning max el	8541 Oct 20 07:28	18° m)06'15	45°43'33
evening rise	8539 Apr 25 06:41	17° 8 33'58			8541 Nov 01 06:54	0∘ ত	
8	8539 May 05 04:19	0°Щ		asc. node	8541 Nov 26 18:37	27° Ω 29'05	
	-			asc. Houc			
	8539 May 29 03:33	0°छ			8541 Nov 29 00:19	0°M₊	
asc. node	8539 Jun 11 21:23	17° © 06'25			8541 Dec 24 23:45	0° ∡ ″	
	8539 Jun 22 07:12	$0 {\circ} \Omega$			8542 Jan 19 01:48	0°ಕ	
	8539 Jul 16 17:37	0° m)			8542 Feb 12 15:31	0° ≈	
	8539 Aug 10 14:13	0∘ ت الألا				0° ∺	
	Č				8542 Mar 08 21:38		
	8539 Sep 05 03:36	0°M		desc. node	8542 Mar 18 11:30	11° ¥ 55'16	
desc. node	8539 Oct 01 16:06	29°M37'39			8542 Apr 01 22:48	$0^{\circ}\Upsilon$	
	8539 Oct 02 00:25	0° ∡ 7		morning set	8542 Apr 20 05:39	22° Y ′55'24	
			45042100	morning set			
evening max el	8539 Oct 24 09:52	22° ∡ °52′10	45°43'08		8542 Apr 25 20:52	0°B	
	8539 Nov 01 02:43	8°0			8542 May 19 17:49	Π $^{\circ}0$	
greatest brilliancy	8539 Dec 02 15:39	20° る 59'43	-4.8m				
retrograde	8539 Dec 12 02:06	22° る 36'46		superior conj	8542 May 30 17:04	13° Ⅱ 46'36	-1°18'18
•					•		
evening set	8539 Dec 28 01:22	17° る 45'17		minimum elong	8542 May 31 02:35	14° Ⅱ 16′28	
inferior conj	8540 Jan 02 06:23	14° る 36'46	-4°47'32	max. Earth dist.	8542 Jun 02 00:13	16°Щ39'38	1.71445 AU
minimum elong	8540 Jan 02 15:38	14° る 22'21	4°44'59		8542 Jun 12 15:39	0 \circ \odot	
min. Earth dist.	8540 Jan 03 02:27	14° る 05'28			8542 Jul 06 16:06	$0^{\circ}\Omega$	
			0.20101110	asa nodo			
morning rise	8540 Jan 08 05:13	11° ろ 01'40		asc. node	8542 Jul 09 09:15	3° Ω 22'43	
asc. node	8540 Jan 22 15:58	6° る 28'12		evening rise	8542 Jul 09 17:11	3° Ω 47'24	
direct	8540 Jan 23 12:07	6° る 27'21			8542 Jul 30 20:15	0° m/y	
greatest brilliancy	8540 Feb 03 14:59	8° ප් 44'13	-4 8m		8542 Aug 24 05:01	0∘ <u>∿</u>	
51 carest of financy	00 10 1 00 00 1 T.09		1.0111		8542 Sep 17 19:59	0° ™	
	9540 M 04 12 27				A3/1/ Sen 1/ 10:50	O*III.	
_	8540 Mar 04 13:27	0° ≈			•		
morning max el	8540 Mar 04 13:27 8540 Mar 13 17:17	0°≈ 8°≈52'11	46°40'47		8542 Oct 12 20:02	0° ∡ 7	
morning max el			46°40'47	desc. node	•		
morning max el	8540 Mar 13 17:17	8° ≈ 52'11	46°40'47	desc. node	8542 Oct 12 20:02	0° ∡ ¹	

	0540 5 00 00 51	00			054534 10 0404	001	
	8542 Dec 03 20:51	0° ≈			8545 May 10 04:26	0° 8	
	8543 Jan 01 05:02	0° ∀			8545 Jun 03 05:24	0°Щ	
evening max el	8543 Jan 04 08:25	3°) €05'47	46°16'57		8545 Jun 27 06:02	0ა ௐ	
	8543 Feb 07 01:14	0° Υ		morning set	8545 Jul 04 04:34	8° 5 39'09	
greatest brilliancy	8543 Feb 13 04:39	2° Y 42'33	-4.8m		8545 Jul 21 08:06	0 $^{\circ}\Omega$	
asc. node	8543 Feb 19 03:27	4° Ƴ 14'03		asc. node	8545 Aug 05 21:16	19° Ω 18'29	
retrograde	8543 Feb 23 01:51	4° Ƴ 32'17					
evening set	8543 Mar 10 04:20	0° Y 02'40		superior conj	8545 Aug 11 19:14	26° Ω 38'30	0°14'17
	8543 Mar 10 06:16	30°Ŗ ℋ		minimum elong	8545 Aug 11 16:01	26° Ω 28'32	0°14'00
inferior conj	8543 Mar 15 17:45	26°) 45′15	5°52'06	behind sun begin	8545 Aug 11 04:21	25° Ω 52′22	
minimum elong	8543 Mar 15 06:55	27° ∺ 01'52	5°49'24	behind sun end	8545 Aug 12 03:41	27° Ω 04'42	
min. Earth dist.	8543 Mar 15 14:44	26°) 49′53	0.27069 AU	max. Earth dist.	8545 Aug 14 09:45	29° Ω 52'11	1.72679 AU
morning rise	8543 Mar 20 09:24	23° ¥ 57'59			8545 Aug 14 12:16	0° m)	
direct	8543 Apr 05 10:25	18°) 55′05			8545 Sep 07 18:30	0∘ ⊽	
greatest brilliancy	8543 Apr 15 08:47	20°) (47′22	-4.9m	evening rise	8545 Sep 18 01:34	12° ≏ 41'54	
	8543 May 01 13:18	$0^{\circ}\Upsilon$		-	8545 Oct 02 02:58	0° M ₊	
morning max el	8543 May 25 23:33	21° Y '49'13	46°58'04		8545 Oct 26 14:36	0° ∡ ¹	
-	8543 Jun 02 22:07	0° ႘			8545 Nov 20 06:35	0°ჳ	
desc. node	8543 Jun 10 22:20	8° 8 35'02		desc. node	8545 Nov 25 15:13	6° ろ 29'06	
	8543 Jun 30 01:37	0°П			8545 Dec 15 03:53	0° ≈	
	8543 Jul 25 19:26	0°ತಾ			8546 Jan 09 07:43	0°) €	
	8543 Aug 19 23:59	$0^{\circ}\Omega$			8546 Feb 03 22:13	0° Υ	
	8543 Sep 13 22:06	0° m)			8546 Mar 02 13:20	0°8	
asc. node	8543 Oct 01 20:02	21° Mp 42'30		evening max el	8546 Mar 18 07:36	16° 8 33'46	46°56'26
ase. Houe	8543 Oct 08 15:36	0° <u>م</u>		asc. node	8546 Mar 18 14:48	16° 8 51'52	40 30 20
	8543 Nov 02 04:50	0° m		asc. node	8546 Apr 01 11:06	0°Ⅱ	
morning set	8543 Nov 22 04.30 8543 Nov 23 17:09	26°M26'44		grantagt brillianav	•	17° Ⅱ 35'26	-4.9m
morning set		20 11620 44 0° 🗷		greatest brilliancy	8546 Apr 27 22:26		-4.9111
	8543 Nov 26 14:23	0° X '		retrograde	8546 May 07 18:49	19° Ⅱ 25'06	
T d II d	8543 Dec 20 21:16		1 70754 ATT	evening set	8546 May 25 08:30	13° Ⅱ 29'04	0022122
max. Earth dist.	8543 Dec 28 16:02	9° る 37'54	1.72754 AU	inferior conj	8546 May 28 11:44	11° Ⅱ 34'04	8°22'33
	0542 D 20 16 20	120 707120	0040140	minimum elong	8546 May 28 20:14	11° Ⅱ 20'56	8°21'14
superior conj	8543 Dec 30 16:20	12° る 07'29	0°49'40	min. Earth dist.	8546 May 28 13:04	11° Ⅱ 32'02	0.27193 AU
minimum elong	8543 Dec 31 01:42	12° る 36'29	0°49'30	morning rise	8546 Jun 01 08:06	9° Ⅱ 14′03	
	8544 Jan 14 02:21	0° ≈		direct	8546 Jun 18 04:44	3° Ⅱ 46'28	
desc. node	8544 Jan 21 12:59	9° ≈ 14'14		greatest brilliancy	8546 Jun 27 20:41	5° Ⅱ 31'30	-4.9m
evening rise	8544 Feb 07 07:17	0°) €04'26		desc. node	8546 Jul 08 09:49	10° Ⅱ 43'51	
	8544 Feb 07 05:52	0° ∀			8546 Aug 01 08:38	$0 {\circ} {f e}$	
	8544 Mar 02 07:50	0° Υ		morning max el	8546 Aug 07 00:23	5° 5 26'23	46°20'46
	8544 Mar 26 09:02	0°8			8546 Aug 30 14:37	$0^{\circ}\Omega$	
	8544 Apr 19 11:41	Π $^{\circ}0$			8546 Sep 26 09:40	0° m)	
asc. node	8544 May 13 11:40	29° Ⅱ 36'21			8546 Oct 22 04:31	0∘ ⊽	
	8544 May 13 19:23	0		asc. node	8546 Oct 29 08:23	8° ≏ 28'17	
	8544 Jun 07 13:16	$0 {\circ} \Omega$			8546 Nov 16 08:43	0° M	
	8544 Jul 03 01:38	0° ™			8546 Dec 11 02:34	0° ∡ 7	
	8544 Jul 30 04:17	0∘ ⊽			8547 Jan 04 13:12	0°₹	
evening max el	8544 Aug 11 00:38	12° ≏ 03'45	45°58'31		8547 Jan 28 18:57	0° ≈	
	8544 Aug 31 07:52	0° M		morning set	8547 Feb 01 15:08	4° ≈ 46′23	
desc. node	8544 Sep 02 06:54	1°M28'00		desc. node	8547 Feb 18 01:07	25° ≈ 12'56	
greatest brilliancy	8544 Sep 18 14:41	10°M45'04	-4.7m		8547 Feb 21 21:08	0° ∀	
retrograde	8544 Sep 29 07:04	12° M 48'42		max. Earth dist.	8547 Mar 10 12:16	20°) 48′01	1.71559 AU
evening set	8544 Oct 17 02:53	6°M47'51					
inferior conj	8544 Oct 20 19:35	4°M30'16	-8°25'28	superior conj	8547 Mar 13 10:50	24° ∺ 29′00	-0°53'06
minimum elong	8544 Oct 20 15:14	4° ™ 37'05	8°25'04	minimum elong	8547 Mar 12 23:44	23° ¥ 54'12	0°52'37
min. Earth dist.	8544 Oct 20 14:02	4°M38'58	0.29148 AU		8547 Mar 17 20:29	$0^{\circ}\mathbf{\Upsilon}$	
morning rise	8544 Oct 24 03:41	2°M25'56			8547 Apr 10 17:56	9° 8	
-	8544 Oct 28 10:53	30° ₽ Ω		evening rise	8547 Apr 22 17:27	15° 8 02'59	
direct	8544 Nov 11 08:55	26° ₽ 13'40		-	8547 May 04 15:12	$\Pi^{\circ}0$	
greatest brilliancy	8544 Nov 21 14:50	28° ≏ 08'25	-4.7m		8547 May 28 14:34	0°ಅ	
- · · · · · · · · · · · · · · · · · · ·	8544 Nov 26 01:12	0°M		asc. node	8547 Jun 10 23:17	16° © 37'53	
