superior conj	101 Mar 03 j 23:56	12° 米 13′12		inferior conj	103 Jul 21 j 11:13	25° © 46'37	
minimum elong	101 Mar 04 j 04:35	12° ∺ 27'36		minimum elong	103 Jul 21 j 01:40	26°©01'20	7°06'52
max. Earth dist.	101 Mar 07 j 17:20		1.72616 AU	min. Earth dist.	103 Jul 21 j 16:41	25° © 38'10	0.28645 AU
	101 Mar 18 j 08:37	0 ° $\mathbf{\Upsilon}$		morning rise	103 Jul 25 j 15:06	23° © 14'55	
evening rise	101 Apr 11 j 09:07	29° Ƴ 36′22		direct	103 Aug 11 j 23:50	17° © 33'47	
	101 Apr 11 j 16:48	9° 8		greatest brilliancy	103 Aug 22 j 21:20	19° 5 43'23	-4.8m
asc. node	101 Apr 21 j 07:13	11° 8 47'17			103 Sep 09 j 07:57	$0^{\circ}\Omega$	
	101 May 06 j 04:14	$\Pi^{\circ}0$		morning max el	103 Oct 01 j 01:24	19° Ω 27'21	46°31'31
	101 May 30 j 19:00	0°9		asc. node	103 Oct 07 j 02:07	25° Ω 36'47	
	101 Jun 24 j 13:52	$0^{\circ}\Omega$		use. Hour	103 Oct 11 j 06:01	0° mp	
	101 Jul 19 j 14:59	0° m)			103 Nov 06 j 23:11	0∘ ಹ ೧.ಗಿ	
desc. node	-	=			103 Nov 00 j 23:11 103 Dec 02 j 03:13	0° M	
desc. node	101 Aug 10 j 20:38	26° m 13'08					
	101 Aug 14 j 02:28	0° ™			103 Dec 26 j 16:49	0° ∡ 7	
	101 Sep 09 j 08:43	0° M			104 Jan 20 j 01:21	0° ろ	
	101 Oct 07 j 10:43	0° ∡ ¹		desc. node	104 Jan 26 j 15:54	8° ප 09'03	
evening max el	101 Oct 07 j 12:49	0° ₰ 05'16	47°14'24		104 Feb 13 j 08:49	0° ≈	
	101 Nov 13 j 23:48	0°ප			104 Mar 08 j 16:46	0° ℋ	
greatest brilliancy	101 Nov 17 j 05:19	1° る 20'54	-4.9m		104 Apr 02 j 01:48	0 ° $\mathbf{\Upsilon}$	
retrograde	101 Nov 27 j 06:06	3° ප 16'38		morning set	104 Apr 05 j 19:05	4° Ƴ 34'24	
asc. node	101 Dec 01 j 23:38	2°る48'47			104 Apr 26 j 11:49	0°8	
	101 Dec 09 j 23:14	30°Ŗ ҂ ᠯ					
evening set	101 Dec 11 j 20:39	29° х 01'07		superior conj	104 May 12 j 17:01	19° 8 54'33	-0°14'22
min. Earth dist.	101 Dec 17 j 03:01	25° × 755'11	0.26585 AU	minimum elong	104 May 12 j 19:56	20° 8 03'33	
inferior conj	101 Dec 17 j 20:56	25° × 27'36	3°57'54	behind sun begin	104 May 12 j 19:55	19° 8 32'47	0 1413
	-		3°55'34	behind sun end		20° 8 34'18	
minimum elong	101 Dec 17 j 12:50		3 33 34		104 May 13 j 05:57		1.72642.441
morning rise	101 Dec 23 j 05:25	22° ∡ 16'35		max. Earth dist.	104 May 12 j 10:42	19° 8 35'11	1.73643 AU
direct	102 Jan 07 j 04:16	17° ∡ 749′20		asc. node	104 May 18 j 18:57	27° 8 22'36	
greatest brilliancy	102 Jan 16 j 13:17	19° ∡ 28'55	-4.9m		104 May 20 j 22:14	$\Pi^{\circ}0$	
	102 Feb 03 j 20:37	0° ප			104 Jun 14 j 08:17	0 \circ \odot	
morning max el	102 Feb 25 j 23:45	19° る 37'56	46°27'37	evening rise	104 Jun 17 j 17:53	4° © 10'49	
	102 Mar 08 j 05:02	0° ≈			104 Jul 08 j 17:45	$0 ^{\circ} \Omega$	
desc. node	102 Mar 23 j 13:34	16° ≈ 25'30			104 Aug 02 j 03:18	O° My	
	102 Apr 04 j 18:55	0° ∀			104 Aug 26 j 14:23	0∘ ত	
	102 Apr 30 j 23:51	$_0$ $^{\circ}$ $^{\gamma}$		desc. node	104 Sep 07 j 08:43	14° £ 22'28	
	102 May 26 j 13:10	0°8			104 Sep 20 j 04:41	0°M	
	102 Jun 20 j 16:04	0°II			104 Oct 15 j 00:36	0° ∡ 7	
asc. node	102 Jul 14 j 16:35	29° Ⅱ 06'49			104 Nov 09 j 07:42	0°ਤ	
asc. node	102 Jul 15 j 10:01	0°9			104 Nov 05 j 07:42 104 Dec 05 j 18:04	0°≈	
	-	0° U			•		47907120
. ,	102 Aug 08 j 19:46			evening max el	104 Dec 18 j 11:21	13°≈28'02	47°07'39
morning set	102 Aug 23 j 04:52	17° £ 50′29		asc. node	104 Dec 29 j 11:36	24°≈13'44	
	102 Sep 01 j 22:52	0° m p			105 Jan 04 j 22:37	0° ∀	
	102 Sep 25 j 21:44	0∘ ⊽		greatest brilliancy	105 Jan 27 j 15:36	14° ¥ 50′06	-4.9m
max. Earth dist.	102 Sep 27 j 20:29	2° £ 26'45	1.71452 AU	retrograde	105 Feb 07 j 07:13	16° ¥ 58'55	
				evening set	105 Feb 25 j 04:24	10°) (44′14	
superior conj	102 Sep 30 j 01:55	5° ≙ 14'29	1°09'28	inferior conj	105 Feb 28 j 09:52	8°) (42′42	8°29'38
minimum elong	102 Sep 30 j 11:44	5° ≏ 45'19	1°09'11	minimum elong	105 Feb 28 j 13:14	8° 升 37′22	8°29'29
	102 Oct 19 j 18:46	0°M		min. Earth dist.	105 Feb 27 j 22:38	9° ₩ 00'28	0.28346 AU
desc. node	102 Nov 03 j 06:26	18°ML12'34		morning rise	105 Mar 03 j 22:20	6°) 31'11	
evening rise	102 Nov 09 j 14:51	26°ML11'17		direct	105 Mar 21 j 12:06	0°) 35′40	
	102 Nov 12 j 15:42	0° ∡ ¹		greatest brilliancy	105 Mar 30 j 17:17	2° 升 10′21	-4.8m
	102 Dec 06 j 13:42	0°ප		desc. node	105 Apr 20 j 01:16	13°) 50'40	
	102 Dec 30 j 14:06	0° ≈			105 May 08 j 15:37	0°Υ	
	103 Jan 23 j 19:14	0°) €		morning max el	105 May 00 j 13:57	0° Υ 47'53	45°50'00
	103 Jan 23 j 19:14 103 Feb 17 j 08:57	0° Υ		morning max ci	105 Jun 06 j 19:37	0° と	43 30 00
	-	8° Y 27'10					
asc. node	103 Feb 24 j 09:23				105 Jul 03 j 14:17	0° Ⅱ	
	103 Mar 14 j 13:08	0° S			105 Jul 29 j 05:37	0°9	
	103 Apr 09 j 18:16	∏ °0		asc. node	105 Aug 11 j 04:32	15° © 31'14	
	103 May 08 j 03:36	0ංම			105 Aug 23 j 02:57	$0^{\circ}\Omega$	
evening max el	103 May 12 j 13:56	4°918'07	45°18'20		105 Sep 16 j 11:34	0° m	
	103 Jun 15 j 04:35	$0^{\circ}\Omega$			105 Oct 10 j 12:05	0。 ত	
desc. node	103 Jun 15 j 22:57	0° Ω 21′28		greatest brilliancy	105 Oct 19 j 00:04	10° ≏ 40′20	-3.9m
greatest brilliancy	103 Jun 19 j 17:14	1° Q 53'29	-4.7m		105 Nov 03 j 08:39	0° M ₊	
retrograde	103 Jun 30 j 02:52	3° Ω 49'42		morning set	105 Nov 04 j 00:16	0° ™ 49'09	
	103 Jul 14 j 05:01	30° ₹ 5			105 Nov 27 j 04:17	0° ∡ ″	
evening set	103 Jul 16 j 11:58	28°545'28		desc. node	105 Nov 30 j 18:10	4° ∡ ³30′22	
Ü	J .				J		

superior conj	105 Dec 15 j 13:41	23° ∡ ¹08'27	-0°34'15	desc. node	108 May 17 j 13:02	11° 8 49'44	
minimum elong	105 Dec 15 j 05:01	22° х 41'12		direct	108 May 30 j 21:41	8° 8 21'28	
max. Earth dist.	105 Dec 18 j 11:10	26° х 46'49	1.71157 AU	greatest brilliancy	108 Jun 10 j 08:08	10° 8 17'53	-4 7m
max. Darm dist.	105 Dec 21 j 00:40	0°る	1.71137 110	greatest orimaney	108 Jul 09 j 21:23	0°II	7.7111
	106 Jan 13 j 22:47	0° ≈		morning max el	108 Jul 18 j 17:41	8° Ⅱ 09'12	45°51'25
evening rise	106 Jan 25 j 23:48	15°≈03'02		morning max er	108 Aug 09 j 02:16	0°9	43 31 23
evening rise	106 Feb 06 j 23:48	0° ∺			108 Sep 04 j 19:17	$0 {\circ} \Omega$	
	106 Mar 03 j 05:20	0° Υ		asc. node	108 Sep 07 j 16:22	3° Ω 21'12	
asc. node	106 Mar 23 j 21:21	25° Y 20′05		use. Houe	108 Sep 30 j 01:10	0°m)	
asc. node	106 Mar 27 j 17:15	0°8			108 Oct 24 j 12:35	0∘ ಹ ೧.ಗು	
	106 Apr 21 j 13:36	0°II			108 Nov 17 j 14:50	0° ™	
	106 May 16 j 21:29	0°©			108 Dec 11 j 13:42	0°×7	
	106 Jun 11 j 23:31	0°Ω		desc. node	108 Dec 28 j 06:05	20° ₹ 54'33	
	106 Jul	0° m)		desc. Hode	109 Jan 04 j 12:20	20 x 34 33	
desc. node	106 Jul 13 j 10:53	راتا 0 4°10/01'34		morning set	109 Jan 04 j 12.20 109 Jan 20 j 07:09	0 3 19° る 44'32	
evening max el	106 Jul 23 j 17:47	14° M) 14'37	46001115	morning set	109 Jan 28 j 12:18	19° ∞	
evening max er	106 Jul 23 j 17.47 106 Aug 10 j 13:38	0° ம	40 01 13		109 Jan 28 j 12:18 109 Feb 21 j 14:26	0° ∺	
			4.0		109 100 21 j 14.20	0 /	
greatest brilliancy	106 Sep 01 j 23:12	13° Ω 09'04	-4.8m		109 Mar 01 j 14:02	9° ¥ 54'42	1922155
retrograde	106 Sep 10 j 23:18	14° £ 37'54		superior conj	,	9° X 34 42 10° X 06'45	
evening set	106 Sep 27 j 17:23	9° ₽ 20'02	7012120	minimum elong	109 Mar 01 j 17:55		1°23′53 1.72562 AU
inferior conj	106 Oct 01 j 17:42	6° £ 56'06		max. Earth dist.	109 Mar 05 j 06:52		1./2562 AU
minimum elong	106 Oct 02 j 03:56	6° ₽ 40'29			109 Mar 17 j 19:23	0° Υ	
min. Earth dist.	106 Oct 02 j 13:09	6° Ω 26'26	0.27076 AU	evening rise	109 Apr 09 j 01:26	27° Y 25'58	
morning rise	106 Oct 06 j 14:07	4° £ 02'56			109 Apr 11 j 03:34	0°8	
	106 Oct 15 j 23:35	30° ₽, ™)		asc. node	109 Apr 20 j 09:09	11° 8 20'07	
direct	106 Oct 22 j 12:00	29° Mp 07'58			109 May 05 j 15:06	0°II	
	106 Oct 29 j 04:20	0∘ ⊽			109 May 30 j 06:09	0°€	
greatest brilliancy	106 Nov 02 j 11:07	1° ≙ 23'49	-4.9m		109 Jun 24 j 01:32	$0^{\circ}\Omega$	
asc. node	106 Nov 03 j 13:47	1° ≏ 51'19			109 Jul 19 j 03:31	0°Щ	
	106 Dec 09 j 14:58	0° M		desc. node	109 Aug 09 j 22:45	25° m 39'17	
morning max el	106 Dec 12 j 06:54	2°M41'49	46°56'11		109 Aug 13 j 16:27	0∘ ত	
	107 Jan 06 j 11:31	0° ∡ ¹			109 Sep 09 j 01:25	0°M	
	107 Feb 01 j 09:42	0°ਰ		evening max el	109 Oct 05 j 02:07	27°M40'11	47°12'55
desc. node	107 Feb 23 j 03:48	25° る 49'31			109 Oct 07 j 10:25	0° ∡	
	107 Feb 26 j 15:36	0° ≈		greatest brilliancy	109 Nov 14 j 19:03	28° ∡ 52'56	-4.9m
	107 Mar 23 j 14:35	0° ∀			109 Nov 18 j 10:10	0° ප	
	107 Apr 17 j 10:09	0° Y		retrograde	109 Nov 24 j 19:08	0° ප 48'10	
	107 May 12 j 03:22	0° 8		asc. node	109 Dec 01 j 01:45	29° ₹ 58'58	
	107 Jun 05 j 17:52	$\Pi^{\circ}0$			109 Dec 01 j 00:09	30°₹ ⋌ 7	
morning set	107 Jun 13 j 13:12	9° Ⅱ 33′20		evening set	109 Dec 09 j 07:39	26° ҂ ³34'55	
asc. node	107 Jun 16 j 06:49	12° ∏ 54′24		min. Earth dist.	109 Dec 14 j 16:38	23° ҂ 25'52	0.26543 AU
	107 Jun 30 j 04:46	0 \circ		inferior conj	109 Dec 15 j 09:28	23° ₹ 00'01	3°36'13
max. Earth dist.	107 Jul 16 j 03:08	19° © 39'27	1.73022 AU	minimum elong	109 Dec 15 j 01:56	23° х 11′36	3°33'59
				morning rise	109 Dec 20 j 20:36	19° ∡ ¹45′52	
superior conj	107 Jul 19 j 20:04	24°9514'26	1°08'24	direct	110 Jan 04 j 16:24	15° ⊀ 22'07	
minimum elong	107 Jul 19 j 11:41	23° © 48'31	1°08'10	greatest brilliancy	110 Jan 14 j 02:58	17° ∡ 03'29	-4.9m
	107 Jul 24 j 11:43	0 \circ Ω			110 Feb 04 j 11:36	0° ප	
	107 Aug 17 j 15:27	0° m)		morning max el	110 Feb 23 j 13:53	17° る 17'54	46°29'14
evening rise	107 Aug 25 j 06:09	9° m 28'28			110 Mar 08 j 00:22	0° ≈	
	107 Sep 10 j 17:32	0∘ ಹ		desc. node	110 Mar 22 j 15:36	15° ≈ 46′09	
	107 Oct 04 j 19:34	0° M .			110 Apr 04 j 09:47	0° ∀	
desc. node	107 Oct 05 j 20:35	1° ጤ 17'52			110 Apr 30 j 12:47	0° Y	
	107 Oct 28 j 22:41	0° ∡ ¹			110 May 26 j 01:03	9° 8	
	107 Nov 22 j 04:16	5°0			110 Jun 20 j 03:21	$\Pi^{\circ}0$	
	107 Dec 16 j 15:26	0° ≈		asc. node	110 Jul 13 j 18:44	28° Ⅱ 40'01	
	108 Jan 10 j 15:04	0° ∀			110 Jul 14 j 20:57	0ංම	
asc. node	108 Jan 26 j 23:30	19° ∺ 00'02			110 Aug 08 j 06:32	$0^{\circ}\Omega$	
	108 Feb 05 j 18:06	0° Υ		morning set	110 Aug 20 j 20:47	15° Ω 37'19	
evening max el	108 Feb 28 j 15:36	24° Y ′05'37	45°55'02		110 Sep 01 j 09:37	0° m	
	108 Mar 05 j 19:22	0° 8			110 Sep 25 j 08:32	0∘ ಹ	
greatest brilliancy	108 Apr 06 j 23:24	22° 8 47'07	-4.7m	max. Earth dist.	110 Sep 25 j 08:19	29° m 59'19	1.71496 AU
retrograde	108 Apr 17 j 19:12	24° 8 55'15					
evening set	108 May 03 j 04:51	20° 8 20'48		superior conj	110 Sep 27 j 15:15	2° £ 51'43	1°11'29
inferior conj	108 May 09 j 06:41	16° 8 40'30	1°55'07	minimum elong	110 Sep 28 j 00:40	3° £ 21'15	1°11'14
minimum elong	108 May 09 j 10:47	16° 8 34'02	1°53'57		110 Oct 19 j 05:40	0° M	
min. Earth dist.	108 May 09 j 11:59	16° 8 32'08	0.28989 AU	desc. node	110 Nov 02 j 08:27	17°M44'23	
morning rise	108 May 15 j 16:39	12° 8 48'10		evening rise	110 Nov 07 j 01:03	23°M38'05	

	110 Nov 12 j 02:43	0° ∡ ¹		morning max el	113 May 07 j 02:34	28° ¥ 34'59	45°50'47
	110 Dec 06 j 00:50	0°ਰ		morning max cr	113 May 07 j 02:54	0° Υ	45 50 47
	110 Dec 30 j 01:22	0° ≈			113 Jun 06 j 11:07	0°8	
	111 Jan 23 j 06:43	0° ₩			113 Jul 03 j 03:23	0°II	
	111 Feb 16 j 20:51	0° Υ			113 Jul 28 j 17:36	0°©	
asc. node	111 Feb 23 j 11:26	7° Υ 56'58		asc. node	113 Aug 10 j 06:31	15° 5 02'07	
use. Houe	111 Mar 14 j 01:59	0° 8		ase. Houe	113 Aug 22 j 14:23	0°Ω	
	111 Apr 09 j 09:13	0°П			113 Sep 15 j 22:43	0° m)	
	111 May 08 j 00:30	0°©			113 Oct 09 j 23:06	0∘ ਦ ੦ਾਲ	
evening max el	111 May 10 j 06:34	2°9510'16	45°18'12	greatest brilliancy	113 Oct 19 j 07:14	□ 11° □ 43'44	-3.9m
desc. node	111 Jun 15 j 01:10	28°9549'11	43 1612	morning set	113 Nov 01 j 11:42	28° ♀ 19'30	-3.9111
greatest brilliancy	111 Jun 17 j 06:55	29°541'23	-4.7m	morning set	113 Nov 02 j 19:37	0° ™	
greatest offinality	111 Jun 18 j 04:37	0°Ω	-4./111		113 Nov 02 j 15:37 113 Nov 26 j 15:15	0° ⊼ ¹	
retrograde	111 Jun 27 j 18:29	1° Ω 38'51		desc. node	113 Nov 20 j 13:13 113 Nov 29 j 20:20	4° ∡ 102'41	
renograde	,	30°Rூ		desc. node	113 NOV 29 J 20.20	4 X 02 41	
avanina aat	111 Jul 06 j 22:04			aumorior coni	112 Dec. 12 : 22:55	200.722112	0920121
evening set	111 Jul 14 j 00:17	26°539'01	(05(112	superior conj	113 Dec 12 j 22:55	20° 🗷 32'13	
inferior conj	111 Jul 19 j 02:46	23°535'10		minimum elong	113 Dec 12 j 15:04	20° 🗷 07'32	0°30'09
minimum elong	111 Jul 18 j 17:00	23°950'15		max. Earth dist.	113 Dec 15 j 17:03	24° ∡ ′00′03	1.71130 AU
min. Earth dist.	111 Jul 19 j 07:23	23°528'02	0.28676 AU		113 Dec 20 j 11:37	6°0	
morning rise	111 Jul 23 j 09:31	20°559'13			114 Jan 13 j 09:45	0° ≈	
direct	111 Aug 09 j 16:26	15° © 22'05		evening rise	114 Jan 23 j 10:35	12°≈32'37	
greatest brilliancy	111 Aug 20 j 12:10	17° © 30'16	-4.8m		114 Feb 06 j 10:48	0° ∺	
	111 Sep 09 j 19:53	0 ° Ω			114 Mar 02 j 16:25	0° Ƴ	
morning max el	111 Sep 28 j 16:51	17° Ω 11'47	46°29'54	asc. node	114 Mar 22 j 23:21	24° Y ′51′54	
asc. node	111 Oct 06 j 04:08	24° Ω 50'49			114 Mar 27 j 04:33	0°B	
	111 Oct 11 j 00:31	0° m			114 Apr 21 j 01:22	Π $\circ 0$	
	111 Nov 06 j 13:53	0∘ 亚			114 May 16 j 10:10	0 \circ \odot	
	111 Dec 01 j 16:19	0° M .			114 Jun 11 j 14:03	$0 {\circ} \Omega$	
	111 Dec 26 j 05:05	0° ∡			114 Jul 09 j 08:06	0° m y	
	112 Jan 19 j 13:04	ರ∘ರ		desc. node	114 Jul 12 j 12:56	3° Mp 16'03	
desc. node	112 Jan 25 j 17:56	7° る 39'34		evening max el	114 Jul 21 j 06:15	11° m 53'04	45°58'35
	112 Feb 12 j 20:07	0° ≈			114 Aug 11 j 04:15	0∘ ত	
	112 Mar 08 j 03:44	0° ∀		greatest brilliancy	114 Aug 30 j 12:06	10° ≏ 46′22	-4.8m
	112 Apr 01 j 12:30	0° Y		retrograde	114 Sep 08 j 11:00	12° ₽ 14'32	
morning set	112 Apr 03 j 11:51	2° Y 25'34		evening set	114 Sep 25 j 09:18	6° £ 51'50	
	112 Apr 25 j 22:22	0° ႘		inferior conj	114 Sep 29 j 06:39	4° ₽ 32'17	-7°25'19
				minimum elong	114 Sep 29 j 16:33	4° ≙ 17'10	7°23'37
superior conj	112 May 10 j 11:12	17° 8 50'43	-0°17'27	min. Earth dist.	114 Sep 30 j 02:52	4° ₽ 01'26	0.27141 AU
minimum elong	112 May 10 j 14:45	18° ප 01'37	0°17'17	morning rise	114 Oct 03 j 23:23	1° ≏ 44'02	
max. Earth dist.	112 May 10 j 10:44	17° 8 49'16	1.73634 AU		114 Oct 07 j 05:33	30°R, Mp	
asc. node	112 May 17 j 21:06	26° 8 56'51		direct	114 Oct 20 j 01:07	26° Mp 42'50	
	112 May 20 j 08:45	Π $^{\circ}0$		greatest brilliancy	114 Oct 31 j 02:08	29° m 00'00	-4.9m
	112 Jun 13 j 18:54	0°ಅ		· ·	114 Nov 02 j 09:51	0∘ ত	
evening rise	112 Jun 15 j 13:14	2°9510'06		asc. node	114 Nov 02 j 15:55	0° ჲ 07'06	
C	112 Jul 08 j 04:33	$0^{\circ}\Omega$			114 Dec 09 j 14:13	0° M .	
	112 Aug 01 j 14:25	0° m)		morning max el	114 Dec 09 j 19:39	0°M13'52	46°56'15
	112 Aug 26 j 01:57	0∘ <u>v</u>			115 Jan 06 j 04:08	0° ∡ ¹	
desc. node	112 Sep 06 j 10:42	13° ≏ 52'15			115 Jan 31 j 23:47	8°0	
	112 Sep 19 j 16:56	0° M .		desc. node	115 Feb 22 j 05:48	25° る 16'55	
	112 Oct 14 j 13:51	0° ∡ ¹			115 Feb 26 j 04:21	0° ≈	
	112 Nov 08 j 22:37	0°⋜			115 Mar 23 j 02:31	0° ∀	
	112 Dec 05 j 12:39	0° ≈			115 Apr 16 j 21:33	0° Υ	
evening max el	112 Dec 16 j 03:17	11° ≈ 10'35	47°09'25		115 May 11 j 14:24	0°8	
asc. node	112 Dec 28 j 13:45	23° ≈ 15'27	., 0, 20		115 Jun 05 j 04:40	0°II	
ase. Hour	113 Jan 05 j 08:04	0° ∀		morning set	115 Jun 11 j 07:42	7° Ⅱ 30'05	
greatest brilliancy	113 Jan 25 j 07:48	12°) 34′09	-4.9m	asc. node	115 Jun 15 j 08:59	12° Ⅱ 28'12	
retrograde	113 Feb 04 j 23:07	14°) 42'22	1.7111	use. Houe	115 Jun 29 j 15:27	0°9	
evening set	113 Feb 22 j 20:39	8° ¥ 27'10		max. Earth dist.	115 Jul 13 j 23:35	17°5641'20	1.73069 AU
min. Earth dist.	113 Feb 25 j 12:52	6°) 46′24	0.28290 AU	max. Earth dist.	113 Jul 13 j 23.33	17 34120	1.75007710
inferior conj	113 Feb 26 j 01:14	6° X 26'49		superior conj	115 Jul 17 j 14:29	22°909'56	1°06'31
minimum elong	113 Feb 26 j 03:50	6° ∺ 22'42		minimum elong	115 Jul 17 j 05:57	21°943'33	1°06'15
morning rise	113 Mar 01 j 11:17	4° € 18'50	0 00 10	mmmum clong	115 Jul 17 j 03:37 115 Jul 23 j 22:24	21 3 43 33	1 0012
morning 1150	113 Mar 10 j 02:15	4 X 1830 30°R≈			115 Jul 25 j 22.24 115 Aug 17 j 02:16	0° m p	
direct	113 Mar 19 j 03:08	30 k≈ 28°≈21'02		evening rise	115 Aug 17 J 02.16 115 Aug 22 j 22:37	0 my 7° my 16'32	
greatest brilliancy	113 Mar 28 j 06:28		-4.8m	evening 1150	115 Aug 22 j 22.37 115 Sep 10 j 04:35	0° ʊ	
greatest brilliancy		29° ≈ 54°12 0° ∺	- 			0° M	
desc. node	113 Mar 28 j 13:29 113 Apr 19 j 03:13	0° X 12° X 44'59		desc. node	115 Oct 04 j 06:54 115 Oct 04 j 22:39	0°ML48'59	
uese. Houe	113 Apr 13 J 03.13	14 八44 39		uese. Houe	113 Oct 04 J 22.39	0 1164839	

	115.0 + 20:10.21	00.7		1	110 1 1 12:20 42	200 T 11120	
	115 Oct 28 j 10:21	0° ∡		asc. node	118 Jul 12 j 20:42	28° Ⅱ 11'39	
	115 Nov 21 j 16:21	0° ට			118 Jul 14 j 08:11	0°©	
	115 Dec 16 j 04:09	0° ≈			118 Aug 07 j 17:37	0° Ω	
	116 Jan 10 j 04:58	0°) €		morning set	118 Aug 18 j 13:06	13° Ω 24'33	
asc. node	116 Jan 26 j 01:29	18° ¥ 22′24			118 Aug 31 j 20:39	O° m þ	
	116 Feb 05 j 10:36	0 ° $\mathbf{\gamma}$		max. Earth dist.	118 Sep 22 j 19:01	27° m 27'37	1.71536 AU
evening max el	116 Feb 26 j 06:03	21° Ƴ 49'29	45°57'29		118 Sep 24 j 19:36	0∘ ⊽	
	116 Mar 05 j 20:33	9° 8					
greatest brilliancy	116 Apr 04 j 16:02	20° 8 38'12	-4.7m	superior conj	118 Sep 25 j 05:15	0° ჲ 30'18	1°13'20
retrograde	116 Apr 15 j 11:53	22° 8 46'56		minimum elong	118 Sep 25 j 14:13	0° £ 58'24	1°13'07
evening set	116 Apr 30 j 23:01	18° 8 09'36			118 Oct 18 j 16:48	0° M .	
inferior conj	116 May 06 j 23:15	14° 8 31'45	2°14'09	desc. node	118 Nov 01 j 10:38	17° M L16'01	
minimum elong	116 May 07 j 03:59	14° 8 24'17	2°12'49	evening rise	118 Nov 04 j 11:45	21°ML05'40	
min. Earth dist.	116 May 07 j 04:47	14° 8 23'01	0.28986 AU	<i>5</i>	118 Nov 11 j 13:58	0° ∡ ¹	
morning rise	116 May 13 j 08:52	10° 8 39'58	0.20,00110		118 Dec 05 j 12:15	0° ਰ	
desc. node	116 May 16 j 15:15	9° 8 00'31			118 Dec 29 j 12:59	0° ≈	
direct	116 May 28 j 13:36	6° 8 12'29			119 Jan 22 j 18:37	0° ∺	
			4.7		·	0° Υ	
greatest brilliancy	116 Jun 08 j 00:31	8° 8 09'26	-4./m	1	119 Feb 16 j 09:17		
	116 Jul 09 j 23:23	0°II	45050140	asc. node	119 Feb 22 j 13:27	7° Y 25′09	
morning max el	116 Jul 16 j 10:00	6° Ⅱ 00'03	45°50'48		119 Mar 13 j 15:27	0°8	
	116 Aug 08 j 18:46	0ංම			119 Apr 09 j 00:58	$\Pi^{\circ}0$	
	116 Sep 04 j 08:59	$0^{\circ}\Omega$			119 May 07 j 22:51	0ංම	
asc. node	116 Sep 06 j 18:25	2° Ω 47'41		evening max el	119 May 07 j 22:49	29° Ⅱ 59'55	45°18'10
	116 Sep 29 j 13:41	O° m y		desc. node	119 Jun 14 j 03:11	27° © 11'53	
	116 Oct 24 j 00:31	0∘ ত		greatest brilliancy	119 Jun 14 j 21:12	27° © 28'29	-4.7m
	116 Nov 17 j 02:29	0°M		retrograde	119 Jun 25 j 09:37	29° 5 26'25	
	116 Dec 11 j 01:09	0° ∡ ¹		evening set	119 Jul 11 j 12:39	24° © 31'01	
desc. node	116 Dec 27 j 08:10	20° х 25′34		inferior conj	119 Jul 16 j 18:14	21°522'20	-6°43'30
	117 Jan 03 j 23:37	0°⋜		minimum elong	119 Jul 16 j 08:20	21°937'40	6°41'39
morning set	117 Jan 17 j 17:19	って 17° 云 11'12		min. Earth dist.	119 Jul 16 j 22:18	21°516'02	0.28701 AU
morning set	117 Jan 27 j 23:27	0°≈		morning rise	119 Jul 21 j 03:48	18°941'59	0.20701710
	117 Feb 21 j 01:29	0° \		direct	119 Aug 07 j 08:39	13°909'01	
	11/160 21 101.29	0 /					4 0
	117 5 1 27 : 02 21	70)(22)20	1004120	greatest brilliancy	119 Aug 18 j 03:00	15° © 15'43	-4.8m
superior conj	117 Feb 27 j 03:31	7°) €33'30			119 Sep 10 j 05:17	0° Ω	4.600.010.0
minimum elong	117 Feb 27 j 06:34	7°) 42′58		morning max el	119 Sep 26 j 07:24	14° £ 52'54	46°28'29
max. Earth dist.	117 Mar 02 j 19:31	12° ∺ 06′27	1.72507 AU	asc. node	119 Oct 05 j 06:15	24° Ω 04'47	
	117 Mar 17 j 06:21	$0^{\circ}\mathbf{\Upsilon}$			119 Oct 10 j 18:57	O° m þ	
evening rise	117 Apr 06 j 17:28	25° Ƴ 13'54			119 Nov 06 j 04:42	0∘ ত	
	117 Apr 10 j 14:33	9° 8			119 Dec 01 j 05:36	0° M	
asc. node	117 Apr 19 j 11:19	10° 8 52'56			119 Dec 25 j 17:33	0° ∡ 7	
	117 May 05 j 02:14	$\Pi^{\circ}0$			120 Jan 19 j 01:03	0°₹	
	117 May 29 j 17:33	0°ಅ		desc. node	120 Jan 24 j 19:56	7° る 09'05	
	117 Jun 23 j 13:27	$0^{\circ}\Omega$			120 Feb 12 j 07:45	0° ≈	
	117 Jul 18 j 16:18	0° m			120 Mar 07 j 15:06	0° \	
desc. node	117 Aug 09 j 00:45	25° m/04'35			120 Mar 31 j 23:39	$0^{\circ}\Upsilon$	
dese. Hode	117 Aug 13 j 06:41	ე∘ 亞		morning set	120 Apr 01 j 04:06	0° Υ 13'40	
	117 Aug 13 j 00:41 117 Sep 08 j 18:32	0° M		morning set		0° 8	
			47011114		120 Apr 25 j 09:23	0.0	
evening max el	117 Oct 02 j 16:16	25°M17'05	47°11'14		120 M 00 : 04.52	150 42157	0020124
	117 Oct 07 j 11:24	0° √	4.0	superior conj	120 May 08 j 04:53	15° 8 43'56	
greatest brilliancy	117 Nov 12 j 08:03	26° ₹ '23'26	-4.9m	minimum elong	120 May 08 j 09:03	15° 8 56'42	
retrograde	117 Nov 22 j 08:19	28° ≯ 18'39		max. Earth dist.	120 May 08 j 08:59	15° 8 56'31	1.73621 AU
asc. node	117 Nov 30 j 03:54	27° ≯ 02'13		asc. node	120 May 16 j 23:11	26° 8 29'33	
evening set	117 Dec 06 j 18:50	24° ₰ 07'21			120 May 19 j 19:44	Π $^{\circ}0$	
min. Earth dist.	117 Dec 12 j 05:56	20° ₹ 55'32	0.26510 AU	evening rise	120 Jun 13 j 08:09	0° © 06'45	
inferior conj	117 Dec 12 j 21:53	20° ∡ ³31′06	3°13'51		120 Jun 13 j 05:57	0 \circ \odot	
minimum elong	117 Dec 12 j 15:00	20° ∡ ¹41'39	3°11'46		120 Jul 07 j 15:48	$0^{\circ}\Omega$	
morning rise	117 Dec 18 j 11:36	17° ∡ 14'00			120 Aug 01 j 01:59	0° m	
direct	118 Jan 02 j 05:08	12° ≯ 53'38			120 Aug 25 j 14:00	0∘ <u>⊽</u>	
greatest brilliancy	118 Jan 11 j 16:18	14° ∡ ³36′09	-4.9m	desc. node	120 Sep 05 j 12:47	13° ≏ 21'04	
J. J	118 Feb 04 j 23:24	0°る			120 Sep 19 j 05:38	0° M	
morning max el	118 Feb 04 j 23.24 118 Feb 21 j 04:26	0 3 14° る 57'28	46°30'41		120 Sep 19 j 03.38 120 Oct 14 j 03:33	0° ⊼ 7	
morning max ci			-ru 5041				
daga m - 4 -	118 Mar 07 j 19:40	0°≈ 15°2206'02			120 Nov 08 j 14:01	5°0	
desc. node	118 Mar 21 j 17:40	15°≈06'02			120 Dec 05 j 07:58	0° ≈	47011100
	118 Apr 04 j 00:53	0° ∀		evening max el	120 Dec 13 j 18:16	8°≈49'57	47°11'08
	118 Apr 30 j 02:01	0° Υ		asc. node	120 Dec 27 j 15:42	22°≈14'47	
	118 May 25 j 13:15	0°8			121 Jan 05 j 21:06	0° ∀	
	118 Jun 19 j 14:56	$\Pi^{\circ}0$		greatest brilliancy	121 Jan 23 j 00:16	10°) 17'42	-4.9m