asc. node	8544 Dec 24 06:22	20°M51'10			8547 Jun 21 18:24	0°N	
morning max el	8544 Dec 30 13:39	26°M50'57	45°54'44		8547 Jul 16 05:09	0° my	
-0	8545 Jan 02 18:15	0° ⊼			8547 Aug 10 02:25	0∘ ⊽	
	8545 Jan 30 18:10	∞ੇਂਤ			8547 Sep 04 17:09	0° m .	
	8545 Feb 25 15:01	0° ≈		desc. node	8547 Sep 30 18:11	28°M58'54	
	8545 Mar 22 13:34	0° ∺		2000. 11040	8547 Oct 01 17:03	20 11 0 303 ∓ 0° √	
desc. node	8545 Apr 14 23:56	28°) (44'42		evening max el	8547 Oct 01 17:03 8547 Oct 21 23:29	20° ∡ 36'19	45°42'40
dobe. Hode	8545 Apr 16 00:19	26)(44 42 0° Υ		Storming man of	8547 Nov 01 05:57	20×3019	15 12 70
	50 .0 1.pr 10 00.1)	V 1			35.7.1.01 01 03.37	Ÿ O	

greatest brilliancy	8547 Nov 30 06:14	18° ප් 45'53	-4.7m	superior conj	8550 May 28 04:33	11° П 17'36	
retrograde	8547 Dec 09 16:22	20° පි 23'06		minimum elong	8550 May 28 13:26	11° Ⅱ 45'30	
evening set	8547 Dec 25 18:57	15° る 26'55		max. Earth dist.	8550 May 30 09:41	14° ∏ 04'22	1.71416 AU
inferior conj	8547 Dec 30 21:26	12°る22'10			8550 Jun 12 02:35	0°©	
minimum elong	8547 Dec 31 06:59	12° る 07'18			8550 Jul 06 03:03	0°N	
min. Earth dist.	8547 Dec 31 17:59	11°る50'09	0.28241 AU	evening rise	8550 Jul 07 06:27	1° Ω 25'17	
morning rise	8548 Jan 05 18:19	8° る 49'44		asc. node	8550 Jul 08 11:09	2° Ω 54'34	
direct	8548 Jan 21 03:09	4°る11'44 4°る12'11			8550 Jul 30 07:17	0ം ⊽ 0ംൂൂ	
asc. node	8548 Jan 21 17:53	4°612'11 6° 6 29'54	4.0		8550 Aug 23 16:15	0° ™	
greatest brilliancy	8548 Feb 01 07:37 8548 Mar 04 15:01	0° ≈	-4.8m		8550 Sep 17 07:35 8550 Oct 12 08:16	0°11に 0° ス 7	
morning max el	8548 Mar 11 07:53	0 ≈ 6°≈33'15	46°30'27	desc. node	8550 Oct 12 08.16 8550 Oct 28 05:35	0 x . 18° x 42'34	
morning max er	8548 Apr 02 08:12	0 ≈33 13	40 3927	desc. node	8550 Nov 06 23:04	18 x・42 34 0°る	
	8548 Apr 28 09:53	0 χ 0° Υ			8550 Dec 03 12:47	0° ≈	
desc. node	8548 May 12 12:18	0 γ 16° Υ 47'02			8551 Jan 01 03:28	0 ≈ 0° ∺	
desc. Hode	8548 May 23 11:18	0° 8		evening max el	8551 Jan 01 03:24	0°) 48'42	46°15'15
	8548 Jun 17 01:39	0°∏		evening max er	8551 Feb 09 21:59	0°Υ	40 13 13
	8548 Jul 11 11:29	0° ©		greatest brilliancy	8551 Feb 10 17:00	0° Υ 17'22	-4.8m
	8548 Aug 04 20:12	0°N		asc. node	8551 Feb 18 05:30	2°Υ00'26	- 4 .0111
	8548 Aug 29 04:55	0° m)		retrograde	8551 Feb 20 15:02	2° Υ 07'15	
asc. node	8548 Sep 02 09:38	5° m) 10'01		renograde	8551 Mar 02 20:06	30°R ₩	
morning set	8548 Sep 12 20:21	18° Mp 01'56		evening set	8551 Mar 07 14:26	27°) 41'45	
morning sec	8548 Sep 22 13:30	0° ⊽		inferior conj	8551 Mar 13 06:42	24°\(\frac{11}{2}\)15	5°33'06
	8548 Oct 16 21:39	0°M		minimum elong	8551 Mar 12 20:08	24°) 36'18	5°30'24
		•		min. Earth dist.	8551 Mar 13 03:58	24°) 24'17	0.27080 AU
superior conj	8548 Oct 19 18:30	3°M32'14	1°23'33	morning rise	8551 Mar 18 01:46	21°) 27'56	
minimum elong	8548 Oct 19 14:08	3° ™ 18'45		direct	8551 Apr 03 00:23	16° ¥ 29'47	
max. Earth dist.	8548 Oct 19 16:28		1.73303 AU	greatest brilliancy	8551 Apr 12 22:28	18°) €22'08	-4.9m
	8548 Nov 10 05:42	0° ∡ 7		<i>y</i>	8551 May 02 06:32	0° Υ	
evening rise	8548 Nov 25 08:36	18° ∡ 37'50		morning max el	8551 May 23 13:36	19° Y ′26′12	46°58'27
Č	8548 Dec 04 14:15	8°0		, and the second	8551 Jun 02 18:08	0° ႘	
desc. node	8548 Dec 23 02:56	22° る 47'37		desc. node	8551 Jun 10 00:12	7° 8 50'10	
	8548 Dec 28 23:40	0° ≈			8551 Jun 29 17:05	$\Pi^{\circ}0$	
	8549 Jan 22 09:44	0° ∀			8551 Jul 25 08:54	0ಂತಾ	
	8549 Feb 15 20:41	$0^{\circ}\mathbf{\Upsilon}$			8551 Aug 19 12:22	$0^{\circ}\Omega$	
	8549 Mar 12 10:33	0°8			8551 Sep 13 09:48	0° m	
	8549 Apr 06 08:49	Π $^{\circ}0$		asc. node	8551 Sep 30 22:01	21° TD 13'56	
asc. node	8549 Apr 15 02:05	10° Ⅱ 18'36			8551 Oct 08 02:53	0∘ ⊽	
	8549 May 02 03:09	0 \circ \odot			8551 Nov 01 15:51	0° M	
evening max el	8549 May 29 15:25	29° 5 38'44	46°44'32	morning set	8551 Nov 21 10:31	24°M18'54	
	8549 May 29 23:54	$0 {\circ} \Omega$			8551 Nov 26 01:14	0° ∡ ¹	
greatest brilliancy	8549 Jul 08 00:50	29° Ω 55'56	-4.8m		8551 Dec 20 08:06	0°ප	
	8549 Jul 08 05:04	0° m		max. Earth dist.	8551 Dec 26 08:45	7° る 27'32	1.72786 AU
retrograde	8549 Jul 18 22:20	2° Mp 08'49					
	8549 Jul 29 05:30	30° R Ω		superior conj	8551 Dec 28 08:19	9° る 54'47	0°52'26
evening set	8549 Aug 02 18:39	27° Ω 48'59		minimum elong	8551 Dec 28 17:53	10° る 24'22	0°52'15
desc. node	8549 Aug 04 21:28	26° Ω 37'07			8552 Jan 13 13:15	0° ≈	
min. Earth dist.	8549 Aug 08 14:01		0.27950 AU	desc. node	8552 Jan 20 14:58	8° ≈ 46'32	
inferior conj	8549 Aug 09 02:53	24° Ω 02'48		evening rise	8552 Feb 04 21:27	27°≈44'52	
minimum elong	8549 Aug 09 00:30	24° Ω 06'30	1°02'30		8552 Feb 06 16:54	0°) €	
morning rise	8549 Aug 15 06:55	20° Ω 23'11			8552 Mar 01 19:03	0° Υ	
direct	8549 Aug 30 04:00	16° Ω 04'56	4.0		8552 Mar 25 20:30	0° B	
greatest brilliancy	8549 Sep 08 23:06	17° Ω 49'12	-4.8m	1	8552 Apr 18 23:28	0°Ⅱ 200Ⅱ04127	
	8549 Sep 29 18:17	0° Mp	45944112	asc. node	8552 May 12 13:32	29° Ⅱ 04'27	
morning max el	8549 Oct 17 23:06 8549 Nov 01 01:29	15° ™ 54'41 0° ≏	45°44'12		8552 May 13 07:41 8552 Jun 07 02:23	0 ಂ ${f v}$	
asc. node		0 <u>₽</u> 26° ₽ 53'24				oor oomp	
asc. Houc	8549 Nov 25 20:32 8549 Nov 28 14:43	26° ± 33°24 0° M			8552 Jul 02 16:24 8552 Jul 29 23:05	0ം ⊽	
	8549 Nov 28 14:43 8549 Dec 24 12:27	0°111℃		evening max el	8552 Aug 08 16:29	0° ჲ 50'56	45°59'48
	8550 Jan 18 13:41	0°중		evening max ci	8552 Aug 31 22:50	9 22 3030	TJ J7 70
	8550 Feb 12 02:59	0°≈		desc. node	8552 Sep 01 08:57	0°ML18′04	
	8550 Mar 08 08:53	0° ∀		greatest brilliancy	8552 Sep 16 06:20	8°M34'24	-4.7m
desc. node	8550 Mar 17 13:35	11° X 26'49		retrograde	8552 Sep 16 00.20 8552 Sep 26 22:59	10°M38'18	1./111
Less. Hour	8550 Apr 01 09:56	0°Υ		evening set	8552 Oct 14 16:40	4°M41'29	
morning set	8550 Apr 17 16:03	20° Υ 22'37		inferior conj	8552 Oct 14 10:40 8552 Oct 18 11:50	2°M19'58	-8°20'51
	8550 Apr 25 07:55	0°8		minimum elong	8552 Oct 18 06:49	2°M27'52	
	8550 May 19 04:47	0°II		min. Earth dist.	8552 Oct 18 05:13	2°M30'22	
		-					

morning rise	8552 Oct 21 21:03	0°M13'45			8555 Apr 10 04:56	0°8	
morning risc	8552 Oct 21 21:03 8552 Oct 22 06:11	0 IIC13 43 30°RΩ		evening rise	8555 Apr 20 04:39	12° 8 32'50	
direct	8552 Nov 09 01:16	24° £ 03'55		evening rise	8555 May 04 02:17	0°Ⅱ	
greatest brilliancy	8552 Nov 19 05:34	25° Ω 56'59	-4.7m		8555 May 28 01:48	0° ©	
greatest orimancy	8552 Nov 27 19:58	0°M	-4.7111	asc. node	8555 Jun 10 01:14	16° © 08'49	
asc. node	8552 Dec 23 08:15	19°M58'21		asc. node	8555 Jun 21 05:50	0°Ω	
morning max el	8552 Dec 28 04:15	24°M35'41	45°53'34		8555 Jul 15 16:58	0° m)	
morning max cr	8553 Jan 02 14:46	0° √	73 33 37		8555 Aug 09 14:58	0∘ ⊽	
	8553 Jan 30 09:24	°ਨ ਨ			8555 Sep 04 07:07	o° n L	
	8553 Feb 25 04:18	0° ≈		desc. node	8555 Sep 29 20:10	28°M18'43	
	8553 Mar 22 01:56	0° ∀		dese. Hode	8555 Oct 01 10:18	0° ∡ 7	
desc. node	8553 Apr 14 01:55	28°) 14'09		evening max el	8555 Oct 19 13:34	18° ∡ 21'07	45°42'28
dese. node	8553 Apr 15 12:10	0°Υ		evening man er	8555 Nov 01 11:17	0° 궁	
	8553 May 09 15:57	0°8		greatest brilliancy	8555 Nov 27 20:19	16° る 31'26	-4.7m
	8553 Jun 02 16:43	0°II		retrograde	8555 Dec 07 07:21	18° ろ 09'31	,
	8553 Jun 26 17:10	0°©		evening set	8555 Dec 23 12:44	13° る 08'26	
morning set	8553 Jul 01 18:16	6° © 17'39		inferior conj	8555 Dec 28 12:37	10° る 07'29	-5°21'50
morning sec	8553 Jul 20 19:07	0° N		minimum elong	8555 Dec 28 22:25	9° る 52'14	
asc. node	8553 Aug 04 23:19	18° Ω 50'59		min. Earth dist.	8555 Dec 29 09:13	9° る 35'25	0.28301 AU
ase. noue	00001148 0 . 20.17	10 00000		morning rise	8556 Jan 03 07:26	6° ට 38'08	0.20501110
superior conj	8553 Aug 09 10:23	24° Ω 22'55	0°10'49	direct	8556 Jan 18 18:43	1°る56'05	
minimum elong	8553 Aug 09 07:56	24°Ω15'19	0°10'34	asc. node	8556 Jan 20 20:00	2°₹01'06	
behind sun begin	8553 Aug 08 13:48	23°Ω19'06	0 103.	greatest brilliancy	8556 Jan 29 23:55	4°る15'12	-4.8m
behind sun end	8553 Aug 10 02:05	25°Ω11'33		greatest stillare;	8556 Mar 04 15:28	0°≈	
max. Earth dist.	8553 Aug 12 03:57	27° Ω 46'06	1.72635 AU	morning max el	8556 Mar 08 23:37	4° ≈ 16'54	46°38'06
	8553 Aug 13 23:11	0° m)			8556 Apr 02 00:48	0° ∀	
	8553 Sep 07 05:22	0∘ <mark>ರ</mark>			8556 Apr 27 23:52	0° Υ	
evening rise	8553 Sep 15 18:40	10° £ 33'06		desc. node	8556 May 11 14:10	16° Y 12'58	
0.108	8553 Oct 01 13:56	0°M			8556 May 22 24:00	0°8	
	8553 Oct 26 01:48	0° ⊼ 7			8556 Jun 16 13:37	0°II	
	8553 Nov 19 18:12	0° ਨ			8556 Jul 10 22:58	0°9	
desc. node	8553 Nov 24 17:06	5° る 59'26			8556 Aug 04 07:19	0°N	
	8553 Dec 14 16:07	0° ≈			8556 Aug 28 15:48	0° m)	
	8554 Jan 08 20:55	0°) €		asc. node	8556 Sep 01 11:36	4° m/42'38	
	8554 Feb 03 13:06	0°Υ		morning set	8556 Sep 10 12:58	15° m 52'00	
	8554 Mar 02 07:56	0°8			8556 Sep 22 00:14	0ಂ ಹ	
evening max el	8554 Mar 15 20:09	14° 8 06'57	46°55'39		8556 Oct 16 08:20	0° M	
asc. node	8554 Mar 17 16:47	15° 8 58'37					
ase. noue	8554 Apr 01 19:23	0° Ⅱ		superior conj	8556 Oct 17 12:10	1°ML25'48	1°22'43
greatest brilliancy	8554 Apr 25 12:48	15° Ⅱ 11'21	-4.9m	minimum elong	8556 Oct 17 07:10	1°M10'23	1°22'46
retrograde	•		,			- 110/110	
evening set	8554 May 05 07:27	16° Ц 59'53		max. Earth dist.	8556 Oct 17 12:48	1°ML27'46	1.73303 AU
	8554 May 05 07:27 8554 May 23 00:47	16° Ⅲ 59'53 10° Ⅲ 59'34		max. Earth dist.	8556 Oct 17 12:48 8556 Nov 09 16:24	1° ጤ 27'46 0° ∡7	1.73303 AU
•	8554 May 23 00:47	10° Ⅱ 59'34	8°32'04		8556 Nov 09 16:24	0° ∡ ¹	1.73303 AU
inferior conj	8554 May 23 00:47 8554 May 26 00:53	10°Ⅲ59'34 9°Ⅲ09'19	8°32'04 8°30'56	max. Earth dist.	8556 Nov 09 16:24 8556 Nov 23 01:27	0° ҂ ¹ 16° ҂ ¹28'53	1.73303 AU
inferior conj minimum elong	8554 May 23 00:47 8554 May 26 00:53 8554 May 26 08:44	10°Д59'34 9°Д09'19 8°Д57'11	8°30'56		8556 Nov 09 16:24 8556 Nov 23 01:27 8556 Dec 04 01:05	0°♬ 16°♬28'53 0°중	1.73303 AU
inferior conj minimum elong min. Earth dist.	8554 May 23 00:47 8554 May 26 00:53 8554 May 26 08:44 8554 May 26 02:27	10°Ⅲ59'34 9°Ⅲ09'19		evening rise	8556 Nov 09 16:24 8556 Nov 23 01:27	0° ҂ ¹ 16° ҂ ¹28'53	1.73303 AU
inferior conj minimum elong min. Earth dist. morning rise	8554 May 23 00:47 8554 May 26 00:53 8554 May 26 08:44 8554 May 26 02:27 8554 May 29 16:45	10°Д59'34 9°Д09'19 8°Д57'11 9°Д06'54 6°Д55'45	8°30'56	evening rise	8556 Nov 09 16:24 8556 Nov 23 01:27 8556 Dec 04 01:05 8556 Dec 22 04:55 8556 Dec 28 10:43	0°♂ 16°♂28'53 0°♂ 22°♂19'54 0°≈	1.73303 AU
inferior conj minimum elong min. Earth dist. morning rise direct	8554 May 23 00:47 8554 May 26 00:53 8554 May 26 08:44 8554 May 26 02:27 8554 May 29 16:45 8554 Jun 15 17:10	10°Д59'34 9°Д09'19 8°Д57'11 9°Д06'54	8°30'56 0.27186 AU	evening rise	8556 Nov 09 16:24 8556 Nov 23 01:27 8556 Dec 04 01:05 8556 Dec 22 04:55 8556 Dec 28 10:43 8557 Jan 21 21:09	0°♂ 16°♂28'53 0°♂ 22°♂19'54 0°≈ 0°);	1.73303 AU
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8554 May 23 00:47 8554 May 26 00:53 8554 May 26 08:44 8554 May 26 02:27 8554 May 29 16:45 8554 Jun 15 17:10 8554 Jun 25 10:03	10° II 59'34 9° II 09'19 8° II 57'11 9° II 06'54 6° II 55'45 1° II 21'38 3° II 07'08	8°30'56	evening rise	8556 Nov 09 16:24 8556 Nov 23 01:27 8556 Dec 04 01:05 8556 Dec 22 04:55 8556 Dec 28 10:43	0°♂ 16°♂28'53 0°♂ 22°♂19'54 0°≈ 0°升 0°Ƴ	1.73303 AU
inferior conj minimum elong min. Earth dist. morning rise direct	8554 May 23 00:47 8554 May 26 00:53 8554 May 26 08:44 8554 May 26 02:27 8554 May 29 16:45 8554 Jun 15 17:10 8554 Jun 25 10:03 8554 Jul 07 11:53	10°Д59'34 9°Д09'19 8°Д57'11 9°Д06'54 6°Д55'45 1°Д21'38	8°30'56 0.27186 AU	evening rise	8556 Nov 09 16:24 8556 Nov 23 01:27 8556 Dec 04 01:05 8556 Dec 22 04:55 8556 Dec 28 10:43 8557 Jan 21 21:09 8557 Feb 15 08:36 8557 Mar 11 23:11	0°♂ 16°♂28'53 0°♂ 22°♂19'54 0°≈ 0°);	1.73303 AU
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8554 May 23 00:47 8554 May 26 00:53 8554 May 26 08:44 8554 May 26 02:27 8554 May 29 16:45 8554 Jun 15 17:10 8554 Jun 25 10:03 8554 Jul 07 11:53 8554 Aug 01 09:58	10°	8°30'56 0.27186 AU -4.9m	evening rise	8556 Nov 09 16:24 8556 Nov 23 01:27 8556 Dec 04 01:05 8556 Dec 22 04:55 8556 Dec 28 10:43 8557 Jan 21 21:09 8557 Feb 15 08:36 8557 Mar 11 23:11 8557 Apr 05 22:35	0° ₹ 16° ₹28'53 0° ₹ 22° ₹19'54 0° ≈ 0° 升 0° Υ 0° Υ	1.73303 AU
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	8554 May 23 00:47 8554 May 26 00:53 8554 May 26 08:44 8554 May 26 02:27 8554 May 29 16:45 8554 Jun 15 17:10 8554 Jun 25 10:03 8554 Jul 07 11:53 8554 Aug 01 09:58 8554 Aug 04 13:15	10°П59'34 9°П09'19 8°П57'11 9°П06'54 6°П55'45 1°П21'38 3°П07'08 9°П18'09 0°© 3°©02'55	8°30'56 0.27186 AU -4.9m	evening rise desc. node	8556 Nov 09 16:24 8556 Nov 23 01:27 8556 Dec 04 01:05 8556 Dec 22 04:55 8556 Dec 28 10:43 8557 Jan 21 21:09 8557 Feb 15 08:36 8557 Mar 11 23:11 8557 Apr 05 22:35 8557 Apr 14 04:00	0°♂ 16°♂28'53 0°♂ 22°♂19'54 0°≈ 0°∀ 0°Y 0°∀ 0°Ы 0°П	1.73303 AU
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8554 May 23 00:47 8554 May 26 00:53 8554 May 26 08:44 8554 May 26 02:27 8554 May 29 16:45 8554 Jun 15 17:10 8554 Jun 25 10:03 8554 Jul 07 11:53 8554 Aug 01 09:58 8554 Aug 04 13:15 8554 Aug 30 07:33	10°	8°30'56 0.27186 AU -4.9m	evening rise desc. node	8556 Nov 09 16:24 8556 Nov 23 01:27 8556 Dec 04 01:05 8556 Dec 22 04:55 8556 Dec 28 10:43 8557 Jan 21 21:09 8557 Feb 15 08:36 8557 Mar 11 23:11 8557 Apr 05 22:35 8557 Apr 14 04:00 8557 May 01 19:13	0°♂ 16°♂28'53 0°♂ 22°♂19'54 0°≈ 0°升 0°Y 0°♂ 0°Ⅱ 9°Ⅱ42'04	1.73303 AU 46°45'59
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	8554 May 23 00:47 8554 May 26 00:53 8554 May 26 08:44 8554 May 26 02:27 8554 May 29 16:45 8554 Jun 15 17:10 8554 Jun 25 10:03 8554 Jul 07 11:53 8554 Aug 01 09:58 8554 Aug 04 13:15 8554 Aug 30 07:33 8554 Sep 25 23:39	10° II 59'34 9° II 09'19 8° II 57'11 9° II 06'54 6° II 55'45 1° II 21'38 3° II 07'08 9° II 18'09 0° II 3° I	8°30'56 0.27186 AU -4.9m	evening rise desc. node	8556 Nov 09 16:24 8556 Nov 23 01:27 8556 Dec 04 01:05 8556 Dec 22 04:55 8556 Dec 28 10:43 8557 Jan 21 21:09 8557 Feb 15 08:36 8557 Mar 11 23:11 8557 Apr 05 22:35 8557 Apr 14 04:00 8557 May 01 19:13 8557 May 27 06:42	0° ₹ 16° ₹28'53 0° ₹ 22° ₹19'54 0° ≈ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ¶ 9° ¶42'04 0° \$ 27° \$21'34	
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	8554 May 23 00:47 8554 May 26 00:53 8554 May 26 08:44 8554 May 26 02:27 8554 May 29 16:45 8554 Jun 15 17:10 8554 Jun 25 10:03 8554 Jul 07 11:53 8554 Aug 01 09:58 8554 Aug 04 13:15 8554 Aug 30 07:33 8554 Sep 25 23:39 8554 Oct 21 17:02	10° I 59'34 9° I 09'19 8° I 57'11 9° I 06'54 6° I 55'45 1° I 21'38 3° I 07'08 9° I 18'09 0° © 3° © 02'55 0° Ω 0° I 0° I 0° I 0° I 0° I	8°30'56 0.27186 AU -4.9m	evening rise desc. node asc. node evening max el	8556 Nov 09 16:24 8556 Nov 23 01:27 8556 Dec 04 01:05 8556 Dec 22 04:55 8556 Dec 28 10:43 8557 Jan 21 21:09 8557 Feb 15 08:36 8557 Mar 11 23:11 8557 Apr 05 22:35 8557 Apr 14 04:00 8557 May 01 19:13 8557 May 27 06:42 8557 May 29 22:26	0° ₹ 16° ₹28'53 0° ₹ 22° ₹19'54 0° ≈ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹	46°45'59
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supprior conj SSS May 25 1606 S"H9799 1-21131 direct 850 Nov 16 2017 21-24578 3-10 10 10 10 10 10 10 10 10 10 10 10 10 1		•			min. Earth dist.	8560 Oct 15 20:46		0.29116 AU
support cooper 855 May 2.5 16/66 (a) 97 May 11/13 (b) 12/13/4 (a) 12/13/4 (b) 12/13/4		8558 May 18 15:37	Π $^{\circ}0$			8560 Oct 16 11:31	30°Ŗ 죠	
minimal clang 8358 May 26 00.17 9"II 18"21 17:134 by 17:136 by 17:136 by 18:20 greatest trilliance (\$550 Nov 16 20.15) 2"2"4"179 4.7m evening the (\$558 Mar 10 13):2 0.9"20352 morning max el (\$560 Dec 22 10:23) 19"Bl0828 35.80 Mor 13:20 2"2"2"12"2"1 45°52 22"2"1 15°52 22"2"1 15°52 20"2"1 15°					morning rise	8560 Oct 19 14:48	28° ഫ 03'05	
max. Earth dist 858 May 27 2013 11°T1220 17.18°6 AU 850 Nov 29 0015 0°RL 200 Nov 20 0015 200 Nov 20 0015 <th< td=""><td>superior conj</td><td>8558 May 25 16:06</td><td>8°Ⅱ49'09</td><td>-1°21'31</td><td>direct</td><td>8560 Nov 06 17:14</td><td>21°≏55'58</td><td></td></th<>	superior conj	8558 May 25 16:06	8° Ⅱ 49'09	-1°21'31	direct	8560 Nov 06 17:14	21° ≏ 55'58	
Perming rise 150	minimum elong	8558 May 26 00:17	9° Ⅱ 14'51	1°21'34	greatest brilliancy	8560 Nov 16 20:57	23° ≙ 47'59	-4.7m
evening rise 855 Nul	max. Earth dist.	8558 May 27 20:13	11° Ⅲ 32'50	1.71386 AU		8560 Nov 29 00:15	0°M	
asc. node 8558 lul of 31.349 0°LQ Secondary 8561 lun of 30.0001 0°PZ Secondary asc. node 8558 lul of 10.13 2°Q2732 Secondary 8561 lun 30.0001 0°PZ Percentage 8558 Sung 23 0:14 0°B Secondary 8561 lun 21 0:35.4 0°PX Percentage 6ses. node 8558 Soc 1 1 20.19 0°PZ Secondary 8561 lun 20 0:33.7 0°PX evening max el 8558 Nov 0 6 12.24 0°PZ Secondary 8561 lun 0 0 0:33 0°PZ evening max el 8558 Doc 00 14:19 2°P34235 morning secondary 8561 lun 0 0 0:33 0°PZ greatest brilliance 8559 Fob 0 0 00.02 2°P344235 morning secondary 8561 lun 20 0:35 0°PZ greatest brilliance 8559 Fob 1 80.05 2°P344235 scondary 8561 lun 20 0:35 0°PZ greatest brilliance 8559 Fob 1 80.57 2°P344235 superior conj 8561 lun 20 0:35 2°P341235 evening sec 8559 Fob 1 80.57 2°P344235 superior conj 8561 lun 00 0:32 2°P30125 2°P3025		8558 Jun 11 13:22	0° ©		asc. node	8560 Dec 22 10:23	19° ™ 08′28	