retrograde	121 Feb 02 j 14:29	12° ∺ 24'59			123 Jun 29 j 02:21	0°9	
evening set	121 Feb 20 j 12:37	6° ₩ 09'48		max. Earth dist.	123 Jul 11 j 20:44	15° © 44'38	1.73116 AU
min. Earth dist.	121 Feb 23 j 03:28	4°) €31'05	0.28239 AU	max. Dartii dist.	125 Jul 11 J 20.44	13 34430	1.75110710
inferior conj	121 Feb 23 j 16:40	4° ₩ 10'09	8°36'17	superior conj	123 Jul 15 j 08:39	20°903'57	1°04'31
minimum elong	121 Feb 23 j 18:29	4° ₩ 07'14	8°36'14	minimum elong	123 Jul 15 j 00:01	19° © 37'13	1°04'14
morning rise	121 Feb 27 j 00:37	2° ₩ 05'09	0 30 1 1	minimum ciong	123 Jul 23 j 09:20	0°Ω	1 0111
morning rise	121 Mar 02 j 16:04	30°R≈			123 Aug 16 j 13:19	0° m/y	
direct	121 Mar 16 j 17:51	26°≈05'23		evening rise	123 Aug 20 j 14:55	5° mp 03'28	
greatest brilliancy	121 Mar 25 j 20:26	27° ≈ 37'40	-4.8m		123 Sep 09 j 15:51	0ಂ ರ ೧.ರ್	
8	121 Mar 31 j 15:31	0° ∀			123 Oct 03 j 18:26	0°M	
desc. node	121 Apr 18 j 05:27	11°) 40′20		desc. node	123 Oct 04 j 00:47	0°M19'45	
morning max el	121 May 04 j 16:44	26° ∺ 18'48	45°51'28		123 Oct 27 j 22:13	0° ∡ ¹	
S	121 May 08 j 11:54	0° Υ			123 Nov 21 j 04:39	0°ರ	
	121 Jun 06 j 02:55	0°B			123 Dec 15 j 17:06	0° ≈	
	121 Jul 02 j 16:53	0°II			124 Jan 09 j 19:05	0°) €	
	121 Jul 28 j 05:59	0°ಅ		asc. node	124 Jan 25 j 03:37	17°) 44'40	
asc. node	121 Aug 09 j 08:36	14° © 32'07			124 Feb 05 j 03:26	0 ° $\mathbf{\Upsilon}$	
	121 Aug 22 j 02:10	$0^{\circ}\Omega$		evening max el	124 Feb 23 j 21:20	19° Ƴ 35'27	46°00'06
	121 Sep 15 j 10:11	0° m/		C	124 Mar 05 j 23:03	0° ႘	
	121 Oct 09 j 10:26	0∘ ত		greatest brilliancy	124 Apr 02 j 08:17	18° 8 29'16	-4.7m
greatest brilliancy	121 Oct 19 j 06:26	12° ♀ 21'04	-3.9m	retrograde	124 Apr 13 j 05:08	20° 8 39'06	
morning set	121 Oct 29 j 23:16	25° ₽ 49'09		evening set	124 Apr 28 j 17:28	15° 8 58'47	
C	121 Nov 02 j 06:56	0° M .		inferior conj	124 May 04 j 15:57	12° 8 23'20	2°32'56
	121 Nov 26 j 02:31	0° ∡ ¹		minimum elong	124 May 04 j 21:18	12° 8 14'56	2°31'26
desc. node	121 Nov 28 j 22:23	3° ∡ ³33'39		min. Earth dist.	124 May 04 j 21:19	12° 8 14'54	0.28985 AU
	·			morning rise	124 May 11 j 01:06	8° 8 32'29	
superior conj	121 Dec 10 j 08:28	17° ∡ 56′00	-0°26'44	desc. node	124 May 15 j 17:14	6° 8 16'07	
minimum elong	121 Dec 10 j 01:29	17° ∡ ³34'01	0°26'24	direct	124 May 26 j 06:11	4° 8 03'59	
max. Earth dist.	121 Dec 12 j 20:11	21° ₹ '03'45	1.71101 AU	greatest brilliancy	124 Jun 05 j 16:35	6° ႘ 00'57	-4.7m
	121 Dec 19 j 22:51	8°0			124 Jul 10 j 00:07	$\Pi^{\circ}0$	
	122 Jan 12 j 20:56	0° ≈		morning max el	124 Jul 14 j 03:02	3° Ⅱ 52'34	45°49'57
evening rise	122 Jan 20 j 21:39	10° ≈ 02'19			124 Aug 08 j 11:06	0°€	
	122 Feb 05 j 22:00	0° ∀			124 Sep 03 j 22:43	$0^{\circ}\Omega$	
	122 Mar 02 j 03:45	0° Y		asc. node	124 Sep 05 j 20:35	2° Ω 14'12	
asc. node	122 Mar 22 j 01:30	24° Ƴ 23'17			124 Sep 29 j 02:15	O° Mp	
	122 Mar 26 j 16:10	0° ႘			124 Oct 23 j 12:31	0∘ 亚	
	122 Apr 20 j 13:31	$\Pi^{\circ}0$			124 Nov 16 j 14:08	0° M.	
	122 May 15 j 23:19	0 \circ \odot			124 Dec 10 j 12:35	0° ∡ 7	
	122 Jun 11 j 05:13	$0^{\circ}\Omega$		desc. node	124 Dec 26 j 10:07	19° ∡ 56′07	
	122 Jul 09 j 04:07	0° m y			125 Jan 03 j 10:54	0°ರ	
desc. node	122 Jul 11 j 14:57	2° Mp 28'36		morning set	125 Jan 15 j 03:25	14° る 37'41	
evening max el	122 Jul 18 j 18:23	9° ™ 29'45	45°56'07		125 Jan 27 j 10:36	0° ≈	
	122 Aug 12 j 00:27	0∘ 亚			125 Feb 20 j 12:30	0° ℋ	
greatest brilliancy	122 Aug 28 j 00:29	8° £ 22'17	-4.8m				
retrograde	122 Sep 05 j 23:03	9° ≙ 50'36		superior conj	125 Feb 24 j 17:01	5° 升 12'18	-1°24'59
evening set	122 Sep 23 j 01:07	4° £ 22'45		minimum elong	125 Feb 24 j 19:12	5° ₩ 19'04	1°24'59
inferior conj	122 Sep 26 j 19:35	2° ≏ 07'34	-7°37'22	max. Earth dist.	125 Feb 28 j 09:32		1.72449 AU
minimum elong	122 Sep 27 j 05:05	1° ≙ 53'04	7°35'50		125 Mar 16 j 17:17	0 ° $\mathbf{\Upsilon}$	
min. Earth dist.	122 Sep 27 j 16:18	1° ≏ 35'59	0.27207 AU	evening rise	125 Apr 04 j 09:40	23° Y 02'38	
	122 Sep 30 j 08:14	30°R, Mp			125 Apr 10 j 01:27	9° 8	
morning rise	122 Oct 01 j 08:38	29° m 24'38		asc. node	125 Apr 18 j 13:25	10° 8 25'52	
direct	122 Oct 17 j 14:23	24° Mp 16'46			125 May 04 j 13:14	Π $\circ 0$	
greatest brilliancy	122 Oct 28 j 17:05	26° Mp 35'30	-4.9m		125 May 29 j 04:52	0°€	
asc. node	122 Nov 01 j 18:05	28° Mg 26'02			125 Jun 23 j 01:21	$0^{\circ}\Omega$	
	122 Nov 04 j 14:36	0∘ ಹ			125 Jul 18 j 05:07	0° m ∕	
morning max el	122 Dec 07 j 09:15	27° ≏ 47'18	46°56'24	desc. node	125 Aug 08 j 02:51	24° m 29'52	
	122 Dec 09 j 12:50	0° M -			125 Aug 12 j 21:06	0∘ ⊽	
	123 Jan 05 j 20:39	0° ∡ ′			125 Sep 08 j 12:03	0°M	
	123 Jan 31 j 13:53	0° ਰ		evening max el	125 Sep 30 j 07:00	22°M55'28	47°09'29
desc. node	123 Feb 21 j 07:55	24° る 44'24			125 Oct 07 j 13:45	0° ∡ ″	
	123 Feb 25 j 17:09	0° ≈		greatest brilliancy	125 Nov 09 j 20:59	23° ₹ 53'56	-4.9m
	123 Mar 22 j 14:32	0° ∺		retrograde	125 Nov 19 j 21:30	25° ∡ ¹48'46	
	123 Apr 16 j 09:04	0° Υ		asc. node	125 Nov 29 j 05:50	23° ₹ 59'51	
	123 May 11 j 01:35	0°B		evening set	125 Dec 04 j 06:12	21° х 39′33	
	123 Jun 04 j 15:39	0°II		inferior conj	125 Dec 10 j 10:11	18° ₹ 02'01	
morning set	123 Jun 09 j 02:07	5° Ⅱ 25'50		minimum elong	125 Dec 10 j 04:01	18° ∡ 11′28	2°49'04
asc. node	123 Jun 14 j 10:57	12° Ⅱ 00′39		min. Earth dist.	125 Dec 09 j 19:06	18° ≯ 25′06	0.26475 AU

momingied (2.5 Dec 16) (1-19) (14) (1700) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18)		125 D 16 : 02-10	1.49.7.42102			120 I1 21 : 12.00	00 m ,	
growning manning manni	•					-		
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describing 12 May 20 j 1457 1 Veral 20 j 1457 covering max of a 12 Riber 1 j 90 kg 1 (20 kg) 20 j 1457 2 (20 kg) 21 j 1557 0 PV case mode 12 Riber 1 j 90 kg 1 kg	morning max el	126 Feb 18 j 18:25	12° る 35'54	46°32'06		128 Oct 13 j 17:02		
126		126 Mar 07 j 14:16	0° ≈				0°₹	
126 126 126 126 127 127 127 127 128	desc. node	126 Mar 20 j 19:47	14° ≈ 26'57			128 Dec 05 j 03:40	0° ≈	
ase nede 126 Am 19 (2014) O'B createst brilliane 129 Am 10 (6) 4-28 6% PM 100 4% PM		126 Apr 03 j 15:37	0° ∀		evening max el	128 Dec 11 j 08:16	6° ≈ 26'59	47°12'41
126 mm		126 Apr 29 j 14:56	$0^{\circ}\mathbf{\Upsilon}$		asc. node	128 Dec 26 j 17:51	21°≈13'22	
1.0 1.0			0°B				0° ₩	
100. 100.					greatest brilliancy	129 Jan 20 i 16:45		-4.9m
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morning set 12 A kug 1910-28 0°A inferior corj 129 Feb 21 197-32 1°H5732 8°78Kg 8°78 197 morning set 126 A kug 13 19731 0°B minimum elong 129 Feb 20 18 80 2°H1519 0.28184 AU superior conj 126 Sep 23 10-34 2°Ph0842 1°1594 dreet 129 Feb 20 18 80 2°H1519 0.28184 AU superior conj 126 Sep 23 10-32 2°Ph0942 1°1594 dreet 129 Feb 20 18 80 2°H1519 0.28184 AU minimum conj 126 Sep 23 10-32 2°Ph0942 1°1594 dreet 129 Feb 20 10-35 2°Ph2932 4.88 desc. mode 126 Cet 18 10-32 0°Ph desc. mode 129 Apr 00 10-38 0°Pk 4.88 0°Pk 2.99 May 00 60-38 2°Ph0474 4°S*224 evening rise 126 New 11-10107 0°Pk ac. node 129 Jul 27 17-53 0°Pk 4.99 May 00 60-58 2°Pk 4°S*24 4°S*24 <td< td=""><td>ase. Houe</td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td></td<>	ase. Houe				•			
moming set L26 Aug 1 j j 07-31 1 l 2 l 2 l 2 l 3 j 1 y 2 l 3 l 2 l 2 l 3 l 3 j 1 y 3 l 2 l 2 l 3 l 3 j 1 y 3 l 2 l 3 l 3 l 3 l 3 l 3 l 3 l 3 l 3 l					-	-		0020110
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supprior of minimum oloog 126 Sep 23 j 1916 28° monum oloog 1918 Sep 23 j 0342 28° monum oloog 192 More 23 j 1035 28° sep 23 j 0342 48° monum oloog desc. node 126 Oct 13 j 1239 16° ML 727 desc. node 129 More 02 j 0635 0° H desc. node 129 More 02 j 0635 0° H 48° 5224 evening rise 126 Nov 11 j 0107 0° F 129 Jun 05 j 1804 0° H 0° H 129 Jun 05 j 1804 0° H 0° H 0° H 129 Jun 05 j 1804 0° H <					min. Earth dist.	·		0.28184 AU
support coopy 126 Sept 2 j j 0.44 28°mg074 j 1°54 y 1°54	max. Earth dist.	126 Sep 20 j 03:15	24° Mp 48'42	1.71585 AU		•		
minimum elong 12 Sep 23 j 30 34 2 28° 83 55 l °14° 52 egreatest brilliancy 129 Apr 17 j 07:28 25° 821° 39 4.8m 46 cs. node 126 Cot 13 j 13:50 0°fft desc. node 129 Apr 17 j 07:28 10° 13' 14' 45° 52' 45° 52' 45° 52' 45° 52' 45° 52' 129 Apr 17 j 07:28 10° 13' 14' 45° 52' 4					morning rise	129 Feb 24 j 14:04	29° ≈ 51′00	
Company 10 10 10 10 10 10 10 1	superior conj	126 Sep 22 j 19:16	28° Mp 09'24	1°15'04	direct	129 Mar 14 j 07:51	23° ≈ 49'32	
Control 1,000 1	minimum elong	126 Sep 23 j 03:42	28° m 35'51	1°14'52	greatest brilliancy	129 Mar 23 j 10:35	25° ≈ 21'39	-4.8m
desc. node IGO ct 31 j.12-39 IGE HA7727 moming max el 129 May 02 j 06-38 24*H0247 45*S224 evening rise 126 Nov 01 j 22-06 18*R13-22*8 129 Mu 05 j 18-34 0°C* 129 Jun 05 j 18-04 0°C* 129 Jun 27 j 17-53 0°G* 129 Jun 27 j 17-53 129 Jun 27 j		126 Sep 24 j 06:32	0∘ ত			129 Apr 02 j 10:58	0° ∀	
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126 Nov 11 j 01:07					morning max cr			13 3221
Part	evening rise							
12 12 12 13 13 14 14 13 14 14 14						·		
127 Jan 22 j 06.21 0°H 127 Feb 15 j 21.31 0°P 129 Aug 08 j 10.45 14°E90341								
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127 Mar 13 j 04.44 0°B 127 Apr 08 j 14.32 127 Apr 08 j 14.32 27°Hay26 45°18′18 moming set 129 Oct 18 j 23.49 12°Δ41′26 3.9m 127 May 05 j 14.32 27°Hay26 45°18′18 moming set 129 Oct 18 j 23.49 12°Δ41′26 3.9m 127 May 07 j 21.38 0°B moming set 129 Nov 0 j j 17.50 0°M 127 Jun 13 j 105.11 25°533255 desc. node 129 Nov 25 j 18.27 0°Z 127 Jun 13 j 105.11 25°533255 desc. node 129 Nov 25 j 18.27 0°Z 127 Jun 13 j 105.11 25°533255 desc. node 129 Dec 07 j 11.49 15°Z 01′13 0°22′36 127 Jun 14 j 10.04 19°531155 6°30′14 minimum clong 129 Dec 07 j 11.49 15°Z 01′13 0°22′36 127 Jun 14 j 10.05 19°52724 6°28 17 max. Earth dist. 129 Dec 09 j 10.26 18°Z 01′13 0°22′36 127 Jun 14 j 13.54 19°50559 0.28725 AU minimum clong 129 Dec 09 j 10.49 0°Z 127 Jun 14 j 13.54 19°50559 0.28725 AU minimum clong 129 Dec 09 j 10.49 0°Z 127 Jun 14 j 13.54 19°50559 0.28725 AU minimum clong 129 Dec 09 j 10.49 0°Z 127 Jun 14 j 13.54 19°50559 0.28725 AU minimum clong 129 Dec 09 j 10.49 0°Z 127 Jun 14 j 13.54 19°50559 0.28725 AU minimum clong 129 Dec 09 j 10.49 0°Z 127 Jun 14 j 13.54 19°50559 0.28725 AU minimum clong 129 Dec 09 j 10.49 0°Z 127 Aug 15 j 18.37 13°20359 4.8m 130 Jun 13 j 10 Jun 1								
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greatest brilliancy 127 Jun 12 j 12:22 25° 25° 18' 17 4.7m desc. node 129 Nov 25 j 13:27 0° ₹ desc. node 127 Jun 13 j 05:11 25° 253255 desc. node 129 Nov 28 j 00:24 3° ₹00:36 retrograde 127 Jun 13 j 05:11 25° 253255 superior conj 129 Nov 28 j 00:24 3° ₹00:36 retrograde 127 Jun 14 j 10:04 19° 250:155 6° 30'14 minimum elong 129 Dec 07 j 17:52 15° ₹20'16 -0° 22'52 inferior conj 127 Jun 14 j 10:04 19° 250'272 6° 28' 11 minimum elong 129 Dec 07 j 11:49 15° ₹0'113 0° 22'36 minimum elong 127 Jun 14 j 13:54 19° 250'559 0.28725 AU minimum elong 129 Dec 07 j 11:49 15° ₹0'113 0° 22'36 morning rise 127 Jun 14 j 13:54 19° 250'559 0.28725 AU minimum elong 129 Dec 07 j 11:49 15° ₹0'113 0° 22'36 morning rise 127 Jun 14 j 13:54 19° 250'559 0.28725 AU minimum elong 129 Dec 07 j 11:49 15° ₹0'113 0° 22'36 morning rise 127 Jun 14 j 13:54 19° 250'559 0.28725 AU minimum elong 130 Jun 12 j 07:53 0° ₹ morning rise 127 Jun 18 j 22:26 16° 25' 270' 4.8m 130 Jun 13	evening max el	127 May 05 j 14:32	27° Ⅱ 49'26	45°18'18	morning set	129 Oct 27 j 11:13	23° ≏ 21'21	
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asc. node		127 Sep 10 j 11:30	$0 {\circ} \Omega$			130 Mar 01 j 14:50	0 ° $\mathbf{\Upsilon}$	
127 Oct 10 j 12:36 0° m	morning max el	127 Sep 23 j 21:12	12° Ω 33'24	46°26'49	asc. node	130 Mar 21 j 03:34	23° Y 55′15	
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superior conj 128 May 05 j 22:46 13° 838'48 -0°23'39 minimum elong 130 Sep 24 j 17:54 29° № 31'33 7°46'58 minimum elong 128 May 06 j 03:31 13° 853'22 0°23'25 min. Earth dist. 130 Sep 25 j 05:34 29° № 13'48 0.27273 AU max. Earth dist. 128 May 06 j 05:44 14° 800'09 1.73603 AU morning rise 130 Sep 28 j 18:16 27° № 07'50 asc. node 128 May 16 j 01:12 26° 803'00 direct 130 Oct 15 j 04:22 21° № 53'23 128 May 19 j 06:23 0° № greatest brilliancy 130 Oct 26 j 07:36 24° № 12'56 -4.9m evening rise 128 Jun 11 j 03:23 28° № 50'30 asc. node 130 Nov 06 j 00:11 0° №		128 Apr 24 j 20:05	9° 8			130 Sep 23 j 23:11	30°R Mp	
superior conj 128 May 05 j 22:46 13° 838'48 -0°23'39 minimum elong 130 Sep 24 j 17:54 29° № 31'33 7°46'58 minimum elong 128 May 06 j 03:31 13° 853'22 0°23'25 min. Earth dist. 130 Sep 25 j 05:34 29° № 13'48 0.27273 AU max. Earth dist. 128 May 06 j 05:44 14° 800'09 1.73603 AU morning rise 130 Sep 28 j 18:16 27° № 07'50 asc. node 128 May 16 j 01:12 26° 803'00 direct 130 Oct 15 j 04:22 21° № 53'23 128 May 19 j 06:23 0° № greatest brilliancy 130 Oct 26 j 07:36 24° № 12'56 -4.9m evening rise 128 Jun 11 j 03:23 28° № 50'30 asc. node 130 Nov 06 j 00:11 0° №					inferior conj	130 Sep 24 j 08:49	29° m 45'21	-7°48'20
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max. Earth dist. 128 May 06 j 05:44 14°800'09 1.73603 AU morning rise 130 Sep 28 j 18:16 27° № 07'50 asc. node 128 May 16 j 01:12 26°803'00 direct 130 Oct 15 j 04:22 21° № 53'23 evening rise 128 May 19 j 06:23 0° № greatest brilliancy 130 Oct 26 j 07:36 24° № 12'56 -4.9m asc. node 130 Oct 31 j 20:00 26° № 50'32 128 Jun 12 j 16:39 0° © 130 Nov 06 j 00:11 0° №		• •	13° 8 53'22	0°23'25	min. Earth dist.		29° m 13'48	0.27273 AU
asc. node 128 May 16 j 01:12 26°803'00 direct 130 Oct 15 j 04:22 21° mp 53'23 128 May 19 j 06:23 0° II greatest brilliancy 130 Oct 26 j 07:36 24° mp 12'56 -4.9m evening rise 128 Jun 11 j 03:23 28° II 05'30 asc. node 130 Oct 31 j 20:00 26° mp 50'32 128 Jun 12 j 16:39 0° □ 130 Nov 06 j 00:11 0° □	•						=	
evening rise 128 May 19 j 06:23 0° II greatest brilliancy 130 Oct 26 j 07:36 24° III 12'56 -4.9m asc. node 130 Oct 31 j 20:00 26° III 50'32 128 Jun 12 j 16:39 0° II 130 Nov 06 j 00:11 0° □					=			
evening rise 128 Jun 11 j 03:23 28° II 05'30 asc. node 130 Oct 31 j 20:00 26° II j 50'32 128 Jun 12 j 16:39 0° □ 130 Nov 06 j 00:11 0° □							=	-4 9m
128 Jun 12 j 16:39 0°€ 130 Nov 06 j 00:11 0°€	evening rise					-	=	
	evening 1150				use. Houe		=	
128 Jul 0/ J 02:59 0 86 morning max et 130 Dec 04 J 25:52 25° \(\frac{14}{25}\)25'03 46° 56'14					manus 1	-		16056114
		120 Jul - 0 / J 02:39	0.96		morning max ei	130 Dec 04 J 23:32	∠3° ≥≤ 23°03	40 30 14

	130 Dec 09 j 10:02	0° M .			133 Aug 12 j 11:33	0∘ ⊽	
	130 Dec 09 j 10.02 131 Jan 05 j 12:30	0° ⊼			133 Aug 12 j 11.33 133 Sep 08 j 05:49	0° m	
	131 Jan 31 j 03:35	0°る		evening max el	133 Sep 08 j 03.49 133 Sep 27 j 21:44	20°M34'13	47°07'35
desc. node	131 Feb 20 j 09:59	24° る 12'32		evening max er	133 Oct 07 j 17:29	0° x ⁷	47 0733
dese. Hode	131 Feb 25 j 05:40	0°≈		greatest brilliancy	133 Nov 07 j 10:27	21° ₹ '25'36	-4.9m
	131 Mar 22 j 02:19	0° ∺		retrograde	133 Nov 17 j 10:27	23°×19'11	-4 .7III
	131 Apr 15 j 20:20	0° Υ		asc. node	133 Nov 28 j 08:00	20° 🖈 52'28	
	131 May 10 j 12:30	0°8		evening set	133 Dec 01 j 17:53	19° ⊀ 12'03	
	131 Jun 04 j 02:21	0°II		inferior conj	133 Dec 07 j 22:30	15° ₹ 33'31	2°27'43
morning set	131 Jun 06 j 20:23	3° Ⅱ 22'07		minimum elong	133 Dec 07 j 17:06	15° √ 41'48	2°26'02
asc. node	131 Jun 13 j 13:04	11° Ⅱ 34'29		min. Earth dist.	133 Dec 07 j 08:34	15° ₹ '54'51	0.26441 AU
	131 Jun 28 j 12:57	0ංම 		morning rise	133 Dec 13 j 16:50	12° ≯ 10'40	
max. Earth dist.	131 Jul 09 j 18:41	13°951'24	1.73158 AU	direct	133 Dec 28 j 06:34	7° ₹ '57'36	
	,			greatest brilliancy	134 Jan 06 j 18:30	9° √ 41'13	-4.9m
superior conj	131 Jul 13 j 02:49	17° © 58'54	1°02'25	,	134 Feb 05 j 13:59	0°ರ	
minimum elong	131 Jul 12 j 18:06	17° © 31'59	1°02'08	morning max el	134 Feb 16 j 07:20	10°る12'03	46°33'30
Č	131 Jul 22 j 19:58	$0^{\circ}\Omega$		C	134 Mar 07 j 08:15	0° ≈	
	131 Aug 16 j 00:06	0° m)		desc. node	134 Mar 19 j 21:49	13° ≈ 48′24	
evening rise	131 Aug 18 j 07:30	2° m 52'16			134 Apr 03 j 06:03	0° ∀	
-	131 Sep 09 j 02:49	0∘ ⊽			134 Apr 29 j 03:43	0 ° Υ	
desc. node	131 Oct 03 j 02:47	29° ₽ 51'05			134 May 24 j 13:01	0°B	
	131 Oct 03 j 05:39	0° M .			134 Jun 18 j 13:35	$\Pi^{\circ}0$	
	131 Oct 27 j 09:44	0° ∡ ¹		asc. node	134 Jul 11 j 00:59	27° Ⅲ 17′20	
	131 Nov 20 j 16:37	8°0			134 Jul 13 j 06:13	0°€	
	131 Dec 15 j 05:46	0° ≈			134 Aug 06 j 15:22	$0^{\circ}\Omega$	
	132 Jan 09 j 09:04	0° ∀		morning set	134 Aug 13 j 21:44	9° Ω 00′25	
asc. node	132 Jan 24 j 05:43	17° ₩ 07'12			134 Aug 30 j 18:22	o° mp	
	132 Feb 04 j 20:25	0° Υ		max. Earth dist.	134 Sep 17 j 11:58	22° mp 11'26	1.71634 AU
evening max el	132 Feb 21 j 13:23	17° Ƴ 23'32	46°02'32				
	132 Mar 06 j 03:08	0°B		superior conj	134 Sep 20 j 09:20	25° m 48'50	1°16'39
greatest brilliancy	132 Mar 31 j 00:32	16° 8 20'08	-4.7m	minimum elong	134 Sep 20 j 17:11	26° Mp 13'27	1°16'29
retrograde	132 Apr 10 j 22:21	18° 8 30'36		-	134 Sep 23 j 17:26	0∘ ত	
evening set	132 Apr 26 j 11:51	13° 8 47'26			134 Oct 17 j 14:52	0°M	
inferior conj	132 May 02 j 08:24	10° 8 14'23	2°51'37	evening rise	134 Oct 30 j 08:35	15° ™ 59'44	
minimum elong	132 May 02 j 14:20	10° 8 05'04	2°49'58	desc. node	134 Oct 30 j 14:40	16° ™ 18'50	
min. Earth dist.	132 May 02 j 13:21	10° 8 06'36	0.28981 AU		134 Nov 10 j 12:18	0° ∡ ¹	
morning rise	132 May 08 j 16:54	6° 8 24'43			134 Dec 04 j 10:52	8°0	
desc. node	132 May 14 j 19:14	3° 8 35'10			134 Dec 28 j 11:56	0° ≈	
direct	132 May 23 j 22:52	1° 8 55'14			135 Jan 21 j 18:05	0°) €	
greatest brilliancy	132 Jun 03 j 07:45	3° 8 51'24	-4.7m		135 Feb 15 j 09:48	$0^{\circ}\mathbf{\Upsilon}$	
	132 Jul 09 j 23:32	$\Pi^{\circ}0$		asc. node	135 Feb 20 j 17:38	6° Ƴ 23'12	
morning max el	132 Jul 11 j 19:52	1° Ⅱ 45'11	45°49'12		135 Mar 12 j 18:08	0°8	
	132 Aug 08 j 02:55	0°ಅ			135 Apr 08 j 08:35	$\Pi^{\circ}0$	
	132 Sep 03 j 12:04	$0^{\circ}\Omega$		evening max el	135 May 03 j 05:25	25° Ⅱ 36′29	45°18'19
asc. node	132 Sep 04 j 22:35	1° Ω 41'12			135 May 07 j 21:39	0 \circ	
	132 Sep 28 j 14:31	0° m)		greatest brilliancy	135 Jun 10 j 03:29	23° 5 07'12	-4.7m
	132 Oct 23 j 00:13	0∘ 亚		desc. node	135 Jun 12 j 07:22	23° © 49'35	
	132 Nov 16 j 01:31	0° M .		retrograde	135 Jun 20 j 15:34	25° © 05'25	
	132 Dec 09 j 23:44	0° ∡ ¹		evening set	135 Jul 06 j 14:16	20° © 17'55	
desc. node	132 Dec 25 j 12:18	19° ∡ ¹28'20		inferior conj	135 Jul 12 j 01:48	17° © 00'41	-6°16'16
	133 Jan 02 j 21:54	0°ರ		minimum elong	135 Jul 11 j 15:47	17° © 16'14	6°14'15
morning set	133 Jan 12 j 13:54	12° る 06'07		min. Earth dist.	135 Jul 12 j 05:41	16° © 54'38	0.28750 AU
	133 Jan 26 j 21:29	0° ≈		morning rise	135 Jul 16 j 16:59	14°©11'31	
	133 Feb 19 j 23:19	0° ∀		direct	135 Aug 02 j 16:16	8° © 46'35	
				greatest brilliancy	135 Aug 13 j 10:47	10° © 52'09	-4.8m
superior conj	133 Feb 22 j 06:27	2° ∺ 51′21	-1°25'17		135 Sep 10 j 16:00	$0^{\circ}\Omega$	
minimum elong	133 Feb 22 j 07:44	2° 升 55′22	1°25'18	morning max el	135 Sep 21 j 10:45	10° Ω 12'46	46°25'20
max. Earth dist.	133 Feb 26 j 01:37		1.72400 AU	asc. node	135 Oct 03 j 10:23	22° Ω 35′51	
	133 Mar 16 j 04:03	0° Y			135 Oct 10 j 06:02	0° m	
evening rise	133 Apr 02 j 01:32	20° Ƴ 50'37			135 Nov 05 j 09:30	0∘ ⊽	
	133 Apr 09 j 12:15	0° 8			135 Nov 30 j 07:40	0° M	
asc. node	133 Apr 17 j 15:23	9° 8 58'37			135 Dec 24 j 18:08	0°⊀	
	133 May 04 j 00:11	Π°			136 Jan 18 j 00:39	ರ°0	
	133 May 28 j 16:09	0ංම		desc. node	136 Jan 23 j 00:08	6° ප 09'45	
	133 Jun 22 j 13:12	$0^{\circ}\Omega$			136 Feb 11 j 06:34	0° ≈	
	133 Jul 17 j 17:55	0° m			136 Mar 06 j 13:18	0°) €	
desc. node	133 Aug 07 j 04:57	23° m 55'21		morning set	136 Mar 27 j 12:23	25°) 50′36	
	= 3			-	· ·		

	136 Mar 30 j 21:25	0°Υ			138 Sep 17 j 10:49	30°R.Mp	
	136 Mar 30 j 21.23 136 Apr 24 j 06:54	0°8		evening set	138 Sep 17 j 10.49 138 Sep 18 j 08:50	29° Mg 28'27	
	130 Apr 24 J 00.34	0.0		-			7050121
	126 M 02 : 16.42	110 - 22124	0926140	inferior conj	138 Sep 21 j 21:50	27° mp 21'12	
superior conj	136 May 03 j 16:43	11° 8 33'24		minimum elong	138 Sep 22 j 06:23	27° m 08'11	7°57'14
minimum elong	136 May 03 j 22:02			min. Earth dist.	138 Sep 22 j 18:16	26° m 50'08	0.27342 AU
max. Earth dist.	136 May 04 j 01:35	12° 8 00'38	1.73588 AU	morning rise	138 Sep 26 j 03:37	24° m/49'03	
asc. node	136 May 15 j 03:20	25° 8 36'23		direct	138 Oct 12 j 18:38	19° Mp 28'11	4.0
	136 May 18 j 17:12	0°II		greatest brilliancy	138 Oct 23 j 21:25	21° mp 47'41	-4.9m
evening rise	136 Jun 08 j 22:34	26° Ⅱ 03'37		asc. node	138 Oct 30 j 22:10	25° m 16'56	
	136 Jun 12 j 03:34	0°©			138 Nov 07 j 01:06	0° ⊽	46056106
	136 Jul 06 j 13:47	0° N		morning max el	138 Dec 02 j 14:52	23° Ω 02'14	46°56'06
	136 Jul 31 j 00:38	0° m y			138 Dec 09 j 07:05	0°M	
	136 Aug 24 j 13:39	0° ⊽			139 Jan 05 j 04:33	0° ∡	
desc. node	136 Sep 03 j 16:52	12° ₽ 19'54			139 Jan 30 j 17:31	0°る	
	136 Sep 18 j 06:46	0° M 0°. ₹		desc. node	139 Feb 19 j 12:00	23° る 39'35	
	136 Oct 13 j 06:54	0° ∡ ¹			139 Feb 24 j 18:27	0° ≈	
	136 Nov 07 j 21:13	5°0			139 Mar 21 j 14:23	0°) €	
	136 Dec 05 j 00:15	0° ≈	4501.411.4		139 Apr 15 j 07:55	0° Υ	
evening max el	136 Dec 08 j 21:45	4°≈01'56	47°14'14		139 May 09 j 23:45	8°0	
asc. node	136 Dec 25 j 19:59	20°≈09'37			139 Jun 03 j 13:22	0°II	
	137 Jan 07 j 14:31	0° \	4.0	morning set	139 Jun 04 j 14:55	1° Ⅱ 18'12	
greatest brilliancy	137 Jan 18 j 08:51	5°) 42'45	-4.9m	asc. node	139 Jun 12 j 15:12	11° Ⅱ 07′20	
retrograde	137 Jan 28 j 20:35	7°) 48'55		F 4 F	139 Jun 27 j 23:52	0.2	1 52105 177
evening set	137 Feb 15 j 18:46	1° ¥ 35′02		max. Earth dist.	139 Jul 07 j 16:29	11° © 56'49	1.73197 AU
	137 Feb 18 j 07:29	30°R≈	0020127		120 1 1 10:21 14	150653143	1000115
inferior conj	137 Feb 18 j 22:58	29°≈35'28	8°39'27	superior conj	139 Jul 10 j 21:14	15°953'43	1°00'15
minimum elong	137 Feb 18 j 23:10	29°≈35'09	8°39'28	minimum elong	139 Jul 10 j 12:31	15° © 26'48	0°59'58
min. Earth dist.	137 Feb 18 j 08:27	29°≈58'28	0.28128 AU		139 Jul 22 j 06:55	0° N	
morning rise	137 Feb 22 j 03:46	27°≈35'19			139 Aug 15 j 11:12	0° m)	
direct	137 Mar 11 j 21:38	21°≈32'23 23°≈04'41	-4.8m	evening rise	139 Aug 16 j 00:21	0° ™ 40'54 0° ௨	
greatest brilliancy	137 Mar 21 j 00:43 137 Apr 03 j 17:12	23 ≈ 0441 0° ∺	-4.0111	desc. node	139 Sep 08 j 14:10 139 Oct 02 j 04:51	0 ≗ 21'23	
desc. node	137 Apr 05 j 17:12 137 Apr 16 j 09:28	9° ∺ 35'44		desc. node	139 Oct 02 j 04:31 139 Oct 02 j 17:17	0°M	
morning max el	137 Apr 10 j 05:28 137 Apr 29 j 21:03	21°) 47'14	45°53'29		139 Oct 02 j 17:17 139 Oct 26 j 21:45	0° ⊼ ⊓	
morning max ci	137 May 08 j 05:07	0° Υ	73 33 27		139 Nov 20 j 05:06	% ਰ ੇ	
	137 Jun 05 j 09:16	0°8			139 Dec 14 j 18:59	0°≈	
	137 Jul 01 j 19:00	0°II			140 Jan 08 j 23:37	0°) €	
	137 Jul 27 j 06:02	0°©		asc. node	140 Jan 23 j 07:43	16° ∺ 27'59	
asc. node	137 Aug 07 j 12:44	13°933'48		use. noue	140 Feb 04 j 14:09	0°Υ	
	137 Aug 21 j 01:08	0°N		evening max el	140 Feb 19 j 05:41	15° Υ 11'06	46°05'08
	137 Sep 14 j 08:36	0° m/		evening man er	140 Mar 06 j 09:39	0°8	.0 02 00
	137 Oct 08 j 08:39	0∘ ⊽		greatest brilliancy	140 Mar 28 j 17:24	14° 8 10'55	-4.8m
greatest brilliancy	137 Oct 18 j 17:28	13° ≏ 01'30	-3.9m	retrograde	140 Apr 08 j 15:28	16° 8 21'10	
morning set	137 Oct 24 j 23:05	20° ≏ 52'08		evening set	140 Apr 24 j 06:28	11° 8 35'20	
3	137 Nov 01 j 05:06	0° M .		inferior conj	140 Apr 30 j 00:56	8° 8 04'43	3°10'01
	137 Nov 25 j 00:41	0° ∡ ¹		minimum elong	140 Apr 30 j 07:24	7° 8 54'32	
desc. node	137 Nov 27 j 02:33	2° ∡ ¹36'58		min. Earth dist.	140 Apr 30 j 05:28	7° 8 57'35	0.28972 AU
	, , , , , , , , , , , , , , , , , , ,			morning rise	140 May 06 j 08:33	4° 8 16'15	
superior conj	137 Dec 05 j 03:04	12° ∡ ¹42'52	-0°18'57	desc. node	140 May 13 j 21:28	0° 8 57'40	
minimum elong	137 Dec 04 j 22:00	12° ∡ ¹26'55			140 May 18 j 04:53	30°RƳ	
max. Earth dist.	137 Dec 07 j 02:34		1.71069 AU	direct	140 May 21 j 15:42	29° Y 45'53	
	137 Dec 18 j 21:01	0°ප			140 May 25 j 03:59	0°8	
	138 Jan 11 j 19:07	0° ≈		greatest brilliancy	140 May 31 j 22:35	1° 8 40'35	-4.7m
evening rise	138 Jan 15 j 18:45	4° ≈ 58'58		morning max el	140 Jul 09 j 12:19	29° 8 36'08	45°48'30
8	138 Feb 04 j 20:17	0° ∀			140 Jul 09 j 22:18	0°Щ	
	138 Mar 01 j 02:15	0° Υ			140 Aug 07 j 18:46	0°ಲ	
asc. node	138 Mar 20 j 05:34	23° Y '26'00			140 Sep 03 j 01:36	$0^{\circ}\Omega$	
	138 Mar 25 j 15:11	0°8		asc. node	140 Sep 04 j 00:39	1° Ω 07'43	
	138 Apr 19 j 13:36	0°II			140 Sep 28 j 03:01	0° m/y	
	138 May 15 j 01:29	0ංම			140 Oct 22 j 12:12	0∘ <u>⊽</u>	
	138 Jun 10 j 11:41	0°N			140 Nov 15 j 13:13	0°M	
	138 Jul 08 j 21:32	0° m/y			140 Dec 09 j 11:16	0° ∡ 7	
desc. node	138 Jul 09 j 19:08	0° m, 53'23		desc. node	140 Dec 24 j 14:21	18° ₹ 58'48	
evening max el	138 Jul 13 j 21:07	4° m 51'29	45°51'32		141 Jan 02 j 09:18	0°ರ	
	138 Aug 14 j 17:02	0∘ ⊽		morning set	141 Jan 09 j 23:52	9° ප 31'36	
greatest brilliancy	138 Aug 22 j 23:46	3° ჲ 35'50	-4.8m		141 Jan 26 j 08:45	0° ≈	
retrograde	138 Sep 01 j 01:20	5° ഫ 06'11			141 Feb 19 j 10:28	0° ∀	