asc. node 858 Slul 0 1 13.13 2°QZ732 Sec. node 856 Feb 24 1709 0°% Sec. node 856 Feb 24 1709 0°% O'N O'N Sec. node 856 Feb 24 1709 0°% O'N O'N O'N O'N Sec. node 856 Feb 24 1709 0°% Sec. node 856 May 10 30.30 0°N O'N O'N Sec. node 856 May 00 60.40 0°N Sec. node 856 May 00 60.40 O'N Sec. node 856 May 00 60.40 Sec. node 856 May 00 60.40 O'N Sec. node 856 May 00 60.40 Sec. node 856 May 00 60.50 Sec. node 856 May 00 60.40 Sec. node 856 May 00 60.50 Sec. node 856 May 00 60.50 Sec. node 856 May 00 7 10.30 Sec. node 856 May 00 7 10.30 Sec. node 85	evening rise	8558 Jul 04 19:47	29° © 03'52		morning max el	8560 Dec 25 18:17	22°M20'27	45°52'22
Assistable 29 18:06 0°Pa Second 19 28:06 0°Pa<		8558 Jul 05 13:49	$0^{\circ}\Omega$			8561 Jan 02 10:07	0° ∡ ¹	
Segretary Segr	asc. node	8558 Jul 07 13:13	2° Ω 27'32			8561 Jan 30 00:01	8°0	
See 1968 1978 1		8558 Jul 29 18:06	O° Mp			8561 Feb 24 17:09	0° ≈	
Sess No. 11 20.19 0°\$ 18°\$ 18°\$ 19°\$ 18°\$		8558 Aug 23 03:14	0∘ ত			8561 Mar 21 13:54	0° ∀	
Sess node Sess Nov 06 12-24 Part Sess Nov 16 12-24 Part Part Sess Nov 16 12-24 Part		8558 Sep 16 18:56	0°M		desc. node	8561 Apr 13 03:50	27°) (44'37	
cerening max el 8558 Dec 03 0445 0°B 46°B 8561 Jun 02 0335 0°TM 90°B 90°B 8561 Jun 02 0335 0°TM 90°B		8558 Oct 11 20:19	0° ∡ ¹			8561 Apr 14 23:37	$0^{\circ}\mathbf{\Upsilon}$	
evening max el 8558 Dec 30 14:19 28° sa2'14 46°13'35 moming set 8561 Jun 20 60:55 0°C	desc. node	8558 Oct 27 07:27	18° ∡ 10'45			8561 May 09 03:04	0°8	
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Segrentest brilliance Sess Peb 08 0604 27° 154" 24.8m asc. node Ref Aug 04 01.15 18° 22" 12° 22" (10° 10° 22° 14.23° 28° 14.23	evening max el	8558 Dec 30 14:19	28° ≈ 32'14	46°13'35	morning set	8561 Jun 29 07:45	3° © 56'36	
greatest brilliamy 8559 Feb 08 06.04 27° HS4'12 4.8m asc. node 8561 Aug 04 01.15 18° Ω24' 12 4.8m asc. node 8559 Feb 17 07.28 29° H44'28 8559 Feb 18 0.357 29° H44'28 859° H86' 18 0.357 29° H44'28 859° H86' 18 0.357 29° H44'28 859° Mar 10 17.37 21° H55'623 5° 133' 4 behind sun begin 8561 Aug 06 02' 11 22° Ω0'8' 15 0° 0° 0° 0° 0° 0° 0° 0° 0° 16 18° 18° 19° 19° 19° 19° 13′ 19° 14′ 19° 18′ 19° 19° 19° 14′ 19° 18′ 19° 19° 19° 19° 19° 19° 19° 19° 19° 19°	<i>5</i>				. 8			
Second	greatest brilliancy			-4.8m	asc. node			
Petrograde 8.559 Feb 18 03:57 29°\(\omegas\) 2								
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inferior conj	•					•		
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	8562 Nov 15 07:46	0° M .			8565 May 29 22:00	0°N	
	8562 Dec 10 00:45	0° ⊼ 1		greatest brilliancy	8565 Jul 03 07:22	25° Ω 22'19	-4.8m
	8563 Jan 03 10:58	0°る		retrograde	8565 Jul 14 05:41	23 € €22 19 27° Ω 35'24	-4.0111
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JJ.					8565 Aug 03 01:22	20° δ €1801 19° Ω 30'23	0010110
desc. node	8563 Feb 16 05:04	24°≈18'02		inferior conj	8565 Aug 04 08:12		
To all the	8563 Feb 20 18:42	0° ∀	1.71/27.411	minimum elong	8565 Aug 04 07:27	19° £ 31'32	
max. Earth dist.	8563 Mar 05 11:48	15° ¥ 53′29	1.71637 AU	min. Earth dist.	8565 Aug 03 19:56	19° Ω 49'22	0.27860 AU
				morning rise	8565 Aug 10 14:31	15° Ω 48'32	
superior conj	8563 Mar 08 10:52	19°) ₹35'55		direct	8565 Aug 25 09:33	11° Ω 33'56	
minimum elong	8563 Mar 08 00:34	19°) €03'40	0°46'16	greatest brilliancy	8565 Sep 04 02:54	13° Ω 17'50	-4.8m
	8563 Mar 16 18:06	0° Υ			8565 Sep 30 12:02	0° m	
	8563 Apr 09 15:41	0°8		morning max el	8565 Oct 13 06:15	11° m 31'56	45°45'17
evening rise	8563 Apr 17 15:35	10° 8 02'37			8565 Oct 31 13:03	0∘ ⊽	
	8563 May 03 13:08	$\Pi^{\circ}0$		asc. node	8565 Nov 24 00:32	25° ≙ 43'51	
	8563 May 27 12:46	0ංම			8565 Nov 27 18:49	0°M	
asc. node	8563 Jun 09 03:17	15° © 40'50			8565 Dec 23 13:23	0°⊀	
	8563 Jun 20 17:01	$0^{\circ}\Omega$			8566 Jan 17 13:01	0°₹	
	8563 Jul 15 04:33	O° m			8566 Feb 11 01:28	0° ≈	
	8563 Aug 09 03:18	0∘ ⊽			8566 Mar 07 06:57	0° ℋ	
	8563 Sep 03 20:57	0° M ₊		desc. node	8566 Mar 15 17:23	10°) 30′18	
desc. node	8563 Sep 28 22:05	27°M38'44			8566 Mar 31 07:45	0 ° Υ	
	8563 Oct 01 03:38	0°⊀		morning set	8566 Apr 12 13:15	15° Ƴ 19'49	
evening max el	8563 Oct 17 04:34	16° ₹ 09'03	45°42'23		8566 Apr 24 05:36	$6^{\circ}B$	
	8563 Nov 01 18:23	0°ರ			8566 May 18 02:22	$\Pi^{\circ}0$	
greatest brilliancy	8563 Nov 25 10:06	14° ප 17'56	-4.7m				
retrograde	8563 Dec 04 22:44	15° පි 57'06		superior conj	8566 May 23 03:42	6° Ⅲ 21′05	-1°22'53
evening set	8563 Dec 21 06:39	10° る 51'15		minimum elong	8566 May 23 11:06	6° Ⅱ 44'21	1°22'57
inferior conj	8563 Dec 26 03:50	7° ප 54'01	-5°37'58	max. Earth dist.	8566 May 25 06:51	9° Ⅱ 01'44	1.71361 AU
minimum elong	8563 Dec 26 13:49	7° る 38'29	5°35'26		8566 Jun 11 00:07	0ം ഉ	
min. Earth dist.	8563 Dec 27 00:04	7° る 22'32	0.28357 AU	evening rise	8566 Jul 02 08:43	26°541'03	
morning rise	8563 Dec 31 20:26	4° ට 28'03		C	8566 Jul 05 00:36	$0^{\circ}\Omega$	
C	8564 Jan 12 14:37	30°R <i>≯</i> 7		asc. node	8566 Jul 06 15:07	1° £ 59′52	
direct	8564 Jan 16 10:47	29° х 41'59			8566 Jul 29 04:59	0° m/	
asc. node	8564 Jan 19 21:54	29° х 56′08			8566 Aug 22 14:19	0∘ ⊽	
use. Houe	8564 Jan 20 08:41	0°ਰ			8566 Sep 16 06:24	0°M	
greatest brilliancy	8564 Jan 27 15:28	2° ප 01'05	-4 8m		8566 Oct 11 08:31	0° ⊼ ¹	
greatest oriniancy	8564 Mar 04 14:21	0°≈	1.0111	desc. node	8566 Oct 26 09:32	17° х 39'10	
morning max el	8564 Mar 06 15:40	2°≈02'39	46°36'32	dese. Hode	8566 Nov 06 01:58	0° ਰ	
morning max ci	8564 Apr 01 16:47	0° ∺	40 3032		8566 Dec 02 21:08	0°≈	
	8564 Apr 27 13:29	0° Υ		evening max el	8566 Dec 28 04:26	0 ∞ 26° ≈ 13'33	46°11'55
desc. node	8564 May 10 16:11	15° Ƴ 40'11		evening max er	8567 Jan 01 02:56	0° \	40 11 33
desc. Hode	8564 May 22 12:28	0° 8		greatest brilliancy	8567 Feb 05 19:52	25° H 31'48	-4.8m
	8564 Jun 16 01:24	0°II			8567 Feb 15 16:32	27° H 19'48	-4.0111
	8564 Jul 10 10:16	0ಂ ಲ		retrograde asc. node	8567 Feb 16 09:25	27° H 19'12	
	8564 Aug 03 18:16	0° U			8567 Mar 02 11:46	27 X 1912 23° X 01'57	
	8564 Aug 28 02:29	0° m)		evening set inferior conj	8567 Mar 08 09:00	19° H 32'57	1052127
asc. node	8564 Aug 31 13:27	رابات 4° m) 15'30		minimum elong	8567 Mar 07 23:12	19 X 32 37	4°50'58
	8564 Sep 08 05:15			_	8567 Mar 08 07:45	19° X 34'53	0.27100 AU
morning set	8564 Sep 08 05:15 8564 Sep 21 10:47	13° ™ 41'39 0° ≏		min. Earth dist. morning rise	8567 Mar 13 10:27	19° ★ 3453	0.2/100 AU
	8304 Sep 21 10.47	0 ==		=	8567 Mar 29 03:17	10 X 31 09	
	05(4 0-+ 15 05-25	209 0 10111	1001146	direct			4.0
superior conj	8564 Oct 15 05:35	29° £ 19'11		greatest brilliancy	8567 Apr 08 03:12	13° ¥ 35'34 0° Ƴ	-4.9m
minimum elong	8564 Oct 14 24:00	29° £ 01'56	1°21'47		8567 May 03 04:06		46050150
max. Earth dist.	8564 Oct 15 09:49	29° £ 32'13	1.73300 AU	morning max el	8567 May 18 15:06	14° Y 35'19	46°58'59
	8564 Oct 15 18:50	0° M ₊			8567 Jun 02 07:47	0°8	
	8564 Nov 09 02:56	0° ⊼		desc. node	8567 Jun 08 04:17	6° 8 24'57	
evening rise	8564 Nov 20 18:17	14° ₹ 20′20			8567 Jun 28 22:47	0° Ⅱ	
	8564 Dec 03 11:45	0°る			8567 Jul 24 11:01	0° ©	
desc. node	8564 Dec 21 06:56	21° る 52'52			8567 Aug 18 12:28	0° N	
	8564 Dec 27 21:36	0° ≈			8567 Sep 12 08:37	0° M)	
	8565 Jan 21 08:23	0° ∀		asc. node	8567 Sep 29 01:55	20° m/18'26	
	8565 Feb 14 20:20	0° Υ			8567 Oct 07 00:50	0∘ ⊽	
	8565 Mar 11 11:40	0° B			8567 Oct 31 13:17	0°M	
_	8565 Apr 05 12:19	0°II		morning set	8567 Nov 16 21:01	20°M04'11	
asc. node	8565 Apr 13 05:59	9° Ⅱ 05'54			8567 Nov 24 22:26	0° ∡ ¹	
	8565 May 01 11:28	0.20 0.20	4.00.4=		8567 Dec 19 05:18	0°る	1 500 :
evening max el	8565 May 24 22:20	25° © 05'07	46~47/11	max. Earth dist.	8567 Dec 21 15:52	3° ප 01'08	1.72857 AU

superior conj	8567 Dec 23 16:19	5° る 30'59	0°57'41	min. Earth dist.	8570 May 21 04:08	4°∏17'0 4	0.27171 AU
minimum elong	8567 Dec 24 02:05	5 3 039	0°57'32	morning rise	8570 May 24 10:00	2° Ⅱ 18'43	0.2/1/1 AU
minimum clong	8568 Jan 12 10:38	0°≈	0 37 32	morning risc	8570 May 28 14:08	30°R 8	
desc. node	8568 Jan 18 18:51	7°≈52'02		direct	8570 Jun 10 17:58	26° 8 31'07	
evening rise	8568 Jan 31 01:36	23°≈06'47		greatest brilliancy	8570 Jun 20 11:42	28° 8 17'42	-4 9m
evening rise	8568 Feb 05 14:35	0° ∀		greatest orimaney	8570 Jun 24 15:22	0°Ⅱ	4.7111
	8568 Feb 29 17:05	0° Υ		desc. node	8570 Jul 05 15:45	6° Ⅱ 35'22	
	8568 Mar 24 18:59	0°8		morning max el	8570 Jul 30 16:47	28° I I21'17	46°26'05
	8568 Apr 17 22:36	0°II		morning mun er	8570 Aug 01 08:40	0.0	.0 20 00
asc. node	8568 May 10 17:35	28° Ⅲ 03'05			8570 Aug 29 15:56	0°N	
	8568 May 12 07:51	0°50			8570 Sep 25 02:42	0° m)	
	8568 Jun 06 04:21	$0^{\circ}\Omega$			8570 Oct 20 17:25	0∘ ⊽	
	8568 Jul 01 21:53	0° m)		asc. node	8570 Oct 26 14:16	6° £ 58'06	
	8568 Jul 29 13:38	0∘ <u>⊽</u>			8570 Nov 14 19:21	0°M	
evening max el	8568 Aug 03 21:57	5° £ 21'11	46°02'28		8570 Dec 09 11:59	0° ∡ ⊓	
desc. node	8568 Aug 30 12:52	27° £ 53'42			8571 Jan 02 22:00	0°₹	
	8568 Sep 02 21:21	0°M		morning set	8571 Jan 25 10:21	27° る 52'15	