	141 E 1 10 : 10 22	001/07/42	1005107		142.0 10:10.46	00.0	
superior conj	141 Feb 19 j 19:22	0°) €27'43			143 Sep 10 j 18:46	0° Ω	46022150
minimum elong	141 Feb 19 j 19:45	0°) 28'52		morning max el	143 Sep 19 j 01:22	7° Ω 55'06	46°23'58
max. Earth dist.	141 Feb 23 j 18:36		1.72341 AU	asc. node	143 Oct 02 j 12:29	21° Ω 52'14	
	141 Mar 15 j 15:07	0° Υ			143 Oct 09 j 23:03	0° m)	
evening rise	141 Mar 30 j 17:06	18° Ƴ 36'43			143 Nov 04 j 23:40	0∘ ⊽	
	141 Apr 08 j 23:20	0° 8			143 Nov 29 j 20:34	0° M	
asc. node	141 Apr 16 j 17:33	9° 8 31'09			143 Dec 24 j 06:19	0° ∡ ¹	
	141 May 03 j 11:25	$\Pi^{\circ}0$			144 Jan 17 j 12:23	0°ರ	
	141 May 28 j 03:43	0 \circ \odot		desc. node	144 Jan 22 j 02:09	5° る 39'52	
	141 Jun 22 j 01:20	$0^{\circ}\Omega$			144 Feb 10 j 17:58	0° ≈	
	141 Jul 17 j 07:01	0° m y			144 Mar 06 j 00:27	0° ∀	
desc. node	141 Aug 06 j 06:58	23° m 19'48		morning set	144 Mar 25 j 04:06	23° ¥ 37′20	
	141 Aug 12 j 02:21	0∘ <u>⊽</u>		Ü	144 Mar 30 j 08:22	0° Υ	
	141 Sep 08 j 00:11	0° M			144 Apr 23 j 17:44	0°8	
evening max el	141 Sep 25 j 11:32	18°ML10'13	47°05'26		1111pi 23 j 17.11	° O	
evening max er	141 Oct 07 j 23:18	0° ∡ ⊓	47 03 20	superior conj	144 May 01 j 10:18	9° 8 26'56	-0°29'42
greatest brilliancy	141 Nov 05 j 00:16	18° ∡ 756′50	-4.9m	minimum elong	144 May 01 j 16:10	9° 8 44'58	
-	·		-4.9111	•		9° 8 58'29	
retrograde	141 Nov 14 j 22:28	20° 🖈 48'29		max. Earth dist.	144 May 01 j 20:35	_	1.73570 AU
asc. node	141 Nov 27 j 10:06	17° ∡ 38'52		asc. node	144 May 14 j 05:25	25° 8 09'42	
evening set	141 Nov 29 j 05:40	16° ∡ ¹43'04			144 May 18 j 03:59	0°II	
inferior conj	141 Dec 05 j 10:44	13° ₹ 03'58	2°04'06	evening rise	144 Jun 06 j 17:35	24° Ⅱ 01′26	
minimum elong	141 Dec 05 j 06:08	13° ≯ 111'00	2°02'38		144 Jun 11 j 14:24	0 \circ	
min. Earth dist.	141 Dec 04 j 22:23	13° ∡ ¹22'54	0.26415 AU		144 Jul 06 j 00:49	$0 {\circ} \Omega$	
morning rise	141 Dec 11 j 07:04	9° ∡ ³38′13			144 Jul 30 j 12:02	0° m y	
direct	141 Dec 25 j 18:39	5° ∡ ′28'31			144 Aug 24 j 01:36	0∘ ত	
greatest brilliancy	142 Jan 04 j 08:20	7° ∡ 13'19	-4.9m	desc. node	144 Sep 02 j 18:59	11° ≙ 49'17	
	142 Feb 05 j 18:32	5°0			144 Sep 17 j 19:28	0° M .	
morning max el	142 Feb 13 j 19:33	7° る 44'57	46°34'56		144 Oct 12 j 20:43	0° ∡ ″	
S	142 Mar 07 j 02:13	0° ≈			144 Nov 07 j 13:05	ರ°0	
desc. node	142 Mar 18 j 23:53	13° ≈ 09'16			144 Dec 04 j 21:13	0° ≈	
dese. Hode	142 Apr 02 j 20:38	0° ₩		evening max el	144 Dec 06 j 12:00	1° ≈ 39'41	47°15'48
	142 Apr 02 j 20:38	0° Υ		asc. node	144 Dec 24 j 21:55	19° ≈ 04'39	47 13 46
		%8 0 1		asc. node	•	19 ≈ 04 39 0° ∺	
	142 May 24 j 01:01			4 4 1 2112	145 Jan 08 j 23:33		4.0
	142 Jun 18 j 01:02	0°II		greatest brilliancy	145 Jan 16 j 00:17	3°) €24'27	-4.9m
asc. node	142 Jul 10 j 02:55	26° Ⅱ 49'05		retrograde	145 Jan 26 j 12:15	5° 米 31'16	
	142 Jul 12 j 17:22	0°99			145 Feb 12 j 05:47	30°R≈	
	142 Aug 06 j 02:23	0 \circ Ω		evening set	145 Feb 13 j 09:15	29° ≈ 18'30	
morning set	142 Aug 11 j 14:16	6° Ω 48'40		min. Earth dist.	145 Feb 15 j 22:37	27° ≈ 42'42	0.28075 AU
	142 Aug 30 j 05:21	0° m y		inferior conj	145 Feb 16 j 14:07	27° ≈ 18′12	8°39'49
max. Earth dist.	142 Sep 14 j 22:41	19° m 40'14	1.71683 AU	minimum elong	145 Feb 16 j 13:30	27° ≈ 19′10	8°39'48
				morning rise	145 Feb 19 j 17:57	25° ≈ 19'48	
superior conj	142 Sep 17 j 23:59	23° m 29'50	1°18'04	direct	145 Mar 09 j 11:46	19° ≈ 15'50	
minimum elong	142 Sep 18 j 07:14	23° m 52'33		greatest brilliancy	145 Mar 18 j 14:36	20° ≈ 48'09	-4.8m
Č	142 Sep 23 j 04:27	0∘ ⊽		,	145 Apr 04 j 14:46	0° ₩	
	142 Oct 17 j 01:59	0° M .		desc. node	145 Apr 15 j 11:40	8° ¥ 36'14	
evening rise	142 Oct 27 j 19:38	13°ML28'43		morning max el	145 Apr 27 j 12:32	19°) 34'38	45°54'29
desc. node	142 Oct 29 j 16:51	15°M50'36		morning max cr	145 May 08 j 00:44	0° Υ	73 372)
desc. node	142 Nov 09 j 23:34	0° ⊼ ¹			145 Jun 05 j 00:06	%8 0.8	
	142 Dec 03 j 22:18	°ੇ ਨ			145 Jul 01 j 07:54	0°II	
	3						
	142 Dec 27 j 23:33	0° ≈			145 Jul 26 j 17:56	0°9	
	143 Jan 21 j 06:01	0° ∺		asc. node	145 Aug 06 j 14:50	13° © 04'59	
	143 Feb 14 j 22:19	0° Υ			145 Aug 20 j 12:30	0 $^{\circ}$ Ω	
asc. node	143 Feb 19 j 19:40	5° Y ′51′23			145 Sep 13 j 19:43	0° m ∕	
	143 Mar 12 j 07:50	$_{0\circ}$ 8			145 Oct 07 j 19:41	0。 ಹ	
	143 Apr 08 j 01:00	Π $^{\circ}0$		greatest brilliancy	145 Oct 18 j 06:00	13° ≙ 06′20	-3.9m
evening max el	143 Apr 30 j 19:56	23° Ⅲ 22'29	45°18'42	morning set	145 Oct 22 j 11:16	18° ≏ 24'47	
	143 May 07 j 22:59	0ං ම			145 Oct 31 j 16:07	0°M₊	
greatest brilliancy	143 Jun 07 j 18:20	20° © 55'58	-4.7m		145 Nov 24 j 11:42	0° ∡ ¹	
desc. node	143 Jun 11 j 09:21	22° © 02'28		desc. node	145 Nov 26 j 04:36	2° ∡ 108'46	
retrograde	143 Jun 18 j 06:56	22° © 55'10			J "		
evening set	143 Jul 04 j 03:19	18° © 10'48		superior conj	145 Dec 02 j 12:30	10° ∡ ¹06'54	-0°15'01
inferior conj	143 Jul 09 j 17:40	14°9549'50	-6°01'57	minimum elong	145 Dec 02 j 08:27	9° × 754'10	
minimum elong	143 Jul 09 j 07:40	14 949 30 15°905'21		behind sun begin	145 Dec 02 j 08:27 145 Dec 01 j 20:54	9° × 17'50	0 1-1-10
•				-	-		
min. Earth dist.	143 Jul 09 j 21:34		0.28775 AU	behind sun end	145 Dec 02 j 20:00	10° ₹ 30'31	1 71052 443
morning rise	143 Jul 14 j 11:39	11°956'33		max. Earth dist.	145 Dec 04 j 09:39	12° ₹ 29'00	1.71053 AU
direct	143 Jul 31 j 07:44	6°535'06	4.0		145 Dec 18 j 07:59	0° ප	
greatest brilliancy	143 Aug 11 j 03:20	8° 5 41'10	-4.8m		146 Jan 11 j 06:05	0° ≈	

evening rise	146 Jan 13 j 05:31	2° ≈ 28'21		morning max el	148 Jul 07 j 03:59	27° 8 26'20	45°47'44
Ü	146 Feb 04 j 07:16	0°) €		Č	148 Jul 09 j 19:43	0°II	
	146 Feb 28 j 13:22	0° Υ			148 Aug 07 j 10:01	0°ಅ	
		22° Υ 58'11				$0 {\circ} {\mathfrak O}$	
asc. node	146 Mar 19 j 07:44				148 Sep 02 j 14:42		
	146 Mar 25 j 02:35	0° 8		asc. node	148 Sep 03 j 02:47	0° Ω 35'34	
	146 Apr 19 j 01:35	$\Pi^{\circ}0$			148 Sep 27 j 15:09	O° mp	
	146 May 14 j 14:36	0 \circ \odot			148 Oct 21 j 23:49	0∘ ত	
	146 Jun 10 j 03:09	$0^{\circ}\Omega$			148 Nov 15 j 00:32	0° M	
desc. node	146 Jul 08 j 21:10	0° Mp 04'45			148 Dec 08 j 22:24	0°⊀	
	146 Jul 08 j 19:14	0° m⊅		desc. node	148 Dec 23 j 16:20	18° ∡ ³30′16	
evening max el	146 Jul 11 j 11:53	2°m/36'16	45°49'19		149 Jan 01 j 20:19	0°ಕ	
e vennig man er	146 Aug 17 j 03:27	0∘ ಹ	13 17 17	morning set	149 Jan 07 j 09:40	6° ප 57'40	
4 41 311	C 3		4.0	morning set			
greatest brilliancy	146 Aug 20 j 11:16	1° ≏ 13'32	-4.8m		149 Jan 25 j 19:41	0° ≈	
retrograde	146 Aug 29 j 14:31	2° £ 44'43					
	146 Sep 10 j 09:49	30°R, Mp		superior conj	149 Feb 17 j 08:09	28° ≈ 04'33	-1°25'27
evening set	146 Sep 16 j 00:36	27° m 02'47		minimum elong	149 Feb 17 j 07:34	28° ≈ 02'42	1°25'27
inferior conj	146 Sep 19 j 11:06	24° m 58'57	-8°07'34		149 Feb 18 j 21:17	0° ∀	
minimum elong	146 Sep 19 j 19:03	24° Mp 46'49	8°06'35	max. Earth dist.	149 Feb 21 j 10:29	3° ₩ 10'15	1.72282 AU
min. Earth dist.	146 Sep 20 j 07:00	24° m) 28'39	0.27408 AU		149 Mar 15 j 01:52	$_{0}$ $^{\circ}$ Υ	
morning rise	146 Sep 23 j 13:14	22° m/31'58	0.27.00110	evening rise	149 Mar 28 j 08:29	16° Y 23'07	
•				evening rise			
direct	146 Oct 10 j 09:20	17° m 05'06			149 Apr 08 j 10:05	0°8	
greatest brilliancy	146 Oct 21 j 10:57	19° m 23'42	-4.9m	asc. node	149 Apr 15 j 19:38	9° 8 04'30	
asc. node	146 Oct 30 j 00:17	23° Mp 47'54			149 May 02 j 22:19	Π $\circ 0$	
	146 Nov 07 j 18:52	0∘ ⊽			149 May 27 j 14:57	0 \circ \odot	
morning max el	146 Nov 30 j 05:43	20° ₽ 40'19	46°55'46		149 Jun 21 j 13:11	$0 ^{\circ} \Omega$	
Ü	146 Dec 09 j 03:03	0°M			149 Jul 16 j 19:54	0° m	
	147 Jan 04 j 19:59	0° ∡ 7		desc. node	149 Aug 05 j 09:03	22° m/45'02	
		∘ੰਤ		desc. node		22 ಗ್ಗಳ-3 02 0° ೧	
	147 Jan 30 j 06:59				149 Aug 11 j 17:03		
desc. node	147 Feb 18 j 14:07	23° る 08'10			149 Sep 07 j 18:44	0° M	
	147 Feb 24 j 06:49	0° ≈		evening max el	149 Sep 23 j 00:28	15°M44'54	47°03'17
	147 Mar 21 j 02:01	0° ∀			149 Oct 08 j 07:02	0° ∡ ¹	
	147 Apr 14 j 19:05	0 ° $\mathbf{\gamma}$		greatest brilliancy	149 Nov 02 j 14:35	16° ₹ 29'27	-4.9m
	147 May 09 j 10:35	$B_{\circ O}$		retrograde	149 Nov 12 j 10:16	18° ∡ 18'52	
morning set	147 Jun 02 j 09:29	29° 8 15'33		evening set	149 Nov 26 j 17:40	14° ҂ 14'33	
morning ser	147 Jun 03 j 00:01	0°II		asc. node	149 Nov 26 j 12:03	14° ₹ 22'01	
					·		1940100
asc. node	147 Jun 11 j 17:10	10° Ⅱ 40'46		inferior conj	149 Dec 02 j 23:00	10° ∡ 35'30	1°40'08
	147 Jun 27 j 10:28	0ංම		minimum elong	149 Dec 02 j 19:15		1°38'56
max. Earth dist.	147 Jul 05 j 12:24	9° © 57'29	1.73236 AU	min. Earth dist.	149 Dec 02 j 12:32	10° ∡ 751'31	0.26392 AU
				morning rise	149 Dec 08 j 21:09	7° ҂ 107′05	
superior conj	147 Jul 08 j 15:39	13° 5 49'37	0°58'01	direct	149 Dec 23 j 06:15	3° ⋠ 00′14	
minimum elong	147 Jul 08 j 06:58	13° 5 22'52	0°57'42	greatest brilliancy	150 Jan 01 j 22:43	4° × 747'01	-4.9m
Č	147 Jul 21 j 17:33	$0^{\circ}\Omega$,	150 Feb 05 j 20:59	0°ರ	
evening rise	147 Aug 13 j 17:14	28° £ 30'43		morning max el	150 Feb 11 j 07:36		46°36'20
evening rise	147 Aug 14 j 21:58			morning max cr		0°≈	40 30 20
		0° m)			150 Mar 06 j 19:26		
	147 Sep 08 j 01:09	0∘ ত		desc. node	150 Mar 18 j 02:02	12° ≈ 31'36	
desc. node	147 Oct 01 j 06:59	28° ≏ 53'03			150 Apr 02 j 10:44	0° ∀	
	147 Oct 02 j 04:34	0° M ₊			150 Apr 28 j 05:13	0 ° $\mathbf{\Upsilon}$	
	147 Oct 26 j 09:23	0° ∡ ¹			150 May 23 j 12:42	9° 8	
	147 Nov 19 j 17:15	0°ರ			150 Jun 17 j 12:11	\mathfrak{I} 0°	
	147 Dec 14 j 07:54	0° ≈		asc. node	150 Jul 09 j 05:04	26° Ⅲ 22'23	
	148 Jan 08 j 13:57	0° \			150 Jul 12 j 04:14	0°9	
asc. node	148 Jan 22 j 09:50	15°) 49'48			150 Aug 05 j 13:08	$0^{\circ}\Omega$	
asc. node		13 γ (4948		. ,			
	148 Feb 04 j 07:52			morning set	150 Aug 09 j 06:54	4° Ω 38'07	
evening max el	148 Feb 16 j 21:47	12° Ƴ 59'07	46°07'42		150 Aug 29 j 16:06	O° mp	
	148 Mar 06 j 18:02	$6^{\circ}B$		max. Earth dist.	150 Sep 12 j 11:32	17° m) 16'17	1.71739 AU
greatest brilliancy	148 Mar 26 j 10:52	12° 8 03'40	-4.8m				
retrograde	148 Apr 06 j 08:09	14° 8 13'02		superior conj	150 Sep 15 j 14:38	21°Mp11'29	1°19'22
evening set	148 Apr 22 j 01:15	9° 8 24'35		minimum elong	150 Sep 15 j 21:14		1°19'15
inferior conj	148 Apr 27 j 17:34	5° 8 56'34	3°28'07	Viong	150 Sep 13 j 21:14 150 Sep 22 j 15:17	0° ഫ	> -0
minimum elong	148 Apr 28 j 00:32	5° 8 45'34	3°26'15		150 Oct 16 j 12:56	0°M	
min. Earth dist.	148 Apr 27 j 21:55	5° 8 49'42	0.28962 AU	evening rise	150 Oct 25 j 06:34	10°M57'50	
morning rise	148 May 04 j 00:04	2° 8 09'18		desc. node	150 Oct 28 j 18:50	15°M22'13	
	148 May 08 j 09:15	30° ŖƳ			150 Nov 09 j 10:40	0° ∡ ¹	
desc. node	148 May 12 j 23:24	28° Ƴ 26′20			150 Dec 03 j 09:33	0°₹	
direct	148 May 19 j 08:23	27° Ƴ 38'07			150 Dec 27 j 10:59	0° ≈	
greatest brilliancy	148 May 29 j 13:38		-4.7m		151 Jan 20 j 17:47	0°) €	
Jy	· · · · · · · · · · · · · · · · · · ·					- / \	
	148 May 30 j 20:31	8°			151 Feb 14 j 10:42	$0^{\circ}\mathbf{\Upsilon}$	

4-	151 E-L 10 : 21.40	5° Ƴ 20'22			152 9 12:06.54	00 m	
asc. node	151 Feb 18 j 21:49 151 Mar 11 j 21:29	0° 8			153 Sep 13 j 06:54 153 Oct 07 j 06:46	0 ்⊽ 0 ்மி	
	151 Apr 07 j 17:33	0°II		greatest brilliancy	153 Oct 07 j 00:40 153 Oct 17 j 13:27	0 = 12° £ 54'58	-3.9m
evening max el	151 Apr 07 j 17:53 151 Apr 28 j 10:53	21° Ⅱ 10′04	45°10'13	morning set	153 Oct 17 j 13.27 153 Oct 19 j 23:52	12 ⊆ 54 38 15° ⊆ 58'40	-3.9111
evening max er	151 May 08 j 01:32	0°95	43 1713	morning set	153 Oct 15 j 25:32 153 Oct 31 j 03:11	0° ™	
greatest brilliancy	151 Jun 05 j 08:41	18°9544'47	-4.7m		153 Nov 23 j 22:47	0° ⊼ ¹	
desc. node	151 Jun 10 j 11:25	20°912'02	4.7III	desc. node	153 Nov 25 j 06:37	1° × ⁷ 40'13	
retrograde	151 Jun 15 j 22:49	20°545'41		dese. Hode	133 1107 23 j 00.37	1 % 10 13	
evening set	151 Jul 01 j 16:32	16°904'06		superior conj	153 Nov 29 j 21:58	7° ∡ ³30'41	-0°11'02
inferior conj	151 Jul 07 j 09:33	12°539'39	-5°47'04	minimum elong	153 Nov 29 j 18:59	7° ∡ "21′18	
minimum elong	151 Jul 06 j 23:38	12°955'02		behind sun begin	153 Nov 28 j 22:46	6° ∡ 17'40	
min. Earth dist.	151 Jul 07 j 13:14	12° © 33'57	0.28798 AU	behind sun end	153 Nov 30 j 15:13	8° ∡ ¹24'57	
morning rise	151 Jul 12 j 06:21	9° 5 642'26		max. Earth dist.	153 Dec 01 j 18:50	9° ∡ '51'52	1.71044 AU
direct	151 Jul 28 j 23:31	4° 5 24'19			153 Dec 17 j 19:07	ರ°0	
greatest brilliancy	151 Aug 08 j 19:38	6° © 30'51	-4.8m	evening rise	154 Jan 10 j 15:54	29° る 55'49	
	151 Sep 10 j 19:51	$0^{\circ}\Omega$			154 Jan 10 j 17:14	0° ≈	
morning max el	151 Sep 16 j 16:48	5° Ω 40'17	46°22'28		154 Feb 03 j 18:29	0° ∀	
asc. node	151 Oct 01 j 14:35	21° Ω 09'38			154 Feb 28 j 00:43	0° Y	
	151 Oct 09 j 15:36	0° m y		asc. node	154 Mar 18 j 09:46	22° Y 29'15	
	151 Nov 04 j 13:38	0∘ 亚			154 Mar 24 j 14:14	9° 8	
	151 Nov 29 j 09:22	0° M			154 Apr 18 j 13:50	Π°	
	151 Dec 23 j 18:28	0° ∡ ¹			154 May 14 j 04:04	0 \circ \odot	
	152 Jan 17 j 00:04	0°ಕ			154 Jun 09 j 19:08	$0^{\circ}\Omega$	
desc. node	152 Jan 21 j 04:21	5° る 10'43		desc. node	154 Jul 07 j 23:21	29° Ω 14'51	
	152 Feb 10 j 05:18	0° ≈			154 Jul 08 j 18:07	0° m	
	152 Mar 05 j 11:30	0° ∺		evening max el	154 Jul 09 j 02:43	0° Mp 20'37	
morning set	152 Mar 22 j 19:32	21°) 23′19		greatest brilliancy	154 Aug 17 j 23:20	28° m 51'35	-4.8m
	152 Mar 29 j 19:14	0° Υ			154 Aug 22 j 15:01	0∘ ⊽	
	152 Apr 23 j 04:30	0° 8		retrograde	154 Aug 27 j 03:23	0° Ω 22'59	
	152 4 20 : 02 47	70 2011 1	0022142		154 Aug 31 j 13:13	30°RM)	
superior conj	152 Apr 29 j 03:47	7° 8 20'11 7° 8 39'51		evening set	154 Sep 13 j 16:20	24° Mp 37'23	0015150
minimum elong max. Earth dist.	152 Apr 29 j 10:11	7° 8 59'36	1.73552 AU	inferior conj	154 Sep 17 j 00:27	22° m/36'43 22° m/25'32	
asc. node	152 Apr 29 j 16:37 152 May 13 j 07:24	24° 8 42'50	1./3332 AU	minimum elong min. Earth dist.	154 Sep 17 j 07:46 154 Sep 17 j 19:59	22° My 06'55	0.27468 AU
asc. node	152 May 15 j 07.24 152 May 17 j 14:44	0° Ⅱ		morning rise	154 Sep 17 j 19.59 154 Sep 20 j 22:59	22 mg 06 33 20° mg 14'41	0.27408 AU
evening rise	152 Jun 04 j 12:40	21° ∏ 59'35		direct	154 Oct 07 j 23:51	14° Mp 42'11	
evening rise	152 Jun 11 j 01:14	0°9		greatest brilliancy	154 Oct 19 j 00:33	16° Mp 59'40	-4.9m
	152 Jul 05 j 11:50	0° Ω		asc. node	154 Oct 29 j 02:14	22° m/21'22	1.5111
	152 Jul 29 j 23:24	0° m)		use. Houe	154 Nov 08 j 08:15	0° ⊽	
	152 Aug 23 j 13:31	0∘ <u>v</u>		morning max el	154 Nov 27 j 19:39	0 — 18° ≏ 15'45	46°55'21
desc. node	152 Sep 01 j 21:08	11° ≏ 18'55			154 Dec 08 j 22:33	0° M	
	152 Sep 17 j 08:11	0° M .			155 Jan 04 j 11:22	0° ∡ ¹	
	152 Oct 12 j 10:40	0° ∡ ¹			155 Jan 29 j 20:33	ნ°0	
	152 Nov 07 j 05:17	ರ∘ರ		desc. node	155 Feb 17 j 16:11	22° る 35'53	
evening max el	152 Dec 04 j 03:17	29° る 19'31	47°17'11		155 Feb 23 j 19:23	0°≈	
	152 Dec 04 j 19:09	0° ≈			155 Mar 20 j 13:56	0°) €	
asc. node	152 Dec 24 j 00:05	17° ≈ 57'42			155 Apr 14 j 06:32	$0^{\circ}\Upsilon$	
	153 Jan 11 j 02:20	0° ∀			155 May 08 j 21:43	0°8	
greatest brilliancy	153 Jan 13 j 15:09	1° ∺ 04'21	-4.9m	morning set	155 May 31 j 03:49	27° 8 11'17	
retrograde	153 Jan 24 j 04:06	3° 光 12'07			155 Jun 02 j 10:57	Π°	
	153 Feb 05 j 15:17	30°R ≈		asc. node	155 Jun 10 j 19:18	10° Ⅱ 13'51	
evening set	153 Feb 10 j 23:05	27° ≈ 01'08			155 Jun 26 j 21:20	0°©	
min. Earth dist.	153 Feb 13 j 12:13	25°≈25'53		max. Earth dist.	155 Jul 03 j 06:57	7° © 53'08	1.73274 AU
inferior conj	153 Feb 14 j 04:59	24°≈59'27	8°39'13		155 1 06:00 50	11001100	0055141
minimum elong	153 Feb 14 j 03:34	25°≈01'41	8°39'11	superior conj	155 Jul 06 j 09:58	11°5544'26	
morning rise	153 Feb 17 j 08:16	23°≈02'11		minimum elong	155 Jul 06 j 01:23	11°9517'57	0°55'23
direct	153 Mar 07 j 02:02	16°≈58'01	1 0	ovonina ria-	155 Jul 21 j 04:30	0°Ω 26°Ω10'55	
greatest brilliancy	153 Mar 16 j 03:39 153 Apr 05 j 07:04	18° ≈ 29'46 0°) €	-4.0III	evening rise	155 Aug 11 j 10:11 155 Aug 14 j 09:04	26° Ω 19'55 0° m	
desc. node	153 Apr 05 J 07:04 153 Apr 14 j 13:42	0° X 7° X 37'13			155 Aug 14 j 09:04 155 Sep 07 j 12:28	0∘ ت میاآل	
morning max el	153 Apr 14 j 15.42 153 Apr 25 j 04:25	7 X 3713 17° X 22'37	45°55'28	desc. node	155 Sep 30 j 08:59	28° £ 23'21	
morning max or	153 Apr 23 j 04:25 153 May 07 j 19:55	0° Υ	15 55 26	desc. Hode	155 Oct 01 j 16:08	0°M	
	153 Jun 04 j 14:51	%8 0 1			155 Oct 25 j 21:19	0° ⊼ 7	
	153 Jun 30 j 20:48	0°II			155 Nov 19 j 05:40	0°ਤ ਹ ×	
	153 Jul 26 j 05:53	0°©			155 Dec 13 j 21:07	0° ≈	
asc. node	153 Aug 05 j 16:58	12° © 36'00			156 Jan 08 j 04:40	0° ₩	
	153 Aug 19 j 23:56	0° Ω		asc. node	156 Jan 21 j 11:57	15° ¥ 10′26	
	<i>y</i>				J /		

	156 Feb 04 j 02:20	0° Ƴ		morning set	158 Aug 06 j 23:35	2° Ω 26'46	
evening max el	156 Feb 14 j 13:07	10° Ƴ 44'05	46°10'06	morning sec	158 Aug 29 j 03:08	0° m	
	156 Mar 07 j 06:06	0°8		max. Earth dist.	158 Sep 10 j 02:26	14° m) 57'57	1.71793 AU
greatest brilliancy	156 Mar 24 j 04:40	9° 8 55'19	-4.8m		T J T T	•	
retrograde	156 Apr 04 j 00:21	12° 8 03'30		superior conj	158 Sep 13 j 05:19	18° m 52'24	1°20'31
evening set	156 Apr 19 j 20:04	7° 8 12'10		minimum elong	158 Sep 13 j 11:14	19° m 10'55	1°20'25
inferior conj	156 Apr 25 j 10:10	3° 8 47'04	3°45'59	-	158 Sep 22 j 02:24	0∘ ত	
minimum elong	156 Apr 25 j 17:36	3° 8 35'19	3°44'01		158 Oct 16 j 00:12	0° M .	
min. Earth dist.	156 Apr 25 j 14:39	3° 8 39'59	0.28953 AU	evening rise	158 Oct 22 j 17:40	8°M26'38	
morning rise	156 May 01 j 15:21	0° 8 01'09		desc. node	158 Oct 27 j 20:54	14°M53'10	
	156 May 01 j 16:11	30° ŖƳ			158 Nov 08 j 22:06	0° ∡ ¹	
desc. node	156 May 12 j 01:28	25° Ƴ 57'56			158 Dec 02 j 21:07	0°ರ	
direct	156 May 17 j 00:33	25° Y 28'54			158 Dec 26 j 22:45	0° ≈	
greatest brilliancy	156 May 27 j 05:13	27° Ƴ 21'12	-4.7m		159 Jan 20 j 05:51	0° ℋ	
	156 Jun 02 j 07:07	0° 8			159 Feb 13 j 23:23	0° Υ	
morning max el	156 Jul 04 j 19:00	25° 8 13'43	45°47'06	asc. node	159 Feb 17 j 23:52	4° Y 48'15	
	156 Jul 09 j 16:50	Π \circ 0			159 Mar 11 j 11:27	0°B	
	156 Aug 07 j 01:26	0ංම			159 Apr 07 j 10:35	$\Pi^{\circ 0}$	
asc. node	156 Sep 02 j 04:49	0° Ω 02'10		evening max el	159 Apr 26 j 02:42	18° Ⅱ 59'21	45°19'43
	156 Sep 02 j 04:05	0° N			159 May 08 j 06:00	0°©	
	156 Sep 27 j 03:34	0° m)		greatest brilliancy	159 Jun 02 j 22:42	16°532'52	-4.7m
	156 Oct 21 j 11:44	0° ⊽		desc. node	159 Jun 09 j 13:35	18°9517'00	
	156 Nov 14 j 12:09	0° M ○		retrograde	159 Jun 13 j 15:04	18°935'44	
1 1	156 Dec 08 j 09:50	0° ⊼		evening set	159 Jun 29 j 06:02	13°956'50	5021127
desc. node	156 Dec 22 j 18:32	18° ⊀ 01'38		inferior conj	159 Jul 05 j 01:31	10°528'57	
	157 Jan 01 j 07:36	0°る 4°る23'55		minimum elong	159 Jul 04 j 15:45	10°5544'04	
morning set	157 Jan 04 j 19:49 157 Jan 25 j 06:50	4° ⊘ 23′33		min. Earth dist.	159 Jul 05 j 04:43	10°S24'00 7°S27'55	0.28822 AU
	15 / Jan 25 J 06:50	0-∞		morning rise direct	159 Jul 10 j 01:08 159 Jul 26 j 16:01	2° © 13'09	
superior conj	157 Feb 14 j 21:12	25° ≈ 41'23	1025117	greatest brilliancy	159 Aug 06 j 11:39	4°919'39	-4.8m
minimum elong	157 Feb 14 j 19:39	25°≈36'34		greatest offinalicy	159 Sep 10 j 20:03	4 3 1939	-4.0111
minimum ciong	157 Feb 18 j 08:21	25 ≈ 30 34	1 23 17	morning max el	159 Sep 14 j 08:58	3° Ω 26'45	46°20'55
max. Earth dist.	157 Feb 19 j 01:15		1.72224 AU	asc. node	159 Sep 30 j 16:37	20° Ω 26'32	40 20 33
max. Earth dist.	157 Mar 14 j 12:54	0°Υ	1.72221710	use. Hode	159 Oct 09 j 08:07	0° m)	
evening rise	157 Mar 25 j 23:52	14° Y ′08′35			159 Nov 04 j 03:42	0∘ <mark>ಹ</mark> ಂ.ಗ	
e vennig rise	157 Apr 07 j 21:10	0°8			159 Nov 28 j 22:18	0° M ₊	
asc. node	157 Apr 14 j 21:37	8° 8 36'33			159 Dec 23 j 06:46	0° ∡ ¹	
	157 May 02 j 09:35	0°II			160 Jan 16 j 11:55	ರ°0	
	157 May 27 j 02:35	0ංම		desc. node	160 Jan 20 j 06:21	4°₹40'20	
	157 Jun 21 j 01:27	$0^{\circ}\Omega$			160 Feb 09 j 16:48	0° ≈	
	157 Jul 16 j 09:13	0° m)			160 Mar 04 j 22:44	0° ∀	
desc. node	157 Aug 04 j 11:09	22° m 08'58		morning set	160 Mar 20 j 11:08	19° ₩ 09'15	
	157 Aug 11 j 08:19	0∘ 亚			160 Mar 29 j 06:15	0° Υ	
	157 Sep 07 j 14:12	0° M			160 Apr 22 j 15:23	0°8	
evening max el	157 Sep 20 j 12:51	13°ML17'13	47°01'06				
	157 Oct 08 j 18:03	0° ∡ ¹		superior conj	160 Apr 26 j 21:29	5° 8 13'42	-0°35'38
greatest brilliancy	157 Oct 31 j 04:47	14° ∡ ¹00'47	-4.9m	minimum elong	160 Apr 27 j 04:23	5° 8 34'54	0°35'19
retrograde	157 Nov 09 j 22:07	15° ∡ ¹48'26		max. Earth dist.	160 Apr 27 j 15:01	6° 8 07'36	1.73532 AU
evening set	157 Nov 24 j 05:50	11° ∡ ⁴44'26		asc. node	160 May 12 j 09:36	24° 8 16'15	
asc. node	157 Nov 25 j 14:15	11° ∡ ′00'05			160 May 17 j 01:35	0°II	
inferior conj	157 Nov 30 j 11:15	8° ∡ 106'00	1°15'51	evening rise	160 Jun 02 j 08:01	19° Ⅱ 58'12	
minimum elong	157 Nov 30 j 08:23		1°14'56		160 Jun 10 j 12:11	ია ⊙	
min. Earth dist.	157 Nov 30 j 02:44	8° √ 19'01	0.26373 AU		160 Jul 04 j 23:02	$\Omega_{\circ 0}$	
morning rise	157 Dec 06 j 11:04	4° ∡ ³35′21			160 Jul 29 j 10:59	0° m/	
direct	157 Dec 20 j 17:46	0° ₹30'37	4.0	1 1-	160 Aug 23 j 01:40	0° <u>೧</u>	
greatest brilliancy	157 Dec 30 j 13:16	2° メ 19'56 0° る	-4.9m	desc. node	160 Aug 31 j 23:05	10° ഫ 47'13 0° സ	
morning may al	158 Feb 05 j 22:20	0°る 2° る 52'23	46°37'57		160 Sep 16 j 21:10	0°แน 0° ҂ 7	
morning max el	158 Feb 08 j 20:21 158 Mar 06 j 12:31	2° ⊙ 32′23 0° ≈	40 3/3/		160 Oct 12 j 00:55 160 Nov 06 j 21:55	0°×' ਨ°ਹ	
desc. node	158 Mar 17 j 04:03	0 ≈ 11°≈53'19		evening max el	160 Nov 06 j 21.33 160 Dec 01 j 19:14	0 3 27° る 00'34	47°18'25
acse. Houc	158 Apr 02 j 00:54	0° \		Svennig max ci	160 Dec 04 j 18:09	27 300 34 0°≈	T/ 10 4J
	158 Apr 02 j 00:54 158 Apr 27 j 17:57	0° Υ		asc. node	160 Dec 23 j 02:11	0 ≈ 16° ≈ 48'12	
	158 May 23 j 00:37	0°8		greatest brilliancy	161 Jan 11 j 05:55	28°≈43'26	-4.9m
	158 Jun 16 j 23:39	0°II		5 · · · · · · · · · · · · · · · · · · ·	161 Jan 15 j 05:09	0° \	
asc. node	158 Jul 08 j 07:13	25° Ⅱ 54'41		retrograde	161 Jan 21 j 19:55	0°) 51′54	
	158 Jul 11 j 15:25	0ංම		-	161 Jan 28 j 05:46	30° R ≈	
	158 Aug 05 j 00:11	$0^{\circ}\Omega$		evening set	161 Feb 08 j 12:26	24° ≈ 43'31	
				-	~		

min. Earth dist.	161 Feb 11 j 01:40	23° ≈ 08'14		superior conj	163 Jul 04 j 04:40	9° © 41'05	
inferior conj	161 Feb 11 j 19:43	22° ≈ 39'47	8°37'46	minimum elong	163 Jul 03 j 20:13	9° © 15'00	0°53'00
minimum elong	161 Feb 11 j 17:29	22° ≈ 43′18	8°37'43		163 Jul 20 j 15:15	$0 {\circ} \Omega$	
morning rise	161 Feb 14 j 22:47	20° ≈ 43′02		evening rise	163 Aug 09 j 03:39	24° Ω 11'25	
direct	161 Mar 04 j 16:37	14° ≈ 39′29			163 Aug 13 j 19:58	0° m	
greatest brilliancy	161 Mar 13 j 16:20	16° ≈ 10′14	-4.8m		163 Sep 06 j 23:35	0∘ ত	
	161 Apr 05 j 19:26	0° ℋ		desc. node	163 Sep 29 j 11:05	27° ≙ 54'27	
desc. node	161 Apr 13 j 15:42	6°) 39′11			163 Oct 01 j 03:35	0°M	
morning max el	161 Apr 22 j 20:06	15° ₩ 09'53	45°56'38		163 Oct 25 j 09:10	0° ∡ ¹	
	161 May 07 j 14:37	0 ° Υ			163 Nov 18 j 18:05	0°ರ	
	161 Jun 04 j 05:26	9° 8			163 Dec 13 j 10:22	0° ≈	
	161 Jun 30 j 09:36	Π $^{\circ}0$			164 Jan 07 j 19:31	0° ∀	
	161 Jul 25 j 17:47	0ංම		asc. node	164 Jan 20 j 13:57	14°) 30′31	
asc. node	161 Aug 04 j 18:59	12° 5 06'40			164 Feb 03 j 21:11	0 $^{\circ}$ Υ	
	161 Aug 19 j 11:24	$0^{\circ}\Omega$		evening max el	164 Feb 12 j 03:18	8° Y 26′13	46°12'39
	161 Sep 12 j 18:10	0° m p			164 Mar 07 j 22:10	8°	
	161 Oct 06 j 17:57	0∘ ত		greatest brilliancy	164 Mar 21 j 22:16	7° 8 46'48	-4.8m
greatest brilliancy	161 Oct 16 j 20:19	12° ≏ 41'30	-3.9m	retrograde	164 Apr 01 j 16:27	9° 8 54'12	
morning set	161 Oct 17 j 12:23	13° ≏ 32'02		evening set	164 Apr 17 j 14:50	4° 8 59'33	
C	161 Oct 30 j 14:21	0°M		inferior conj	164 Apr 23 j 02:40	1° 8 37'45	4°03'31
	161 Nov 23 j 09:56	0° ∡ 7		minimum elong	164 Apr 23 j 10:32	1° 8 25'19	
desc. node	161 Nov 24 j 08:48	1° ∡ 11'59		min. Earth dist.	164 Apr 23 j 07:27	1° 8 30'12	0.28942 AU
	,				164 Apr 25 j 16:54	30° ₹ Υ	
superior conj	161 Nov 27 j 07:21	4° ∡ °54′00	-0°07'01	morning rise	164 Apr 29 j 06:23	27° Y 53'30	
minimum elong	161 Nov 27 j 05:27	4° × ⁷ 48'01	0°06'56	desc. node	164 May 11 j 03:40	23° Y 34'13	
behind sun begin	161 Nov 26 j 05:01	3° ∡ ³31′08		direct	164 May 14 j 16:10	23° Υ 19'39	
behind sun end	161 Nov 28 j 05:52	6° х ¹04'53		greatest brilliancy	164 May 24 j 21:13	25°Υ11'52	-4.7m
max. Earth dist.	161 Nov 29 j 02:42	7° × 10'27	1.71032 AU	greatest orimaney	164 Jun 03 j 20:14	0°8	1.7111
max. Dartii dist.	161 Dec 17 j 06:16	0° ਤ	1.71032710	morning max el	164 Jul 02 j 10:07	23° 8 01'58	45°46'46
evening rise	162 Jan 08 j 02:05	27° ろ 22'28		morning max er	164 Jul 09 j 13:00	0°II	15 10 10
evening rise	162 Jan 10 j 04:26	0°≈			164 Aug 06 j 16:21	0°e 0 π	
	162 Feb 03 j 05:45	0° ∀		asc. node	164 Sep 01 j 06:54	29° © 30'03	
	162 Feb 27 j 12:07	0° Υ		asc. node	164 Sep 01 j 00:54	0°Ω	
asc. node	162 Mar 17 j 11:48	22° Υ 00'13			164 Sep 26 j 15:36	0°m/	
asc. nouc	162 Mar 24 j 01:56	0° 8			164 Oct 20 j 23:18	0° ت	
	162 Apr 18 j 02:07	0°II			164 Nov 13 j 23:29	0° M	
	162 May 13 j 17:33	0°©			164 Dec 07 j 21:02	0° ⊼ 7	
		0° U		desc. node	•	0 x ⁴ 17° x ³33'02	
avanina may al	162 Jun 09 j 11:14	28° Ω 03'46	15011150	desc. Hode	164 Dec 21 j 20:34	17 x 33 02 0°る	
evening max el	162 Jul 06 j 16:49		45°44'50	marning sat	164 Dec 31 j 18:43	0 3 1° る 48'44	
desc. node	162 Jul 07 j 01:21	28° Ω 24'10		morning set	165 Jan 02 j 05:24		
4 41 111	162 Jul 08 j 17:47	0° m/y	4.0		165 Jan 24 j 17:50	0° ≈	
greatest brilliancy	162 Aug 15 j 11:55	26° Mp 31'02	-4.8m		165 E 1 12:00 24	22017/20	102450
retrograde	162 Aug 24 j 15:52	28° Mp 02'12		superior conj	165 Feb 12 j 09:34	23°≈16'38	
evening set	162 Sep 11 j 07:57	22° m 13'21	0022104	minimum elong	165 Feb 12 j 07:04	23°≈08'50	
inferior conj	162 Sep 14 j 14:02	20° m 15'26		max. Earth dist.	165 Feb 16 j 12:48	28°≈25'23	1.72165 AU
minimum elong	162 Sep 14 j 20:39	20° m 05'18			165 Feb 17 j 19:14	0°) €	
min. Earth dist.	162 Sep 15 j 09:27	19° m/45'44	0.27533 AU		165 Mar 13 j 23:43	0°Υ	
morning rise	162 Sep 18 j 09:07	17° m 58'02		evening rise	165 Mar 23 j 14:43	11° Y 52'57	
direct	162 Oct 05 j 14:06	12° Mp 20'00	4.0	,	165 Apr 07 j 08:03	0° 8	
greatest brilliancy	162 Oct 16 j 15:02	14° m/ 37'03	-4.9m	asc. node	165 Apr 13 j 23:47	8° 8 09'48	
asc. node	162 Oct 28 j 04:26	20° m 58'09			165 May 01 j 20:39	0° I I	
	162 Nov 08 j 18:13	0° ⊽	1605.451		165 May 26 j 14:01	0° ©	
morning max el	162 Nov 25 j 08:45	15° £ 48'52	46°54'51		165 Jun 20 j 13:29	0° N	
	162 Dec 08 j 17:33	0° M			165 Jul 15 j 22:20	0° m	
	163 Jan 04 j 02:32	0° ∡		desc. node	165 Aug 03 j 13:10	21° m/33'25	
	163 Jan 29 j 09:59	0°る			165 Aug 10 j 23:24	0° ™	
desc. node	163 Feb 16 j 18:13	22° る 03'48			165 Sep 07 j 09:44	0°M	4.00.501.50
	163 Feb 23 j 07:49	0° ≈		evening max el	165 Sep 18 j 01:16	10°M51'20	46°58'58
	163 Mar 20 j 01:44	0° ∀		,	165 Oct 09 j 07:56	0° √ ¹	4.0
	163 Apr 13 j 17:52	$^{\circ \gamma}$		greatest brilliancy	165 Oct 28 j 18:11	11° 🖈 32'35	-4.9m
	163 May 08 j 08:44	0°8		retrograde	165 Nov 07 j 10:14	13° 🖈 19'25	
morning set	163 May 28 j 22:20	25° 8 07'59		evening set	165 Nov 21 j 18:12	9° ₹ 15'00	
	163 Jun 01 j 21:45	0°II		asc. node	165 Nov 24 j 16:19	7°×736'35	005115
asc. node	163 Jun 09 j 21:27	9° Ⅱ 47'23		inferior conj	165 Nov 27 j 23:27	5° ₹ 37'26	0°51'26
_	163 Jun 26 j 08:03	0°€		minimum elong	165 Nov 27 j 21:29	5° ∡ 140'25	0°50'48
max. Earth dist.	163 Jul 01 j 01:40	5° © 49'54	1.73308 AU	min. Earth dist.	165 Nov 27 j 16:33	5° ₹ 47'56	0.26365 AU
				morning rise	165 Dec 04 j 00:50	2° ₹ 05'02	

	165 Dec 09 : 11:10	200pM			169 1.1 04:00.50	000	
Ji	165 Dec 08 j 11:19	30°RM			168 Jul 04 j 09:59	0° Ω	
direct	165 Dec 18 j 05:47	28°M01'45	4.0		168 Jul 28 j 22:21	0° Mp	
greatest brilliancy	165 Dec 28 j 03:35	29°M53'27	-4.9m		168 Aug 22 j 13:37	0° ⊽	
	165 Dec 28 j 10:46	0° ∡ ¹		desc. node	168 Aug 31 j 01:12	10° £ 16'44	
	166 Feb 05 j 22:15	0° ろ			168 Sep 16 j 09:57	0° M ₅	
morning max el	166 Feb 06 j 10:06	0° る 29'27	46°39'18		168 Oct 11 j 15:01	0° ∡	
	166 Mar 06 j 05:05	0° ≈			168 Nov 06 j 14:30	0° ろ	
desc. node	166 Mar 16 j 06:07	11°≈15'58		evening max el	168 Nov 29 j 11:22	24° る 43'09	47°19'38
	166 Apr 01 j 14:45	0° ∀			168 Dec 04 j 17:38	0° ≈	
	166 Apr 27 j 06:24	0 ° $\mathbf{\Lambda}$		asc. node	168 Dec 22 j 04:10	15° ≈ 37'49	
	166 May 22 j 12:16	$_{0\circ}$ 8		greatest brilliancy	169 Jan 08 j 21:00	26° ≈ 24'16	-4.9m
	166 Jun 16 j 10:48	Π $^{\circ}0$		retrograde	169 Jan 19 j 11:30	28° ≈ 32'49	
asc. node	166 Jul 07 j 09:08	25° Ⅱ 27'15		evening set	169 Feb 06 j 01:34	22° ≈ 27'51	
	166 Jul 11 j 02:18	0 \circ \odot		min. Earth dist.	169 Feb 08 j 15:16	20° ≈ 51'48	0.27894 AU
	166 Aug 04 j 10:56	$0^{\circ}\Omega$		inferior conj	169 Feb 09 j 10:32	20° ≈ 21'25	8°35'33
morning set	166 Aug 04 j 16:20	0° Ω 16'45		minimum elong	169 Feb 09 j 07:30	20° ≈ 26′12	8°35'25
	166 Aug 28 j 13:51	0° m)		morning rise	169 Feb 12 j 13:43	18° ≈ 24'33	
max. Earth dist.	166 Sep 07 j 17:16	12° Mp 40'34	1.71840 AU	direct	169 Mar 02 j 07:24	12° ≈ 22'27	
				greatest brilliancy	169 Mar 11 j 05:13	13° ≈ 51'54	-4.8m
superior conj	166 Sep 10 j 20:21	16° Mp 35'29	1°21'31		169 Apr 06 j 04:08	0° ∀	
minimum elong	166 Sep 11 j 01:32	16° m 51'45		desc. node	169 Apr 12 j 17:55	5°) 43'44	
Č	166 Sep 21 j 13:11	0∘ <u>⊽</u>		morning max el	169 Apr 20 j 10:59	12°) 55′54	45°57'32
	166 Oct 15 j 11:05	0° M .			169 May 07 j 08:36	0°Υ	
evening rise	166 Oct 20 j 05:14	5° M 58'07			169 Jun 03 j 19:39	0°8	
desc. node	166 Oct 26 j 23:04	14°M25'38			169 Jun 29 j 22:10	0°II	
desc. Hode	166 Nov 08 j 09:07	0° ∡ 7			169 Jul 25 j 05:29	0°©	
	166 Dec 02 j 08:19	0° ਣ		asc. node	169 Aug 03 j 21:04	11° 9 38'11	
	166 Dec 26 j 10:10	0°≈		asc. node	169 Aug 18 j 22:38	0°Ω	
	-	0 ≈ 0° ∀					
	167 Jan 19 j 17:39	0 K 0° Υ			169 Sep 12 j 05:12	0° ट 0°क्र	
1	167 Feb 13 j 11:52			. ,	169 Oct 06 j 04:55		
asc. node	167 Feb 17 j 01:54	4° Y 16'43		morning set	169 Oct 15 j 00:52	11° ≏ 05'56	
	167 Mar 11 j 01:19	0° B			169 Oct 30 j 01:18	0° M	
	167 Apr 07 j 03:47	0°II			169 Nov 22 j 20:53	0° ∡	
evening max el	167 Apr 23 j 19:00	16° Ⅱ 50'19	45°20'24	desc. node	169 Nov 23 j 10:47	0° ≯ 43'45	
	167 May 08 j 12:14	0ංම				_	
greatest brilliancy	167 May 31 j 12:53	14°521'42	-4.7m	superior conj	169 Nov 24 j 16:56	2° ∡ 18'37	
desc. node	167 May 31 j 12:53 167 Jun 08 j 15:33	14°©21'42 16°©17'55	-4.7m	minimum elong	169 Nov 24 j 16:06	2° ⊀ 16′00	-0°03'01 0°02'58
desc. node retrograde	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16	14°©21'42 16°©17'55 16°©25'59	-4.7m		169 Nov 24 j 16:06 169 Nov 23 j 13:48	2° х 16′00 0° х 53′15	
desc. node	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37	14°©21'42 16°©17'55	-4.7m	minimum elong	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24	2° ₹ 16'00 0° ₹ 53'15 3° ₹ 38'46	
desc. node retrograde	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16	14°©21'42 16°©17'55 16°©25'59		minimum elong behind sun begin	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53	2° х 16′00 0° х 53′15	
desc. node retrograde evening set	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37	14°521'42 16°517'55 16°525'59 11°549'54	-5°15'46	minimum elong behind sun begin behind sun end	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24	2°メ16'00 0°メ53'15 3°メ38'46 4°メ18'04 0°云	0°02'58
desc. node retrograde evening set inferior conj	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18	14°921'42 16°917'55 16°925'59 11°949'54 8°918'33 8°933'22	-5°15'46	minimum elong behind sun begin behind sun end	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53	2° ₹ 16'00 0° ₹ 53'15 3° ₹ 38'46 4° ₹ 18'04	0°02'58
desc. node retrograde evening set inferior conj minimum elong	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44	14°921'42 16°917'55 16°925'59 11°949'54 8°918'33 8°933'22	-5°15'46 5°13'32	minimum elong behind sun begin behind sun end max. Earth dist.	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13	2°メ16'00 0°メ53'15 3°メ38'46 4°メ18'04 0°云	0°02'58
desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51	14°521'42 16°517'55 16°525'59 11°549'54 8°518'33 8°533'22 8°514'37	-5°15'46 5°13'32	minimum elong behind sun begin behind sun end max. Earth dist.	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23	2° \$\frac{1}{3}\text{16'00} 0° \$\frac{1}{3}\text{53'15} 3° \$\frac{1}{3}\text{38'46} 4° \$\frac{1}{3}\text{18'04} 0° \$\frac{1}{3}\text{24°} \$\frac{1}{3}\text{50'07}	0°02'58
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39	14°921'42 16°9217'55 16°925'59 11°949'54 8°933'22 8°934'37 5°913'44	-5°15'46 5°13'32	minimum elong behind sun begin behind sun end max. Earth dist.	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23	2°水16'00 0°水53'15 3°水38'46 4°水18'04 0°云 24°云50'07 0°≈	0°02'58
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40	14°921'42 16°925'59 16°925'59 11°949'54 8°9318'33 8°933'22 8°914'37 5°913'44 0°902'33	-5°15'46 5°13'32 0.28841 AU	minimum elong behind sun begin behind sun end max. Earth dist.	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23 170 Feb 02 j 16:45	2° \$716'00 0° \$753'15 3° \$738'46 4° \$718'04 0° 당 24° 당50'07 0° \$2 0° \cdot \c	0°02'58
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50	14°521'42 16°517'55 16°525'59 11°549'54 8°518'33 8°533'22 8°514'37 5°513'44 0°502'33 2°508'08	-5°15'46 5°13'32 0.28841 AU	minimum elong behind sun begin behind sun end max. Earth dist. evening rise	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15	2°水16'00 0°水53'15 3°水38'46 4°水18'04 0°云 24°云50'07 0°≈ 0°升 0°쒸	0°02'58
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53	14°521'42 16°517'55 16°525'59 11°549'54 8°518'33 8°533'22 8°514'37 5°513'44 0°502'33 2°508'08	-5°15'46 5°13'32 0.28841 AU -4.8m	minimum elong behind sun begin behind sun end max. Earth dist. evening rise	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58	2°水16'00 0°水53'15 3°水38'46 4°水18'04 0°उ 24°उ50'07 0°≈ 0°升 0°°Υ 21°°Υ32'19	0°02'58
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53 167 Sep 12 j 01:01	14°521'42 16°517'55 16°525'59 11°549'54 8°518'33 8°533'22 8°514'37 5°513'44 0°502'33 2°508'08 0° \(\alpha \) 1°\(\alpha \) 14'00	-5°15'46 5°13'32 0.28841 AU -4.8m	minimum elong behind sun begin behind sun end max. Earth dist. evening rise	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58 170 Mar 23 j 13:23	2°水16'00 0°水53'15 3°水38'46 4°水18'04 0°उ 24°उ50'07 0°≈ 0°升 0°Y 21°°Y32'19 0°℧	0°02'58
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53 167 Sep 12 j 01:01 167 Sep 29 j 18:45	14°521'42 16°517'55 16°525'59 11°549'54 8°518'33 8°533'22 8°514'37 5°513'44 0°502'33 2°508'08 0° \Omega 1°\Omega 14'00 19°\Omega 45'09	-5°15'46 5°13'32 0.28841 AU -4.8m	minimum elong behind sun begin behind sun end max. Earth dist. evening rise	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58 170 Mar 23 j 13:23 170 Apr 17 j 14:15	2°水16'00 0°水53'15 3°水38'46 4°水18'04 0°उ 24°उ50'07 0°≈ 0°) 0°) 21°\932'19 0°\8 0°\1	0°02'58
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53 167 Sep 12 j 01:01 167 Sep 29 j 18:45 167 Oct 09 j 00:01 167 Nov 03 j 17:16	14°521'42 16°517'55 16°525'59 11°549'54 8°518'33 8°533'22 8°514'37 5°513'44 0°502'33 2°508'08 0°A 1°A14'00 19°A45'09 0°M	-5°15'46 5°13'32 0.28841 AU -4.8m	minimum elong behind sun begin behind sun end max. Earth dist. evening rise	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58 170 Mar 23 j 13:23 170 Apr 17 j 14:15 170 May 13 j 07:01 170 Jun 09 j 03:33	2°水16'00 0°水53'15 3°水38'46 4°水18'04 0°云 24°云50'07 0°≈ 0°升 0°쒸 21°쒸32'19 0°뭥 0°Ⅱ 0°町	0°02'58
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53 167 Sep 12 j 01:01 167 Sep 29 j 18:45 167 Oct 09 j 00:01 167 Nov 03 j 17:16 167 Nov 28 j 10:47	14°521'42 16°517'55 16°525'59 11°549'54 8°518'33 8°533'22 8°514'37 5°513'44 0°502'33 2°508'08 0°A 1°A14'00 19°A45'09 0°M 0°£	-5°15'46 5°13'32 0.28841 AU -4.8m	minimum elong behind sun begin behind sun end max. Earth dist. evening rise	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58 170 Mar 23 j 13:23 170 Apr 17 j 14:15 170 May 13 j 07:01 170 Jun 09 j 03:33 170 Jul 04 j 06:01	2°水16'00 0°水53'15 3°水38'46 4°水18'04 0°云 24°云50'07 0°≈ 0°升 0°升 0°升 0°晶 0°晶 0°品 25°Ω44'53	0°02'58 1.71019 AU
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53 167 Sep 12 j 01:01 167 Sep 29 j 18:45 167 Oct 09 j 00:01 167 Nov 03 j 17:16 167 Nov 28 j 10:47 167 Dec 22 j 18:37	14°521'42 16°517'55 16°525'59 11°549'54 8°518'33 8°533'22 8°514'37 5°513'44 0°502'33 2°508'08 0°A 1°A14'00 19°A45'09 0°M 0°£ 0°M 0°£	-5°15'46 5°13'32 0.28841 AU -4.8m	minimum elong behind sun begin behind sun end max. Earth dist. evening rise asc. node	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58 170 Mar 23 j 13:23 170 Apr 17 j 14:15 170 May 13 j 07:01 170 Jun 09 j 03:33 170 Jul 04 j 06:01 170 Jul 06 j 03:25	2° ₹16'00 0° ₹53'15 3° ₹38'46 4° ₹18'04 0° ₹ 24° ₹50'07 0° ≈ 0° ¥ 0° ¥ 0° ¥ 0° \$ 0° \$ 0° \$ 25° \$\Omega 44'53 27° \$\Omega 32'42	0°02'58 1.71019 AU
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53 167 Sep 12 j 01:01 167 Sep 29 j 18:45 167 Oct 09 j 00:01 167 Nov 03 j 17:16 167 Nov 28 j 10:47 167 Dec 22 j 18:37 168 Jan 15 j 23:20	14°521'42 16°517'55 16°525'59 11°549'54 8°518'33 8°533'22 8°514'37 5°513'44 0°502'33 2°508'08 0°A 1°A14'00 19°A45'09 0°M 0°A 0°M 0°A	-5°15'46 5°13'32 0.28841 AU -4.8m	minimum elong behind sun begin behind sun end max. Earth dist. evening rise asc. node evening max el desc. node	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58 170 Mar 23 j 13:23 170 Apr 17 j 14:15 170 May 13 j 07:01 170 Jun 09 j 03:33 170 Jul 04 j 06:01 170 Jul 06 j 03:25 170 Jul 08 j 18:36	2°水16'00 0°水53'15 3°水38'46 4°水18'04 0°云 24°云50'07 0°≈ 0°升 0°भ 0°भ 0°9 0°9 0°9 0°9 25° \$\text{044'53} 27° \$\text{032'42} 0°\text{0}	0°02'58 1.71019 AU 45°42'39
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53 167 Sep 12 j 01:01 167 Sep 29 j 18:45 167 Oct 09 j 00:01 167 Nov 03 j 17:16 167 Nov 28 j 10:47 167 Dec 22 j 18:37 168 Jan 15 j 23:20 168 Jan 19 j 08:22	14°521'42 16°525'59 11°549'54 8°518'33 8°533'22 8°514'37 5°513'44 0°502'33 2°508'08 0° R 1° R14'00 19° R45'09 0° M 0° A 0° M 0° A 1° C11'17	-5°15'46 5°13'32 0.28841 AU -4.8m	minimum elong behind sun begin behind sun end max. Earth dist. evening rise asc. node evening max el desc. node greatest brilliancy	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58 170 Mar 23 j 13:23 170 Apr 17 j 14:15 170 May 13 j 07:01 170 Jun 09 j 03:33 170 Jul 04 j 06:01 170 Jul 06 j 03:25 170 Jul 08 j 18:36 170 Aug 13 j 00:43	2° \$\times 16'00 0° \$\times 53'15 3° \$\times 38'46 4° \$\times 18'04 0° \$\times 50'07 0° \$\times 0°	0°02'58 1.71019 AU
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desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node desc. node	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53 167 Sep 10 j 18:53 167 Sep 29 j 18:45 167 Oct 09 j 00:01 167 Nov 03 j 17:16 167 Nov 28 j 10:47 167 Dec 22 j 18:37 168 Jan 15 j 23:20 168 Jan 19 j 08:22 168 Feb 09 j 03:55 168 Mar 04 j 09:38	14°\$21'42 16°\$25'59 11°\$49'54 8°\$18'33 8°\$33'22 8°\$14'37 5°\$13'44 0°\$02'33 2°\$08'08 0°\$\Omega\$14'00 19°\$\Omega\$45'09 0°\$\Dm\$0°\$	-5°15'46 5°13'32 0.28841 AU -4.8m	minimum elong behind sun begin behind sun end max. Earth dist. evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58 170 Mar 23 j 13:23 170 Apr 17 j 14:15 170 May 13 j 07:01 170 Jun 09 j 03:33 170 Jul 04 j 06:01 170 Jul 06 j 03:25 170 Jul 08 j 18:36 170 Aug 13 j 00:43 170 Aug 22 j 04:08 170 Sep 08 j 23:11	2° \$716'00 0° \$753'15 3° \$738'46 4° \$718'04 0° \$50'07 0° \$60 \$750'07 0° \$60 \$750'07 0°	0°02'58 1.71019 AU 45°42'39 -4.8m
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53 167 Sep 12 j 01:01 167 Sep 29 j 18:45 167 Oct 09 j 00:01 167 Nov 03 j 17:16 167 Nov 28 j 10:47 167 Dec 22 j 18:37 168 Jan 19 j 08:22 168 Feb 09 j 03:55 168 Mar 04 j 09:38 168 Mar 18 j 02:21	14°\$21'42 16°\$25'59 11°\$49'54 8°\$18'33 8°\$33'22 8°\$14'37 5°\$13'44 0°\$02'33 2°\$08'08 0°\$\Omega\$14'00 19°\$\Omega\$45'09 0°\$\Dm\$0°\$\S\$ 4°\$\S\$11'17 0°\$\S\$ 0°\$\H\$ 16°\$\S\$54'48	-5°15'46 5°13'32 0.28841 AU -4.8m	minimum elong behind sun begin behind sun end max. Earth dist. evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58 170 Mar 23 j 13:23 170 Apr 17 j 14:15 170 May 13 j 07:01 170 Jun 09 j 03:33 170 Jul 04 j 06:01 170 Jul 06 j 03:25 170 Jul 08 j 18:36 170 Aug 13 j 00:43 170 Aug 22 j 04:08 170 Sep 08 j 23:11 170 Sep 12 j 03:35	2° ₹16'00 0° ₹53'15 3° ₹38'46 4° ₹18'04 0° ₹ 24° ₹50'07 0° ≈ 0° ¥ 0° ¥ 0° ¥ 0° \$ 1 0° \$ 2 0° \$ 3 25° \$ 1 4'53 27° \$ 3 32'42 0° \$ 1 19° \$ 1 \0'52 25° \$ 1 \0'151 19° \$ 1 \0'49'59 17° \$ 1 \0'54'31	0°02'58 1.71019 AU 45°42'39 -4.8m -8°29'19
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node desc. node	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53 167 Sep 12 j 01:01 167 Sep 29 j 18:45 167 Oct 09 j 00:01 167 Nov 03 j 17:16 167 Nov 28 j 10:47 167 Dec 22 j 18:37 168 Jan 15 j 23:20 168 Feb 09 j 03:55 168 Mar 04 j 09:38 168 Mar 18 j 02:21 168 Mar 28 j 17:01	14°521'42 16°517'55 16°525'59 11°549'54 8°518'33 8°533'22 8°514'37 5°513'44 0°502'33 2°508'08 0°A 1°A14'00 19°A45'09 0°™ 0°± 0°™ 0°± 4°♂11'17 0°≈ 0°H 16°升54'48 0°Y	-5°15'46 5°13'32 0.28841 AU -4.8m	minimum elong behind sun begin behind sun end max. Earth dist. evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58 170 Mar 23 j 13:23 170 Apr 17 j 14:15 170 May 13 j 07:01 170 Jun 09 j 03:33 170 Jul 04 j 06:01 170 Jul 06 j 03:25 170 Jul 08 j 18:36 170 Aug 13 j 00:43 170 Aug 22 j 04:08 170 Sep 08 j 23:11 170 Sep 12 j 03:25	2° ₹16'00 0° ₹53'15 3° ₹38'46 4° ₹18'04 0° ₹ 24° ₹50'07 0° ≈ 0° ¥ 0° ¥ 0° ¥ 0° ¶ 0° \$ 0° \$ 25° \$\text{04'53} 27° \$\text{032'42} 0° \$\text{0} 24° \$\text{0}\$10'52 25° \$\text{04'51} 19° \$\text{04'51} 19° \$\text{04'53} 17° \$\text{045'34}	0°02'58 1.71019 AU 45°42'39 -4.8m -8°29'19 8°28'49
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node desc. node	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53 167 Sep 12 j 01:01 167 Sep 29 j 18:45 167 Oct 09 j 00:01 167 Nov 03 j 17:16 167 Nov 28 j 10:47 167 Dec 22 j 18:37 168 Jan 19 j 08:22 168 Feb 09 j 03:55 168 Mar 04 j 09:38 168 Mar 18 j 02:21	14°\$21'42 16°\$25'59 11°\$49'54 8°\$18'33 8°\$33'22 8°\$14'37 5°\$13'44 0°\$02'33 2°\$08'08 0°\$\Omega\$14'00 19°\$\Omega\$45'09 0°\$\Dm\$0°\$\S\$ 4°\$\S\$11'17 0°\$\S\$ 0°\$\H\$ 16°\$\S\$54'48	-5°15'46 5°13'32 0.28841 AU -4.8m	minimum elong behind sun begin behind sun end max. Earth dist. evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58 170 Mar 23 j 13:23 170 Apr 17 j 14:15 170 May 13 j 07:01 170 Jun 09 j 03:33 170 Jul 04 j 06:01 170 Jul 06 j 03:25 170 Jul 08 j 18:36 170 Aug 13 j 00:43 170 Aug 22 j 04:08 170 Sep 08 j 23:11 170 Sep 12 j 03:25 170 Sep 12 j 09:25 170 Sep 12 j 09:25	2° ₹16'00 0° ₹53'15 3° ₹38'46 4° ₹18'04 0° ₹50'07 0° ₹ 0° ¥ 0° ¥ 0° ¥ 0° ¶ 0° \$ 0° \$ 25° \$\text{\$\text{\$44'53}}\$ 27° \$\text{\$\text{\$32'42}}\$ 0° \$\text{\$\text{\$00'05}}\$ 12° \$\text{\$\text{\$\text{\$45'53}}\$} 17° \$\text{\$\text{\$\text{\$45'31}}\$} 17° \$\text{\$\text{\$\text{\$45'34}}\$} 17° \$\text{\$\text{\$\text{\$\text{\$45'34}}\$}} 17° \$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$45'34}}\$}}} 17° \$\$\text{\$\t	0°02'58 1.71019 AU 45°42'39 -4.8m -8°29'19
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node desc. node	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53 167 Sep 12 j 01:01 167 Sep 29 j 18:45 167 Oct 09 j 00:01 167 Nov 03 j 17:16 167 Nov 28 j 10:47 167 Dec 22 j 18:37 168 Jan 15 j 23:20 168 Jan 19 j 08:22 168 Feb 09 j 03:55 168 Mar 04 j 09:38 168 Mar 18 j 02:21 168 Mar 28 j 17:01 168 Apr 22 j 02:03	14°521'42 16°517'55 16°525'59 11°549'54 8°518'33 8°533'22 8°514'37 5°513'44 0°502'33 2°508'08 0°10 1°14'00 19°14'00 19°14'00 19°14'00 19°14'00 19°14'00 19°14'00 19°14'00 19°14'00 19°14'00 19°14'1	-5°15'46 5°13'32 0.28841 AU -4.8m 46°19'27	minimum elong behind sun begin behind sun end max. Earth dist. evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58 170 Mar 23 j 13:23 170 Apr 17 j 14:15 170 May 13 j 07:01 170 Jun 09 j 03:33 170 Jul 04 j 06:01 170 Jul 06 j 03:25 170 Jul 08 j 18:36 170 Aug 13 j 00:43 170 Aug 22 j 04:08 170 Sep 08 j 23:11 170 Sep 12 j 03:35 170 Sep 12 j 09:25 170 Sep 12 j 23:01 170 Sep 15 j 19:24	2° ₹16'00 0° ₹53'15 3° ₹38'46 4° ₹18'04 0° ₹50'07 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 21° ₹32'19 0° ₹ 0° ₹ 25° ₹44'53 27° ₹32'42 0° ₹ 24° ₹10'52 25° ₹44'51 19° ₹45'31 17° ₹45'34 17° ₹45'34 17° ₹45'34	0°02'58 1.71019 AU 45°42'39 -4.8m -8°29'19 8°28'49
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53 167 Sep 10 j 18:53 167 Oct 09 j 00:01 167 Nov 03 j 17:16 167 Nov 28 j 10:47 167 Dec 22 j 18:37 168 Jan 15 j 23:20 168 Jan 19 j 08:22 168 Feb 09 j 03:55 168 Mar 04 j 09:38 168 Mar 18 j 02:21 168 Apr 24 j 14:38	14°\$21'42 16°\$25'59 11°\$49'54 8°\$18'33 8°\$33'22 8°\$14'37 5°\$13'44 0°\$02'33 2°\$08'08 0°\$\alpha\$ 1°\$\alpha\$14'00 19°\$\alpha\$45'09 0°\$\bar{\text{m}}\$ 0°\$\bar{\text{m}}\$ 0°\$\bar{\text{m}}\$ 0°\$\bar{\text{m}}\$ 4°\$\bar{\text{m}}\$11'17 0°\$\infty\$ 0°\$\bar{\text{m}}\$ 16°\$\bar{\text{m}}\$54'48 0°\$\bar{\text{m}}\$ 3°\$\bar{\text{m}}\$06'12	-5°15'46 5°13'32 0.28841 AU -4.8m 46°19'27	minimum elong behind sun begin behind sun end max. Earth dist. evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58 170 Mar 23 j 13:23 170 Apr 17 j 14:15 170 May 13 j 07:01 170 Jun 09 j 03:33 170 Jul 04 j 06:01 170 Jul 06 j 03:25 170 Jul 08 j 18:36 170 Aug 13 j 00:43 170 Aug 22 j 04:08 170 Sep 12 j 03:35 170 Sep 12 j 03:25 170 Sep 12 j 09:25 170 Sep 12 j 23:01 170 Sep 15 j 19:24 170 Oct 03 j 03:53	2° ₹16'00 0° ₹53'15 3° ₹38'46 4° ₹18'04 0° ₹50'07 0° ₹ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° \$ 0° \$ 25° \$\text{\$\text{\$44'53}}\$ 27° \$\text{\$\text{\$32'42}}\$ 0° \$\text{\$\text{\$\text{\$0'07}}\$ 24° \$\text{\$\text{\$\text{\$15'15}}\$ 19° \$\$\text{\$\tex	0°02'58 1.71019 AU 45°42'39 -4.8m -8°29'19 8°28'49 0.27598 AU
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj minimum elong	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53 167 Sep 12 j 01:01 167 Sep 29 j 18:45 167 Oct 09 j 00:01 167 Nov 03 j 17:16 167 Nov 28 j 10:47 167 Dec 22 j 18:37 168 Jan 15 j 23:20 168 Jan 19 j 08:22 168 Feb 09 j 03:55 168 Mar 04 j 09:38 168 Mar 28 j 17:01 168 Apr 24 j 14:38 168 Apr 24 j 14:38	14°521'42 16°517'55 16°525'59 11°549'54 8°518'33 8°533'22 8°514'37 5°513'44 0°502'33 2°508'08 0°A 1°A14'00 19°A45'09 0°順 0°ふ 0°形 0°ふ 4°511'17 0°≈ 0°光 16°升54'48 0°Y 0°8 3°806'12 3°828'52	-5°15'46 5°13'32 0.28841 AU -4.8m 46°19'27	minimum elong behind sun begin behind sun end max. Earth dist. evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58 170 Mar 23 j 13:23 170 Apr 17 j 14:15 170 May 13 j 07:01 170 Jun 09 j 03:33 170 Jul 04 j 06:01 170 Jul 06 j 03:25 170 Jul 08 j 18:36 170 Aug 13 j 00:43 170 Aug 22 j 04:08 170 Sep 12 j 03:35 170 Sep 12 j 09:25 170 Sep 12 j 23:01 170 Sep 15 j 19:24 170 Oct 03 j 03:53 170 Oct 14 j 05:55	2° ₹16'00 0° ₹53'15 3° ₹38'46 4° ₹18'04 0° ₹ 24° ₹50'07 0° ≈ 0° ¥ 0° ¥ 0° ¥ 0° ¶ 0° \$ 0° \$ 25° \$\text{\$\text{\$44'53}}\$ 27° \$\text{\$\text{\$32'42}}\$ 0° \$\text{\$\text{\$\text{\$0'07}}\$ 17° \$\$\text{\$\tex{	0°02'58 1.71019 AU 45°42'39 -4.8m -8°29'19 8°28'49
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj minimum elong max. Earth dist.	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 17:18 167 Jul 02 j 19:51 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53 167 Sep 10 j 18:53 167 Sep 29 j 18:45 167 Oct 09 j 00:01 167 Nov 03 j 17:16 167 Nov 28 j 10:47 167 Dec 22 j 18:37 168 Jan 15 j 23:20 168 Jan 19 j 08:22 168 Feb 09 j 03:55 168 Mar 04 j 09:38 168 Mar 28 j 17:01 168 Apr 22 j 02:03	14°521'42 16°517'55 16°525'59 11°549'54 8°518'33 8°533'22 8°514'37 5°513'44 0°502'33 2°508'08 0° ル 1°ん14'00 19°ん45'09 0° ル 0°エ 0°ボ 0°ボ 0°ボ 4°ጜ11'17 0°≈ 0° 16° ★54'48 0° 1° 0° 3° 3° 406'12 3° 528'52 4° 516'41	-5°15'46 5°13'32 0.28841 AU -4.8m 46°19'27	minimum elong behind sun begin behind sun end max. Earth dist. evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58 170 Mar 23 j 13:23 170 Apr 17 j 14:15 170 May 13 j 07:01 170 Jun 09 j 03:33 170 Jul 04 j 06:01 170 Jul 06 j 03:25 170 Jul 08 j 18:36 170 Aug 13 j 00:43 170 Aug 22 j 04:08 170 Sep 08 j 23:11 170 Sep 12 j 03:35 170 Sep 12 j 03:25 170 Sep 12 j 23:01 170 Sep 15 j 19:24 170 Oct 03 j 03:55 170 Oct 14 j 05:55 170 Oct 27 j 06:31	2° \$716'00 0° \$753'15 3° \$738'46 4° \$718'04 0° \$50'07 0° \$60 \$750'07 0° \$750	0°02'58 1.71019 AU 45°42'39 -4.8m -8°29'19 8°28'49 0.27598 AU
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj minimum elong	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53 167 Sep 10 j 18:53 167 Sep 29 j 18:45 167 Oct 09 j 00:01 167 Nov 03 j 17:16 167 Nov 28 j 10:47 167 Dec 22 j 18:37 168 Jan 15 j 23:20 168 Jan 19 j 08:22 168 Feb 09 j 03:55 168 Mar 04 j 09:38 168 Mar 18 j 02:21 168 Apr 24 j 14:38 168 Apr 24 j 12:00 168 Apr 24 j 13:34 168 May 11 j 11:38	14°521'42 16°517'55 16°525'59 11°549'54 8°518'33 8°533'22 8°514'37 5°513'44 0°502'33 2°508'08 0° Ω 1°Ω14'00 19°Ω45'09 0°™ 0° Д 0°™ 0° Д 0°™ 0° Д 1°° Н 16° Н 54'48 0° Υ 0° В 3° В 28'52 4° В 16'41 23° В 49'56	-5°15'46 5°13'32 0.28841 AU -4.8m 46°19'27	minimum elong behind sun begin behind sun end max. Earth dist. evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58 170 Mar 23 j 13:23 170 Apr 17 j 14:15 170 May 13 j 07:01 170 Jun 09 j 03:33 170 Jul 04 j 06:01 170 Jul 06 j 03:25 170 Jul 08 j 18:36 170 Aug 13 j 00:43 170 Aug 22 j 04:08 170 Sep 08 j 23:11 170 Sep 12 j 03:35 170 Sep 12 j 03:35 170 Sep 12 j 03:55 170 Oct 14 j 05:55 170 Oct 27 j 06:31 170 Nov 09 j 01:23	2° ₹16'00 0° ₹53'15 3° ₹38'46 4° ₹18'04 0° ₹50'07 0° ≈ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° £ 0° £ 0° £ 0° £ 25° £2'19 0° £ 25° £2'42 0° ₹ 10'52 25° ₹41'51 19° ₹49'59 17° ₹54'31 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34	0°02'58 1.71019 AU 45°42'39 -4.8m -8°29'19 8°28'49 0.27598 AU -4.9m
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj minimum elong max. Earth dist. asc. node	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 17:18 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53 167 Sep 12 j 01:01 167 Sep 29 j 18:45 167 Oct 09 j 00:01 167 Nov 03 j 17:16 167 Nov 28 j 10:47 167 Dec 22 j 18:37 168 Jan 15 j 23:20 168 Jan 19 j 08:22 168 Feb 09 j 03:55 168 Mar 04 j 09:38 168 Mar 18 j 02:21 168 Apr 24 j 14:38 168 Apr 24 j 14:38 168 Apr 24 j 13:34 168 May 11 j 11:38 168 May 16 j 12:13	14°521'42 16°517'55 16°525'59 11°549'54 8°518'33 8°533'22 8°514'37 5°513'44 0°502'33 2°508'08 0° ル 1°ん14'00 19°ん45'09 0° ル 0°エ 0°ボ 0°エ 4°ጜ11'17 0°≈ 0°米 16°米54'48 0°Y 0°ጜ 3°ጜ06'12 3°ጜ28'52 4°ጜ16'41 23°ጜ49'56 0°Ⅱ	-5°15'46 5°13'32 0.28841 AU -4.8m 46°19'27	minimum elong behind sun begin behind sun end max. Earth dist. evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58 170 Mar 23 j 13:23 170 Apr 17 j 14:15 170 May 13 j 07:01 170 Jun 09 j 03:33 170 Jul 04 j 06:01 170 Jul 06 j 03:25 170 Jul 08 j 18:36 170 Aug 13 j 00:43 170 Aug 22 j 04:08 170 Sep 08 j 23:11 170 Sep 12 j 03:35 170 Sep 12 j 03:35 170 Sep 12 j 03:53 170 Oct 14 j 05:55 170 Oct 27 j 06:31 170 Nov 09 j 01:23 170 Nov 22 j 21:23	2° \$\tilde{\pi}16'00 0° \$\tilde{\pi}53'15 3° \$\tilde{\pi}38'46 4° \$\tilde{\pi}18'04 0° \$\tilde{\pi}\$ 24° \$\tilde{\pi}50'07 0° \$\tilde{\pi}\$ 0° \$\tilde{\pi}\$ 0° \$\tilde{\pi}\$ 0° \$\tilde{\pi}\$ 21° \$\tilde{\pi}32'19 0° \$\tilde{\pi}\$ 0° \$\tilde{\pi}\$ 25° \$\tilde{\pi}44'53 27° \$\tilde{\pi}32'42 0° \$\tilde{\pi}\$ 24° \$\tilde{\pi}10'52 25° \$\tilde{\pi}41'51 19° \$\tilde{\pi}49'59 17° \$\tilde{\pi}54'31 17° \$\tilde{\pi}45'34 17° \$\tilde{\pi}24'44 15° \$\tilde{\pi}41'38 9° \$\tilde{\pi}57'58 12° \$\tilde{\pi}15'21 19° \$\tilde{\pi}37'37 0° \$\tilde{\pi}\$ 13° \$\tilde{\pi}21'08	0°02'58 1.71019 AU 45°42'39 -4.8m -8°29'19 8°28'49 0.27598 AU
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el asc. node desc. node superior conj minimum elong max. Earth dist.	167 May 31 j 12:53 167 Jun 08 j 15:33 167 Jun 11 j 07:16 167 Jun 26 j 19:37 167 Jul 02 j 17:18 167 Jul 02 j 07:44 167 Jul 02 j 19:51 167 Jul 07 j 19:39 167 Jul 24 j 08:40 167 Aug 04 j 02:50 167 Sep 10 j 18:53 167 Sep 10 j 18:53 167 Sep 29 j 18:45 167 Oct 09 j 00:01 167 Nov 03 j 17:16 167 Nov 28 j 10:47 167 Dec 22 j 18:37 168 Jan 15 j 23:20 168 Jan 19 j 08:22 168 Feb 09 j 03:55 168 Mar 04 j 09:38 168 Mar 18 j 02:21 168 Apr 24 j 14:38 168 Apr 24 j 12:00 168 Apr 24 j 13:34 168 May 11 j 11:38	14°521'42 16°517'55 16°525'59 11°549'54 8°518'33 8°533'22 8°514'37 5°513'44 0°502'33 2°508'08 0° Ω 1°Ω14'00 19°Ω45'09 0°™ 0° Д 0°™ 0° Д 0°™ 0° Д 1°° Н 16° Н 54'48 0° Υ 0° В 3° В 28'52 4° В 16'41 23° В 49'56	-5°15'46 5°13'32 0.28841 AU -4.8m 46°19'27	minimum elong behind sun begin behind sun end max. Earth dist. evening rise asc. node evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	169 Nov 24 j 16:06 169 Nov 23 j 13:48 169 Nov 25 j 18:24 169 Nov 26 j 06:53 169 Dec 16 j 17:13 170 Jan 05 j 12:23 170 Jan 09 j 15:23 170 Feb 02 j 16:45 170 Feb 26 j 23:15 170 Mar 16 j 13:58 170 Mar 23 j 13:23 170 Apr 17 j 14:15 170 May 13 j 07:01 170 Jun 09 j 03:33 170 Jul 04 j 06:01 170 Jul 06 j 03:25 170 Jul 08 j 18:36 170 Aug 13 j 00:43 170 Aug 22 j 04:08 170 Sep 08 j 23:11 170 Sep 12 j 03:35 170 Sep 12 j 03:35 170 Sep 12 j 03:55 170 Oct 14 j 05:55 170 Oct 27 j 06:31 170 Nov 09 j 01:23	2° ₹16'00 0° ₹53'15 3° ₹38'46 4° ₹18'04 0° ₹50'07 0° ≈ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° £ 0° £ 0° £ 0° £ 25° £2'19 0° £ 25° £2'42 0° ₹ 10'52 25° ₹41'51 19° ₹49'59 17° ₹54'31 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34 17° ₹45'34	0°02'58 1.71019 AU 45°42'39 -4.8m -8°29'19 8°28'49 0.27598 AU -4.9m