greatest brilliancy	8568 Sep 11 14:11	4°M15'13	-4.7m	, and the second	8571 Jan 27 03:30	0° ≈	
retrograde	8568 Sep 22 06:43	6° ™ 19'59		desc. node	8571 Feb 15 07:01	23° ≈ 49'58	
evening set	8568 Oct 09 19:45	0°M31'42			8571 Feb 20 05:39	0° ₩	
	8568 Oct 10 16:45	30° Ŗ Ω		max. Earth dist.	8571 Mar 03 01:40	13° ¥ 32′20	1.71676 AU
inferior conj	8568 Oct 13 20:32	28° ≏ 01'53	-8°09'23				
minimum elong	8568 Oct 13 14:12	28° £ 11'51	8°08'41	superior conj	8571 Mar 05 22:45	17° ¥ 08'30	-0°43'26
min. Earth dist.	8568 Oct 13 12:21	28° ₽ 14'46	0.29101 AU	minimum elong	8571 Mar 05 12:59	16°) 37′56	0°42'57
morning rise	8568 Oct 17 08:44	25° £ 51'01			8571 Mar 16 05:06	$0^{\circ}\Upsilon$	
direct	8568 Nov 04 08:45	19° ≙ 46'39			8571 Apr 09 02:47	0° 8	
greatest brilliancy	8568 Nov 14 12:44	21° ≏ 38'22	-4.7m	evening rise	8571 Apr 15 02:34	7° 8 31'31	
	8568 Nov 29 21:16	0°M			8571 May 03 00:21	$\Pi^{\circ}0$	
asc. node	8568 Dec 21 12:17	18°M18'03			8571 May 27 00:06	0 \circ \odot	
morning max el	8568 Dec 23 08:39	20°M05'06	45°51'17	asc. node	8571 Jun 08 05:09	15° © 11'09	
	8569 Jan 02 05:17	0° ∡ 7			8571 Jun 20 04:34	$0^{\circ}\Omega$	
	8569 Jan 29 14:46	5°0			8571 Jul 14 16:29	0° m	
	8569 Feb 24 06:11	0° ≈			8571 Aug 08 15:59	0∘ 亚	
	8569 Mar 21 02:06	0° ℋ			8571 Sep 03 11:10	0° M	
desc. node	8569 Apr 12 05:49	27° ∺ 14'32		desc. node	8571 Sep 28 00:09	26°M58'04	
	8569 Apr 14 11:19	0 ° Υ			8571 Sep 30 21:38	0° ∡ ¹	
	8569 May 08 14:26	9° 8		evening max el	8571 Oct 14 20:22	13° ∡ ′58′18	45°42'12
	8569 Jun 01 14:44	Π $^{\circ}0$			8571 Nov 02 04:36	0°ප	
	8569 Jun 25 14:52	0		greatest brilliancy	8571 Nov 23 00:00	12° る 04'03	-4.7m
morning set	8569 Jun 26 21:30	1° © 35'37		retrograde	8571 Dec 02 14:06	13° る 43'54	
	8569 Jul 19 16:34	$0^{\circ}\Omega$		evening set	8571 Dec 19 00:44	8° そ 33'33	
asc. node	8569 Aug 03 03:08	17° Ω 56'41		inferior conj	8571 Dec 23 19:10	5° る 39'52	
				minimum elong	8571 Dec 24 05:16	5° る 24'09	
superior conj	8569 Aug 04 16:53	19° Ω 53'46	0°03'51	min. Earth dist.	8571 Dec 24 14:51	5° る 09'14	0.28415 AU
minimum elong	8569 Aug 04 16:00	19° Ω 51′04	0°03'39	morning rise	8571 Dec 29 09:20	2° る 17'20	
behind sun begin	8569 Aug 03 16:32	18° Ω 38'15			8572 Jan 02 21:35	30°Ŗ ⋌ ¹	
behind sun end	8569 Aug 05 15:29	21° Ω 03'53		direct	8572 Jan 14 03:12	27° ∡ ¹27'20	
max. Earth dist.	8569 Aug 07 10:54	23° Ω 18'31	1.72550 AU	asc. node	8572 Jan 18 23:50	27° 🗷 54'58	
	8569 Aug 12 20:28	0° т р		greatest brilliancy	8572 Jan 25 06:37	29° ₹ 45'29	-4.8m
	8569 Sep 06 02:38	0∘ ⊽			8572 Jan 25 21:03	0°る	1602.4155
evening rise	8569 Sep 11 05:08	6° £ 17'45		morning max el	8572 Mar 04 07:39	29° ප් 47'10	46°34'55
	8569 Sep 30 11:23	0°M			8572 Mar 04 12:47	0° ≈	
	8569 Oct 24 23:44	0° ∡			8572 Apr 01 08:54	0°) €	
	8569 Nov 18 16:57	0°る			8572 Apr 27 03:20	0°Υ 150 0 0 (121	
desc. node	8569 Nov 22 21:06	5° る 02'16		desc. node	8572 May 09 18:11	15° Y 06'31	
	8569 Dec 13 16:12	0° ≈			8572 May 22 01:12	0° B	
	8570 Jan 07 23:09	0° ∀			8572 Jun 15 13:27	0°Ⅱ 0°3	
	8570 Feb 02 19:09	$^{\circ \gamma}$			8572 Jul 09 21:52	0° ⊙	
avanin 1	8570 Mar 01 22:28	0° 8	16051100		8572 Aug 03 05:31	0° N	
evening max el	8570 Mar 10 20:54	9° 8 13'12	46°54'00	000 mc J-	8572 Aug 27 13:29	0° M)	
asc. node	8570 Mar 15 20:45	14° ႘ 09'18		asc. node	8572 Aug 30 15:30	3° Mp 48'03	
areatest built	8570 Apr 02 21:32	0° Ⅱ 10° Ⅲ 21′05	4.0	morning set	8572 Sep 05 21:52	11° m 31'19	
greatest brilliancy	8570 Apr 20 15:58	10° Ⅱ 21'05	-4.9m		8572 Sep 20 21:36	0∘ ⊽	
retrograde	8570 Apr 30 09:25	12° Ⅱ 09'26 6° Ⅱ 00'39		superior con-	8572 Oct 12 22:22	270.0.12155	1020142
evening set	8570 May 18 08:14	6°Д00'39 4°Д19'10	8°48'11	superior conj	8572 Oct 12 23:23 8572 Oct 12 17:14	27° £ 12'55 26° £ 53'57	
inferior conj minimum elong	8570 May 21 02:46 8570 May 21 09:06	4° П 19'10 4° П 09'26		minimum elong max. Earth dist.	85/2 Oct 12 1/:14 8572 Oct 13 07:40	26° 2 33'37 27° 2 38'27	1°20'42 1.73291 AU
minimum ciong	05/0 Iviay 21 09.00	+ HU720	0 7/20	max. Earth uist.	05/2 OCC 15 U/.4U	21 == 30 21	1.13471 AU

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	8572 Oct 15 05:35	0°M₊		greatest brilliancy	8575 Apr 05 18:40	11°)(13'11	-4.9m
	8572 Nov 08 13:43	0° ⊼ 7		greatest similare)	8575 May 03 10:59	0°Υ	,
evening rise	8572 Nov 18 11:30	12° ✓ 12'10		morning max el	8575 May 16 03:37	12° Υ '08'28	46°59'12
evening rise	8572 Dec 02 22:41	12 × 12 10 0°る		morning max cr	8575 Jun 02 02:08	0°8	40 39 12
4 4-		0 8 21° る 24'28		J J.		5° 8 41'56	
desc. node	8572 Dec 20 08:50			desc. node	8575 Jun 07 06:08		
	8572 Dec 27 08:49	0° ≈			8575 Jun 28 13:34	0°∏	
	8573 Jan 20 20:00	0°) €			8575 Jul 24 00:08	0° ©	
	8573 Feb 14 08:29	0° Υ			8575 Aug 18 00:37	0 ° Ω	
	8573 Mar 11 00:35	0°8			8575 Sep 11 20:09	0° ™	
	8573 Apr 05 02:32	0°П		asc. node	8575 Sep 28 03:51	19° m 50'14	
asc. node	8573 Apr 12 08:01	8° Ⅱ 28'37			8575 Oct 06 11:57	0∘ ⊽	
	8573 May 01 04:23	0			8575 Oct 31 00:07	0°M	
evening max el	8573 May 22 13:45	22° © 47'02	46°48'20	morning set	8575 Nov 14 14:21	17° M 56'37	
	8573 May 29 23:08	$0^{\circ}\Omega$			8575 Nov 24 09:08	0° ∡ 7	
greatest brilliancy	8573 Jun 30 23:25	23° Ω 05′05	-4.8m		8575 Dec 18 15:59	8°0	
retrograde	8573 Jul 11 20:52	25° Ω 16′52		max. Earth dist.	8575 Dec 19 09:50	0° る 55'13	1.72888 AU
evening set	8573 Jul 26 16:35	20° Ω 56′24					
inferior conj	8573 Aug 01 22:42	17° Ω 12'42	0°02'58	superior conj	8575 Dec 21 08:45	3° ට 20'18	1°00'09
minimum elong	8573 Aug 01 22:48	17° Ω 12'32	0°02'47	minimum elong	8575 Dec 21 18:33	3° る 50'39	1°00'00
transit middle	8573 Aug 01 22:48	17° Ω 12'32	0°02'47	Č	8576 Jan 11 21:24	0° ≈	
transit begin	8573 Aug 01 18:48	17° Ω 18'44		desc. node	8576 Jan 17 20:52	7° ≈ 24'51	
transit end	8573 Aug 02 02:49	17° Ω 06'20		evening rise	8576 Jan 28 16:17	20° ≈ 49'44	
min. Earth dist.	8573 Aug 02 02:49 8573 Aug 01 11:03	17° Ω 30'44	0.27813 AU	evening rise	8576 Feb 05 01:28	20 ~ →7 → 7 → 7 → 7 → 7 → 7 → 7 → 7 → 7 → 7	
desc. node	=	17° Ω 05'22	0.27813 AU			0°Υ	
	8573 Aug 02 03:26	17 80 03 22 13° Ω 29'47			8576 Feb 29 04:11 8576 Mar 24 06:20		
morning rise	8573 Aug 08 05:50					0° B	
direct	8573 Aug 23 00:05	9° Ω 17'09			8576 Apr 17 10:20	0°П	
greatest brilliancy	8573 Sep 01 16:39	11° Ω 00′27	-4.8m	asc. node	8576 May 09 19:26	27° ∏ 31'16	
	8573 Sep 30 17:37	0° m)			8576 May 11 20:10	0°®	
morning max el	8573 Oct 10 20:40	9° ™ 16'57	45°46'03		8576 Jun 05 17:37	0 ° Ω	
	8573 Oct 31 06:26	0∘ ⊽			8576 Jul 01 13:05	0° m y	
asc. node	8573 Nov 23 02:25	25° ≏ 08'45			8576 Jul 29 10:01	0∘ ⊽	
	8573 Nov 27 08:46	0°M₊		evening max el	8576 Aug 01 12:15	3° ჲ 04'36	46°04'00
	8573 Dec 23 01:52	0° ∡		desc. node	8576 Aug 29 14:56	26° ≏ 37'51	
	8574 Jan 17 00:47	8°0			8576 Sep 04 12:45	0° M $_{\circ}$	
	8574 Feb 10 12:53	0° ≈		greatest brilliancy	8576 Sep 09 05:25	2°M03'56	-4.8m
	8574 Mar 06 18:11	0° ∀		retrograde	8576 Sep 19 22:55	4° ጤ 10'08	
desc. node	8574 Mar 14 19:26	10° ∺ 01'50		•	8576 Oct 04 14:39	30° ₽ Ω	
	8574 Mar 30 18:54	$_0$ ° γ		evening set	8576 Oct 07 08:55	28° £ 26'00	
morning set	8574 Apr 09 23:43	12° Ƴ 47'17		min. Earth dist.	8576 Oct 11 03:42		0.29081 AU
morning sec	8574 Apr 23 16:41	0°8		inferior conj	8576 Oct 11 12:43	25° Ω 51'57	
	8574 May 17 13:23	0°II		minimum elong	8576 Oct 11 05:48	26° Ω 02'50	
	037111ay 17 13.23	v –		morning rise	8576 Oct 15 02:45	23° ⊆ 38'28	0 01 10
superior conj	8574 May 20 15:00	3° Ц 51'16	1024106	direct	8576 Nov 02 00:10	17° Ω 36'56	
	•	4° Ⅱ 11′50		greatest brilliancy	8576 Nov 12 04:24		-4.7m
minimum elong	8574 May 20 21:33			greatest offinancy		19° Ω 28'41	-4./III
max. Earth dist.	8574 May 22 14:31		1.71334 AU	,	8576 Nov 30 12:46	0°M	
	8574 Jun 10 11:06	0.20 0.20		asc. node	8576 Dec 20 14:12	17°M28'50	45050105
evening rise	8574 Jun 29 21:17	24°9516'20		morning max el	8576 Dec 20 23:56	17°M52'26	45°50'27
_	8574 Jul 04 11:37	0 ° Ω			8577 Jan 01 23:48	0° ∡	
asc. node	8574 Jul 05 17:02	1° Ω 31'33			8577 Jan 29 05:09	0°る	
	8574 Jul 28 16:06	0° m ∕			8577 Feb 23 18:57	0° ≈	
	8574 Aug 22 01:38	0∘ ⊽			8577 Mar 20 14:02	0° ℋ	
	8574 Sep 15 18:06	0°M		desc. node	8577 Apr 11 07:47	26°) 45′01	
	8574 Oct 10 20:55	0° ∡			8577 Apr 13 22:47	0 ° Υ	
desc. node	8574 Oct 25 11:31	17° ∡ ¹06'48			8577 May 08 01:38	0° ႘	
	8574 Nov 05 15:46	0° ප			8577 Jun 01 01:46	$\Pi^{\circ}0$	
	8574 Dec 02 13:53	0° ≈		morning set	8577 Jun 24 10:40	29° Ⅱ 12'50	
evening max el	8574 Dec 25 17:43	23° ≈ 52'57	46°10'14		8577 Jun 25 01:46	0°ಅ	
	8575 Jan 01 04:34	0° ∀			8577 Jul 19 03:21	$0^{\circ}\Omega$	
greatest brilliancy	8575 Feb 03 09:50	23°) (09'34	-4.8m				
retrograde	8575 Feb 13 04:54	24°) 56'22		superior conj	8577 Aug 02 07:32	17° Ω 37'06	0°00'14
asc. node	8575 Feb 15 11:27	24° \ 50'10		minimum elong	8577 Aug 02 07:30	17° Ω 37'01	0°00'06