	171 Jan 28 j 23:12	0°ಕ			173 Aug 10 j 14:57	0∘ ত	
desc. node	171 Feb 15 j 20:19	21° る 32'28			173 Sep 07 j 06:15	0° M	
	171 Feb 22 j 20:04	0° ≈		evening max el	173 Sep 15 j 14:29	8°M26'35	46°56'41
	171 Mar 19 j 13:20	0° ∀		<i>S</i>	173 Oct 10 j 03:09	0° ∡ 7	
	171 Apr 13 j 05:01	0° Y		greatest brilliancy	173 Oct 26 j 06:58	9° ∡ 02'29	-4.9m
	171 May 07 j 19:35	0°B		retrograde	173 Nov 04 j 22:43	10° ҂ ¹49'00	
morning set	171 May 26 j 16:49	23° 8 04'49		evening set	173 Nov 19 j 06:40	6° ∡ ¹43'56	
	171 Jun 01 j 08:27	Π $^{\circ}0$		asc. node	173 Nov 23 j 18:16	4° ∡ ¹09'45	
asc. node	171 Jun 08 j 23:23	9° Ⅱ 20'35		inferior conj	173 Nov 25 j 11:26	3° ₰ 07'21	0°26'47
	171 Jun 25 j 18:44	0°€		minimum elong	173 Nov 25 j 10:25	3° ∡ ¹08'54	0°26'26
max. Earth dist.	171 Jun 28 j 21:06	3° 5 48'59	1.73348 AU	min. Earth dist.	173 Nov 25 j 05:54	3° ∡ 15'46	0.26358 AU
		_			173 Nov 30 j 18:44	30°RM₊	
superior conj	171 Jul 01 j 23:14	7° © 37'25	0°50'52	morning rise	173 Dec 01 j 14:14	29°M33'38	
minimum elong	171 Jul 01 j 14:57	7° © 11'53	0°50'32	direct	173 Dec 15 j 18:13	25°M31'36	4.0
	171 Jul 20 j 02:00	0°N		greatest brilliancy	173 Dec 25 j 17:09	27°M24'59	-4.9m
evening rise	171 Aug 06 j 20:58	22° Ω 02'36			173 Dec 31 j 11:56	0° ₰ 28° ₰ 06'48	46°40'40
	171 Aug 13 j 06:53	0 ்⊽ 0 ்மி		morning max el	174 Feb 04 j 00:17	28 × 00 48 0°る	40 40 40
desc. node	171 Sep 06 j 10:44 171 Sep 28 j 13:12	0 <u>₽</u> 27° ₽ 25'31			174 Feb 05 j 21:26 174 Mar 05 j 21:36	0°≈	
desc. node	171 Sep 28 j 15:12 171 Sep 30 j 15:03	0°M		desc. node	174 Mar 15 j 08:15	0 ∞ 10°≈38'24	
	171 Oct 24 j 21:05	0° ⊼ ¹		desc. node	174 Apr 01 j 04:41	0° \	
	171 Nov 18 j 06:34	0°ਤ			174 Apr 26 j 19:00	0° Υ	
	171 Dec 12 j 23:43	0° ≈			174 May 22 j 00:04	0°8	
	172 Jan 07 j 10:31	0° ₩			174 Jun 15 j 22:08	0°II	
asc. node	172 Jan 19 j 16:05	13° ¥ 50'36		asc. node	174 Jul 06 j 11:19	25° Ⅱ 00'05	
	172 Feb 03 j 16:31	0° Υ			174 Jul 10 j 13:21	0°€	
evening max el	172 Feb 09 j 17:21	6° Ƴ 08'08	46°15'26	morning set	174 Aug 02 j 09:30	28° 5 07'29	
	172 Mar 08 j 19:39	0° 8			174 Aug 03 j 21:52	$0^{\circ}\Omega$	
greatest brilliancy	172 Mar 19 j 15:30	5° 8 38'17	-4.8m		174 Aug 28 j 00:49	O° m y	
retrograde	172 Mar 30 j 09:00	7° 8 45'46		max. Earth dist.	174 Sep 05 j 07:12	10° m 19'33	1.71896 AU
evening set	172 Apr 15 j 09:48	2° 8 47'23					
	172 Apr 19 j 23:48	30° ₹ Υ		superior conj	174 Sep 08 j 11:37	14° m) 18'32	1°22'22
inferior conj	172 Apr 20 j 19:22	29° Y ′29'05	4°20'35	minimum elong	174 Sep 08 j 16:05	14° m 32'30	1°22'20
minimum elong	172 Apr 21 j 03:36	29° Y 16′04	4°18'31		174 Sep 21 j 00:16	0° ™	
min. Earth dist.	172 Apr 21 j 00:12	29° Υ 21'27	0.28932 AU		174 Oct 14 j 22:21	0°M	
morning rise	172 Apr 26 j 21:29	25° Y 46'58		evening rise	174 Oct 17 j 16:41	3°M28'06	
desc. node	172 May 10 j 05:35	21° Υ 16'08 21° Υ 10'59		desc. node	174 Oct 26 j 01:03	13°M56'25	
direct greatest brilliancy	172 May 12 j 07:56 172 May 22 j 13:29	23° Y 03'30	-4.7m		174 Nov 07 j 20:32 174 Dec 01 j 19:53	%₹°0 ℃₹	
greatest offinancy	172 Jun 04 j 22:03	0° 8	-4. /111		174 Dec 01 j 19.53 174 Dec 25 j 21:58	0°≈	
morning max el	172 Jun 30 j 01:54	20° 8 52'00	45°46'16		174 Dec 23 j 21:38 175 Jan 19 j 05:49	0° ∺	
morning max cr	172 Jul 09 j 08:32	0°Ⅱ	43 40 10		175 Feb 13 j 00:45	0° Υ	
	172 Aug 06 j 07:09	0°®		asc. node	175 Feb 16 j 04:02	3° Υ 44'22	
asc. node	172 Aug 31 j 09:01	28°957'46			175 Mar 10 j 15:39	0°8	
	172 Sep 01 j 06:03	$\mathfrak{O}^{\circ} \mathfrak{O}$			175 Apr 06 j 21:41	Π $^{\circ}0$	
	172 Sep 26 j 03:45	0° m)		evening max el	175 Apr 21 j 11:48	14° Ⅱ 41'47	45°21'11
	172 Oct 20 j 11:00	0∘ ত			175 May 08 j 21:14	$0 \circ \mathfrak{S}$	
	172 Nov 13 j 10:56	0° M		greatest brilliancy	175 May 29 j 04:09	12° © 11'40	-4.7m
	172 Dec 07 j 08:21	0° ∡ ¹		desc. node	175 Jun 07 j 17:38	14° © 14'37	
desc. node	172 Dec 20 j 22:33	17° ∡ ¹04'00		retrograde	175 Jun 08 j 23:35	14°9516'24	
morning set	172 Dec 30 j 14:52	29° ∡ 12'50		evening set	175 Jun 24 j 09:46	9°543'14	10.5017
	172 Dec 31 j 05:55	0° ප		inferior conj	175 Jun 30 j 09:27	6°508'36	
	173 Jan 24 j 04:56	0° ≈		minimum elong	175 Jun 30 j 00:10	6°923'02	
	172 E-L 00 : 21.52	20% -51106	1924/20	min. Earth dist.	175 Jun 30 j 11:29	6°905'27	0.28855 AU
superior conj minimum elong	173 Feb 09 j 21:52 173 Feb 09 j 18:23	20°≈51'06 20°≈40'15		morning rise	175 Jul 05 j 14:24 175 Jul 11 j 16:13	2° © 59'57 30°R Ⅱ	
max. Earth dist.	173 Feb 13 j 22:34		1.72106 AU	direct	175 Jul 22 j 01:33	27° II 52'36	
max. Lutin dist.	173 Feb 17 j 06:14	0° \	1.,2100 AU	greatest brilliancy	175 Aug 01 j 17:58	29° II 56'39	-4.8m
	173 Mar 13 j 10:41	0° Υ		greatest orintancy	175 Aug 01 j 21:34	0°9	
evening rise	173 Mar 21 j 05:37	9° Ƴ 37'09		morning max el	175 Sep 09 j 16:25	28° © 59'18	46°17'45
5 -	173 Apr 06 j 19:02	0°8		5	175 Sep 10 j 16:58	0°N	-
asc. node	173 Apr 13 j 01:51	7° 8 42'25		asc. node	175 Sep 28 j 20:49	19° Ω 03'24	
	173 May 01 j 07:48	\mathfrak{I}			175 Oct 08 j 15:56	0° m	
	173 May 26 j 01:32	0ංම			175 Nov 03 j 07:06	0∘ ⊽	
	173 Jun 20 j 01:40	0 $^{\circ}$ Ω			175 Nov 27 j 23:38	0° M	
	173 Jul 15 j 11:42	0° m			175 Dec 22 j 06:52	0° ∡	
desc. node	173 Aug 02 j 15:16	20° m 57'12			176 Jan 15 j 11:11	0°ප	

desc. node	176 Jan 18 j 10:35	3° る 41'31		greatest brilliancy	178 Aug 10 j 13:35	21° m 50'40	-1 8m
desc. node	176 Feb 08 j 15:27	0°≈		retrograde	178 Aug 19 j 17:01	23° m) 22'03	-4.0111
	176 Mar 03 j 20:55	0° ∺		evening set	178 Sep 06 j 14:23	17° m) 27'17	
morning set	176 Mar 15 j 17:18	14° ¥ 38′21		inferior conj	178 Sep 00 j 17:24	15° m 33'59	-8°34'41
morning sec	176 Mar 28 j 04:07	0° Υ		minimum elong	178 Sep 09 j 22:27	15° m) 26'15	
	176 Apr 21 j 13:03	0°8		min. Earth dist.	178 Sep 10 j 12:49	15° Mp 04'14	
	170 Apr 21 j 15.05	ů O		morning rise	178 Sep 13 j 06:14	13° m) 25'28	0.27000710
superior conj	176 Apr 22 j 07:44	0° 8 57'29	-0°41'26	direct	178 Sep 30 j 17:46	7° Mp 36'13	
minimum elong	176 Apr 22 j 15:33	1° 8 21'28		greatest brilliancy	178 Oct 11 j 21:09	9° m 54'28	-4.9m
max. Earth dist.	176 Apr 23 j 12:20	2° 8 25'20		asc. node	178 Oct 26 j 08:27	18° m) 19'17	4.7111
asc. node	176 May 10 j 13:38	23° 8 22'25	1.73462 AU	asc. node	178 Oct 20 j 08:27 178 Nov 09 j 06:27	0∘ ⊽	
asc. Houc	176 May 10 j 13:38 176 May 15 j 23:12	0°II		morning max el	178 Nov 09 j 00:27	0 = 10° £ 55'12	46°53'56
evening rise	176 May 13 j 23:12 176 May 28 j 21:44	15° ∏ 52'52		morning max ci	178 Nov 20 j 10:48 178 Dec 08 j 06:00	0°M	40 33 30
evening rise		13 п 3232				0 IIL 0° ∡ 7	
	176 Jun 09 j 09:57	0° U			179 Jan 03 j 08:15	0° X '	
	176 Jul 03 j 21:16			1 1	179 Jan 28 j 12:33		
	176 Jul 28 j 10:01	0° m)		desc. node	179 Feb 14 j 22:24	21° る 00'22	
	176 Aug 22 j 01:53	0° ⊽			179 Feb 22 j 08:32	0° ≈	
desc. node	176 Aug 30 j 03:20	9° ≏ 45'21			179 Mar 19 j 01:13	0° ∺	
	176 Sep 15 j 23:06	0° ™			179 Apr 12 j 16:28	0° Υ	
	176 Oct 11 j 05:35	0°×7			179 May 07 j 06:43	0° 8	
	176 Nov 06 j 07:51	0° ろ		morning set	179 May 24 j 11:00	20° 8 59'54	
evening max el	176 Nov 27 j 02:38	22° る 21'45	47°20'24		179 May 31 j 19:24	Π°	
	176 Dec 04 j 18:59	0° ≈		asc. node	179 Jun 08 j 01:33	8° Ⅱ 53'44	
asc. node	176 Dec 21 j 06:19	14° ≈ 23'42			179 Jun 25 j 05:38	0 \circ	
greatest brilliancy	177 Jan 06 j 12:32	24° ≈ 03′08	-4.9m	max. Earth dist.	179 Jun 26 j 18:26	1° © 53'21	1.73383 AU
retrograde	177 Jan 17 j 02:24	26° ≈ 10′51					
evening set	177 Feb 03 j 14:04	20° ≈ 10′09		superior conj	179 Jun 29 j 17:41	5° 5 32'48	0°48'19
min. Earth dist.	177 Feb 06 j 05:01	18° ≈ 32′08	0.27828 AU	minimum elong	179 Jun 29 j 09:36	5° © 07'53	0°48'00
inferior conj	177 Feb 07 j 01:03	18° ≈ 00′30	8°32'25		179 Jul 19 j 12:57	$0^{\circ}\Omega$	
minimum elong	177 Feb 06 j 21:14	18° ≈ 06'32	8°32'11	evening rise	179 Aug 04 j 14:33	19° Ω 54'07	
morning rise	177 Feb 10 j 04:43	16° ≈ 02'49			179 Aug 12 j 17:59	0° m y	
direct	177 Feb 27 j 21:24	10° ≈ 02'55			179 Sep 05 j 22:04	0∘ 亚	
greatest brilliancy	177 Mar 08 j 18:19	11° ≈ 31'29	-4.8m	desc. node	179 Sep 27 j 15:10	26° ♀ 55'42	
	177 Apr 06 j 11:06	0° ∀			179 Sep 30 j 02:41	0° M .	
desc. node	177 Apr 11 j 19:54	4°) 47′28			179 Oct 24 j 09:06	0° ∡ ″	
morning max el	177 Apr 18 j 00:38	10°) 37′21	45°58'39		179 Nov 17 j 19:08	0°ರ	
	177 May 07 j 02:37	0° Υ			179 Dec 12 j 13:11	0° ≈	
	177 Jun 03 j 10:04	0° ႘			180 Jan 07 j 01:47	0° ∀	
	177 Jun 29 j 10:57	0°II		asc. node	180 Jan 18 j 18:10	13°) €09'48	
	177 Jul 24 j 17:26	0°©		use. noue	180 Feb 03 j 12:35	0°Υ	
asc. node	177 Aug 02 j 23:11	11° 5 09'00		evening max el	180 Feb 07 j 07:52	3° Y 50'37	46°17'59
use. Houe	177 Aug 18 j 10:08	0° Ω		evening max er	180 Mar 10 j 02:14	0°8	10 17 37
	177 Sep 11 j 16:29	0° mp		greatest brilliancy	180 Mar 17 j 08:02	3° 8 27'45	-4.8m
	177 Oct 05 j 16:07	0° ت مالم		retrograde	180 Mar 28 j 01:49	5° 8 35'56	-4.0111
morning set	177 Oct 03 j 16:07	8° 요 41'08		evening set	180 Apr 13 j 04:39	0° 8 33'32	
morning set	177 Oct 12 j 14:00 177 Oct 29 j 12:29	0°M		evening set	180 Apr 14 j 03:36	30°RΥ	
	177 Oct 29 j 12.29	O IIG		inferior conj	180 Apr 14 j 05:30	27° Υ 18'51	4°37'30
superior conj	177 Nov 22 j 02:53	29°M43'36	0°01'00	minimum elong	180 Apr 18 j 20:24	27° Υ 05'18	4°35'23
minimum elong	177 Nov 22 j 02:33	29°M44'22	0°01'00	min. Earth dist.	180 Apr 18 j 16:27	27° Υ 11'31	0.28924 AU
_			0 01 00			23° Y 39'21	0.26924 AU
behind sun begin	177 Nov 21 j 00:40	28°M21'01		morning rise	180 Apr 24 j 12:14	23° 1 39 21 19° Y 01'17	
behind sun end	177 Nov 23 j 05:37	1° ∡ 707'42		desc. node	180 May 09 j 07:41	19° Y 01'17 19° Y 00'46	
1 1	177 Nov 22 j 08:06	0° ₹ 1.4/50		direct	180 May 09 j 23:48		4.7
desc. node	177 Nov 22 j 12:51	0° ∡ 14'59		greatest brilliancy	180 May 20 j 05:14	20° Y 53′27	-4.7m
max. Earth dist.	177 Nov 23 j 09:09	1° ∡ 18'50	1.71017 AU		180 Jun 05 j 17:31	0°8	45045155
	177 Dec 16 j 04:30	0°る		morning max el	180 Jun 27 j 18:23	18° 8 43'07	45°45'57
evening rise	178 Jan 02 j 22:26	22° る 15'50			180 Jul 09 j 03:45	0°II	
	178 Jan 09 j 02:43	0° ≈			180 Aug 05 j 21:54	0ංම	
	178 Feb 02 j 04:09	0° ∀		asc. node	180 Aug 30 j 11:02	28°525'12	
	178 Feb 26 j 10:49	0° Υ			180 Aug 31 j 19:01	0 $^{\circ}$ Ω	
asc. node	178 Mar 15 j 15:58	21° Y ′02'36			180 Sep 25 j 15:53	0° m)	
	178 Mar 23 j 01:16	0°B			180 Oct 19 j 22:41	0∘ ⊽	
	178 Apr 17 j 02:50	Π°			180 Nov 12 j 22:23	0° M	
	178 May 12 j 20:58	0°©			180 Dec 06 j 19:38	0° ∡ ¹	
	178 Jun 08 j 20:31	$0^{\circ}\Omega$		desc. node	180 Dec 20 j 00:45	16° ∡ ³35'49	
evening max el	178 Jul 01 j 18:47	23° Ω 24'24	45°40'41	morning set	180 Dec 28 j 00:49	26° ∡ ³38′28	
desc. node	178 Jul 05 j 05:34	26° Ω 39'46			180 Dec 30 j 17:04	0°ರ	
	178 Jul 08 j 21:03	0° m			181 Jan 23 j 15:58	0° ≈	

superior conj	181 Feb 07 j 10:15	18° ≈ 25'56	1922150	inferior conj	183 Jun 28 j 01:29	3° © 59'00	4942150
minimum elong	181 Feb 07 j 10:13	18°≈12'06		minimum elong	183 Jun 27 j 16:31	4°912'58	4°40'46
max. Earth dist.	181 Feb 07 j 03.49 181 Feb 11 j 09:50		1.72054 AU	min. Earth dist.	183 Jun 28 j 03:27	3°955'58	0.28872 AU
max. Earm dist.	181 Feb 16 j 17:11	23 ≈ 23 42 0° ∺	1.72034 AU	morning rise	183 Jul 28 j 03.27 183 Jul 03 j 08:56	0°946'23	0.28872 AU
	181 Mar 12 j 21:37	0° Υ		morning risc	183 Jul 04 j 18:27	0 3 4023	
evening rise	181 Mar 18 j 20:30	7° Υ 21'13		direct	183 Jul 19 j 18:00	25° ∏ 42'54	
evening rise	181 Apr 06 j 06:03	0° 8		greatest brilliancy	183 Jul 30 j 09:24	27° II 45'40	-4.8m
asc. node	181 Apr 00 j 00:03	7° 8 14'42		greatest offinaley	183 Aug 04 j 11:55	0°95	- 1 .0111
use. Houe	181 Apr 30 j 19:01	0°Ⅱ		morning max el	183 Sep 07 j 06:55	26°942'52	46°16'12
	181 May 25 j 13:08	0 ಲ್ಲಾ		morning max er	183 Sep 10 j 14:07	0° Ω	40 1012
	181 Jun 19 j 13:57	$0 {\circ} \Omega$		asc. node	183 Sep 27 j 22:51	18° Ω 22'33	
	181 Jul 15 j 01:11	0° m)		ase. Houe	183 Oct 08 j 07:25	0° m)	
desc. node	181 Aug 01 j 17:22	20° m) 20'44			183 Nov 02 j 20:33	0∘ ಹ	
dese. Hode	181 Aug 10 j 06:43	0° ي			183 Nov 27 j 12:06	0° ™	
	181 Sep 07 j 03:23	0° m ₊			183 Dec 21 j 18:46	0° ⊼ ¹	
evening max el	181 Sep 13 j 04:32	6°ML04'24	46°54'25		184 Jan 14 j 22:41	∘ੰਤ	
evening max er	181 Oct 11 j 04:50	0°×7	40 34 23	desc. node	184 Jan 17 j 12:33	3° る 12'05	
greatest brilliancy	181 Oct 23 j 19:32	6° ∡ 132'47	-4 9m	dese. Hode	184 Feb 08 j 02:39	0°≈	
retrograde	181 Nov 02 j 11:29	8° × 18'57	4.7111		184 Mar 03 j 07:52	0° ₩	
evening set	181 Nov 16 j 19:26	4° × 1037		morning set	184 Mar 13 j 08:17	12° ∺ 22'58	
inferior conj	181 Nov 22 j 23:26	0° × ¹³ 10	0°01'55	morning sec	184 Mar 27 j 14:53	0° Υ	
minimum elong	181 Nov 22 j 23:22	0° х 37'36'	0°01'54		10 1 11tar 27 j 1 1.55	0 1	
transit middle	181 Nov 22 j 23:22	0°×37'46	0°01'54	superior conj	184 Apr 20 j 01:00	28° Y ′50′18	-0°44'15
transit begin	181 Nov 22 j 19:19	0° х 43′55	0 0131	minimum elong	184 Apr 20 j 09:11	29° Υ 15'28	
transit end	181 Nov 23 j 03:25	0° х 1333		minimum crong	184 Apr 20 j 23:41	0°8	0 13 33
asc. node	181 Nov 22 j 20:29	0° х 42′09		max. Earth dist.	184 Apr 21 j 10:24	0° 8 32'57	1.73452 AU
min. Earth dist.	181 Nov 22 j 19:04	0° × ⁷ 44'18	0.26351 AU	asc. node	184 May 09 j 15:49	22° 8 56'34	1.75 152 110
mm. Earth dist.	181 Nov 24 j 00:16	30°RML	0.20331110	use. Houe	184 May 15 j 09:49	0°Ⅱ	
morning rise	181 Nov 29 j 03:25	27°ML02'53		evening rise	184 May 26 j 16:44	13° Ⅱ 51'06	
direct	181 Dec 13 j 06:57	23°ML02'07		evening rise	184 Jun 08 j 20:42	0°9	
greatest brilliancy	181 Dec 23 j 06:15	24°M56'19	-4.9m		184 Jul 03 j 08:17	$0^{\circ}\Omega$	
greatest offinaley	182 Jan 02 j 07:20	0° × 7	1.7111		184 Jul 27 j 21:28	0° m)	
morning max el	182 Feb 01 j 14:28	25° х 44'41	46°42'01		184 Aug 21 j 13:57	0∘ ⊽	
morning man vi	182 Feb 05 j 19:26	0°ਰ	.0 .2 01	desc. node	184 Aug 29 j 05:17	ა — 9° ჲ 14'03	
	182 Mar 05 j 13:35	0° ≈		dese. Hode	184 Sep 15 j 12:04	0° M	
desc. node	182 Mar 14 j 10:16	10° ≈ 01'33			184 Oct 10 j 20:01	0° ∡ 7	
dese. node	182 Mar 31 j 18:16	0° ∀			184 Nov 06 j 01:11	0° ਰ	
	182 Apr 26 j 07:20	0° Υ		evening max el	184 Nov 24 j 16:49	19° る 58'36	47°21'14
	182 May 21 j 11:43	0°8		evening man er	184 Dec 04 j 21:11	0° ≈	., 2.1.
	182 Jun 15 j 09:20	0°II		asc. node	184 Dec 20 j 08:24	13° ≈ 08'27	
asc. node	182 Jul 05 j 13:25	24° Ⅱ 32'56		greatest brilliancy	185 Jan 04 j 04:31	21° ≈ 43'33	-4.9m
	182 Jul 10 j 00:18	0°ಅ		retrograde	185 Jan 14 j 16:55	23° ≈ 50'03	.,,
morning set	182 Jul 31 j 02:29	25°958'05		evening set	185 Feb 01 j 02:16	17°≈54'04	
	182 Aug 03 j 08:41	0°N		min. Earth dist.	185 Feb 03 j 19:09	16° ≈ 13'08	0.27762 AU
	182 Aug 27 j 11:38	0° m/p		inferior conj	185 Feb 04 j 15:38	15° ≈ 40'48	8°28'18
max. Earth dist.	182 Sep 02 j 19:14	7° m) 53'18	1.71947 AU	minimum elong	185 Feb 04 j 11:03	15° ≈ 48'03	8°27'59
		, , , , , , , , , , , , , , , , , , , ,		morning rise	185 Feb 07 j 20:08	13° ≈ 41'45	0 =1 0 2
superior conj	182 Sep 06 j 02:52	12° Mp 02'10	1°23'06	direct	185 Feb 25 j 10:57	7° ≈ 44'21	
minimum elong	182 Sep 06 j 06:34	12° m) 13'44		greatest brilliancy	185 Mar 06 j 08:06	9°≈12'48	-4.8m
	182 Sep 20 j 11:10	0∘ <u>⊽</u>		8	185 Apr 06 j 15:27	0° \	
	182 Oct 14 j 09:24	0° M		desc. node	185 Apr 10 j 21:57	3° ¥ 53'40	
evening rise	182 Oct 15 j 04:11	0°ML58'57		morning max el	185 Apr 15 j 13:52	8° ₩ 18'46	45°59'55
desc. node	182 Oct 25 j 03:07	13°M28'05			185 May 06 j 19:46	0° Υ	
	182 Nov 07 j 07:44	0° ∡ ¹			185 Jun 02 j 23:54	0°8	
	182 Dec 01 j 07:16	0°ප			185 Jun 28 j 23:17	0°II	
	182 Dec 25 j 09:33	0° ≈			185 Jul 24 j 04:59	0°9	
	183 Jan 18 j 17:47	0° ₩		asc. node	185 Aug 02 j 01:11	10°9540'35	
	183 Feb 12 j 13:25	$0^{\circ}\Upsilon$			185 Aug 17 j 21:18	0°N	
asc. node	183 Feb 15 j 06:03	3° Υ 12'22			185 Sep 11 j 03:29	0° m)	
	183 Mar 10 j 05:49	0°8			185 Oct 05 j 03:04	0∘ <mark>ಹ</mark> ಂ.ಗ	
	183 Apr 06 j 15:39	0°II		morning set	185 Oct 10 j 02:54	° ≏ 16'26	
evening max el	183 Apr 19 j 04:05	12° II 32'40	45°21'49		185 Oct 28 j 23:25	0° M .	
2. J.	183 May 09 j 09:03	0°9	.5 21 17		100 000 20 j 20.20	Ų IIW	
greatest brilliancy	183 May 26 j 19:50	10°902'30	-4.7m	superior conj	185 Nov 19 j 12:35	27° M L08'37	0°05'02
retrograde	183 Jun 06 j 15:11	10 3 02 30		minimum elong	185 Nov 19 j 13:55	27°M12'50	0°04'57
desc. node	183 Jun 06 j 19:47	12°906'59		behind sun begin	185 Nov 18 j 12:26	25°M52'34	
evening set	183 Jun 21 j 23:56	7°936'36		behind sun end	185 Nov 18 j 12:20 185 Nov 20 j 15:25	28°M33'05	
J. Ching Sec	100 tun 21 j 25.50	, -3030		ounia san ena	100 1.07 20 j 10.20	_0 11 0 33 03	

E d F d	105 N 20 : 11 15	200 M 10150	1 71015 ATT	1 1	100 M 00:00 52	1.600052100	
max. Earth dist.	185 Nov 20 j 11:15	28°M19'59	1.71015 AU	desc. node	188 May 08 j 09:53	16° Y 52'00	
desc. node	185 Nov 21 j 15:02	29°M47'26		greatest brilliancy	188 May 17 j 20:20	18° Y 43′29	-4.7m
	185 Nov 21 j 19:02	0° ∡			188 Jun 06 j 07:38	0° 8	
	185 Dec 15 j 15:27	0° ප		morning max el	188 Jun 25 j 11:33	16° 8 36'42	45°45'40
evening rise	185 Dec 31 j 08:21	19° る 42'11			188 Jul 08 j 22:10	Π $\circ 0$	
	186 Jan 08 j 13:43	0° ≈			188 Aug 05 j 12:12	0 \circ \odot	
	186 Feb 01 j 15:13	0° ∀		asc. node	188 Aug 29 j 13:07	27° © 53'41	
	186 Feb 25 j 22:02	$0^{\circ}\mathbf{\Upsilon}$			188 Aug 31 j 07:40	$0^{\circ}\Omega$	
asc. node	186 Mar 14 j 18:02	20° Ƴ 34'05			188 Sep 25 j 03:44	0° m	
	186 Mar 22 j 12:50	0°8			188 Oct 19 j 10:09	0∘ <u>⊽</u>	
	186 Apr 16 j 15:06	0°II			188 Nov 12 j 09:40	0° M	
		0ංම 0 ස			188 Dec 06 j 06:49	0° ⊼ ¹	
	186 May 12 j 10:40			1 1			
	186 Jun 08 j 13:24	0°N		desc. node	188 Dec 19 j 02:47	16° ∡ 707'16	
evening max el	186 Jun 29 j 07:49	21° Ω 05'57	45°38'45	morning set	188 Dec 25 j 10:23	24° ₹ 03'04	
desc. node	186 Jul 04 j 07:35	25° Ω 46'37			188 Dec 30 j 04:09	0°₹	
	186 Jul 09 j 00:34	0° m			189 Jan 23 j 02:57	0° ≈	
greatest brilliancy	186 Aug 08 j 01:39	19° m 30'49	-4.8m				
retrograde	186 Aug 17 j 06:19	21°M)03'22		superior conj	189 Feb 04 j 21:59	15° ≈ 58'44	-1°23'00
evening set	186 Sep 04 j 05:09	15° m 05'55		minimum elong	189 Feb 04 i 16:37	15° ≈ 41'59	1°22'57
inferior conj	186 Sep 07 j 07:09	13° m) 14'14	-8°39'01	max. Earth dist.	189 Feb 08 j 21:48	20°≈57'26	1.71999 AU
minimum elong	186 Sep 07 j 11:23	13° m) 07'44		max. Dartii dist.	189 Feb 16 j 04:04	0°) €	1.717777110
•	186 Sep 08 j 02:17					0° Υ	
min. Earth dist.	1 3	12° m/44'57	0.27729 AU		189 Mar 12 j 08:28		
morning rise	186 Sep 10 j 17:23	11° m)09'41		evening rise	189 Mar 16 j 10:55	5° Y 04'09	
direct	186 Sep 28 j 08:00	5° Mp 15'10			189 Apr 05 j 16:58	0° 8	
greatest brilliancy	186 Oct 09 j 12:14	7° m 34'14	-4.9m	asc. node	189 Apr 11 j 06:02	6° 8 47'55	
asc. node	186 Oct 25 j 10:41	17° m 04'19			189 Apr 30 j 06:08	Π $^{\circ}0$	
	186 Nov 09 j 09:35	0∘ ऌ			189 May 25 j 00:39	0 \circ \odot	
morning max el	186 Nov 18 j 01:15	8° ₤ 32'32	46°53'25		189 Jun 19 j 02:11	$0^{\circ}\Omega$	
Ü	186 Dec 07 j 23:30	0°M			189 Jul 14 j 14:39	0° m)	
	187 Jan 02 j 22:43	0° ∡ ¹		desc. node	189 Jul 31 j 19:23	19° m 44'15	
	187 Jan 28 j 01:33	°ਤ ਹ°ਤ		desc. Hode	189 Aug 09 j 22:34	0° ت	
11.						0° m	
desc. node	187 Feb 14 j 00:26	20° පි 29'13			189 Sep 07 j 01:04		4.60.50100
	187 Feb 21 j 20:39	0° ≈		evening max el	189 Sep 10 j 19:02	3°M44'02	46°52'03
	187 Mar 18 j 12:43	0° ∀			189 Oct 12 j 16:18	0° ∡ 7	
	187 Apr 12 j 03:33	0° Y		greatest brilliancy	189 Oct 21 j 08:21	4° ₰ 04'20	-4.9m
	187 May 06 j 17:31	9° 8		retrograde	189 Oct 31 j 00:06	5° ∡¹ 49'31	
morning set	187 May 22 j 05:22	18° 8 56'29		evening set	189 Nov 14 j 08:35	1° ∡ 743′12	
	187 May 31 j 06:03	$\Pi^{\circ}0$			189 Nov 17 j 09:40	30°RM₊	
asc. node	187 Jun 07 j 03:39	8° Ⅱ 27'39		inferior conj	189 Nov 20 j 11:33	28°ML08'43	-0°22'46
max. Earth dist.	187 Jun 24 j 17:21		1.73414 AU	minimum elong	189 Nov 20 j 12:25	28°ML07'24	
max. Larm dist.	187 Jun 24 j 17:21	0°9	1./5414 AO	min. Earth dist.			0.26351 AU
	18/Juli 24 J 10.14	0 29			189 Nov 20 j 08:28	28°M13'25	0.20331 AU
				asc. node	189 Nov 21 j 22:31	27°M15'43	
superior conj	187 Jun 27 j 12:23	3° © 29'52	0°45'44	morning rise	189 Nov 26 j 16:25	24°M32'51	
minimum elong	187 Jun 27 j 04:32	3° © 05'43	0°45'25	direct	189 Dec 10 j 19:48	20°M33'22	
	187 Jul 18 j 23:36	$0^{\circ}\Omega$		greatest brilliancy	189 Dec 20 j 19:33	22°M28'05	-4.9m
evening rise	187 Aug 02 j 08:30	17° Ω 47'44			190 Jan 03 j 13:04	0° ∡ ¹	
	187 Aug 12 j 04:47	0° m)		morning max el	190 Jan 30 j 04:07	23° ҂ ¹20'56	46°43'07
	187 Sep 05 j 09:07	0∘ ত		_	190 Feb 05 j 16:41	0°ರ	
desc. node	187 Sep 26 j 17:19	26° £ 27'06			190 Mar 05 j 05:24	0° ≈	
	187 Sep 29 j 14:07	0°M		desc. node	190 Mar 13 j 12:22	9° ≈ 24'58	
	187 Oct 23 j 21:00	0° ∡ 7		acce. node	190 Mar 31 j 07:50	0° ∺	
	-					0° Υ	
	187 Nov 17 j 07:38	0° ට			190 Apr 25 j 19:41		
	187 Dec 12 j 02:37	0° ≈			190 May 20 j 23:20	0°8	
	188 Jan 06 j 17:06	0° ∀			190 Jun 14 j 20:30	$\Pi^{\circ}0$	
asc. node	188 Jan 17 j 20:11	12°) €28'53		asc. node	190 Jul 04 j 15:23	24° Ⅱ 05'30	
	188 Feb 03 j 09:05	0 ° Υ			190 Jul 09 j 11:13	0 \circ \odot	
evening max el	188 Feb 04 j 23:12	1° Ƴ 35'42	46°20'48	morning set	190 Jul 28 j 19:40	23° 5 49'21	
	188 Mar 11 j 22:54	0° ႘			190 Aug 02 j 19:31	$0^{\circ}\Omega$	
greatest brilliancy	188 Mar 15 j 00:20	1° 8 17'47	-4.8m		190 Aug 26 j 22:29	0° m	
retrograde	188 Mar 25 j 19:07	3° 8 26'49		max. Earth dist.	190 Aug 31 j 06:00	5° Mp 23'07	1.71998 AU
10110grade		30°RΥ		man. Durin dist.	170 mag 31 J 00.00	J 111/230/	1.,1770 AU
avanirt	188 Apr 07 j 22:13			aumani ·	100 0 02:10.26	00 m. 47100	1022141
evening set	188 Apr 10 j 23:38	28° Y 20′24	4052150	superior conj	190 Sep 03 j 18:36	9° Mp 47'22 9° Mp 56'31	1°23'41 1°23'39
		250000000		minimum alana	100 Son (12 : 21 : 22)	U~ IIN 56'21	1~74'40
inferior conj	188 Apr 16 j 04:17	25° Y 09'17	4°53'58	minimum elong	190 Sep 03 j 21:32		1 23 39
minimum elong	188 Apr 16 j 04:17 188 Apr 16 j 13:10	24° Y 55'15	4°51'50		190 Sep 19 j 22:06	0∘ ⊽	1 23 39
minimum elong min. Earth dist.	188 Apr 16 j 04:17 188 Apr 16 j 13:10 188 Apr 16 j 08:22	24° Υ 55'15 25° Υ 02'50		evening rise	190 Sep 19 j 22:06 190 Oct 12 j 16:13	0° ჲ 28° ჲ 31'30	1 23 39
minimum elong	188 Apr 16 j 04:17 188 Apr 16 j 13:10	24°Y55'15 25°Y02'50 21°Y32'40	4°51'50		190 Sep 19 j 22:06	0∘ ⊽	1 23 39
minimum elong min. Earth dist.	188 Apr 16 j 04:17 188 Apr 16 j 13:10 188 Apr 16 j 08:22	24° Υ 55'15 25° Υ 02'50	4°51'50		190 Sep 19 j 22:06 190 Oct 12 j 16:13	0° ჲ 28° ჲ 31'30	1 23 39