evening set	8575 Feb 27 22:51	20°) 41'19		behind sun begin	8577 Aug 01 07:55	16° Ω 23'49	3 00 00
•		20 八 41 19		Č	-		
infarior con-		1701/00/24	1033105	hehind our and	2577 Aug 02 07:06	1001150117	
inferior conj	8575 Mar 05 22:18	17° ¥ 09'34		behind sun end	8577 Aug 03 07:06	18° Ω 50'13	
minimum elong	8575 Mar 05 22:18 8575 Mar 05 12:58	17° ¥ 23'57	4°30'30	asc. node	8577 Aug 02 05:12	17° Ω 29'51	1 72500 ATT
minimum elong min. Earth dist.	8575 Mar 05 22:18 8575 Mar 05 12:58 8575 Mar 05 22:16	17° ¥ 23'57 17° ¥ 09'36			8577 Aug 02 05:12 8577 Aug 05 01:03	17° Ω 29'51 21° Ω 00'23	1.72508 AU
minimum elong	8575 Mar 05 22:18 8575 Mar 05 12:58	17° ¥ 23'57	4°30'30	asc. node	8577 Aug 02 05:12	17° Ω 29'51	1.72508 AU

	0577 0 00 21.50	4° ≙ 08'48			0500 M 01 22.56	270=20150	46922120
evening rise	8577 Sep 08 21:59			morning max el	8580 Mar 01 22:56	27° ට 30'59	40 33 20
	8577 Sep 29 22:10	0° M 0°. ₹			8580 Mar 04 09:58	0° ≈	
	8577 Oct 24 10:46	0° ∡¹			8580 Apr 01 00:22	0°) €	
	8577 Nov 18 04:25	0° る			8580 Apr 26 16:39	0° Υ	
desc. node	8577 Nov 21 23:02	4° ⋜ 33'16		desc. node	8580 May 08 20:03	14° Ƴ 33'53	
	8577 Dec 13 04:19	0° ≈			8580 May 21 13:26	0°B	
	8578 Jan 07 12:21	0° ∀			8580 Jun 15 01:00	Π °0	
	8578 Feb 02 10:22	0° Y			8580 Jul 09 08:58	0 \circ \mathfrak{S}	
	8578 Mar 01 18:23	9° 8			8580 Aug 02 16:18	$0 { m ^o} \Omega$	
evening max el	8578 Mar 08 10:38	6° 8 50'42	46°53'14		8580 Aug 27 00:05	O°Mp	
asc. node	8578 Mar 14 22:45	13° 8 13'46		asc. node	8580 Aug 29 17:26	3° Mp21′28	
	8578 Apr 03 17:09	$\Pi^{\circ}0$		morning set	8580 Sep 03 14:19	9° ™ 21'41	
greatest brilliancy	8578 Apr 18 04:41	7° Ⅱ 55'57	-4.9m		8580 Sep 20 08:05	0∘ ত	
retrograde	8578 Apr 27 23:13	9° Ⅱ 45′08					
evening set	8578 May 15 23:38	3° Ⅱ 32'35		superior conj	8580 Oct 10 16:52	25° ≏ 06'42	1°19'32
inferior conj	8578 May 18 15:48	1° Ⅱ 54'44	8°54'45	minimum elong	8580 Oct 10 10:11	24° ≏ 46'05	1°19'29
minimum elong	8578 May 18 21:20	1° Ⅱ 46'15	8°54'08	max. Earth dist.	8580 Oct 11 03:28	25° ≏ 39'21	1.73284 AU
min. Earth dist.	8578 May 18 16:31	1° Ⅱ 53'40	0.27168 AU		8580 Oct 14 16:01	0°M	
morning rise	8578 May 21 19:04	0° П 00'23	0.27100110		8580 Nov 08 00:11	0° ⊼ 7	
morning rise	8578 May 21 19:19	30°R 8		evening rise	8580 Nov 16 04:19	10° х 03'45	
direct	8578 Jun 08 07:15	24° 8 06'40		evening rise	8580 Dec 02 09:18	0°る	
	8578 Jun 17 23:54	25° 8 52'49	4.0	4 4-		0 8 20°る57'26	
greatest brilliancy		_	-4.9m	desc. node	8580 Dec 19 10:50		
	8578 Jun 26 17:34	0°II			8580 Dec 26 19:43	0° ≈	
desc. node	8578 Jul 04 17:52	5°Ⅱ18'40	4.600,000		8581 Jan 20 07:17	0°) €	
morning max el	8578 Jul 28 07:47	26° Ⅱ 03'40	46°27′38		8581 Feb 13 20:19	0° Υ	
	8578 Aug 01 06:30	0ංම			8581 Mar 10 13:12	0°B	
	8578 Aug 29 07:40	0 $^{\circ}$ Ω			8581 Apr 04 16:29	0°Щ	
	8578 Sep 24 16:00	0° т р		asc. node	8581 Apr 11 09:56	7° Ⅱ 51'55	
	8578 Oct 20 05:28	0∘ ಹ			8581 Apr 30 21:09	0	
asc. node	8578 Oct 25 16:09	6° ≏ 28'26		evening max el	8581 May 20 04:34	20° © 28'51	46°49'32
	8578 Nov 14 06:42	0° M .			8581 May 30 00:56	$0 {\circ} \Omega$	
	8578 Dec 08 22:56	0° ∡ ¹		greatest brilliancy	8581 Jun 28 16:02	20° Ω 50′17	-4.8m
	8579 Jan 02 08:46	0°ರ		retrograde	8581 Jul 09 11:41	23° Ω 00′18	
morning set	8579 Jan 23 01:05	25° る 35'55		evening set	8581 Jul 24 08:20	18° Ω 39'23	
	8579 Jan 26 14:10	0° ≈		min. Earth dist.	8581 Jul 30 02:37	15° Ω 13'45	0.27769 AU
desc. node	8579 Feb 14 09:05	23° ≈ 23'10		inferior conj	8581 Jul 30 13:23	14° Ω 57'03	0°25'09
	8579 Feb 19 16:18	0° ∀		minimum elong	8581 Jul 30 14:20	14° Ω 55'34	0°24'41
max. Earth dist.	8579 Feb 28 13:49	11° ¥ 06'53	1.71709 AU	desc. node	8581 Aug 01 05:26	13° Ω 55'12	
		,		morning rise	8581 Aug 05 21:06	11° Ω 13'06	
superior conj	8579 Mar 03 11:02	14°) 43′20	-0°40'04	direct	8581 Aug 20 14:16	7° Ω 02'15	
minimum elong	8579 Mar 03 01:52	14°) 14'38		greatest brilliancy	8581 Aug 30 06:59	8° Ω 45'19	-4.8m
minimum ciong	8579 Mar 15 15:47	0°Υ	0 37 33	greatest similarley	8581 Sep 30 20:44	0°m)	1.0111
	8579 Apr 08 13:30	0°8		morning max el	8581 Oct 08 10:35	עוי ס 7° m) 01'49	45°46'30
evening rise	8579 Apr 12 14:01	5° 8 03'02		morning max er	8581 Oct 30 23:03	0∘ ʊ / װֻ/01 49	43 40 39
evening rise	8579 May 02 11:09	0° Ⅱ		aga mada	8581 Nov 22 04:23	0 = 24° £ 35'00	
	-			asc. node			
	8579 May 26 11:03	0°95			8581 Nov 26 22:18	0°M 0°. ₹	
asc. node	8579 Jun 07 07:08	14°9542'57			8581 Dec 22 14:00	0° ∡ 7	
	8579 Jun 19 15:46	0° N			8582 Jan 16 12:13	ರಿಂತ	
	8579 Jul 14 04:09	0° m)			8582 Feb 09 23:57	0° ≈	
	8579 Aug 08 04:29	0∘ ⊽			8582 Mar 06 05:04	0° ∀	
	8579 Sep 03 01:21	0° M ₊		desc. node	8582 Mar 13 21:17	9°) 33'49	
desc. node	8579 Sep 27 02:08	26°M₁7'14			8582 Mar 30 05:41	0 ° \mathbf{Y}	
	8579 Sep 30 15:53	0° ∡ 7		morning set	8582 Apr 07 10:03	10° Ƴ 15′28	
evening max el	8579 Oct 12 12:12	11° ∡ ¹48′08	45°42'05		8582 Apr 23 03:23	0°8	
	8579 Nov 02 18:03	0°ರ			8582 May 17 00:03	Π $^{\circ}0$	
greatest brilliancy	8579 Nov 20 14:23	9° る 51'22	-4.7m				
retrograde	8579 Nov 30 05:01	11° る 31'13		superior conj	8582 May 18 02:23	1° Ⅱ 22'45	-1°25'08
evening set	8579 Dec 16 18:49	6° ප 16'36		minimum elong	8582 May 18 08:00	1° Ⅱ 40′24	1°25'15
inferior conj	8579 Dec 21 10:26	3° ჳ 26'32	-6°08'35	max. Earth dist.	8582 May 19 18:53	3° Ⅱ 29'59	1.71307 AU
minimum elong	8579 Dec 21 20:34	3°る10'42			8582 Jun 09 21:44	0°50	
min. Earth dist.	8579 Dec 22 05:40	2°පි56'30		evening rise	8582 Jun 27 09:55	21° © 52'52	
morning rise	8579 Dec 26 21:57	0°る07'26		<i>5</i>	8582 Jul 03 22:16	0°N	
	8579 Dec 27 03:13	30°R <i>≯</i> 7		asc. node	8582 Jul 04 19:05	1° Ω 04'50	
direct	8580 Jan 11 19:20	25° 🖈 13'36			8582 Jul 28 02:50	0°m)	
asc. node	8580 Jan 18 01:57	25° ₹ 1530			8582 Aug 21 12:33	0° ت سائ	
greatest brilliancy	8580 Jan 22 21:29	27° 🖈 39'07	1 8m		8582 Sep 15 05:26	0° m	
greatest oriniancy		2/° x '30'25	- 		=	0°11℃ 0° √ 7	
	8580 Jan 28 05:49	υ Ο			8582 Oct 10 09:04	υ χ .	

desc. node	8582 Oct 24 13:24	16° ∡ ³34'52			8585 May 07 12:51	0° ႘	
	8582 Nov 05 05:26	8°0			8585 May 31 12:47	$\Pi^{\circ}0$	
	8582 Dec 02 06:47	0° ≈		morning set	8585 Jun 21 23:44	26° Ⅱ 49'45	
evening max el	8582 Dec 23 06:43	21° ≈ 32'22	46°08'39		8585 Jun 24 12:38	0ං ම	
	8583 Jan 01 07:29	0° ∀			8585 Jul 18 14:06	0 $^{\circ}\Omega$	
greatest brilliancy	8583 Jan 31 23:28	20°) (47′28	-4.8m				
retrograde	8583 Feb 10 17:27	22°) €33'45		superior conj	8585 Jul 30 22:12	15° Ω 20′23	-0°03'22
asc. node	8583 Feb 14 13:25	22° ∺ 16′01		minimum elong	8585 Jul 30 23:02	15° Ω 22'57	0°03'28
evening set	8583 Feb 25 10:05	18° ¥ 20'47		behind sun begin	8585 Jul 29 23:21	14° Ω 09'25	
inferior conj	8583 Mar 03 11:31			behind sun end	8585 Jul 31 22:42	16° Ω 36′28	
minimum elong	8583 Mar 03 02:43	15° ∺ 00'17	4°09'31	asc. node	8585 Aug 01 07:06	17° Ω 02'31	
min. Earth dist.	8583 Mar 03 12:39	14°) 45′00	0.27139 AU	max. Earth dist.	8585 Aug 02 16:32	18° Ω 46′18	1.72466 AU
morning rise	8583 Mar 08 18:58	11° ∺ 36′09			8585 Aug 11 17:50	0° m	
direct	8583 Mar 24 05:14	6°) 54'34			8585 Sep 04 23:59	0∘ 亚	
greatest brilliancy	8583 Apr 03 10:06	8°) €51'40	-4.9m	evening rise	8585 Sep 06 15:03	2° ₾ 00'29	
	8583 May 03 15:26	0°Υ	4.60.5.010.5		8585 Sep 29 08:57	0° M	
morning max el	8583 May 13 16:57	9° Y 44'32	46°59'25		8585 Oct 23 21:47	0° ∡ ¹	
	8583 Jun 01 19:44	0° 8			8585 Nov 17 15:52	0°る	
desc. node	8583 Jun 06 08:12	5° 8 00'56		desc. node	8585 Nov 21 01:07	4°る04'44	
	8583 Jun 28 03:53	0°© 0°∏			8585 Dec 12 16:31	0° ≈ 0° ∀	
	8583 Jul 23 12:53	0°Ω			8586 Jan 07 01:46 8586 Feb 02 02:00	0 K 0°Υ	
	8583 Aug 17 12:26 8583 Sep 11 07:21	0°m)			8586 Mar 01 15:19	0°8	
asc. node	8583 Sep 27 05:45	ابات 19° الل 22'49		evening max el	8586 Mar 06 01:16	4° 8 29'35	46°52'14
asc. node	8583 Oct 05 22:45	0° ∵		asc. node	8586 Mar 14 00:40	12° 8 15'53	40 32 14
	8583 Oct 30 10:41	0° m .		ase. node	8586 Apr 04 20:48	0°Ⅱ	
morning set	8583 Nov 12 07:44	15°M49'58		greatest brilliancy	8586 Apr 15 17:14	5° Ⅱ 29'25	-4.9m
morning sec	8583 Nov 23 19:38	0° √		retrograde	8586 Apr 25 12:52	7° Ⅱ 19'05	1.9111
max. Earth dist.	8583 Dec 17 04:51	28° х 52'56	1.72925 AU	evening set	8586 May 13 14:30	1° Ⅱ 03'38	
	8583 Dec 18 02:32	0°る			8586 May 15 08:18	30°R ႘	
	0000 200 10 02.52	. .		inferior conj	8586 May 16 04:37	29° 8 28'48	9°00'20
superior conj	8583 Dec 19 01:05	1° る 09'44	1°02'32	minimum elong	8586 May 16 09:16	29° 8 21'39	8°59'52
minimum elong	8583 Dec 19 10:51	1° る 39'57		min. Earth dist.	8586 May 16 04:33	29° 8 28'54	0.27158 AU
	8584 Jan 11 08:03	0° ≈		morning rise	8586 May 19 04:06	27° 8 40'07	
desc. node	8584 Jan 16 22:54	6° ≈ 58'03		direct	8586 Jun 05 20:33	21° 8 41'01	
evening rise	8584 Jan 26 06:44	18° ≈ 32'19		greatest brilliancy	8586 Jun 15 11:31	23° 8 26'08	-4.9m