	190 Nov 06 j 18:56	0° ∡ ¹			193 Jun 02 j 13:55	9° 8	
	190 Nov 30 j 18:39	0°ಕ			193 Jun 28 j 11:52	Π $^{\circ}0$	
	190 Dec 24 j 21:13	0° ≈			193 Jul 23 j 16:48	0ං ව	
	191 Jan 18 j 05:53	0° ∀		asc. node	193 Aug 01 j 03:20	10° © 11'46	
	191 Feb 12 j 02:18	0° Υ			193 Aug 17 j 08:43	$0 {\circ} \Omega$	
asc. node	191 Feb 14 j 08:08	2° Y 39'56			193 Sep 10 j 14:43	0° m y	
	191 Mar 09 j 20:20	0°B			193 Oct 04 j 14:14	0∘ ত	
	191 Apr 06 j 10:18	Π $^{\circ}0$		morning set	193 Oct 07 j 15:56	3° £ 51'25	
evening max el	191 Apr 16 j 19:42	10° Ⅲ 21′18	45°22'39		193 Oct 28 j 10:36	0° M	
	191 May 10 j 01:10	0 \circ \odot					
greatest brilliancy	191 May 24 j 12:02	7° © 53'37	-4.7m	superior conj	193 Nov 16 j 22:23	24°M33'02	0°09'00
retrograde	191 Jun 04 j 06:39	9° © 57'50		minimum elong	193 Nov 17 j 00:47	24°M40'35	0°08'53
desc. node	191 Jun 05 j 21:45	9° © 54'46		behind sun begin	193 Nov 16 j 02:17	23°M29'42	
evening set	191 Jun 19 j 14:24	5° 5 29'42		behind sun end	193 Nov 17 j 23:18	25°M51'28	
inferior conj	191 Jun 25 j 17:42	1° 5 349'36	-4°26'02	max. Earth dist.	193 Nov 17 j 15:56	25°M28'18	1.71018 AU
minimum elong	191 Jun 25 j 09:05	2° 5 03'02	4°23'51	desc. node	193 Nov 20 j 17:01	29°M18'19	
min. Earth dist.	191 Jun 25 j 19:53	1°9546'12	0.28885 AU		193 Nov 21 j 06:15	0° ∡ ¹	
	191 Jun 28 j 16:35	30° Ŗ Ⅱ			193 Dec 15 j 02:42	0°₹	
morning rise	191 Jul 01 j 03:32	28° Ⅲ 33'09		evening rise	193 Dec 28 j 18:24	17° පි 08'00	
direct	191 Jul 17 j 10:04	23° Ⅲ 33'15		Ü	194 Jan 08 j 00:59	0° ≈	
greatest brilliancy	191 Jul 28 j 01:30	25° Ⅱ 35'24	-4.8m		194 Feb 01 j 02:32	0° ₩	
8	191 Aug 06 j 02:53	0° ©			194 Feb 25 j 09:31	0° Υ	
morning max el	191 Sep 04 j 21:08	24° © 25'32	46°14'42	asc. node	194 Mar 13 j 20:12	20° Y ′05′04	
moning man vi	191 Sep 10 j 10:39	0°Ω	.0 12	use. noue	194 Mar 22 j 00:42	0°8	
asc. node	191 Sep 27 j 01:01	17° Ω 42'12			194 Apr 16 j 03:44	0°II	
use. Houe	191 Oct 07 j 22:47	0° m)			194 May 12 j 00:50	0°©	
	191 Nov 02 j 10:01	0° ت			194 Jun 08 j 07:01	$0 {\circ} \Omega$	
	191 Nov 27 j 00:36	0° m		evening max el	194 Jun 26 j 22:03	18° Ω 49'33	45°36'59
	191 Dec 21 j 06:42	0° ⊼ ¹		desc. node	194 Jul 03 j 09:39	24° Ω 51'32	43 3037
	192 Jan 14 j 10:15	% 5°0		desc. node	194 Jul 09 j 06:24	0° m)	
desc. node	192 Jan 16 j 14:36	2°る42'38		greatest brilliancy	194 Aug 05 j 13:18	17° m) 10'04	-4.8m
desc. Hode	192 Feb 07 j 13:57	2° ≈		retrograde	194 Aug 14 j 20:14	18° m) 44'18	-4.0111
	192 Mar 02 j 18:59	0° ∺		evening set	194 Aug 14 j 20:14 194 Sep 01 j 19:40	13 mp 44 13 12° mp 44'50	
morning set	192 Mar 10 j 23:04	0 X 10° X 06'15		inferior conj	194 Sep 04 j 21:03	12 mg 44 30 10° mg 54'06	0042122
morning set	192 Mar 27 j 01:51	10 γ (00 13		minimum elong	194 Sep 04 j 21:03 194 Sep 05 j 00:27	10° m) 48'54	
	192 Wai 27 J 01.51	0 1		min. Earth dist.	194 Sep 05 j 15:27	10° Mp 25'59	0.27794 AU
superior conj	192 Apr 17 j 18:04	26° Ƴ 41'44	0°47'00	morning rise	194 Sep 08 j 05:01	8° Mp 53'03	0.27794 AU
minimum elong	192 Apr 17 j 18:04 192 Apr 18 j 02:35	27° Y 07'58		direct			
max. Earth dist.			1.73421 AU		194 Sep 25 j 22:52 194 Oct 07 j 02:48	2° Mp 54'00	4.0
max. Earth dist.	192 Apr 19 j 05:58	0° 8	1./3421 AU	greatest brilliancy		5° m 13'05	-4.9111
asa nada	192 Apr 20 j 10:33			asc. node	194 Oct 24 j 12:45 194 Nov 09 j 11:30	15° Mp 50'43 0° <u> </u>	
asc. node	192 May 08 j 17:52	22° 8 29'33 0°П					46953141
	192 May 14 j 20:40			morning max el	194 Nov 15 j 16:36	6° £ 11'37	40-52-41
evening rise	192 May 24 j 11:27	11° ∏ 47'49 0° ©			194 Dec 07 j 16:55	0° ™ 0° ∡ 7	
	192 Jun 08 j 07:40	0°€ 0°€			195 Jan 02 j 13:21	0° X '	
	192 Jul 02 j 19:32			4 4-	195 Jan 27 j 14:47	0 る 19° る 57'26	
	192 Jul 27 j 09:09	0° ರ 0° ™		desc. node	195 Feb 13 j 02:33		
1 1-	192 Aug 21 j 02:17	0° 22 8° Ω 42'34			195 Feb 21 j 09:01	0° ≈ 0° ∀	
desc. node	192 Aug 28 j 07:25				195 Mar 18 j 00:29 195 Apr 11 j 14:54	0 Υ 0° Υ	
	192 Sep 15 j 01:20	0°M 0°. 7			1 3	0° 8	
	192 Oct 10 j 10:51	0° ∡ ¹			195 May 06 j 04:36		
	192 Nov 05 j 19:09	0°る	47922102	morning set	195 May 19 j 23:51	16° 8 52'31	
evening max el	192 Nov 22 j 06:34	17° る 33'45	4/22/03	1	195 May 30 j 17:00	0°II	
1	192 Dec 05 j 01:12	0°≈ 110~~50!20		asc. node	195 Jun 06 j 05:38	8° I 100'14	1 72445 ATT
asc. node	192 Dec 19 j 10:24	11°≈50′20	4.0	max. Earth dist.	195 Jun 22 j 16:32		1.73445 AU
greatest brilliancy	193 Jan 01 j 20:27	19°≈23'18	-4.9m		195 Jun 24 j 03:09	0ං ව	
retrograde	193 Jan 12 j 07:26	21°≈29'00			105 1 25 : 07 01	10005140	00.4210.5
evening set	193 Jan 29 j 14:12	15°≈37'52	0.07/07 411	superior conj	195 Jun 25 j 07:01	1°525'49	
min. Earth dist.	193 Feb 01 j 09:26	13°≈53'37		minimum elong	195 Jun 24 j 23:29	1°902'36	U~42'46
inferior conj	193 Feb 02 j 06:16	13°≈20'44			195 Jul 18 j 10:35	0° Ω	
minimum elong	193 Feb 02 j 00:55	13°≈29'10	8°22'54	evening rise	195 Jul 31 j 02:24	15° Ω 40'13	
morning rise	193 Feb 05 j 11:55	11°≈19'59			195 Aug 11 j 15:55	0° Mp	
direct	193 Feb 23 j 00:16	5°≈25'12	4.0		195 Sep 04 j 20:31	0° ⊽	
greatest brilliancy	193 Mar 03 j 22:13	6°≈54'03	-4.8m	desc. node	195 Sep 25 j 19:24	25° £ 57'17	
1 1	193 Apr 06 j 18:22	0° \			195 Sep 29 j 01:52	0° M 0°. ₹	
desc. node	193 Apr 10 j 00:10	3°) €00'44	46001100		195 Oct 23 j 09:13	0° ∡ ¹	
morning max el	193 Apr 13 j 03:38	6° ∺ 00′39	46°01'08		195 Nov 16 j 20:29	5°0	
	193 May 06 j 12:52	0° Ƴ			195 Dec 11 j 16:29	0° ≈	

Second 196		196 Jan 06 j 09:01	0° ∀			198 Jun 14 j 07:49	0° I I	
control 60 Feb 0.0 10 cm 60 Teb 0.0 10 cm 60 Teb 0.0 10 cm 60 Teb 0.0 10 cm 10 Teb 0.0 10 cm	asc node	-			asc node			
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generate Familian 9.96 Mar 13 jul 2-19 (2.2) 10% May	evening max er	-		40 23 34	morning set			
196 Mar 15 1973 1974 1720 1721 1720 1	greatest brilliancy			-4.8m	morning set			
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evening 49 79 70 40 30 70 70 10 80 70 20 70 10 <t< td=""><td>retrograde</td><td>·</td><td></td><td></td><td>max. Earth dist.</td><td>190 Hug 20 J 10.55</td><td>2 11,001</td><td>1.72030710</td></t<>	retrograde	·			max. Earth dist.	190 Hug 20 J 10.55	2 11,001	1.72030710
inferior coriginisment colors 98 Apr 14 j 0.004 227°VST18 507053 eventagrise 98 See p 19 j 0.1 st. 8 78 y 0.00 j 0.1 st. 8 78 y 0.00 j 0.00 st. 1 0.00 j 0.00 j 0.00 st. 1 0.00 j 0.00 j 0.00 j 0.00 st. 1 0.00 j 0	evening set	-			superior coni	198 Sep. 01 i 10:28	7° m 32'42	1°24'06
minmednoden min Farb dist	•			5°10'00			-•	
min. Enth disk. 196 Apr 14 j 0.002 22*P3 y 18 0.2889 S AU evening rise 198 Cot 19 j 10*1 26*P3 10*2 10*8 Cot 19 j 10*4 Cot 10 10% Cot 19 j 10*4 Cot 10 Cot 10 10% Cot 10 Cot 10 10% Cot 10 Cot 10 Cot 10 10% Cot 10 Cot 10 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
morning real (minor) 196 Aby of pi 17-13 (minor) 19°PC250 (minor) ces and to 196 Aby of pi 14-88 (minor) 14°PC410-3 (minor) ces and to 196 Aby of pi 14-88 (minor) 42°PC410-3 (minor) ces and to 196 Aby of pi 14-88 (minor) 42°PC410-3 (minor) ces and to 198 Aby of pi 06-20 (minor) 0°PC (minor) 198 Nov 06 (00.20) 0°PC (minor) 0°PC (m	Č			0.28895 AU	evening rise		26° ഫ 03'28	
direct 196 May 0 15 0.83 4 44°P4106 are condense. and one of 196 May 15 10.48 14°P4203 are conting max 196 May 15 10.48 14°P423 are conting max 196 May 15 10.48 14°P423 are conting max 196 May 18 10.48 21°P423 are condense. A	morning rise				C			
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196 Aug 05 16-25 0°II 197 198 Aug 05 11-15-23 0°P 198 Aug 05 11-15-23 0	morning max el		14° 8 28'50	45°45'19		199 Jan 17 j 18:10	0° ∀	
Best 196 kmg 28 j 1516 27° 22'13' 30° 10' 190 kmg 10' 110' 110' 110' 110' 110' 110' 110'	-	-	$\Pi^{\circ}0$			199 Feb 11 j 15:23	0 ° \mathbf{Y}	
190		196 Aug 05 j 02:40	0°ಅ		asc. node		2° Y 07'13	
Part	asc. node	196 Aug 28 j 15:16	27° 5 21'34			199 Mar 09 j 11:07	0°8	
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196	desc. node	-	15° ∡ ³38′00		desc. node		7° © 37'39	
superior conj 197 Jan 2 2 j 14:09 0°∞ inferior conj 199 Jan 23 j 01:43 29° 114007 4°08'44 superior conj 197 Feb 02 j 09:32 13° 33006 - 1°22'01 minimum elom 199 Jan 23 j 11:28 29° 115'07 4°06'36 max. Earth dist. 197 Feb 02 j 03:16 13° 38'03'2 12'15'6 morning rise 199 Jan 28 j 12:23 26° 1120'07 197 Feb 15 j 15:13 0° H direct 199 Jan 15 j 14:50 28° 1125'3 48m evening rise 197 Mar 14 j 01:12 2° 4'45'3' morning max el 199 Sep 02 j 11:24 22° 28'08'3 46° 13'17 asc. node 197 Apr 10 j 08:04 0° 8' morning max el 199 Sep 26 j 30:30 1° 20'02'07 - asc. node 197 Apr 10 j 08:04 0° 8' asc. node 199 Sep 26 j 30:30 1° 20'02'07 - 199 Sep 26 j 30:30 1° 20'02'07 -	morning set	-	21° ∡ ¹26'53		evening set	199 Jun 17 j 04:58	3° © 22'15	
superior on minimum elong minimum		196 Dec 29 j 15:27	0°ප			199 Jun 22 j 21:08	30°R Ⅱ	
superior conj 197 Feb 02 j0 3:2 13°as/10°3 1°2201 minimal clanth dist. 199 Jun 28 j 22:08 29°II 5607 0.28897 AU minimum clong 197 Feb 02 j0 3:16 13°as/10°3 1°2156 morning rise 199 Jun 28 j 22:03 26°II 2007 - 197 Feb 15 j15:13 0°Y 199 Aug 07 j 06:02 2°2°II 25°S 4.8m evening rise 197 Mar 14 j01:12 2°°4°Y373 morning max el 199 Sep 10 j 06:30 0°Q 4°81°17 asc. node 197 Apr 10 j 08:04 6°81949 asc. node 199 Sep 10 j 06:30 0°Q 1°74°10 j 08:04 6°81949 asc. node 199 Nov 0 j 13:36 0°Q 1°74°10 j 08:04 6°81949 asc. node 199 Nov 0 j 13:36 0°Q 1°74°10 j 08:04 0°Q 1°74°10 j 08:04 0°Q 1°97°10 j 08:04 0°Q 1°97°10 j 08:04 0°Q 1°97°10 j 08:04 0°Q 0°Q 0°Q 1°97°10 j 09:04 0°Q		197 Jan 22 j 14:09	0° ≈		inferior conj	199 Jun 23 j 09:53	29° Ⅱ 40′07	-4°08'44
minimum elong 197 Feb 0cj j 03:16 13%≈1032 1°2156 moming rise 199 Jun 28 j 22:03 26° II 2007 Homas. Earth dist. 197 Feb 0cj j 11:07 18°≈43'30 1.71946 AU direct 199 Jul 1 5j 11:45 22° II 22° II 4.8m evening rise 197 Mar 1 1 j 19:36 0° Y morning max el 199 Aug 07 j 06:02 0° S -4.8m asc. node 197 Apr 10 j 08:04 6° 8 19/49 see node 199 Sep 10 j 06:30 0° Ω 0° Ω asc. node 197 Apr 10 j 08:04 6° 8 19/49 see node 199 Nov 0 j j 23:23 0° Ω 0° Ω 197 Apr 29 j 17:30 0° II see node 199 Nov 0 j j 23:23 0° Ω 0° Ω 0° Ω 0° Ω 199 Nov 0 j j 23:23 0° Ω					minimum elong	199 Jun 23 j 01:40	29° Ⅱ 52'57	4°06'36
max. Earth dist. 197 Feb 16 j 11:07 18≈3430 1.71946 AU direct 199 Jul 15 j 16:45 2° I2325 -8m eVening rise 197 Feb 15 j 15:13 0° Y morning max el 199 Jul 25 j 18:06 2° I23255 -8m evening rise 197 Mar 14 j 01:12 2° Y4537 morning max el 199 Sep 10 j 06:02 0° Ω asc. node 197 Apr 05 j 04:09 0° Ø asc. node 199 Sep 26 j 06:30 17° Ω0:07 197 Apr 29 j 17:30 0° I sc. node 199 Sep 26 j 06:30 17° Ω0:07 197 Apr 29 j 17:30 0° I 199 Nov 0 j 03:23 0° I 197 Jul 14 j 04:29 0° Ø 199 Nov 0 j 03:23 0° I desc. node 197 Jul 14 j 04:29 0° Ø 199 Nov 0 j 03:23 0° I evening max el 197 Sep 07 j 00:00 0° I 0° I 200 Jan 15 j 15:64 0° Z evening max el 197 Sep 08 j 09:05 1° II 21'41 46° 49'27 morning set 200 Jan 15 j 15:64 0° X greatest brilliane 197 Oct 14 j 23:12 0° X 1 0° Mar 03 j 13:18	superior conj	197 Feb 02 j 09:32	13° ≈ 30′06	-1°22'01	min. Earth dist.	199 Jun 23 j 12:28	29° Ⅱ 36′07	0.28897 AU
197 Feb 15 j 15:13 0°H 197 Mar 11 j 19:36 0°P 199 Aug 07 j 06:02 0°B 197 Mar 11 j 19:36 0°P 199 Aug 07 j 06:02 0°B 198 Cap 10 j 06:30 0°B 198 Cap 10 j 06:3	minimum elong	197 Feb 02 j 03:16	13° ≈ 10'32	1°21'56	morning rise	199 Jun 28 j 22:03	26° Ⅲ 20′07	
evening rise	max. Earth dist.	197 Feb 06 j 11:07	18° ≈ 34'30	1.71946 AU	direct	199 Jul 15 j 01:45	21° Ⅲ 23′25	
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asc. node		197 Mar 11 j 19:36	0 \circ Υ			199 Aug 07 j 06:02	0 \circ \odot	
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inferior conj 202 Sep 02 j 10:54 8° m/34'49 -8° 44'58 205 Mar 11 j 06:19 0° Υ minimum elong 202 Sep 02 j 13:27 8° m/30'55 8° 44'53 evening rise 205 Mar 11 j 15:33 0° Υ 28'34 min. Earth dist. 202 Sep 03 j 04:21 8° m/08'09 0.27854 AU 205 Apr 04 j 14:57 0° ௧ morning rise 202 Sep 05 j 16:53 6° m/36'44 asc. node 205 Apr 09 j 10:05 5° ₺52'50 direct 202 Sep 23 j 14:04 0° m/33'56 205 Apr 29 j 04:31 0° II greatest brilliancy 202 Oct 04 j 16:41 2° m/52'09 -4.9m 205 May 23 j 23:50 0° II asc. node 202 Oct 23 j 14:42 14° m/39'959 205 Jul 18 j 02:53 0° Ω asc. node 202 Nov 09 j 11:43 0° Ω 205 Jul 13 j 18:06 0° m/0 morning max el 202 Nov 13 j 07:53 3° Ω 51'50 46° 52'01 desc. node 205 Jul 13 j 18:06 0° m/0 desc. node 203 Jan 02 j 03:25 0° X evening max el 205 Sep 05 j 22:09 28° Δ57'55 46° 46'47 203 Feb 12 j 04:36 19°	•				max. Earth dist.	-		1./1090 AU
minimum elong 202 Sep 02 j 13:27 8° ₹ 30'55 8° 44'53 evening rise 205 Mar 11 j 15:33 0° ₹ 28'34 min. Earth dist. 202 Sep 03 j 04:21 8° ₹ 00'80'9 0.27854 AU 205 Apr 04 j 14:57 0° ★ 30' ₹ 20' Apr 09 j 10:05 5° ₹ 52'50 direct 202 Sep 05 j 16:53 6° ₹ 30'	Č		-	0011150		-		
min. Earth dist. 202 Sep 05 j 04:21 8° 1908'09 0.27854 AU asc. node 205 Apr 04 j 14:57 0° 8 sep 05 j 16:53 6° 1936'44 asc. node 205 Apr 09 j 10:05 5° 852'50 direct 202 Sep 23 j 14:04 0° 1933'56 202 Sep 23 j 14:04 10° 1933'56 202 Cot 04 j 16:41 2° 1952'09 -4.9m 205 May 23 j 23:50 0° 5 asc. node 202 Oct 23 j 14:42 14° 1939'59 202 Nov 09 j 11:43 0° 1 205 Nun 18 j 02:53 0° Ω 202 Nov 09 j 11:43 0° 1 202 Nov 13 j 07:53 3° 15'50 46° 52'01 desc. node 205 Jul 13 j 18:06 0° 10 205 Nun 18 j 02:53 0° Ω 202 Nov 09 j 09:35 0° 1 202 Nov 13 j 07:53 0° 1 202 Nov 13 j 07:34 0° 1 202 Nov 13 j					evening rice	-		
morning rise 202 Sep 05 j 16:53 6° № 36'44 asc. node 205 Apr 09 j 10:05 5° ₺52'50 direct 202 Sep 23 j 14:04 0° № 33'56 205 Apr 29 j 04:31 0° Ⅲ greatest brilliancy 202 Oct 04 j 16:41 2° № 52'09 -4.9m 205 May 23 j 23:50 0° ₤ asc. node 202 Nov 09 j 11:43 0° ₤ 205 Jun 18 j 02:53 0° ₤ 202 Nov 13 j 07:53 3° ₤51'50 46°52'01 desc. node 205 Jul 29 j 23:34 18° № 30'16 202 Dec 07 j 09:35 0° № evening max el 205 Sep 05 j 22:09 28° ₤57'55 46°46'47 203 Jan 02 j 03:25 0° ☒ evening max el 205 Sep 06 j 23:32 0° № desc. node 203 Feb 12 j 04:36 19° ☒ 26'35 greatest brilliancy 205 Oct 16 j 11:25 29° № 07'4 -4.9m desc. node 203 Feb 20 j 21:01 0° ☒ retrograde 205 Oct 25 j 23:15 0° ☒ -4.9m desc. node 203 May 17 j 11:57 0° ☒ retrograde 205 Oct 16 j 11:25 29° № 07'4 -4.9m desc. node 203 May 05 j 15:24	•				evening 1150	-		
direct 202 Sep 23 j 14:04 0° m/33'56 205 Apr 29 j 04:31 0° π greatest brilliancy 202 Oct 04 j 16:41 2° m/52'09 -4.9m 205 May 23 j 23:50 0° \$\mathbb{G}\$ asc. node 202 Oct 23 j 14:42 14° m/39'59 -4.9m 205 Jun 18 j 02:53 0° \$\mathbb{Q}\$ asc. node 202 Nov 09 j 11:43 0° \$\mathbb{G}\$ 202 Nov 09 j 11:43 0° \$\mathbb{G}\$ 202 Nov 13 j 07:53 3° \$\mathbb{G}\$51'50 46°52'01 desc. node 205 Jul 29 j 23:34 18° m/30'16 202 Dec 07 j 09:35 0° \$\mathbb{N}\$ evening max el 205 Sep 05 j 22:09 28° \$\mathbb{L}\$57'55 46°46'47 203 Jan 27 j 03:34 0° \$\mathbb{G}\$ evening max el 205 Sep 06 j 23:32 0° π. desc. node 203 Feb 12 j 04:36 19° \$\mathbb{G}\$26'35 greatest brilliancy 205 Oct 16 j 11:25 29° m/07'47 -4.9m 203 May 17 j 11:57 0° \$\mathbb{H}\$ retrograde 205 Nov 01 j 07:31 30° \$\mathbb{M}\$ morning set 203 May 17 j 18:02 14° \$\mathbb{S}\$48'34 inferior conj 205 Nov 15 j 11:33 23° m/09'46 -1°12'07 morning morning max el 203 May 30 j 03:39 0° π. minimum elong 205 Nov 15 j 14:17 23° m/05'36 1°11'14 203 May 30 j 03:39 0° π. minimum elong 205 Nov 15 j 14:17 23° m/05'36 1°11'14 205 May 30 j 03:39 0° π. minimum elong 205 Nov 15 j 14:17 23° m/05'36 1°11'14 205 May 30 j 03:39 0° π. minimum elong 205 Nov 15 j 14:17 23° m/05'36 1°11'14 205 May 30 j 03:39 0° π. minimum elong 205 Nov 15 j 14:17 23° m/05'36 1°11'14 207 m/05'36 1°11'14 1°15'4 1°1				0.27034 AU	acc node			
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morning max el 202 Nov 13 j 07:53 3°至51'50 46°52'01 desc. node 205 Jul 29 j 23:34 18° № 30'16 202 Dec 07 j 09:35 0° № evening max el 205 Aug 09 j 07:22 0° 血 203 Jan 02 j 03:25 0° ズ evening max el 205 Sep 05 j 22:09 28° 血57'55 46°46'47 203 Jan 27 j 03:34 0° 풉 205 Sep 06 j 23:32 0° № desc. node 203 Feb 12 j 04:36 19° 풉26'35 greatest brilliancy 205 Oct 16 j 11:25 29° № 07'47 -4.9m 205 Oct 19 j 10:32 0° ズ 203 Mar 17 j 11:57 0° ℋ retrograde 205 Oct 25 j 23:15 0° ズ 48'59 203 Mar 17 j 10:58 0° ϒ 203 May 05 j 15:24 0° ♂ evening set 205 Nov 01 j 07:31 30° № № 203 May 17 j 18:02 14° ♂ 48'34 inferior conj 205 Nov 15 j 11:33 23° № 09' № 1009' 46 -1° 12'07 203 May 30 j 03:39 0° Ⅲ minimum elong 205 Nov 15 j 14:17 23° № 05' 10' 11'14	asc. node	-				-		
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desc. node 203 Feb 12 j 04:36 19°♂26'35 greatest brilliancy 205 Oct 16 j 11:25 29° 11.07'47 -4.9m 203 Feb 20 j 21:01 0°≈ 205 Oct 19 j 10:32 0°♂ 203 Mar 17 j 11:57 0° ★ retrograde 205 Oct 25 j 23:15 0°♂48'59 203 Apr 11 j 01:58 0° ↑ 205 Nov 01 j 07:31 30° 11.11 26° 11.40'45 203 May 05 j 15:24 0° ₭ evening set 205 Nov 09 j 11:11 26° 11.40'45 morning set 203 May 17 j 18:02 14° 848'34 inferior conj 205 Nov 15 j 11:33 23° 11.09'46 -1° 12'07 203 May 30 j 03:39 0° II minimum elong 205 Nov 15 j 14:17 23° 11.05'36 1° 11'14		-			evening max el			46~46.4/
203 Feb 20 j 21:01 0° ≈ 205 Oct 19 j 10:32 0° ₹ 203 Mar 17 j 11:57 0° ₩ retrograde 205 Oct 25 j 23:15 0° ₹ 48'59 203 Apr 11 j 01:58 0° ϒ 205 Nov 01 j 07:31 30° R M 203 May 05 j 15:24 0° ੴ evening set 205 Nov 09 j 11:11 26° M 40'45 morning set 203 May 17 j 18:02 14° ੴ 48'34 inferior conj 205 Nov 15 j 11:33 23° M 09'46 -1° 12'07 203 May 30 j 03:39 0° Ⅲ minimum elong 205 Nov 15 j 14:17 23° M 05'36 1° 11'14	4 1							4.0-
203 Mar 17 j 11:57 0° ★ retrograde 205 Oct 25 j 23:15 0° ₹48'59 203 Apr 11 j 01:58 0° ♀ 205 Nov 01 j 07:31 30° κ	desc. node				greatest brilliancy			-4.9m
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203 May 30 j 03:39 0°II minimum elong 205 Nov 15 j 14:17 23°IIL05'36 1°11'14					•	-		1010107
	morning set					·		
asc. node 203 Jun 05 ј 07:48 7°Щ34′20 min. Earth dist. 205 Nov 15 ј 12:06 23° Пов'56 0.26358 AU	_				_	-		
	asc. node	203 Jun 05 j 07:48	7°Щ34'20		mın. Earth dist.	205 Nov 15 j 12:06	23°11L08'56	0.26358 AU

asa nada	205 Nov 20 j 02:43	20° M 24'44			208 May 13 j 18:11	0°Щ	
asc. node morning rise	205 Nov 20 j 02.45 205 Nov 21 j 17:22	19°MJ32'00		evening rise	208 May 13 j 18.11 208 May 20 j 00:55	0 <u>П</u> 7° П 42'14	
direct	205 Nov 21 j 17.22 205 Dec 05 j 19:59	15°MJ34'18		evening rise	208 Jun 07 j 05:27	/ <u>п</u> 42 14 0°9	
greatest brilliancy	205 Dec 05 j 15:35 205 Dec 15 j 23:32	17°ML31'47	-4 9m		208 Jul 01 j 17:51	0°N	
greatest orimaney	206 Jan 05 j 03:06	0° ∡ 7	4.7111		208 Jul 26 j 08:21	0° m)	
morning max el	206 Jan 25 j 04:39	18° ∡ ¹25'35	46°45'32		208 Aug 20 j 02:46	0∘ ⊽	
morning max or	206 Feb 05 j 09:11	0° 궁	10 13 32	desc. node	208 Aug 26 j 11:28	° - 7° - 39'34	
	206 Mar 04 j 12:17	0° ≈			208 Sep 14 j 03:51	0°M	
desc. node	206 Mar 11 j 16:29	8°≈12'35			208 Oct 09 j 16:47	0°×7	
	206 Mar 30 j 10:34	0° ∀			208 Nov 05 j 08:13	5°0	
	206 Apr 24 j 20:10	0° Υ		evening max el	208 Nov 17 j 10:36	12° る 45'41	47°23'11
	206 May 19 j 22:27	9° 8		-	208 Dec 05 j 15:30	0° ≈	
	206 Jun 13 j 18:46	Π $^{\circ}0$		asc. node	208 Dec 17 j 14:37	9° ≈ 06'02	
asc. node	206 Jul 02 j 19:39	23° Ⅱ 11'44		greatest brilliancy	208 Dec 28 j 02:09	14° ≈ 38′05	-4.9m
	206 Jul 08 j 09:00	0ಂಣ		retrograde	209 Jan 07 j 12:50	16° ≈ 44'17	
morning set	206 Jul 24 j 06:15	19° 5 32'53		evening set	209 Jan 24 j 12:26	11° ≈ 03'07	
	206 Aug 01 j 17:06	$0 {\circ} \Omega$		min. Earth dist.	209 Jan 27 j 12:44	9° ≈ 11'55	0.27570 AU
	206 Aug 25 j 20:08	0° m y		inferior conj	209 Jan 28 j 10:41	8° ≈ 37'30	8°10'25
max. Earth dist.	206 Aug 26 j 09:15	0° Mp 40'55	1.72116 AU	minimum elong	209 Jan 28 j 03:57	8° ≈ 48'04	8°09'41
				morning rise	209 Jan 31 j 19:45	6° ≈ 32'10	
superior conj	206 Aug 30 j 02:23	5° m) 19'05		direct	209 Feb 18 j 02:36	0° ≈ 43'35	
minimum elong	206 Aug 30 j 03:46	5° m 23'25	1°24'24	greatest brilliancy	209 Feb 27 j 01:18	2°≈13'27	-4.8m
	206 Sep 18 j 20:00	0∘ ⊽			209 Apr 06 j 20:06	0° ∀	
evening rise	206 Oct 07 j 16:24	23° ♀ 37'02		desc. node	209 Apr 08 j 04:13	1°) 17′05	46000155
	206 Oct 12 j 18:39	0°M		morning max el	209 Apr 08 j 09:10	1°) €29'01	46°03'57
desc. node	206 Oct 22 j 09:21	12°M02'45			209 May 05 j 21:51	$^{\circ \gamma}$	
	206 Nov 05 j 17:29	た。0 る。0			209 Jun 01 j 17:13	0° Η	
	206 Nov 29 j 17:36	0°≈			209 Jun 27 j 12:28	0°© ∏	
	206 Dec 23 j 20:43 207 Jan 17 j 06:14	0 ≈ 0° ∀		asc. node	209 Jul 22 j 16:00 209 Jul 30 j 07:25	0 3 9° 9 314'49	
	207 Feb 11 j 04:15	0° Υ		asc. node	209 Aug 16 j 07:11	9°Ω	
asc. node	207 Feb 12 j 12:16	1° Υ 34'51			209 Sep 09 j 12:50	0° m y	
asc. node	207 Mar 09 j 01:43	0°8		morning set	209 Oct 02 j 19:05	29° Mp 06'13	
	207 Apr 06 j 00:59	0°II		morning sec	209 Oct 03 j 12:13	0° ʊ	
evening max el	207 Apr 12 j 01:22	5° ∏ 55'19	45°24'41		209 Oct 27 j 08:35	0°M	
	207 May 12 j 04:41	0°ಅ					
greatest brilliancy	207 May 19 j 19:29	3°535'27	-4.7m	superior conj	209 Nov 11 j 18:34	19° M 24'46	0°16'50
retrograde	207 May 30 j 14:17	5°9341'01		minimum elong	209 Nov 11 j 22:58	19°M38'36	0°16'37
desc. node	207 Jun 04 j 01:59	5° © 17'18		max. Earth dist.	209 Nov 12 j 09:09	20°M10'40	1.71030 AU
evening set	207 Jun 14 j 19:53	1° 5 015'46		desc. node	209 Nov 18 j 21:16	28°M22'10	
	207 Jun 17 j 01:18	30° Ŗ Ⅱ			209 Nov 20 j 04:20	0°⊀	
inferior conj	207 Jun 21 j 02:15	27° Ⅲ 31'55	-3°51'07		209 Dec 14 j 00:54	8°0	
minimum elong	207 Jun 20 j 18:29	27° Ⅱ 44'01	3°49'04	evening rise	209 Dec 23 j 14:15	11° る 59'43	
min. Earth dist.	207 Jun 21 j 05:02	27° Ⅱ 27'35	0.28914 AU				
morning rise	207 Jun 26 j 16:43				210 Jan 06 j 23:17	0° ≈	
direct		24° Ⅱ 08'39			210 Jan 31 j 01:00	0°) €	
	207 Jul 12 j 17:44	19° Ⅱ 14'40			210 Jan 31 j 01:00 210 Feb 24 j 08:22	0° ℋ 0° Ƴ	
greatest brilliancy	207 Jul 12 j 17:44 207 Jul 23 j 11:07	19° Ⅱ 14'40 21° Ⅱ 17'49	-4.7m	asc. node	210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15	0° ℋ 0° ♈ 19° ♈ 06'30	
	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28	19°∏14'40 21°∏17'49 0°©		asc. node	210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15 210 Mar 21 j 00:22	0°¥ 0°Y 19°Y06'30 0°8	
greatest brilliancy morning max el	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28 207 Aug 31 j 02:43	19° Ⅱ 14'40 21° Ⅱ 17'49 0°ᢒ 19°ᢒ55'00	-4.7m 46°11'52	asc. node	210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15 210 Mar 21 j 00:22 210 Apr 15 j 05:00	0°¥ 0°Y 19°Y06'30 0°B 0°II	
morning max el	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28 207 Aug 31 j 02:43 207 Sep 10 j 01:36	19°∏14'40 21°∏17'49 0°© 19°©55'00 0°Ω		asc. node	210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15 210 Mar 21 j 00:22 210 Apr 15 j 05:00 210 May 11 j 05:19	0°¥ 0°Y 19°Y06'30 0°B 0°I 0°©	
	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28 207 Aug 31 j 02:43 207 Sep 10 j 01:36 207 Sep 25 j 05:06	19° II 14'40 21° II 17'49 0° S 19° S55'00 0° N 16° N 22'56			210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15 210 Mar 21 j 00:22 210 Apr 15 j 05:00 210 May 11 j 05:19 210 Jun 07 j 19:07	0°¥ 0°Y 19°Y06'30 0°B 0°B 0°B	AE022120
morning max el	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28 207 Aug 31 j 02:43 207 Sep 10 j 01:36 207 Sep 25 j 05:06 207 Oct 07 j 04:43	19° H 14'40 21° H 17'49 0° S 19° S 55'00 0° N 16° N 22'56 0° M		evening max el	210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15 210 Mar 21 j 00:22 210 Apr 15 j 05:00 210 May 11 j 05:19 210 Jun 07 j 19:07 210 Jun 22 j 04:19	0°¥ 0°Y 19°Y06'30 0°B 0°I 0°S 0°A 14°A22'35	45°33'38
morning max el	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28 207 Aug 31 j 02:43 207 Sep 10 j 01:36 207 Sep 25 j 05:06 207 Oct 07 j 04:43 207 Nov 01 j 12:30	19° II 14'40 21° II 17'49 0° © 19° © 55'00 0° Ω 16° Ω 22'56 0° ID 0° Ω			210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15 210 Mar 21 j 00:22 210 Apr 15 j 05:00 210 May 11 j 05:19 210 Jun 07 j 19:07 210 Jun 22 j 04:19 210 Jul 01 j 13:48	0° X 0° Y 19° Y 06'30 0° B 0° II 0° S 0° A 14° A 22'35 22° A 59'16	45°33'38
morning max el	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28 207 Aug 31 j 02:43 207 Sep 10 j 01:36 207 Sep 25 j 05:06 207 Oct 07 j 04:43 207 Nov 01 j 12:30 207 Nov 26 j 01:23	19° II 14'40 21° II 17'49 0° II 19° II 17'49 0° II 19° II		evening max el desc. node	210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15 210 Mar 21 j 00:22 210 Apr 15 j 05:00 210 May 11 j 05:19 210 Jun 07 j 19:07 210 Jun 22 j 04:19 210 Jul 01 j 13:48 210 Jul 10 j 00:52	0° € 0° ♥ 19° ♥ 06'30 0° ₺ 0° ₤ 0° ₤ 14° £ 22'35 22° £ 59'16 0° ₺	
morning max el	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28 207 Aug 31 j 02:43 207 Sep 10 j 01:36 207 Sep 25 j 05:06 207 Oct 07 j 04:43 207 Nov 01 j 12:30 207 Nov 26 j 01:23 207 Dec 20 j 06:28	19° II 14'40 21° II 17'49 0° II 19° II 17'49 0° II 19° II		evening max el desc. node greatest brilliancy	210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15 210 Mar 21 j 00:22 210 Apr 15 j 05:00 210 May 11 j 05:19 210 Jun 07 j 19:07 210 Jun 22 j 04:19 210 Jul 01 j 13:48 210 Jul 10 j 00:52 210 Jul 31 j 12:39	0° € 0° ₹ 19° ₹06'30 0° € 0° ¶ 0° Ω 14° \$\Omega 22'35 22° \$\Omega 59'16 0° \$\Omega\$ 12° \$\Omega 31'02	45°33'38 -4.8m
morning max el asc. node	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28 207 Aug 31 j 02:43 207 Sep 10 j 01:36 207 Sep 25 j 05:06 207 Oct 07 j 04:43 207 Nov 01 j 12:30 207 Nov 26 j 01:23 207 Dec 20 j 06:28 208 Jan 13 j 09:19	19°用14'40 21°用17'49 0°ឆ 19°ឆ55'00 0° <i>R</i> 16° <i>R</i> 22'56 0°™ 0° 乒 0°™		evening max el desc. node greatest brilliancy retrograde	210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15 210 Mar 21 j 00:22 210 Apr 15 j 05:00 210 May 11 j 05:19 210 Jun 07 j 19:07 210 Jun 22 j 04:19 210 Jul 01 j 13:48 210 Jul 10 j 00:52 210 Jul 31 j 12:39 210 Aug 09 j 23:58	0° \(\) 0° \(\) 19° \(\) 0° \(\) 0° \(\) 0° \(\) 0° \(\) 14° \(\) 22' \(\) 22° \(\) 59' 16 0° \(\) 12° \(\) 12° \(\) 14° \(\) 07' 58	
morning max el	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28 207 Aug 31 j 02:43 207 Sep 10 j 01:36 207 Sep 25 j 05:06 207 Oct 07 j 04:43 207 Nov 01 j 12:30 207 Nov 26 j 01:23 207 Dec 20 j 06:28 208 Jan 13 j 09:19 208 Jan 14 j 18:46	19°用14'40 21°用17'49 0°55 19°555'00 0° <i>R</i> 16° <i>R</i> 22'56 0°か 0°요 0° <i>R</i> 0° <i>R</i> 0°♂ 1°♂43'59		evening max el desc. node greatest brilliancy retrograde evening set	210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15 210 Mar 21 j 00:22 210 Apr 15 j 05:00 210 May 11 j 05:19 210 Jun 07 j 19:07 210 Jun 22 j 04:19 210 Jul 01 j 13:48 210 Jul 10 j 00:52 210 Jul 31 j 12:39 210 Aug 09 j 23:58 210 Aug 27 j 23:52	0°¥ 0°Y 19°Y06'30 0°B 0°I 0°S 0°A 14°A22'35 22°A59'16 0°M 12°M31'02 14°M07'58 8°M06'54	-4.8m
morning max el asc. node	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28 207 Aug 31 j 02:43 207 Sep 10 j 01:36 207 Sep 25 j 05:06 207 Oct 07 j 04:43 207 Nov 01 j 12:30 207 Nov 26 j 01:23 207 Dec 20 j 06:28 208 Jan 13 j 09:19 208 Jan 14 j 18:46 208 Feb 06 j 12:29	19°用14'40 21°用17'49 0°55 19°555'00 0°A 16°A22'56 0°M 0°A 0°M 0°A 0°B 1°T43'59 0°≪		evening max el desc. node greatest brilliancy retrograde evening set inferior conj	210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15 210 Mar 21 j 00:22 210 Apr 15 j 05:00 210 May 11 j 05:19 210 Jun 07 j 19:07 210 Jun 22 j 04:19 210 Jul 01 j 13:48 210 Jul 10 j 00:52 210 Jul 31 j 12:39 210 Aug 09 j 23:58 210 Aug 27 j 23:52 210 Aug 31 j 01:02	0°¥ 0°Y 19°Y06'30 0°B 0°I 0°S 0°A 14°A22'35 22°A59'16 0°M 12°M31'02 14°M07'58 8°M06'54 6°M16'05	-4.8m -8°46'38
morning max el asc. node	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28 207 Aug 31 j 02:43 207 Sep 10 j 01:36 207 Sep 25 j 05:06 207 Oct 07 j 04:43 207 Nov 01 j 12:30 207 Nov 26 j 01:23 207 Dec 20 j 06:28 208 Jan 13 j 09:19 208 Jan 14 j 18:46	19°用14'40 21°用17'49 0°55 19°555'00 0° <i>R</i> 16° <i>R</i> 22'56 0°か 0°요 0° <i>R</i> 0° <i>R</i> 0°♂ 1°♂43'59		evening max el desc. node greatest brilliancy retrograde evening set	210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15 210 Mar 21 j 00:22 210 Apr 15 j 05:00 210 May 11 j 05:19 210 Jun 07 j 19:07 210 Jun 22 j 04:19 210 Jul 01 j 13:48 210 Jul 10 j 00:52 210 Jul 31 j 12:39 210 Aug 09 j 23:58 210 Aug 27 j 23:52 210 Aug 31 j 01:02 210 Aug 31 j 02:43	0°¥ 0°Y 19°Y06'30 0°B 0°I 0°S 0°A 14°A22'35 22°A59'16 0°M 12°M31'02 14°M07'58 8°M06'54	-4.8m -8°46'38
morning max el asc. node	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28 207 Aug 31 j 02:43 207 Sep 10 j 01:36 207 Sep 25 j 05:06 207 Oct 07 j 04:43 207 Nov 01 j 12:30 207 Nov 26 j 01:23 207 Dec 20 j 06:28 208 Jan 13 j 09:19 208 Jan 14 j 18:46 208 Feb 06 j 12:29 208 Mar 01 j 17:04 208 Mar 06 j 03:28	19°用14'40 21°用17'49 0°野 19°野55'00 0°れ 16°れ22'56 0°順 0°五 0°れ 0°ス 0°ス 0°ス 0°ス		evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong	210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15 210 Mar 21 j 00:22 210 Apr 15 j 05:00 210 May 11 j 05:19 210 Jun 07 j 19:07 210 Jun 22 j 04:19 210 Jul 01 j 13:48 210 Jul 10 j 00:52 210 Jul 31 j 12:39 210 Aug 09 j 23:58 210 Aug 27 j 23:52 210 Aug 31 j 01:02 210 Aug 31 j 02:43 210 Aug 31 j 17:29	0° ¥ 0° Y 19° Y 06'30 0° B 0° II 0° © 0° A 14° A 22'35 22° A 59'16 0° M 12° M 31'02 14° M 07'58 8° M 06'54 6° M 16'05 6° M 13'30 5° M 50'53	-4.8m -8°46'38 8°46'35
morning max el asc. node	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28 207 Aug 31 j 02:43 207 Sep 10 j 01:36 207 Sep 25 j 05:06 207 Oct 07 j 04:43 207 Nov 01 j 12:30 207 Nov 26 j 01:23 207 Dec 20 j 06:28 208 Jan 13 j 09:19 208 Jan 14 j 18:46 208 Feb 06 j 12:29 208 Mar 01 j 17:04	19°用14'40 21°用17'49 0°% 19°%55'00 0°れ 16°れ22'56 0°順 0°ふ 0°ポ 0°ポ 0°ポ 0°ポ 0°ポ 5°ポ 5°米29'20		evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15 210 Mar 21 j 00:22 210 Apr 15 j 05:00 210 May 11 j 05:19 210 Jun 07 j 19:07 210 Jun 22 j 04:19 210 Jul 01 j 13:48 210 Jul 10 j 00:52 210 Jul 31 j 12:39 210 Aug 09 j 23:58 210 Aug 27 j 23:52 210 Aug 31 j 01:02 210 Aug 31 j 02:43	0°\congression or \congression	-4.8m -8°46'38 8°46'35
morning max el asc. node	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28 207 Aug 31 j 02:43 207 Sep 10 j 01:36 207 Sep 25 j 05:06 207 Oct 07 j 04:43 207 Nov 01 j 12:30 207 Nov 26 j 01:23 207 Dec 20 j 06:28 208 Jan 13 j 09:19 208 Jan 14 j 18:46 208 Feb 06 j 12:29 208 Mar 01 j 17:04 208 Mar 06 j 03:28	19°用14'40 21°用17'49 0°% 19°%55'00 0°れ 16°れ22'56 0°順 0°ふ 0°ポ 0°ポ 0°ポ 0°ポ 0°ポ 5°ポ 5°米29'20	46°11'52	evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15 210 Mar 21 j 00:22 210 Apr 15 j 05:00 210 May 11 j 05:19 210 Jun 07 j 19:07 210 Jun 22 j 04:19 210 Jul 01 j 13:48 210 Jul 10 j 00:52 210 Jul 31 j 12:39 210 Aug 09 j 23:58 210 Aug 31 j 01:02 210 Aug 31 j 01:02 210 Aug 31 j 17:29 210 Sep 03 j 05:24	0° ¥ 0° Y 19° Y 06'30 0° ♥ 0° Ⅱ 0° © 0° Ω 14° Ω 22'35 22° Ω 59'16 0° m 12° m 31'02 14° m 07'58 8° m 06'54 6° m 16'05 6° m 13'30 5° m 50'53 4° m 20'13	-4.8m -8°46'38 8°46'35
morning max el asc. node desc. node morning set	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28 207 Aug 31 j 02:43 207 Sep 10 j 01:36 207 Sep 25 j 05:06 207 Oct 07 j 04:43 207 Nov 01 j 12:30 207 Nov 26 j 01:23 207 Dec 20 j 06:28 208 Jan 13 j 09:19 208 Jan 14 j 18:46 208 Feb 06 j 12:29 208 Mar 01 j 17:04 208 Mar 06 j 03:28 208 Mar 25 j 23:34	19°用14'40 21°用17'49 0°% 19°%555'00 0°れ 16°れ22'56 0°順 0°ふ 0°ボ 0°ぶ 1°♂43'59 0°※ 0°升 5°升29'20	46°11'52 -0°52'21	evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15 210 Mar 21 j 00:22 210 Apr 15 j 05:00 210 May 11 j 05:19 210 Jun 07 j 19:07 210 Jun 22 j 04:19 210 Jul 01 j 13:48 210 Jul 10 j 00:52 210 Jul 31 j 12:39 210 Aug 09 j 23:58 210 Aug 27 j 23:52 210 Aug 31 j 01:02 210 Aug 31 j 02:43 210 Aug 31 j 17:29 210 Sep 03 j 05:24 210 Sep 11 j 21:35	0°\(\) 0°\(\) 19°\(\) 0°\(\) 0°\(\) 0°\(\) 0°\(\) 0°\(\) 10°\(\) 14°\(\) 22'\(\) 22'\(\) 59'\(\) 12°\(\) 13'\(\) 6°\(\) 16'\(\) 6°\(\) 16'\(\) 6°\(\) 16'\(\) 6°\(\) 13'\(\) 5°\(\) 50'\(\) 30°\(\) 30°\(\) 30°\(\)	-4.8m -8°46'38 8°46'35
morning max el asc. node desc. node morning set superior conj	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28 207 Aug 31 j 02:43 207 Sep 10 j 01:36 207 Sep 25 j 05:06 207 Oct 07 j 04:43 207 Nov 01 j 12:30 207 Nov 26 j 01:23 207 Dec 20 j 06:28 208 Jan 13 j 09:19 208 Jan 14 j 18:46 208 Feb 06 j 12:29 208 Mar 01 j 17:04 208 Mar 06 j 03:28 208 Apr 13 j 03:46	19° H14'40 21° H17'49 0° 9 19° 9555'00 0° A 16° A22'56 0° か 0° 五 0° エ 0° エ 0° ズ 0° 云 1° 云43'59 0° ※ 0° 光 5° 升29'20 0° か	46°11'52 -0°52'21	evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15 210 Mar 21 j 00:22 210 Apr 15 j 05:00 210 May 11 j 05:19 210 Jun 07 j 19:07 210 Jun 22 j 04:19 210 Jul 01 j 13:48 210 Jul 10 j 00:52 210 Jul 31 j 12:39 210 Aug 09 j 23:58 210 Aug 31 j 01:02 210 Aug 31 j 02:43 210 Aug 31 j 17:29 210 Sep 03 j 05:24 210 Sep 21 j 05:36	0° ¥ 0° Y 19° Y 06'30 0° ℧ 0° ℿ 0° Ω 14° Ω 22'35 22° Ω 59'16 0° ℔ 12° ℔ 31'02 14° ℔ 07'58 8° ℔ 06'54 6° ℔ 16'05 6° ℔ 13'30 5° ℔ 50'53 4° ℔ 20'13 30° ℞ Ω 28° Ω 14'33	-4.8m -8°46'38 8°46'35
morning max el asc. node desc. node morning set superior conj minimum elong	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28 207 Aug 31 j 02:43 207 Sep 10 j 01:36 207 Sep 25 j 05:06 207 Oct 07 j 04:43 207 Nov 01 j 12:30 207 Nov 26 j 01:23 207 Dec 20 j 06:28 208 Jan 13 j 09:19 208 Jan 14 j 18:46 208 Feb 06 j 12:29 208 Mar 01 j 17:04 208 Mar 06 j 03:28 208 Apr 13 j 03:46 208 Apr 13 j 03:46 208 Apr 13 j 12:52	19° II 14'40 21° II 17'49 0° © 19° © 555'00 0° N 16° N 22'56 0° IV 0° № 0° № 0° № 0° № 0° № 0° № 5° ※ 0° ※ 0° ※ 5° ※ 29'20 0° Y 22° Y 23'56 22° Y 51'56	-0°52'21 0°51'59	evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 12 j 00:15 210 Mar 21 j 00:22 210 Apr 15 j 05:00 210 May 11 j 05:19 210 Jun 07 j 19:07 210 Jun 22 j 04:19 210 Jul 01 j 13:48 210 Jul 10 j 00:52 210 Jul 31 j 12:39 210 Aug 09 j 23:58 210 Aug 31 j 01:02 210 Aug 31 j 02:43 210 Aug 31 j 17:29 210 Sep 03 j 05:24 210 Sep 21 j 05:36 210 Sep 30 j 21:00	0° ¥ 0° Y 19° Y 06'30 0° ℧ 0° ℿ 0° Խ 14° № 22'35 22° № 59'16 0° № 12° № 31'02 14° № 07'58 8° № 06'54 6° № 16'05 6° № 13'30 5° № 50'53 4° № 20'13 30° R № 28° № 14'33 0° №	-4.8m -8°46'38 8°46'35 0.27916 AU
morning max el asc. node desc. node morning set superior conj minimum elong	207 Jul 12 j 17:44 207 Jul 23 j 11:07 207 Aug 08 j 01:28 207 Aug 31 j 02:43 207 Sep 10 j 01:36 207 Sep 25 j 05:06 207 Oct 07 j 04:43 207 Nov 01 j 12:30 207 Nov 26 j 01:23 207 Dec 20 j 06:28 208 Jan 13 j 09:19 208 Jan 14 j 18:46 208 Feb 06 j 12:29 208 Mar 01 j 17:04 208 Mar 06 j 03:28 208 Apr 13 j 03:46 208 Apr 13 j 03:46 208 Apr 13 j 12:52 208 Apr 14 j 18:50	19° II 14'40 21° II 17'49 0°5 19° 555'00 0° A 16° A 22'56 0° ID 0° A	-0°52'21 0°51'59	evening max el desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	210 Jan 31 j 01:00 210 Feb 24 j 08:22 210 Mar 21 j 00:15 210 Mar 21 j 00:22 210 Apr 15 j 05:00 210 May 11 j 05:19 210 Jun 07 j 19:07 210 Jun 22 j 04:19 210 Jul 01 j 13:48 210 Jul 10 j 00:52 210 Jul 31 j 12:39 210 Aug 09 j 23:58 210 Aug 27 j 23:52 210 Aug 31 j 01:02 210 Aug 31 j 17:29 210 Sep 03 j 05:24 210 Sep 21 j 05:36 210 Sep 30 j 21:00 210 Oct 02 j 06:39	0°\congression or \congression	-4.8m -8°46'38 8°46'35 0.27916 AU