	8584 Feb 04 12:17	0°) €			8586 Jun 28 03:28	$\Pi^{\circ}0$	
	8584 Feb 28 15:10	$0^{\circ}\mathbf{\Upsilon}$		desc. node	8586 Jul 03 19:54	4° Ⅱ 03'27	
	8584 Mar 23 17:35	0°8		morning max el	8586 Jul 25 22:16	23° Ⅱ 44'10	46°29'14
	8584 Apr 16 21:58	$\Pi^{\circ}0$			8586 Aug 01 03:43	0 \circ \odot	
asc. node	8584 May 08 21:26	27° Ⅱ 00′18			8586 Aug 28 23:15	$0^{\circ}\Omega$	
	8584 May 11 08:23	0°€			8586 Sep 24 05:19	0° ™	
	8584 Jun 05 06:50	$0^{\circ}\Omega$			8586 Oct 19 17:35	0∘ ⊽	
	8584 Jul 01 04:20	0° ™		asc. node	8586 Oct 24 18:08	5° ≙ 58'45	
	8584 Jul 29 06:53	0∘ ত			8586 Nov 13 18:08	0°M₊	
evening max el	8584 Jul 30 03:38	0° £ 51'14	46°05'38		8586 Dec 08 10:00	0° ∡ 7	
desc. node	8584 Aug 28 16:54	25° £ 20'21			8587 Jan 01 19:38	0°る	
greatest brilliancy	8584 Sep 06 20:13	29° Ω 52'59	-4.8m	morning set	8587 Jan 20 16:12	23° る 20'26	
	8584 Sep 07 03:46	0°M			8587 Jan 26 00:59	0° ≈	
retrograde	8584 Sep 17 15:43	2°M01'14		desc. node	8587 Feb 13 10:56	22°≈55'12 0°) €	
evening set	8584 Sep 27 16:58 8584 Oct 04 22:06	30° ₹亞 26° 亞 21'18		max. Earth dist.	8587 Feb 19 03:09 8587 Feb 26 00:05		1.71752 AU
inferior conj	8584 Oct 04 22:00 8584 Oct 09 05:01	20 = 21 18 23° £ 42'53	7°55'00	max. Earth dist.	8387 100 20 00.03	o /\343/	1./1/32 AU
minimum elong	8584 Oct 08 21:34	23° £ 4233		superior conj	8587 Feb 28 23:26	12° ¥ 17'56	0°36'37
min. Earth dist.	8584 Oct 08 18:51	23° ⊆ 54'50 23° ⊆ 58'51	0.29059 AU	minimum elong	8587 Feb 28 14:55	11° X 51'21	
morning rise	8584 Oct 12 21:07	21° ⊆ 26'36	0.27037 110	minimum ciong	8587 Mar 15 02:43	0°Υ	0 30 10
direct	8584 Oct 30 16:08	15° £ 28'12			8587 Apr 08 00:33	0°8	
greatest brilliancy	8584 Nov 09 19:41	17° ⊆ 19'34	-4.7m	evening rise	8587 Apr 10 01:08	2° 8 32'31	
J. I.I.I.J. OIIIIMING	8584 Nov 30 23:55	0°M		D ••••	8587 May 01 22:18	0°Ⅱ	
morning max el	8584 Dec 18 16:05	15°M42'28	45°49'24		8587 May 25 22:20	0°©	
asc. node	8584 Dec 19 16:20	16°M41'28		asc. node	8587 Jun 06 09:10	14°9513'52	
	8585 Jan 01 17:43	0° ∡ 7			8587 Jun 19 03:19	0°Ω	
	8585 Jan 28 19:23	0°₹			8587 Jul 13 16:10	0° m)	
	8585 Feb 23 07:41	0° ≈			8587 Aug 07 17:21	0∘ <mark>ಹ</mark>	
	8585 Mar 20 02:00	0°) €			8587 Sep 02 15:57	0° M	
desc. node	8585 Apr 10 09:44	26°) 15′20		desc. node	8587 Sep 26 04:04	25°M35'09	
	8585 Apr 13 10:18	$0^{\circ}\mathbf{\Upsilon}$			8587 Sep 30 10:53	0° ∡ ¹	

evening max el	8587 Oct 10 03:43 8587 Nov 03 12:23	9°♂36'30 0°る	45°42'02		8590 Apr 22 14:24	0° 8	
greatest brilliancy	8587 Nov 18 05:32	7° る 39'30	-4.7m	superior conj	8590 May 15 13:58	28° 8 53'50	-1°26'00
retrograde	8587 Nov 27 19:39	9° る 18'53	- 4 ./III	minimum elong	8590 May 15 13:38 8590 May 15 18:38	29° 8 08'30	
evening set	8587 Dec 14 13:10	4°る00'03		minimum crong	8590 May 16 11:02	0°II	1 20 00
inferior conj	8587 Dec 19 02:02	1°る13'42	-6°22'48	max. Earth dist.	8590 May 16 23:00		1.71292 AU
minimum elong	8587 Dec 19 12:09	0°る57'52		man. Dartir dist.	8590 Jun 09 08:45	0.2 2.1.25	1., 12,2110
min. Earth dist.	8587 Dec 19 21:02		0.28518 AU	evening rise	8590 Jun 24 22:24	19° © 27'39	
	8587 Dec 21 01:16	30°R <i>≯</i> 7		<i>8</i>	8590 Jul 03 09:21	$0^{\circ}\Omega$	
morning rise	8587 Dec 24 10:44	27° ₹ 58'07		asc. node	8590 Jul 03 20:59	0° Ω 36'15	
direct	8588 Jan 09 11:22	23° 尽 00′22			8590 Jul 27 14:01	0° m/y	
asc. node	8588 Jan 17 03:49	24° ҂ 07'37			8590 Aug 20 23:57	0∘ ⊽	
greatest brilliancy	8588 Jan 20 13:00	25° ∡ 16'12	-4.8m		8590 Sep 14 17:15	0°M	
	8588 Jan 29 18:05	0°ප			8590 Oct 09 21:42	0°⊀	
morning max el	8588 Feb 28 13:20	25° ප 12'09	46°31'37	desc. node	8590 Oct 23 15:30	16° ∡ 02'16	
	8588 Mar 04 06:36	0°≈			8590 Nov 04 19:39	0°る	
	8588 Mar 31 15:52	0°) €			8590 Dec 02 00:25	0° ≈	
	8588 Apr 26 06:13	$0^{\circ}\Upsilon$		evening max el	8590 Dec 20 20:11	19° ≈ 12'19	46°07'13
desc. node	8588 May 07 22:06	14° Ƴ 00'51			8591 Jan 01 12:31	0°) €	
	8588 May 21 02:00	$8^{\circ 0}$		greatest brilliancy	8591 Jan 29 12:46	18°) 24′39	-4.8m
	8588 Jun 14 12:58	Π $^{\circ}0$		retrograde	8591 Feb 08 06:45	20°) 11′06	
	8588 Jul 08 20:29	0 \circ \odot		asc. node	8591 Feb 13 15:23	19°)(36'11	
	8588 Aug 02 03:30	$0^{\circ}\Omega$		evening set	8591 Feb 22 21:46	15° ¥ 59'42	
	8588 Aug 26 11:02	O° Mp		inferior conj	8591 Mar 01 00:56	12° ¥ 23'40	3°50'33
asc. node	8588 Aug 28 19:18	2° m 53'29		minimum elong	8591 Feb 28 16:43	12° ¥ 36′17	3°48'13
morning set	8588 Sep 01 06:35	7° m 10'14		min. Earth dist.	8591 Mar 01 02:57	12° ∺ 20'33	0.27159 AU
	8588 Sep 19 18:54	0∘ ⊽		morning rise	8591 Mar 06 11:13	9° ∺ 09'19	
				direct	8591 Mar 21 18:49	4°) 30′44	
superior conj	8588 Oct 08 10:25	22° ≏ 59'40	1°18'14	greatest brilliancy	8591 Apr 01 01:21	6°) 29'42	-4.9m
minimum elong	8588 Oct 08 03:15	22° ≏ 37'34	1°18'10		8591 May 03 18:23	$0^{\circ}\Upsilon$	
max. Earth dist.	8588 Oct 08 22:05	23° ≏ 35'38	1.73273 AU	morning max el	8591 May 11 07:21	7° Y 22'51	46°59'35
	8588 Oct 14 02:47	0°M₊			8591 Jun 01 13:10	$_{0\circ}$ 8	
	8588 Nov 07 11:00	0° ∡ 7		desc. node	8591 Jun 05 10:13	4° 8 19'38	
evening rise	8588 Nov 13 21:24	7° ∡ 755'12			8591 Jun 27 18:17	Π °0	
	8588 Dec 01 20:16	8°0			8591 Jul 23 01:50	$0 {\circ} {f \widehat{e}}$	
desc. node	8588 Dec 18 12:50	20° る 29'23			8591 Aug 17 00:32	0 ° Ω	
	8588 Dec 26 06:56	0° ≈			8591 Sep 10 18:54	0° m	
	8589 Jan 19 18:54	0° ∀		asc. node	8591 Sep 26 07:47	18° m 54'37	
	8589 Feb 13 08:28	0° Υ			8591 Oct 05 09:54	0∘ ⊽	
	8589 Mar 10 02:11	0° 8			8591 Oct 29 21:36	0°M	
_	8589 Apr 04 06:56	0°II		morning set	8591 Nov 10 00:57	13°M41'49	
asc. node	8589 Apr 10 11:56	7° Ⅱ 14'07			8591 Nov 23 06:27	0° ∡ 7	
	8589 Apr 30 14:46	0°95	4 < 0.5 010 4	max. Earth dist.	8591 Dec 15 01:10	26° ₹ 53'56	1.72955 AU
evening max el	8589 May 17 18:19	18° © 06'16	46°50′24		0501 D 16 15 01	200 750111	1004140
4 41 311	8589 May 30 05:06	0° Ω	4.0	superior conj	8591 Dec 16 17:21	28° 🗷 58'11	1°04'48
greatest brilliancy	8589 Jun 26 08:41	18° Ω 33'01	-4.8m	minimum elong	8591 Dec 17 03:02 8591 Dec 17 13:21	29° メ 28'07 0°る	1°04'41
retrograde evening set	8589 Jul 07 01:55	20° Ω 41'08 16° Ω 19'17			8591 Dec 17 13:21 8592 Jan 10 18:58	0° ≈	
inferior conj	8589 Jul 21 23:57 8589 Jul 28 03:48	10 δ <i>l</i> 1917 12° Ω 38'53	0°47'30	desc. node	8592 Jan 16 00:44	0 ≈ 6°≈29'49	
minimum elong	8589 Jul 28 05:36	12° Ω 36'04	0°46'46	evening rise	8592 Jan 23 21:19	0 ≈2949 16°≈14'35	
min. Earth dist.	8589 Jul 27 18:17	12° Ω 53'38	0.27727 AU	evening rise	8592 Feb 03 23:20	0°)	
desc. node	8589 Jul 31 07:20	12 02 33 38	0.27727 AU		8592 Feb 28 02:25	0°Υ	
morning rise	8589 Aug 03 11:53	8° Ω 54'07			8592 Mar 23 05:06	%8 0°8	
direct	8589 Aug 18 03:44	4° Ω 44'33			8592 Apr 16 09:52	0°II	
greatest brilliancy	8589 Aug 27 21:41	6° Ω 28'18	-4.8m	asc. node	8592 May 07 23:30	26°∏28'53	
greatest of illiancy	8589 Sep 30 23:00	0° Mp	- 4 .0III	asc. node	8592 May 10 20:50	0°95	
morning max el	8589 Oct 06 00:11	رابات 4° ا% 44'16	45°47'34		8592 Jun 04 20:19	0°Ω	
moning man vi	8589 Oct 30 15:49	0∘ ʊ	,		8592 Jun 30 20:00	0° mp	
asc. node	8589 Nov 21 06:26	ა _ 24° ჲ 00'39		evening max el	8592 Jul 27 19:44	28° Mp 38'56	46°07'04
	8589 Nov 26 12:04	0°M			8592 Jul 29 04:50	0° ⊽	
	8589 Dec 22 02:26	0° ∡ 7		desc. node	8592 Aug 27 18:51	23° ⊆ 59'20	
	8590 Jan 15 23:58	0°ප		greatest brilliancy	8592 Sep 04 10:45	27° Ω 40'33	-4.8m
	8590 Feb 09 11:20	0° ≈		retrograde	8592 Sep 15 08:34	29° Ω 50'45	
	8590 Mar 05 16:15	0°) €		evening set	8592 Oct 02 11:03	24° ≙ 15'21	
desc. node	8590 Mar 12 23:16	9°) €05'17		inferior conj	8592 Oct 06 21:08	21° ≏ 32'19	-7°46'43
	8590 Mar 29 16:46	$0^{\circ}\Upsilon$		minimum elong	8592 Oct 06 13:10	21° ≏ 44'48	7°45'38
morning set	8590 Apr 04 20:52	7° Ƴ 44'11		min. Earth dist.	8592 Oct 06 09:39	21° ≙ 50'19	0.29035 AU

						0.000	
morning rise	8592 Oct 10 15:26	19° £ 12'59			8595 Mar 14 13:34	0° Υ	
direct	8592 Oct 28 08:22	13° ≏ 18'10			8595 Apr 07 11:29	0°8	
greatest brilliancy	8592 Nov 07 10:20	15° ≏ 08'34	-4.7m	evening rise	8595 Apr 07 12:15	0° 8 02'26	
	8592 Dec 01 08:31	0°M₊			8595 May 01 09:21	$\Pi^{\circ}0$	
morning max el	8592 Dec 16 08:27	13°M32'21	45°48'28		8595 May 25 09:33	0 \circ \odot	
asc. node	8592 Dec 18 18:12	15°M53′29		asc. node	8595 Jun 05 11:03	13° © 44'35	
	8593 Jan 01 11:30	0° ⊼ ¹			8595 Jun 18 14:47	$0^{\circ}\Omega$	
	8593 Jan 28 09:37	8°0			8595 Jul 13 04:05	0° m)	
	8593 Feb 22 20:27	0° ≈			8595 Aug 07 06:08	0∘ ⊽	
		0° ∀				0° ™	
	8593 Mar 19 14:00			1 1	8595 Sep 02 06:31		
desc. node	8593 Apr 09 11:42	25°) (45'27		desc. node	8595 Sep 25 06:09	24°M53'31	
	8593 Apr 12 21:52	0° Υ			8595 Sep 30 06:12	0° ∡ ¹	
	8593 May 07 00:09	$8^{\circ 0}$		evening max el	8595 Oct 07 18:11	7° ∡ ¹22'50	45°41'54
	8593 May 30 23:53	Π $\circ 0$			8595 Nov 04 13:07	0°₹	