morning max el	210 Nov 10 j 22:31	1° ≏ 29'40	46°51'02	desc. node	213 Jul 29 j 01:36	17° m 52'03	
	210 Dec 07 j 02:17	0°M			213 Aug 09 j 00:26	0∘ ⊽	
	211 Jan 01 j 17:43	0° ∡ ¹		evening max el	213 Sep 03 j 10:21	26° ≙ 31'26	46°44'17
	211 Jan 26 j 16:36	0°ರ		-	213 Sep 07 j 00:30	0° M .	
desc. node	211 Feb 11 j 06:39	18°る54'56		greatest brilliancy	213 Oct 14 j 01:14	26°M40'09	-4.9m
dese. Hode	211 Feb 20 j 09:15	0°≈		retrograde	213 Oct 23 j 10:41	28°ML19'35	,
	211 Mar 16 j 23:38	0° ₩		evening set	213 Nov 07 j 00:55	24°M09'21	
	-	0° Υ		-			1027127
	211 Apr 10 j 13:17			inferior conj	213 Nov 12 j 23:47	20°M40'51	
	211 May 05 j 02:28	0° 8		minimum elong	213 Nov 13 j 03:26	20°M35'18	1°35'15
morning set	211 May 15 j 12:16	12° 8 43'53		min. Earth dist.	213 Nov 13 j 02:18	20°M37'02	0.26373 AU
	211 May 29 j 14:34	Π $^{\circ}0$		morning rise	213 Nov 19 j 05:44	17°ML02'40	
asc. node	211 Jun 04 j 09:51	7° Ⅱ 07'13		asc. node	213 Nov 19 j 04:43	17° M 04'01	
max. Earth dist.	211 Jun 18 j 11:50	24° Ⅱ 25′16	1.73492 AU	direct	213 Dec 03 j 07:52	13°ML04'49	
				greatest brilliancy	213 Dec 13 j 14:22	15°ML04'41	-4.9m
superior conj	211 Jun 20 j 20:04	27° Ⅱ 18'17	0°37'36		214 Jan 05 j 15:24	0° ∡ 7	
minimum elong	211 Jun 20 j 13:14	26° Ⅲ 57'15		morning max el	214 Jan 22 j 17:07	15° ∡ 757'31	46°46'34
minimum ciong	211 Jun 23 j 00:37	0°9	0 37 10	morning max or	214 Feb 05 j 04:46	0°중	10 1031
		$0 {\circ} \Omega$				0°≈	
	211 Jul 17 j 08:11				214 Mar 04 j 03:42		
evening rise	211 Jul 26 j 14:27	11° Ω 27'22		desc. node	214 Mar 10 j 18:35	7°≈36'08	
	211 Aug 10 j 13:51	0° m			214 Mar 30 j 00:05	0° ∀	
	211 Sep 03 j 19:01	0∘ ऌ			214 Apr 24 j 08:38	0° Y	
desc. node	211 Sep 23 j 23:32	24° ≙ 58'34			214 May 19 j 10:14	9° 8	
	211 Sep 28 j 01:07	0° M			214 Jun 13 j 06:08	$\Pi^{\circ}0$	
	211 Oct 22 j 09:24	0° ∡ ¹		asc. node	214 Jul 01 j 21:36	22° Ⅱ 43'32	
	211 Nov 15 j 21:57	0°ರ			214 Jul 07 j 20:08	0°ම	
	211 Dec 10 j 20:05	0° ≈		morning set	214 Jul 21 j 23:27	17° 5 23'37	
	212 Jan 05 j 17:06	0°) €		morning out	214 Aug 01 j 04:10	0° Ω	
asc. node	212 Jan 15 j 02:24	10° ¥ 21'58		max. Earth dist.	214 Aug 24 j 01:38	28° Ω 27'43	1.72170 AU
	-		46920144	max. Earth dist.			1.72170 AU
evening max el	212 Jan 28 j 23:19	24°) 53′11	46°28'44		214 Aug 25 j 07:13	0° m)	
	212 Feb 03 j 04:12	0° Υ					
greatest brilliancy	212 Mar 08 j 03:02	24° Ƴ 47'01	-4.8m	superior conj	214 Aug 27 j 18:27	3° Mp 04'48	1°24'35
retrograde	212 Mar 18 j 21:23	26° Y 55′06		minimum elong	214 Aug 27 j 19:03	3° Mp 06'42	1°24'34
evening set	212 Apr 04 j 08:49	21° Y 37'48			214 Sep 18 j 07:10	0∘ ত	
inferior conj	212 Apr 09 j 05:25	18° Ƴ 37'24	5°41'01	evening rise	214 Oct 05 j 05:03	21° ≏ 11'08	
minimum elong	212 Apr 09 j 14:51	18° Ƴ 22'26	5°38'57		214 Oct 12 j 05:56	0° M	
min. Earth dist.	212 Apr 09 j 07:44	18° Ƴ 33'43	0.28858 AU	desc. node	214 Oct 21 j 11:30	11°ML33'55	
morning rise	212 Apr 14 j 21:13	15° Ƴ 10′02			214 Nov 05 j 04:55	0° ∡ ¹	
direct	212 Apr 30 j 17:15	10° Υ 20'58			214 Nov 29 j 05:14	0° ප	
	212 Apr 30 j 17:13 212 May 05 j 16:06	10° Y 48'47			214 Nov 29 j 03:14 214 Dec 23 j 08:39	0° ≈	
desc. node			4.7		5	0 ≈ 0° ∺	
greatest brilliancy	212 May 10 j 15:53	12° Y 08'47	-4.7m		215 Jan 16 j 18:39		
	212 Jun 07 j 08:01	0° 8			215 Feb 10 j 17:34	0° Υ	
morning max el	212 Jun 18 j 11:50	10° 8 08'07	45°44'47	asc. node	215 Feb 11 j 14:21	1° Y 01'24	
	212 Jul 08 j 03:24	$\Pi^{\circ}0$			215 Mar 08 j 16:59	$0^{\circ}S$	
	212 Aug 04 j 06:46	0 \circ \odot			215 Apr 05 j 21:37	Π $^{\circ}0$	
asc. node	212 Aug 26 j 19:20	26°5918'21		evening max el	215 Apr 09 j 16:30	3° ∏ 42′09	45°25'53
	212 Aug 29 j 21:44	$0^{\circ}\Omega$			215 May 14 j 01:46	0° ©	
	212 Sep 23 j 15:36	0° m		greatest brilliancy	215 May 17 j 10:28	1°524'27	-4.7m
	212 Oct 17 j 20:55	0∘ ⊽		retrograde	215 May 28 j 06:42	3° © 31'31	
	212 Nov 10 j 19:52	0° M		desc. node	215 Jun 03 j 03:57	2°950'25	
	212 Dec 04 j 16:39	0° ∡ 7		4000. 11040	215 Jun 10 j 18:21	30°RⅡ	
desc. node	212 Dec 04 j 10:39 212 Dec 16 j 08:58	14° ⋌ 141'02		evening set	215 Jun 12 j 10:47	29° Ⅱ 07'13	
				•	-		2022101
morning set	212 Dec 17 j 15:23	16° ∡ 16'37		inferior conj	215 Jun 18 j 18:24	25° Ⅱ 21'46	
	212 Dec 28 j 13:41	0° ප		minimum elong	215 Jun 18 j 11:06	25° Ⅱ 33'05	
	213 Jan 21 j 12:11	0° ≈		min. Earth dist.	215 Jun 18 j 21:05		0.28928 AU
				morning rise	215 Jun 24 j 11:06	21° Ⅱ 55'34	
superior conj	213 Jan 28 j 08:32	8° ≈ 33'33	-1°19'33	direct	215 Jul 10 j 09:53	17° Ⅱ 04'05	
minimum elong	213 Jan 28 j 00:35	8° ≈ 08'44	1°19'25	greatest brilliancy	215 Jul 21 j 03:29	19° Ⅱ 07'40	-4.7m
max. Earth dist.	213 Feb 01 j 13:54	13° ≈ 49′59	1.71834 AU		215 Aug 08 j 16:36	0ංම	
	213 Feb 14 j 13:08	0° ∀		morning max el	215 Aug 28 j 18:43	17°5642'06	46°10'30
evening rise	213 Mar 09 j 05:10	28°) €07'40		Č	215 Sep 09 j 20:36	0°N	
	213 Mar 10 j 17:30	0° Υ		asc. node	215 Sep	15° Ω 43'28	
	213 Apr 04 j 02:12	0°8			215 Oct 06 j 19:40	0° m)	
asc. node	213 Apr 04 j 02.12 213 Apr 08 j 12:15	5° 8 24'54			215 Oct 00 j 19.40 215 Nov 01 j 01:48	0∘ ত رااا	
asc. noue					-		
	213 Apr 28 j 16:00	0° Ⅱ			215 Nov 25 j 13:50	0°M 0°. 7	
	213 May 23 j 11:47	0.ಲ			215 Dec 19 j 18:24	0° ∡ ¹	
	213 Jun 17 j 15:39	$0^{\circ}\Omega$			216 Jan 12 j 20:55	0° ろ	
	213 Jul 13 j 08:18	0° m ∕		desc. node	216 Jan 13 j 20:50	1° る 14'25	

	216 Feb 05 j 23:50	0° ≈		retrograde	218 Aug 07 j 13:19	11° m 49'49	
	216 Mar 01 j 04:14	0° ∀		evening set	218 Aug 25 j 13:26	5° ™ 49'19	
morning set	216 Mar 03 j 17:31	3° ₩ 09'47		inferior conj	218 Aug 28 j 15:08	3° m 57′24	-8°47'19
	216 Mar 25 j 10:35	$\mathbf{\gamma}_0$		minimum elong	218 Aug 28 j 15:57	3° m 56'09	8°47'19
				min. Earth dist.	218 Aug 29 j 06:52	3° m 33'14	0.27973 AU
superior conj	216 Apr 10 j 20:21	20° Ƴ 13'32	-0°54'55	morning rise	218 Aug 31 j 18:18	2° Mp 03'03	
minimum elong	216 Apr 11 j 05:40	20° Ƴ 42′13	0°54'34		218 Sep 04 j 09:13	30° R Ω	
max. Earth dist.	216 Apr 12 j 13:48	22° Y 21'06	1.73324 AU	direct	218 Sep 18 j 20:32	25° Ω 55'15	
	216 Apr 18 j 19:00	9° 8		greatest brilliancy	218 Sep 29 j 20:48	28° Ω 10'41	-4.9m
asc. node	216 May 06 j 00:04	21° 8 08'55			218 Oct 03 j 21:56	O° m y	
	216 May 13 j 05:09	$\Pi^{\circ}0$		asc. node	218 Oct 21 j 18:57	12° m 24'09	
evening rise	216 May 17 j 19:23	5° Ⅱ 38′02		morning max el	218 Nov 08 j 12:02	29° m 04'49	46°50'05
	216 Jun 06 j 16:33	0 \circ \odot			218 Nov 09 j 09:37	0∘ ত	
	216 Jul 01 j 05:15	$0^{\circ}\Omega$			218 Dec 06 j 18:37	0°M₊	
	216 Jul 25 j 20:13	0° m)			219 Jan 01 j 07:45	0° ∡ ¹	
	216 Aug 19 j 15:20	0∘ ত			219 Jan 26 j 05:25	ರ∘ರ	
desc. node	216 Aug 25 j 13:38	7° ♀ 07'35		desc. node	219 Feb 10 j 08:46	18° පි 24'02	
	216 Sep 13 j 17:30	0° M .			219 Feb 19 j 21:17	0° ≈	
	216 Oct 09 j 08:15	0° ∡ 7			219 Mar 16 j 11:06	0° ∀	
	216 Nov 05 j 03:39	0°₹			219 Apr 10 j 00:22	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	216 Nov 15 j 02:06	10° る 25'12	47°23'49		219 May 04 j 13:18	0° ႘	
Č	216 Dec 06 j 02:48	0° ≈		morning set	219 May 13 j 06:44	10° 8 40'40	
asc. node	216 Dec 16 j 16:37	7° ≈ 39'40		. 8	219 May 29 j 01:17	0°II	
greatest brilliancy	216 Dec 25 j 16:20	12° ≈ 14'40	-4.9m	asc. node	219 Jun 03 j 11:53	6° Ⅱ 40'35	
retrograde	217 Jan 05 j 04:08	14° ≈ 21'50		max. Earth dist.	219 Jun 16 j 07:47		1.73519 AU
evening set	217 Jan 21 j 23:25	8° ≈ 46'01			· · · · · · · · · · · · · · · · · ·		
min. Earth dist.	217 Jan 25 j 01:59	6°≈51'39	0.27503 AU	superior conj	219 Jun 18 j 14:53	25° Ⅱ 15'37	0°34'48
inferior conj	217 Jan 26 j 00:55	6°≈15'46	8°02'37	minimum elong	219 Jun 18 j 08:28	24° I I55'51	0°34'32
minimum elong	217 Jan 25 j 17:34	6°≈27'17	8°01'44	minimum crong	219 Jun 22 j 11:19	0°ඉ	0 3 1 3 2
morning rise	217 Jan 29 j 12:04	4°≈07'41	0 01 11		219 Jul 16 j 18:58	$0 {\circ} \Omega$	
morning 113C	217 Feb 06 j 19:51	30°Rる		evening rise	219 Jul 24 j 08:42	9° Ω 21'43	
direct	217 Feb 15 j 16:39	28°る23'00		evening rise	219 Aug 10 j 00:50	0° mp	
greatest brilliancy	217 Feb 24 j 14:07	28 ප 25 00 29° පි 52'28	-4.8m		219 Sep 03 j 06:17	0° ت	
greatest offinality	217 Feb 24 j 23:19	29 3 52 28	-4.0111	desc. node	219 Sep 23 j 01:37	0 == 24° £ 29'14	
morning max el	217 Feb 24 j 23.19 217 Apr 06 j 00:33	0 ≈ 29°≈14'41	46°05'08	desc. Hode	219 Sep 27 j 12:46	0°M	
morning max ci	217 Apr 00 j 00:33 217 Apr 06 j 19:15	0° \	40 03 08		219 Oct 21 j 21:32	0° ⊼	
desc. node	217 Apr 00 j 19:13 217 Apr 07 j 06:24	0° ∺ 27'08			219 Oct 21 j 21:32 219 Nov 15 j 10:47	0°ਤ	
desc. Hode	217 Apr 07 j 00:24 217 May 05 j 13:58	0 γ (2708			219 Nov 13 j 10:47 219 Dec 10 j 10:05	0°≈	
	217 Jun 01 j 06:49	0.8 0.1			•	0° ∺	
	,	0°II		asc. node	220 Jan 05 j 09:34 220 Jan 14 j 04:34	0 X 9° X 39'11	
	217 Jun 27 j 00:50				-		46921124
1	217 Jul 22 j 03:42	0°55		evening max el	220 Jan 26 j 14:03	22°) 35'36 0° Υ	46°31'24
asc. node	217 Jul 29 j 09:33	8°5546'14		4 41 711	220 Feb 03 j 04:27		4.0
	217 Aug 15 j 18:31	0° N		greatest brilliancy	220 Mar 05 j 20:53	22°Υ38'09	-4.8m
	217 Sep 08 j 24:00	0° m/)		retrograde	220 Mar 16 j 13:37	24° Ƴ 45'08 19° Ƴ 24'11	
morning set	217 Sep 30 j 08:38	26° m/43'19		evening set	220 Apr 02 j 04:04		5055120
	217 Oct 02 j 23:20	0∘ 亚		inferior conj	220 Apr 06 j 21:57		5°55'39
	217 Oct 26 j 19:43	0° M		minimum elong	220 Apr 07 j 07:28		5°53'39 0.28835 AU
	217 N 00 : 04.42	1.69 M 50120	0920142	min. Earth dist.	220 Apr 07 j 00:04	16° Y 24'17	0.28833 AU
superior conj	217 Nov 09 j 04:42	16°M50'28	0°20'42	morning rise	220 Apr 12 j 11:08	13° Y 03'38	
minimum elong	217 Nov 09 j 10:02	17°M07'12	0°20'26	direct	220 Apr 28 j 09:02	8° Y 11'43 8° Y 57'07	
max. Earth dist.	217 Nov 09 j 16:09	17°M26'29	1.71035 AU	desc. node	220 May 04 j 18:00		4.7
desc. node	217 Nov 17 j 23:14	27°M53'12		greatest brilliancy	220 May 08 j 07:11	9° Ƴ 58'44	-4.7m
	217 Nov 19 j 15:31	0° ⊀ ¹			220 Jun 07 j 11:25	0°8	45044127
	217 Dec 13 j 12:06	0°る		morning max el	220 Jun 16 j 02:39	7° 8 56'08	45°44'37
evening rise	217 Dec 21 j 00:05	9° る 24'56			220 Jul 07 j 20:07	0° Ⅱ	
	218 Jan 06 j 10:29	0° ≈		,	220 Aug 03 j 20:27	0.00	
	218 Jan 30 j 12:16	0° ∀		asc. node	220 Aug 25 j 21:29	25° © 47'35	
1	218 Feb 23 j 19:48	0° Υ			220 Aug 29 j 10:06	0° Ω	
asc. node	218 Mar 11 j 02:25	18° Ƴ 37'38			220 Sep 23 j 03:21	0° ™	
	218 Mar 20 j 12:14	0° B			220 Oct 17 j 08:21	0∘ w	
	218 Apr 14 j 17:45	0° Ⅱ			220 Nov 10 j 07:06	0° M 0°. ₹	
	218 May 10 j 19:51	0°©			220 Dec 04 j 03:46	0° ∡ 7	
	218 Jun 07 j 13:56	0°Ω	45021151	morning set	220 Dec 15 j 00:52	13° ₹ 40'48	
evening max el	218 Jun 19 j 19:17	12° Ω 08'27	45~31'51	desc. node	220 Dec 15 j 11:02	14° ⊀ 12'46	
desc. node	218 Jun 30 j 15:53	22° Ω 01'01			220 Dec 28 j 00:41	5°0	
	218 Jul 10 j 15:18	0° Mp	4.0		221 Jan 20 j 23:08	0° ≈	
greatest brilliancy	218 Jul 29 j 01:12	10° m) 12'30	-4.8m				

	221 7 25:10.41	60 0440	1010104		222 1 20 : 02 40	1.40 \$ 55141	
superior conj	221 Jan 25 j 19:41	6°≈04'19		direct	223 Jul 08 j 02:40	14° Ⅱ 55'41	
minimum elong	221 Jan 25 j 10:59	5°≈37'10		greatest brilliancy	223 Jul 18 j 19:19	16° Ⅱ 58'54	-4.7m
max. Earth dist.	221 Jan 29 j 23:39		1.71779 AU		223 Aug 09 j 03:04	0°©	4.600.010.5
	221 Feb 14 j 00:01	0° \		morning max el	223 Aug 26 j 11:11	15° © 32'14	46°09'05
evening rise	221 Mar 06 j 18:50	25°) 47′50			223 Sep 09 j 14:33	0° Ω	
	221 Mar 10 j 04:22	0° Υ		asc. node	223 Sep 23 j 09:18	15° Ω 05'33	
	221 Apr 03 j 13:08	0°8			223 Oct 06 j 09:57	0° m/	
asc. node	221 Apr 07 j 14:18	4° 8 57'37			223 Oct 31 j 14:38	0° ⊽	
	221 Apr 28 j 03:07	Π \circ 0			223 Nov 25 j 01:56	0° M -	
	221 May 22 j 23:20	0ංම			223 Dec 19 j 06:05	0° ∡	
	221 Jun 17 j 04:02	0 $^{\circ}$ Ω			224 Jan 12 j 08:17	0° ਰ	
	221 Jul 12 j 22:13	0° m)		desc. node	224 Jan 12 j 23:01	0° る 45'51	
desc. node	221 Jul 28 j 03:44	17° m) 14'53			224 Feb 05 j 10:58	0° ≈	
	221 Aug 08 j 17:28	0∘ ಹ			224 Feb 29 j 15:08	0° ∀	
evening max el	221 Aug 31 j 22:13	24° ≏ 05'06	46°41'32	morning set	224 Mar 01 j 07:08	0°) 49′33	
	221 Sep 07 j 02:30	0° M .			224 Mar 24 j 21:19	$\mathbf{\gamma}_{\circ 0}$	
greatest brilliancy	221 Oct 11 j 14:32	24°M12'12	-4.9m				
retrograde	221 Oct 20 j 22:15	25°M50'28		superior conj	224 Apr 08 j 12:43	18° Ƴ 03'15	-0°57'25
evening set	221 Nov 04 j 14:38	21°MJ37'38		minimum elong	224 Apr 08 j 22:13	18° Ƴ 32'29	0°57'05
inferior conj	221 Nov 10 j 11:48	18° M ₊11'58	-2°00'36	max. Earth dist.	224 Apr 10 j 10:31	20° Y 24′16	1.73288 AU
minimum elong	221 Nov 10 j 16:20	18°M05'05	1°59'10		224 Apr 18 j 05:39	9° 8	
min. Earth dist.	221 Nov 10 j 16:09	18°M05'21	0.26392 AU	asc. node	224 May 05 j 02:07	20° 8 42'26	
morning rise	221 Nov 16 j 17:42	14°M33'59			224 May 12 j 15:49	$\Pi^{\circ}0$	
asc. node	221 Nov 18 j 06:45	13°M46'51		evening rise	224 May 15 j 13:55	3° Ⅱ 34'56	
direct	221 Nov 30 j 19:46	10°M35'13			224 Jun 06 j 03:22	0ංම	
greatest brilliancy	221 Dec 11 j 04:52	12°MJ37'37	-4.9m		224 Jun 30 j 16:20	$0^{\circ}\Omega$	
	222 Jan 06 j 00:17	0° ∡ ¹			224 Jul 25 j 07:44	0° m)	
morning max el	222 Jan 20 j 06:14	13° ∡ ³31'49	46°47'46		224 Aug 19 j 03:33	0∘ ত	
	222 Feb 04 j 23:30	0°రె		desc. node	224 Aug 24 j 15:44	6° £ 36'37	
	222 Mar 03 j 18:32	0° ≈			224 Sep 13 j 06:50	0°M	
desc. node	222 Mar 09 j 20:43	7° ≈ 01'07			224 Oct 08 j 23:34	0° ∡ ¹	
	222 Mar 29 j 13:07	0° \			224 Nov 04 j 23:20	0°ಕ	
	222 Apr 23 j 20:37	0° Υ		evening max el	224 Nov 12 j 17:50	8° පි 05'56	47°23'54
	222 May 18 j 21:34	0° 8		, and the second	224 Dec 06 j 17:46	0° ≈	
	222 Jun 12 j 17:03	0°II		asc. node	224 Dec 15 j 18:48	6°≈10'28	
asc. node	222 Jun 30 j 23:50	22° Ⅱ 17'30		greatest brilliancy	224 Dec 23 j 06:27	9° ≈ 50'50	-4.9m
use. Hous	222 Jul 07 j 06:49	0°9		retrograde	225 Jan 02 j 19:03	11° ≈ 58'16	,
morning set	222 Jul 19 j 17:12	15°©17'31		evening set	225 Jan 19 j 09:55	6°≈28'21	
morning sec	222 Jul 31 j 14:47	0° Ω		min. Earth dist.	225 Jan 22 j 15:03	4°≈30'11	0.27437 AU
max. Earth dist.	222 Aug 21 j 20:06		1.72229 AU	inferior conj	225 Jan 23 j 14:48	3°≈53'03	
max. Lartii dist.	222 Aug 21 j 20:00 222 Aug 24 j 17:53	0° m)	1.72227 AU	minimum elong	225 Jan 23 j 06:52	4°≈05'28	7°52'46
	222 Aug 24 j 17.33	پيا ∪		morning rise	225 Jan 27 j 04:15	1°≈41'45	7 32 40
superior conj	222 Aug 25 j 10:53	0° m 53'02	102436	morning risc	225 Jan 30 j 04:10	1 ≈41 43 30°Rる	
minimum elong	222 Aug 25 j 10:33 222 Aug 25 j 10:44	0° m ₀ 52'34		direct	225 Feb 13 j 06:34	30 KO 26° 石 01'38	
minimum clong		0° ʊ	1 24 37	greatest brilliancy	225 Feb 22 j 02:39	20 ප්රෝ38 27°ප්30'21	-4.8m
evening rise	222 Sep 17 j 17:58			greatest billiancy		27 3 3021 0° ≈	-4.0111
evening rise	222 Oct 02 j 17:53	18° Ω 46'51		marning may al	225 Feb 28 j 04:24		46906127
desc. node	222 Oct 11 j 16:54 222 Oct 20 j 13:28	0°ጤ 11°ጤ05'28		morning max el desc. node	225 Apr 03 j 15:05 225 Apr 06 j 08:21	26°≈58'18 29°≈37'43	46°06'27
desc. flode	·	0° ⊼		desc. Hode		29 ≈37 43 0° H	
	222 Nov 04 j 16:06				225 Apr 06 j 17:24		
	222 Nov 28 j 16:39	5°0			225 May 05 j 05:39	0°Υ 0°Υ	
	222 Dec 22 j 20:21	0° ≈ 0° ∀			225 May 31 j 20:05	0° Ⅱ	
	223 Jan 16 j 06:50	0 Υ 0° Υ			225 Jun 26 j 12:55		
,	223 Feb 10 j 06:40			1	225 Jul 21 j 15:08	0.20 0.20	
asc. node	223 Feb 10 j 16:29	0° Y 29'00		asc. node	225 Jul 28 j 11:38	8°5518'16	
	223 Mar 08 j 08:04	0° B			225 Aug 15 j 05:36	$0^{\circ}\Omega$	
	223 Apr 05 j 18:27	0°II	45005115		225 Sep 08 j 10:53	0° m/y	
evening max el	223 Apr 07 j 08:36	1° I I32'33		morning set	225 Sep 27 j 22:49	24° m/23'13	
greatest brilliancy	223 May 15 j 01:42	29° Ⅱ 15'29	-4.7m		225 Oct 02 j 10:09	0∘ 亚	
	223 May 17 j 05:57	0.@			225 Oct 26 j 06:34	0° M	
retrograde	223 May 25 j 23:39	1°523'53			22531 2611555	1.4000 1.010	0024:27
desc. node	223 Jun 02 j 06:05	0°520'54		superior conj	225 Nov 06 j 15:29	14°M19'03	
	223 Jun 03 j 09:02	30°RⅡ		minimum elong	225 Nov 06 j 21:40	14°M38'29	
evening set	223 Jun 10 j 02:09	27° Ⅱ 00'33	*****	max. Earth dist.	225 Nov 06 j 22:00	14°M39'32	1.71045 AU
inferior conj	223 Jun 16 j 10:44	23° Ⅱ 13'31		desc. node	225 Nov 17 j 01:20	27°M25'28	
minimum elong	223 Jun 16 j 03:59	23° Ⅱ 24'02			225 Nov 19 j 02:26	0° ∡	
min. Earth dist.	223 Jun 16 j 13:05		0.28937 AU	_	225 Dec 12 j 23:05	0° ろ	
morning rise	223 Jun 22 j 05:36	19° Ⅱ 44'36		evening rise	225 Dec 18 j 10:00	6° る 50'53	