morning set	8593 Jun 19 13:03	24° Ⅲ 27'12		greatest brilliancy	8595 Nov 15 20:42	5° る 27'56	-4.7m
	8593 Jun 23 23:34	0°ಲಾ		retrograde	8595 Nov 25 10:01	7° る 06'59	
	8593 Jul 18 00:53	$0^{\circ}\Omega$		evening set	8595 Dec 12 07:25	1°る43'40	
				8	8595 Dec 15 03:56	30°R. ✓	
superior conj	8593 Jul 28 13:00	13° Ω 03'50	-0°06'54	inferior conj	8595 Dec 16 17:35	29° ₹ '01'11	-6°36'21
	8593 Jul 28 14:40	13° Ω 09'00				28° × ⁷ 45'29	
minimum elong			0 00 39	minimum elong	8595 Dec 17 03:36		
behind sun begin	8593 Jul 27 16:39	12° Ω 00'34		min. Earth dist.	8595 Dec 17 12:34	28° ⋌ ³31'26	0.28571 AU
behind sun end	8593 Jul 29 12:41	14° Ω 17'24		morning rise	8595 Dec 21 23:22	25° ∡ ′49'24	
asc. node	8593 Jul 31 09:01	16° Ω 35'02		direct	8596 Jan 07 02:58	20° ∡ ¹47'14	
max. Earth dist.	8593 Jul 31 10:36	16° Ω 39'59	1.72426 AU	asc. node	8596 Jan 16 05:48	22° х 20'24	
	8593 Aug 11 04:34	0° m		greatest brilliancy	8596 Jan 18 05:08	23° ∡ 02′56	-4.8m
evening rise	8593 Sep 04 08:09	29° m 51'59			8596 Jan 30 19:32	0°ರ	
Č	8593 Sep 04 10:45	0∘ <u>⊽</u>		morning max el	8596 Feb 26 03:18	22° る 52'26	46°30'01
	8593 Sep 28 19:52	0°M			8596 Mar 04 02:30	0° ≈	
	8593 Oct 23 08:58	0° ⊼ ¹			8596 Mar 31 07:01	0° ∀	
		% 0° ਟ				0°Υ	
	8593 Nov 17 03:30				8596 Apr 25 19:29		
desc. node	8593 Nov 20 03:02	3° る 35'17		desc. node	8596 May 07 00:05	13° Y ′28′26	
	8593 Dec 12 04:53	0° ≈			8596 May 20 14:16	0°8	
	8594 Jan 06 15:22	0° ₩			8596 Jun 14 00:37	Π °0	
	8594 Feb 01 17:57	$0^{\circ}\mathbf{\Upsilon}$			8596 Jul 08 07:44	0 \circ \odot	
	8594 Mar 01 13:01	$B_{\circ 0}$			8596 Aug 01 14:27	$0^{\circ}\Omega$	
evening max el	8594 Mar 03 15:53	2° 8 08'26	46°51'08		8596 Aug 25 21:46	o∘ mp	
asc. node	8594 Mar 13 02:44	11° 8 17'03		asc. node	8596 Aug 27 21:22	2° m/26'49	
use. Hour	8594 Apr 06 12:24	0° I		morning set	8596 Aug 29 22:50	4° m 59'23	
areastast brillianas	-	3° Ⅱ 03'18	4 000	morning set	•	0∘ ⊽	
greatest brilliancy	8594 Apr 13 06:06		-4.9111		8596 Sep 19 05:28	0 ==	
retrograde	8594 Apr 23 02:05	4° ∏ 52'48					
	8594 May 08 19:22	30° ₹ 8		superior conj	8596 Oct 06 04:05	20° ≏ 53'46	1°16'51
evening set	8594 May 11 04:57	28° 8 35'24		minimum elong	8596 Oct 05 20:28	20° ≏ 30'17	1°16'44
inferior conj	8594 May 13 17:26	27° 8 02'53	9°04'57	max. Earth dist.	8596 Oct 06 15:54	21° ≙ 30′13	1.73260 AU
minimum elong	8594 May 13 21:09	26° 8 57'09	9°04'36		8596 Oct 13 13:17	0° M	
min. Earth dist.	8594 May 13 16:44	27° 8 03'57	0.27148 AU		8596 Nov 06 21:33	0° ∡ ¹	
morning rise	8594 May 16 13:26	25° 8 19'16		evening rise	8596 Nov 11 14:39	5° ∡ ¹48'02	
direct	8594 Jun 03 09:46	19° 8 15'27		Č	8596 Dec 01 06:59	ರ°0	
greatest brilliancy	8594 Jun 12 23:22	20° 8 59'28	-4.9m	desc. node	8596 Dec 17 14:44	20° පි 01'42	
J. IIII St GIIII and y	8594 Jun 29 03:41	0°II			8596 Dec 25 17:58	0°≈	
desc. node	8594 Jul 02 21:43	2° ∏ 50′09			8597 Jan 19 06:21	0° ∺	
			46020152				
morning max el	8594 Jul 23 11:54	21° I I22'33	46°30'53		8597 Feb 12 20:30	0°Υ •••	
	8594 Aug 01 00:08	0°®			8597 Mar 09 15:04	0°8	
	8594 Aug 28 14:33	$0^{\circ}\Omega$			8597 Apr 03 21:20	Π °0	
	8594 Sep 23 18:27	0° ™		asc. node	8597 Apr 09 13:58	6° Ⅱ 36'48	
	8594 Oct 19 05:36	0。 ত			8597 Apr 30 08:30	0 \circ \odot	
asc. node	8594 Oct 23 20:08	5° ₽ 29'22		evening max el	8597 May 15 07:23	15° © 42'45	46°51'27
	8594 Nov 13 05:32	0° M .		Č	8597 May 30 10:49	$0^{\circ}\Omega$	
	8594 Dec 07 21:03	0° ⊼ ¹		greatest brilliancy	8597 Jun 24 00:49	16° Ω 15'50	-4.9m
	8595 Jan 01 06:30	0°중		retrograde	8597 Jul 04 16:09	$18^{\circ}\Omega 22'50$	7.7111
momist				•			
morning set	8595 Jan 18 07:10	21° る 04'29		evening set	8597 Jul 19 15:37	13° Ω 59'22	1000174
	8595 Jan 25 11:46	0° ≈		inferior conj	8597 Jul 25 18:07	10° Ω 21'18	1°09'54
desc. node	8595 Feb 12 12:55	22° ≈ 27'42		minimum elong	8597 Jul 25 20:46	10° Ω 17'11	1°08'54
	8595 Feb 18 13:56	0° ∀		min. Earth dist.	8597 Jul 25 09:49	10° Ω 34'09	0.27689 AU
max. Earth dist.	8595 Feb 23 08:56	5° ¥ 58'58	1.71792 AU	desc. node	8597 Jul 30 09:24	7° Ω 33'11	
				morning rise	8597 Aug 01 02:25	6° Ω 36′10	
superior conj	8595 Feb 26 11:46	9°) 52'44	-0°33'07	direct	8597 Aug 15 17:01	2° Ω 27'13	
minimum elong	8595 Feb 26 04:00	9°) €28'26		greatest brilliancy	8597 Aug 25 12:36	4°Ω12'14	-4.8m
	20,01.00	, ,(2020	J J= 11	or carest offiliality	507, 11ug 25 12.50	. 061217	

	0505 G 20 22 20	00.00			0.600 Nr. 11 00 07	000	
	8597 Sep 30 23:30	0° m/20100	45040120		8600 May 11 09:07	ია ი 0ა ⊙	
morning max el	8597 Oct 03 14:23	2° m/29'00	45°48'38		8600 Jun 05 09:41	0° N	
aga mada	8597 Oct 30 07:52	0° ჲ 23° ჲ 27'02		arranina marral	8600 Jul 01 11:40	0° Т р 26° Т р 28'10	46°08'42
asc. node	8597 Nov 20 08:18 8597 Nov 26 01:20	0°M		evening max el	8600 Jul 26 12:12	20 11/28 10 0° Ω	40 08 42
	8597 Dec 21 14:25	0°11℃ 0° 7 7		desc. node	8600 Jul 30 03:22 8600 Aug 27 20:54	0 <u>≈</u> 22° <u>≈</u> 36'44	
	8598 Jan 15 11:20	% 0° ⋜		greatest brilliancy	8600 Sep 03 01:43	25° £ 29'30	-4.8m
	8598 Feb 08 22:24	0°≈		retrograde	8600 Sep 14 01:14	23 = 29 30 27° £ 40'55	-4.0111
	8598 Mar 05 03:10	0° ₩		evening set	8600 Oct 01 00:02	22° ⊆ 10'21	
desc. node	8598 Mar 12 01:18	8°) (37'42		min. Earth dist.	8600 Oct 05 00:26		0.29005 AU
dese. Hode	8598 Mar 29 03:35	0°Υ		inferior conj	8600 Oct 05 13:13	19° £ 22'34	
morning set	8598 Apr 02 07:19	5°Υ12'30		minimum elong	8600 Oct 05 04:49	19° Ω 35'45	
morning sec	8598 Apr 22 01:10	0°8		morning rise	8600 Oct 09 09:48	16° Ω 59'55	, 3037
	003011p1 22 01.10	° O		direct	8600 Oct 27 00:49	11° ⊆ 09'08	
superior conj	8598 May 13 01:05	26° 8 24'12	-1°26'42	greatest brilliancy	8600 Nov 06 00:35	12° ♀ 57'57	-4.7m
minimum elong	8598 May 13 04:44	26° 8 35'42		<i>5</i>	8600 Dec 02 14:15	0°M₊	
max. Earth dist.	8598 May 14 03:32		1.71275 AU	morning max el	8600 Dec 15 00:17	11° M 21'58	45°47'32
	8598 May 15 21:45	$\Pi^{\circ}0$		asc. node	8600 Dec 18 20:10	15°ML07'27	
	8598 Jun 08 19:28	0ಂಣ			8601 Jan 02 04:31	0° ∡ ¹	
evening rise	8598 Jun 22 10:32	17° © 02'21			8601 Jan 28 23:23	5°0	
asc. node	8598 Jul 02 22:55	0° Ω 08'49			8601 Feb 23 08:48	0°≈	
	8598 Jul 02 20:05	$0^{\circ}\Omega$			8601 Mar 20 01:39	0° ∀	
	8598 Jul 27 00:52	0° m y		desc. node	8601 Apr 09 13:39	25°) 16′30	
	8598 Aug 20 11:01	0∘ 亚			8601 Apr 13 09:07	0 ° Υ	
	8598 Sep 14 04:46	0° M.			8601 May 07 11:10	0°8	
	8598 Oct 09 10:04	0° ⊀ ¹			8601 May 31 10:45	Π $^{\circ}0$	
desc. node	8598 Oct 22 17:26	15° х 30′09		morning set	8601 Jun 18 02:01	22° Ⅱ 04'09	
	8598 Nov 04 09:37	8°0			8601 Jun 24 10:18	0 \circ \odot	
	8598 Dec 01 18:01	0° ≈			8601 Jul 18 11:30	0 $^{\circ}\Omega$	
evening max el	8598 Dec 18 10:22	16° ≈ 55'25	46°05'48				
	8599 Jan 01 19:07	0° ∀		superior conj	8601 Jul 27 03:19	10° Ω 46′15	-0°10'29
greatest brilliancy	8599 Jan 27 01:20	16°) €02'18	-4.8m	minimum elong	8601 Jul 27 05:50	10° Ω 54'03	0°10'32
retrograde	8599 Feb 05 20:17	17°) 49'22		behind sun begin	8601 Jul 26 11:17	9° Ω 56′23	
asc. node	8599 Feb 12 17:25	16° ∺ 51'35		behind sun end	8601 Jul 28 00:23	11° Ω 51'43	
evening set	8599 Feb 20 09:39	13°) 39'17		max. Earth dist.	8601 Jul 30 04:49	14° Ω 34'35	1.72381 AU
inferior conj	8599 Feb 26 14:12	10° 米 01′19		asc. node	8601 Jul 31 11:03	16° Ω 08'32	
minimum elong	8599 Feb 26 06:39	10°) 12′56	3°26'32		8601 Aug 11 15:06	0° ™	
min. Earth dist.	8599 Feb 26 16:49		0.27186 AU	evening rise	8601 Sep 03 00:49	27° m 42'44	
morning rise	8599 Mar 04 03:16	6°) 43′27			8601 Sep 04 21:18	0∘ ⊽	
direct	8599 Mar 19 08:55	2°) (07'46	4.0		8601 Sep 29 06:32	0° ™	
greatest brilliancy	8599 Mar 29 16:02	4°) €07'50	-4.9m		8601 Oct 23 19:55	0° ⊼	
	8599 May 03 19:38	0° Υ	46050122		8601 Nov 17 14:56	0°る	
morning max el	8599 May 08 22:15	5°Υ03'06	46°59'32	desc. node	8601 Nov 20 04:57	3° る 06'25	
dasa mada	8599 Jun 01 06:00	0°8 3°839'00			8601 Dec 12 17:05	0° ∺	
desc. node	8599 Jun 04 12:04 8599 Jun 27 08:17	0°Ⅱ			8602 Jan 07 04:52	υ χ	
	8599 Jul 22 14:25	0°©					
	8599 Aug 16 12:16	0°Ω 0 €3					
	8599 Sep 10 06:03	0°m)					
asc. node	8599 Sep 25 09:43	עוי 18° Mp 27'17					
300. 110 u c	8599 Oct 04 20:41	10 ஆ2/1/ 0° ட					
	8599 Oct 29 08:10	0°M					
morning set	8599 Nov 07 18:16	11°M35'00					
. 8	8599 Nov 22 16:55	0°⊀					
max. Earth dist.	8599 Dec 12 21:10	24° ₹ 55'00	1.72980 AU				
superior conj	8599 Dec 14 09:53	26° х 48′30	1°06'57				
minimum elong	8599 Dec 14 19:25	27° ∡ 17'59	1°06'52				
3	8599 Dec 16 23:49	8°0					
	8600 Jan 10 05:31	0° ≈					
desc. node	8600 Jan 15 02:45	6° ≈ 03'16					
evening rise	8600 Jan 21 12:09	13° ≈ 58'47					
	8600 Feb 03 10:02	0°) €					
	8600 Feb 27 13:20	$0^{\circ}\mathbf{\Upsilon}$					
	8600 Mar 23 16:20	9° 8					
	8600 Apr 16 21:31	$\Pi^{\circ}0$					
asc. node	8600 May 08 01:20	25° Ⅱ 57'23					