	226 Jan 05 j 21:34	0° ≈			228 Aug 03 j 10:11	0_{\circ} වෙ	
	226 Jan 29 j 23:27	0° ∀		asc. node	228 Aug 24 j 23:29	25°516'04	
	226 Feb 23 j 07:14	$0^{\circ}\mathbf{\Upsilon}$			228 Aug 28 j 22:33	$0 {\circ} \Omega$	
asc. node	226 Mar 10 j 04:24	18° Ƴ 08'16			228 Sep 22 j 15:10	0° m	
	226 Mar 20 j 00:08	0°B			228 Oct 16 j 19:51	0∘ ⊽	
	226 Apr 14 j 06:31	0°II			228 Nov 09 j 18:27	0° M	
	226 May 10 j 10:27	0°@			228 Dec 03 j 14:59	0° ∡ 7	
	226 Jun 07 j 09:08	0°N		morning set	228 Dec 12 j 10:37	11° ×7 05'26	
evening max el	226 Jun 17 j 09:29	9° Ω 52'58	45°30'16	desc. node	228 Dec 12 j 10:37 228 Dec 14 j 13:11	13° × ⁷ 44'23	
•	-		45 50 10	desc. Hode	·		
desc. node	226 Jun 29 j 18:02	21° Ω 02'06			228 Dec 27 j 11:48	0° る	
	226 Jul 11 j 10:12	0° m)			229 Jan 20 j 10:09	0° ≈	
greatest brilliancy	226 Jul 26 j 14:32	7° m 55'45	-4.8m				
retrograde	226 Aug 05 j 02:36	9° m 33'04		superior conj	229 Jan 23 j 06:59	3° ≈ 35'15	
evening set	226 Aug 23 j 02:49	3° m 33'42		minimum elong	229 Jan 22 j 21:35	3° ≈ 05'52	1°16'13
inferior conj	226 Aug 26 j 05:30	1° m /40'11	-8°47'12	max. Earth dist.	229 Jan 27 j 07:50		1.71724 AU
minimum elong	226 Aug 26 j 05:25	1° m)40'19	8°47'13		229 Feb 13 j 11:00	0° ℋ	
min. Earth dist.	226 Aug 26 j 20:51	1° Mp 16'34	0.28026 AU	evening rise	229 Mar 04 j 08:35	23° ∺ 27'52	
	226 Aug 28 j 23:02	30°R Ω			229 Mar 09 j 15:21	$0^{\circ}\mathbf{\Upsilon}$	
morning rise	226 Aug 29 j 07:50	29° Ω 46'47			229 Apr 03 j 00:13	0°8	
direct	226 Sep 16 j 11:09	23° Ω 37'12		asc. node	229 Apr 06 j 16:20	4° 8 29'47	
greatest brilliancy	226 Sep 27 j 11:42	25° Ω 52'05	-4.9m		229 Apr 27 j 14:28	0°II	
B	226 Oct 05 j 16:40	0° m/y			229 May 22 j 11:11	0°ಅ	
asc. node	226 Oct 20 j 20:58	11° m p 19'32			229 Jun 16 j 16:47	$0 {\circ} \Omega$	
	226 Nov 06 j 01:05		46°49'14			0° m	
morning max el	-	26° Mp 39'35 0° <u> </u>	40 49 14	4 4-	229 Jul 12 j 12:35		
	226 Nov 09 j 06:57			desc. node	229 Jul 27 j 05:47	16° m 36'25	
	226 Dec 06 j 10:27	0° M ₊			229 Aug 08 j 11:10	0° ⊽	
	226 Dec 31 j 21:28	0° ∡ ¹		evening max el	229 Aug 29 j 10:39	21° ≙ 39'49	46°39'00
	227 Jan 25 j 18:01	0° ਰ			229 Sep 07 j 06:18	0°M₊	
desc. node	227 Feb 09 j 10:48	17° る 53'12		greatest brilliancy	229 Oct 09 j 03:12	21°M43'11	-4.9m
	227 Feb 19 j 09:12	0° ≈		retrograde	229 Oct 18 j 10:22	23°M21'03	
	227 Mar 15 j 22:34	0° ∀		evening set	229 Nov 02 j 04:32	19° ™ 05'09	
	227 Apr 09 j 11:30	0° Y		inferior conj	229 Nov 07 j 23:47	15°M42'24	-2°24'32
	227 May 04 j 00:12	0° 8		minimum elong	229 Nov 08 j 05:10	15°M34'14	2°22'51
morning set	227 May 11 j 00:45	8° 8 35'45		min. Earth dist.	229 Nov 08 j 05:36	15°M33'35	0.26415 AU
	227 May 28 j 12:02	$\Pi^{\circ}0$		morning rise	229 Nov 14 j 05:27	12°ML05'08	
asc. node	227 Jun 02 j 14:03	6° Ⅱ 14'17		asc. node	229 Nov 17 j 08:58	10°M33'22	
max. Earth dist.	227 Jun 14 j 03:14	20° Ⅲ 25'32	1.73540 AU	direct	229 Nov 28 j 08:13	8°M04'58	
	J			greatest brilliancy	229 Dec 08 j 18:49	10° M 09'16	-4.9m
superior conj	227 Jun 16 j 09:23	23° Ⅱ 12'01	0°31'57	<i>g. • •</i>	230 Jan 06 j 07:00	0° ∡ 7	
minimum elong	227 Jun 16 j 03:24	22° I 53'37		morning max el	230 Jan 17 j 20:27	11° × ⁷ 08'12	46°48'57
minimum crong	227 Jun 21 j 22:02	0°9	0 31 10	morning max or	230 Feb 04 j 17:59	0°ਰ	10 10 57
	227 Jul 16 j 05:45	0° U			230 Mar 03 j 09:23	0°≈	
arranina rica	227 Jul 10 j 03:45 227 Jul 22 j 02:55	7° Ω 16'05		desc. node		6°≈25'15	
evening rise				desc. node	230 Mar 08 j 22:41	0 ≈23 13 0° H	
	227 Aug 09 j 11:50	0° m)			230 Mar 29 j 02:15	0° Υ	
	227 Sep 02 j 17:35	0∘ ⊽			230 Apr 23 j 08:47		
desc. node	227 Sep 22 j 03:35	23° ♀ 59'32			230 May 18 j 09:08	0°8	
	227 Sep 27 j 00:27	0° M ₊			230 Jun 12 j 04:16	0° I	
	227 Oct 21 j 09:42	0° ∡ ¹		asc. node	230 Jun 30 j 01:52	21° ∏ 49'50	
	227 Nov 14 j 23:38	0° ප			230 Jul 06 j 17:51	0ಂತ	
	227 Dec 10 j 00:09	0° ≈		morning set	230 Jul 17 j 10:44	13° © 09'43	
	228 Jan 05 j 02:18	0° ∀			230 Jul 31 j 01:45	$0 {\circ} \Omega$	
asc. node	228 Jan 13 j 06:38	8° ¥ 55'42		max. Earth dist.	230 Aug 19 j 12:50	24° Ω 10'45	1.72281 AU
evening max el	228 Jan 24 j 03:48	20° ∺ 15′21	46°33'53				
	228 Feb 03 j 06:01	0° Y		superior conj	230 Aug 23 j 03:07	28° Ω 39'40	1°24'30
greatest brilliancy	228 Mar 03 j 14:12	20° Ƴ 27'43	-4.8m	minimum elong	230 Aug 23 j 02:14	28° Ω 36'53	1°24'30
retrograde	228 Mar 14 j 05:38	22° Y '34'08			230 Aug 24 j 04:53	0° m	
evening set	228 Mar 30 j 23:03	17° Ƴ 09'06			230 Sep 17 j 05:04	0∘ <u>⊽</u>	
inferior conj	228 Apr 04 j 14:16	14° Y 16'38	6°09'54	evening rise	230 Sep 30 j 06:38	16° ≏ 21'26	
minimum elong	228 Apr 04 j 23:47	14° Y 01'31	6°07'58		230 Oct 11 j 04:10	0°M	
min. Earth dist.	228 Apr 04 j 16:14	14° Υ 13'30	0.28817 AU	desc. node	230 Oct 11 j 04.10 230 Oct 19 j 15:35	10°MJ36'32	
morning rise	228 Apr 04 j 10:14 228 Apr 10 j 00:43	14 γ 15 30	J.2001/ MO	dose. Hode	230 Nov 04 j 03:34	10 11 6 30 32	
direct	228 Apr 10 j 00:43 228 Apr 26 j 00:18	6° Υ 00'54				0°궁	
		6°° γ ′00′54 7° Υ 08′25			230 Nov 28 j 04:22		
desc. node	228 May 03 j 20:09		4 7m-		230 Dec 22 j 08:24	0° ≈	
greatest brilliancy	228 May 05 j 22:43	7° Y 47'49	-4.7m		231 Jan 15 j 19:22	0°) (
	228 Jun 07 j 13:39	0.8	45044125	asc. node	231 Feb 09 j 18:30	29° ¥ 55'11	
morning max el	228 Jun 13 j 17:45	5° 8 43'58	45~44'3"/		231 Feb 09 j 20:08	0° Υ	
	228 Jul 07 j 12:46	Π °0			231 Mar 07 j 23:40	0° 8	

	221 4 05 : 01.14	200	45920127		222 0-4 01 : 21-22	000	
evening max el	231 Apr 05 j 01:14	29° 8 23'27	45°28'37		233 Oct 01 j 21:22	0∘ 亚	
	231 Apr 05 j 16:24	0°Ⅱ 27°Ⅱ05'52	4.7		233 Oct 25 j 17:49	0° M ₊	
greatest brilliancy	231 May 12 j 17:09	2/°Щ05′52 29° Ц 14′56	-4.7m		222 N 04 : 02-00	11° M .45'35	0920111
retrograde desc. node	231 May 23 j 16:23 231 Jun 01 j 08:11	29 II 14 36 27° II 45'35		superior conj	233 Nov 04 j 02:00	12°ML07'33	0°27'52
evening set	231 Jun 07 j 17:40	24° I I52'39		minimum elong max. Earth dist.	233 Nov 04 j 08:58 233 Nov 04 j 00:30	12 11607 33 11°M40'54	1.71057 AU
inferior conj	231 Jun 14 j 03:01	24 II 32 39 21° II 04'04	2056/10	desc. node	233 Nov 04 j 00.30 233 Nov 16 j 03:29	26°M56'41	1./103/ AU
minimum elong	231 Jun 13 j 20:49	21° I I13'42		desc. Hode	233 Nov 10 j 03:29 233 Nov 18 j 13:44	20 IIG3041 0° ⊼	
min. Earth dist.	231 Jun 14 j 05:00	21° I 100'58	0.28948 AU		233 Dec 12 j 10:25	°ੇਤ	
morning rise	231 Jun 19 j 23:52	17° II 32'23	0.28948 AU	evening rise	233 Dec 12 j 10:23 233 Dec 15 j 19:28	0 0 4° ठ 14'24	
direct	231 Jul	17 H 3223		evening rise	234 Jan 05 j 08:56	4°≈	
greatest brilliancy	231 Jul 16 j 10:38	12 ∏ 4010 14° ∏ 48'11	-4.7m		234 Jan 29 j 10:57	0° ∺	
greatest offinancy	231 Aug 09 j 11:22	0°95	-4 ./III		234 Feb 22 j 18:58	0° Υ	
morning max el	231 Aug 09 j 11:22 231 Aug 24 j 03:26	13° 5 20'34	46°07'36	asc. node	234 Nev 22 j 18:38 234 Mar 09 j 06:29	0 1 17° Υ 38'19	
morning max er	231 Aug 24 j 03.20 231 Sep 09 j 08:36	13 3 20 34 0° Ω	40 07 30	asc. Houe	234 Mar 19 j 12:20	0° 8	
asc. node	231 Sep 09 j 08:30 231 Sep 22 j 11:21	14° Ω 26'39			234 Apr 13 j 19:39	0°II	
asc. Houe		0° m)				0°©	
	231 Oct 06 j 00:33	0∘ ⊽ ∩ װ			234 May 10 j 01:30	0° U	
	231 Oct 31 j 03:46				234 Jun 07 j 05:10		45020150
	231 Nov 24 j 14:19	0° M 0° ₹		evening max el	234 Jun 14 j 23:03	7° Ω 35'28	45°28'50
	231 Dec 18 j 18:01	0° ∡		desc. node	234 Jun 28 j 20:01	20° Ω 00'55	
	232 Jan 11 j 19:57	0°る			234 Jul 12 j 12:15	0° Mp	4.0
desc. node	232 Jan 12 j 00:58	0° ප 15'38		greatest brilliancy	234 Jul 24 j 03:43	5° m/38'25	-4.8m
	232 Feb 04 j 22:23	0° ≈		retrograde	234 Aug 02 j 15:53	7° Mp 16'15	
morning set	232 Feb 27 j 20:39	28° ≈ 27'59		evening set	234 Aug 20 j 15:48	1°m/18'16	
	232 Feb 29 j 02:21	0° ∺			234 Aug 22 j 19:38	30°R Ω	
	232 Mar 24 j 08:22	0° Y		inferior conj	234 Aug 23 j 19:56	29° Ω 22'39	
				minimum elong	234 Aug 23 j 18:58	29° Ω 24'09	
superior conj	232 Apr 06 j 05:04	15° Ƴ 51'51		min. Earth dist.	234 Aug 24 j 11:01	28° Ω 59'26	0.28084 AU
minimum elong	232 Apr 06 j 14:40		0°59'31	morning rise	234 Aug 26 j 21:55	27° Ω 29'39	
max. Earth dist.	232 Apr 08 j 08:07	18° Ƴ 29'05	1.73248 AU	direct	234 Sep 14 j 01:37	21° Ω 18'34	
	232 Apr 17 j 16:37	9° 8		greatest brilliancy	234 Sep 25 j 03:13	23° £ 33'46	-4.9m
asc. node	232 May 04 j 04:18	20° 8 15'30			234 Oct 06 j 22:26	0° m)	
	232 May 12 j 02:48	Π $^{\circ}0$		asc. node	234 Oct 19 j 23:11	10° m 16'06	
evening rise	232 May 13 j 08:25	1° Ⅱ 30'48		morning max el	234 Nov 03 j 14:24	24° M y 14'05	46°48'15
	232 Jun 05 j 14:31	0ಂಣ			234 Nov 09 j 03:57	0∘ ত	
	232 Jun 30 j 03:47	$0^{\circ}\Omega$			234 Dec 06 j 02:26	0°M	
	232 Jul 24 j 19:41	0° m)			234 Dec 31 j 11:26	0° ∡ ¹	
	232 Aug 18 j 16:16	0∘ 亚			235 Jan 25 j 06:52	0°ರ	
desc. node	232 Aug 23 j 17:40	6° ჲ 03'42		desc. node	235 Feb 08 j 12:52	17° ට 21'44	
	232 Sep 12 j 20:45	0° M .			235 Feb 18 j 21:19	0° ≈	
	232 Oct 08 j 15:34	0° ∡ ¹			235 Mar 15 j 10:12	0°) €	
	232 Nov 04 j 20:06	ರ°0			235 Apr 08 j 22:47	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	232 Nov 10 j 09:11	5°る44'30	47°24'02		235 May 03 j 11:16	8°	
_	232 Dec 07 j 14:29	0° ≈		morning set	235 May 08 j 18:45	6° 8 30'14	
asc. node	232 Dec 14 j 20:49	4°≈36'42		•	235 May 27 j 22:57	$\Pi^{\circ}0$	
greatest brilliancy	232 Dec 20 j 21:06	7° ≈ 26'28	-4.9m	asc. node	235 Jun 01 j 16:05	5° Ⅱ 47'05	
retrograde	232 Dec 31 j 09:34	9° ≈ 33'14		max. Earth dist.	235 Jun 11 j 23:34	18° Ⅱ 27'06	1.73561 AU
evening set	233 Jan 16 j 20:21	4° ≈ 09'36			J		
min. Earth dist.	233 Jan 20 j 04:25	2°≈06'59	0.27368 AU	superior conj	235 Jun 14 j 04:05	21° Ⅱ 08'30	0°29'03
inferior conj	233 Jan 21 j 04:36	1° ≈ 29'08	7°44'13	minimum elong	235 Jun 13 j 22:33	20° Ⅱ 51'31	0°28'48
minimum elong	233 Jan 20 j 20:11	1° ≈ 42'20	7°42'59	Č	235 Jun 21 j 08:54	0ංම	
, and the second	233 Jan 23 j 14:05	30°Rる			235 Jul 15 j 16:42	$0^{\circ}\Omega$	
morning rise	233 Jan 24 j 20:30	29° る 14'13		evening rise	235 Jul 19 j 21:29	5° Ω 11'17	
direct	233 Feb 10 j 20:08	23° る 39'07		<i>3</i> 21	235 Aug 08 j 22:57	0° m/y	
greatest brilliancy	233 Feb 19 j 15:30	25° る 07'14	-4.8m		235 Sep 02 j 05:01	0∘ <mark>ಹ</mark>	
greatest orimaney	233 Mar 02 j 01:59	0°≈	1.0111	desc. node	235 Sep	23° ≏ 30'01	
morning max el	233 Apr 01 j 04:44	24° ≈ 38'34	46°07'49	desc. node	235 Sep 26 j 12:18	0°M	
desc. node	233 Apr 05 j 10:28	28°≈48'31			235 Oct 20 j 22:05	0° ⊼	
dese. Houe	233 Apr 05 j 10:28 233 Apr 06 j 15:06	20 ≈ 40 31			235 Nov 14 j 12:48	0°る	
	233 Apr 00 j 13:00 233 May 04 j 21:26	0° Υ			235 Nov 14 j 12:48 235 Dec 09 j 14:39	0°≈	
	233 May 31 j 09:34	%8 0 1			236 Jan 04 j 19:40	0 ≈ 0° ∺	
	233 Jun 26 j 01:14	0°II		asc. node	236 Jan 12 j 08:38	8° ∺ 10'37	
	233 Jul 20 j 01:14 233 Jul 21 j 02:49	0°9		evening max el	236 Jan 21 j 17:43	8 X 1037 17° X 54'40	46°36'39
ace node		0°93 7°9349'17		evening max ei	•	1/° π 3440	1 0 30 39
asc. node	233 Jul 27 j 13:39	/°≌49°1/ 0°Ω		grantest brillians	236 Feb 03 j 09:24	18° Υ 16'02	-4.8m
	233 Aug 14 j 16:58			greatest brilliancy	236 Mar 01 j 07:03	20° Y 22'38	1 .0111
morning set	233 Sep 07 j 22:07 233 Sep 25 j 12:41	0° Mp 22° Mp 01'03		retrograde evening set	236 Mar 11 j 22:02 236 Mar 28 j 18:02	20° γ 22'38 14° Υ 53'13	
morning set	233 Sep 23 J 12.41	2010 پر ۱۱ م		evening set	230 Iviai 20 J 10.02	17 33 13	

inferior conj	236 Apr 02 j 06:32	12° Y °05'00	6°23'41	evening rise	238 Sep 27 j 19:48	13° ≏ 58'00	
minimum elong	236 Apr 02 j 16:01	11° Y 49'58	6°21'50		238 Oct 10 j 15:13	0° M	
min. Earth dist.	236 Apr 02 j 08:09	12° Y ′02'26	0.28795 AU	desc. node	238 Oct 18 j 17:42	10°ML08'23	
morning rise	236 Apr 07 j 14:11	8° Y 48'49			238 Nov 03 j 14:48	0° ∡ ¹	
direct	236 Apr 23 j 15:32	3° Y 49'29			238 Nov 27 j 15:50	0°ಕ	
desc. node	236 May 02 j 22:18	5° Y ′23′20			238 Dec 21 j 20:11	0° ≈	
greatest brilliancy	236 May 03 j 14:04	5° Ƴ 36′29	-4.7m		239 Jan 15 j 07:41	0° ₩	
,	236 Jun 07 j 14:36	0°B		asc. node	239 Feb 08 j 20:34	29° ∺ 22'08	
morning max el	236 Jun 11 j 09:44	3° 8 33'48	45°44'43		239 Feb 09 j 09:28	0° Υ	
	236 Jul 07 j 05:08	0°II			239 Mar 07 j 15:18	0°8	
	236 Aug 02 j 23:48	0°©		evening max el	239 Apr 02 j 18:00	27° 8 15'06	45°30'01
asc. node	236 Aug 24 j 01:34	24°9544'55		evening max er	239 Apr 05 j 15:04	0°II	13 30 01
ase. Houe	236 Aug 28 j 10:56	0°Ω		greatest brilliancy	239 May 10 j 09:26	24° ∏ 57'48	-4.7m
	236 Sep 22 j 02:56	0° m)		retrograde	239 May 21 j 08:47	27° I 106'38	-4.7111
	236 Oct 16 j 07:19	0∘ ت رااا		desc. node	239 May 31 j 10:08	25° I 106'38	
		0° ™				22° I I45'26	
	236 Nov 09 j 05:45			evening set	239 Jun 05 j 09:26		2027125
	236 Dec 03 j 02:12	0° ∡¹		inferior conj	239 Jun 11 j 19:22	18° I I55'35	
morning set	236 Dec 09 j 20:20	8° ∡ 129'47		minimum elong	239 Jun 11 j 13:47	19° Ⅱ 04'18	
desc. node	236 Dec 13 j 15:11	13° ∡ 15′25		min. Earth dist.	239 Jun 11 j 21:16	18° Ⅱ 52'36	0.28953 AU
	236 Dec 26 j 22:58	0°ප		morning rise	239 Jun 17 j 18:04	15° Ⅱ 21'04	
	237 Jan 19 j 21:16	0° ≈		direct	239 Jul 03 j 12:26	10° Ⅱ 37'47	
				greatest brilliancy	239 Jul 14 j 01:55	12° Ⅲ 38′21	-4.7m
superior conj	237 Jan 20 j 17:43	1° ≈ 04'00	-1°14'36		239 Aug 09 j 16:52	0 \circ	
minimum elong	237 Jan 20 j 07:41	0° ≈ 32'35	1°14'22	morning max el	239 Aug 21 j 18:55	11° 5 08'09	46°06'05
max. Earth dist.	237 Jan 24 j 14:15	5° ≈ 53'17	1.71674 AU		239 Sep 09 j 01:52	$0 {\circ} \Omega$	
	237 Feb 12 j 22:03	0° ∀		asc. node	239 Sep 21 j 13:30	13° Ω 49'25	
evening rise	237 Mar 01 j 21:46	21° ∺ 05'58			239 Oct 05 j 14:37	0° m)	
	237 Mar 09 j 02:23	0° Y			239 Oct 30 j 16:28	0∘ ত	
	237 Apr 02 j 11:19	9° 8			239 Nov 24 j 02:19	0° M .	
asc. node	237 Apr 05 j 18:29	4° 8 02'21			239 Dec 18 j 05:36	0° ∡ ¹	
	237 Apr 27 j 01:48	$\Pi^{\circ}0$		desc. node	240 Jan 11 j 03:03	29° ҂ ¹47'02	
	237 May 21 j 23:02	0°©			240 Jan 11 j 07:13	0°ಕ	
	237 Jun 16 j 05:33	$\mathfrak{O}^{\circ} \mathfrak{O}$			240 Feb 04 j 09:25	0° ≈	
	237 Jul 12 j 03:01	0° m)		morning set	240 Feb 25 j 10:12	26° ≈ 07'34	
desc. node	237 Jul 26 j 07:49	15° m 57'52		<i>5 5 1 1 1 1 1 1 1 1 1 1</i>	240 Feb 28 j 13:11	0°) €	
	237 Aug 08 j 05:06	0∘ ಹ			240 Mar 23 j 19:04	0° Υ	
evening max el	237 Aug 27 j 00:17	19° ≏ 18'15	46°36'31		21011111 25 j 15.01	•	
o ronning musicus	237 Sep 07 j 11:38	0°M	.0 3031	superior conj	240 Apr 03 j 21:15	13° Ƴ 40'54	-1°02'12
greatest brilliancy	237 Oct 06 j 15:31	19° M L15'04	-4 9m	minimum elong	240 Apr 04 j 06:53	14° Υ 10'36	
retrograde	237 Oct 15 j 23:03	20°M52'47	4.7111	max. Earth dist.	240 Apr 06 j 05:16		1.73210 AU
evening set	237 Oct 30 j 18:49	16°M33'51		max. Larm dist.	240 Apr 00 j 03:16 240 Apr 17 j 03:16	0° 8	1.73210 AC
inferior conj	237 Oct 30 j 18:49 237 Nov 05 j 11:55	13°ML13'59	2040102	asc. node	240 May 03 j 06:17	19° 8 48'51	
				evening rise		29° 8 26'31	
minimum elong	237 Nov 05 j 18:07	13°M04'36		evening rise	240 May 11 j 02:35		
min. Earth dist.	237 Nov 05 j 18:51		0.26442 AU		240 May 11 j 13:30	0° Ⅱ	
morning rise	237 Nov 11 j 17:06	9°M37'45			240 Jun 05 j 01:21	0° ©	
asc. node	237 Nov 16 j 10:56	7°M26'35			240 Jun 29 j 14:54	0° N	
direct	237 Nov 25 j 21:17	5°M36'07	4.0		240 Jul 24 j 07:18	0° m)	
greatest brilliancy	237 Dec 06 j 08:21	7°M41'23	-4.9m		240 Aug 18 j 04:41	0° ⊽	
	238 Jan 06 j 11:25	0° ∡ ¹		desc. node	240 Aug 22 j 19:50	5° △ 32'29	
morning max el	238 Jan 15 j 11:07	8° ∡ ¹46'10	46°49'48		240 Sep 12 j 10:25	0° M ₊	
	238 Feb 04 j 11:55	0°ප			240 Oct 08 j 07:28	0° ∡ ¹	
	238 Mar 03 j 00:00	0° ≈			240 Nov 04 j 17:09	0° ਰ	
desc. node	238 Mar 08 j 00:50	5°≈50'16		evening max el	240 Nov 07 j 23:57	3° る 22'32	47°23'59
	238 Mar 28 j 15:15	0° ℋ			240 Dec 08 j 17:57	0° ≈	
	238 Apr 22 j 20:49	0° Y		asc. node	240 Dec 13 j 22:51	3° ≈ 00'45	
	238 May 17 j 20:33	$_{0\circ}$ 8		greatest brilliancy	240 Dec 18 j 12:25	5° ≈ 04'00	-4.9m
	238 Jun 11 j 15:17	Π°		retrograde	240 Dec 28 j 23:39	7° ≈ 09'26	
asc. node	238 Jun 29 j 03:51	21° Ⅱ 22'39		evening set	241 Jan 14 j 06:46	1° ≈ 52'18	
	238 Jul 06 j 04:39	0ංම			241 Jan 17 j 08:27	30°R₹	
morning set	238 Jul 15 j 04:20	11° © 02'55		min. Earth dist.	241 Jan 17 j 18:17	29° る 44'38	0.27298 AU
	238 Jul 30 j 12:30	$0^{\circ}\Omega$		inferior conj	241 Jan 18 j 18:29	29° る 06'45	7°33'38
max. Earth dist.	238 Aug 17 j 03:48	21° Ω 54'19	1.72334 AU	minimum elong	241 Jan 18 j 09:36	29° る 20'39	7°32'15
				morning rise	241 Jan 22 j 12:55	26° る 47'58	
superior conj	238 Aug 20 j 19:39	26° Ω 27'54	1°24'16	direct	241 Feb 08 j 09:12	21° る 18'03	
minimum elong	238 Aug 20 j 18:01	26° Ω 22'50		greatest brilliancy	241 Feb 17 j 04:59	22° る 46'09	-4.8m
5	238 Aug 23 j 15:42	0° m)		-	241 Mar 03 j 08:11	0° ≈	
	238 Sep 16 j 15:59	0∘ <u>ಹ</u>		morning max el	241 Mar 29 j 17:43	22°≈18'26	46°09'10
	1 3			<i>5</i>	J		

desc. node	241 Apr 04 j 12:37	28° ≈ 01'39			243 Oct 20 j 10:14	0° ∡ ¹	
	241 Apr 06 j 11:29	0° ∀			243 Nov 14 j 01:45	6°0	
	241 May 04 j 12:32	0° Υ			243 Dec 09 j 05:00	0° ≈	
	241 May 30 j 22:33	0° 8			244 Jan 04 j 13:07	0° ∀	
	241 Jun 25 j 13:09	0°II		asc. node	244 Jan 11 j 10:47	7° ¥ 26'02	
	241 Jul 20 j 14:08	0° ©		evening max el	244 Jan 19 j 08:40	15° ¥ 37'13	46°39'19
asc. node	241 Jul 26 j 15:47	7° 5 21'43		evening max er	244 Feb 03 j 14:15	0° Υ	10 37 17
ase. Houe	241 Aug 14 j 03:56	0° Ω		greatest brilliancy	244 Feb 27 j 23:20	16° Ƴ 04'09	-4.8m
	241 Sep 07 j 08:56	0° m)		retrograde	244 Mar 09 j 14:52	18° Υ 11'34	4.0111
morning set	241 Sep 07 j 08:30 241 Sep 23 j 02:42	19° m y 40'41		evening set	244 Mar 26 j 12:57	12° Υ 37'42	
morning set	241 Oct 01 j 08:10	0₀ ʊ		inferior conj	244 Mar 30 j 22:43	9° Υ 53'43	6°36'50
	·			-	-	9° Y 38'49	6°35'05
E d E d	241 Oct 25 j 04:41	0°M	1 71077 ATT	minimum elong	244 Mar 31 j 08:08		
max. Earth dist.	241 Nov 01 j 03:57	8°11L46'27	1.71077 AU	min. Earth dist.	244 Mar 30 j 23:41	9° Y 52'12	0.28772 AU
				morning rise	244 Apr 05 j 03:30	6° Y 41'59	
superior conj	241 Nov 01 j 12:46	9° M ₁4'12	0°31'51	direct	244 Apr 21 j 07:04	1° Y 38'30	
minimum elong	241 Nov 01 j 20:29	9° ™ 38'30	0°31'29	greatest brilliancy	244 May 01 j 04:50	3° Y 25′12	-4.7m
desc. node	241 Nov 15 j 05:26	26°M28'28		desc. node	244 May 02 j 00:12	3° Y 42′23	
	241 Nov 18 j 00:40	0° ∡ ¹			244 Jun 07 j 14:02	9° 8	
	241 Dec 11 j 21:23	0°ಕ		morning max el	244 Jun 09 j 02:25	1° 8 26'10	45°44'50
evening rise	241 Dec 13 j 05:07	1°る39'35			244 Jul 06 j 20:56	Π $^{\circ}0$	
	242 Jan 04 j 19:57	0° ≈			244 Aug 02 j 13:05	0 \circ \odot	
	242 Jan 28 j 22:04	0° ∀		asc. node	244 Aug 23 j 03:41	24° © 14'27	
	242 Feb 22 j 06:19	0° Υ			244 Aug 27 j 23:06	$0^{\circ}\Omega$	
asc. node	242 Mar 08 j 08:38	17° Ƴ 09'51			244 Sep 21 j 14:33	0° m)	
	242 Mar 19 j 00:09	0° 8			244 Oct 15 j 18:39	0∘ <u>⊽</u>	
	242 Apr 13 j 08:26	0°II			244 Nov 08 j 16:56	0° M	
	242 May 09 j 16:20	0° ©			244 Dec 02 j 13:17	0° ∡ 7	
	242 Jun 07 j 01:26	0° U		morning set	244 Dec 07 j 06:04	5° × 754'43	
evening max el	242 Jun 12 j 12:43	5° Ω 19'17	15027128	desc. node	244 Dec 12 j 17:15	12° × 747'11	
desc. node		18° Ω 59'21	43 27 28	desc. Hode	244 Dec 26 j 09:58	12 メ 47 11 0°る	
desc. node	242 Jun 27 j 22:07				244 Dec 20 J 09.38	0.0	
	242 Jul 14 j 00:16	0°M)	4.7		245 1 10:04.12	200₹22122	1912127
greatest brilliancy	242 Jul 21 j 16:29	3° Mp 21'46	-4.7m	superior conj	245 Jan 18 j 04:13	28° る 32'22	
retrograde	242 Jul 31 j 05:44	5° m 00'54		minimum elong	245 Jan 17 j 17:37	27° ප් 59'13	1°12'21
	242 Aug 16 j 14:06	30°R€			245 Jan 19 j 08:13	0° ≈	
evening set	242 Aug 18 j 04:26	29° Ω 04'38		max. Earth dist.	245 Jan 21 j 22:49	3°≈15'51	1.71629 AU
inferior conj	242 Aug 21 j 10:27	27°Ω06'25			245 Feb 12 j 08:59	0° ∺	
minimum elong	242 Aug 21 j 08:38	27° Ω 09'13		evening rise	245 Feb 27 j 10:50	18°) 43′57	
min. Earth dist.	242 Aug 22 j 01:06		0.28141 AU		245 Mar 08 j 13:20	0° Y	
morning rise	242 Aug 24 j 12:35	25° Ω 13'16			245 Apr 01 j 22:21	$_{0\circ}$ 8	
direct	242 Sep 11 j 16:16	19° Ω 01'15		asc. node	245 Apr 04 j 20:29	3° 8 34'37	
greatest brilliancy	242 Sep 22 j 18:49	21° Ω 17'06	-4.8m		245 Apr 26 j 13:05	Π $^{\circ}0$	
	242 Oct 07 j 19:25	0° m)			245 May 21 j 10:50	$0 \circ \mathfrak{S}$	
asc. node	242 Oct 19 j 01:10	9° m 14'51			245 Jun 15 j 18:17	$0^{\circ}\Omega$	
morning max el	242 Nov 01 j 04:37	21° m 52'13	46°47'14		245 Jul 11 j 17:31	0° m y	
	242 Nov 08 j 23:50	0∘ 亚		desc. node	245 Jul 25 j 09:57	15° m 19'23	
	242 Dec 05 j 17:47	0° M .			245 Aug 07 j 23:27	0∘ ट	
	242 Dec 31 j 00:54	0° ∡ ″		evening max el	245 Aug 24 j 14:32	16° ≏ 58'18	46°33'45
	243 Jan 24 j 19:18	ರ∘ರ		C	245 Sep 07 j 19:14	0° M .	
desc. node	243 Feb 07 j 14:58	16° る 51'21		greatest brilliancy	245 Oct 04 j 03:41	16°M46'28	-4.9m
	243 Feb 18 j 09:05	0° ≈		retrograde	245 Oct 13 j 11:18	18°M23'36	
	243 Mar 14 j 21:29	0° ₩		evening set	245 Oct 28 j 09:08	14° ML 01'45	
	243 Apr 08 j 09:44	0° Υ		inferior conj	245 Nov 02 j 23:51	10°M44'50	-3°11'17
	243 May 02 j 21:58	0°8		minimum elong	245 Nov 03 j 06:49	10°MJ34'18	
marning act		4° 8 26'00		min. Earth dist.	245 Nov 03 j 00:49 245 Nov 03 j 07:54		0.26471 AU
morning set	243 May 06 j 12:51	4 3 2600 0° Ⅱ			3		0.204/1 AU
1	243 May 27 j 09:31			morning rise	245 Nov 09 j 04:15	7°M09'45	
asc. node	243 May 31 j 18:06	5° Ⅱ 20'49	1.72502.411	asc. node	245 Nov 15 j 12:58	4°M24'04	
max. Earth dist.	243 Jun 09 j 21:48	16°Щ35′31	1.73583 AU	direct	245 Nov 23 j 10:21	3°M06'40	
				greatest brilliancy	245 Dec 03 j 21:32	5°M12'23	-4.9m
superior conj	243 Jun 11 j 22:48	19° Ⅱ 06'03			246 Jan 06 j 14:18	0° ∡ ¹	
minimum elong	243 Jun 11 j 17:46	18° Ⅱ 50'35	0°25'53	morning max el	246 Jan 13 j 01:03	6° ∡ ¹22'00	46°50'39
	243 Jun 20 j 19:28	0 \circ \odot			246 Feb 04 j 05:29	0° ප	
	243 Jul 15 j 03:22	$0^{\circ}\Omega$			246 Mar 02 j 14:28	0° ≈	
evening rise	243 Jul 17 j 16:08	3° Ω 07'35		desc. node	246 Mar 07 j 02:55	5° ≈ 15'22	
	243 Aug 08 j 09:51	0° m)			246 Mar 28 j 04:10	0° ∀	
	243 Sep 01 j 16:14	0∘ 亚			246 Apr 22 j 08:49	0° Y	
desc. node	243 Sep 20 j 07:49	23° ჲ 00'55			246 May 17 j 07:58	0°8	
	243 Sep 25 j 23:54	0° M .			246 Jun 11 j 02:20	0°II	
	r . j ==				J		

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asc. node	246 Jun 28 j 06:03	20° Ⅱ 55'57			249 Jan 10 j 22:13	30°Rる	
	246 Jul 05 j 15:31	$0 \circ \mathfrak{S}$		evening set	249 Jan 11 j 16:56	29° る 33'02	
morning set	246 Jul 12 j 22:12	8° © 56'52		min. Earth dist.	249 Jan 15 j 08:20	27° る 19'54	0.27233 AU
	246 Jul 29 j 23:19	$0^{\circ}\Omega$		inferior conj	249 Jan 16 j 08:12	26° ප් 42'33	7°22'05
max. Earth dist.	246 Aug 14 j 18:07	19° Ω 35'54	1.72390 AU	minimum elong	249 Jan 15 j 22:55	26° る 57'06	7°20'31
				morning rise	249 Jan 20 j 05:20	24° ප 19'43	
superior conj	246 Aug 18 j 12:29	24° Ω 17'08	1°23'54	direct	249 Feb 05 j 21:46	18° る 54'47	
minimum elong	246 Aug 18 j 10:09	24° Ω 09'50	1°23'54	greatest brilliancy	249 Feb 14 j 19:04	20°る23'49	-4.8m
	246 Aug 23 j 02:33	0°m		8	249 Mar 04 j 06:51	0° ≈	
	246 Sep 16 j 02:58	0∘ ಹ		morning max el	249 Mar 27 j 06:33	19° ≈ 56'15	46°10'39
evening rise	246 Sep 25 j 09:09	0 — 11° ≏ 34'54		desc. node	249 Apr 03 j 14:35	27°≈13'38	40 1037
evening rise		0°M		desc. Hode	249 Apr 06 j 07:46	0° \	
4 4-	246 Oct 10 j 02:23					0° Υ	
desc. node	246 Oct 17 j 19:40	9°M39'23			249 May 04 j 03:51		
	246 Nov 03 j 02:12	0° ∡			249 May 30 j 11:50	0°8	
	246 Nov 27 j 03:30	0° ප			249 Jun 25 j 01:22	$\Pi^{\circ}0$	
	246 Dec 21 j 08:10	0° ≈			249 Jul 20 j 01:46	0ංම	
	247 Jan 14 j 20:13	0° ∀		asc. node	249 Jul 25 j 17:50	6°©52'51	
asc. node	247 Feb 07 j 22:41	28°) 48′30			249 Aug 13 j 15:15	$0 { m ^{\circ}} \Omega$	
	247 Feb 08 j 23:04	0 ° $\mathbf{\Upsilon}$			249 Sep 06 j 20:06	O° m y	
	247 Mar 07 j 07:22	$_{0\circ}$ 8		morning set	249 Sep 20 j 17:07	17° m 20'30	
evening max el	247 Mar 31 j 10:05	25° 8 04'21	45°31'26		249 Sep 30 j 19:18	0∘ ত	
	247 Apr 05 j 14:59	$\Pi^{\circ}0$			249 Oct 24 j 15:51	0°M,	
greatest brilliancy	247 May 08 j 02:11	22° Ⅱ 49'36	-4.7m	max. Earth dist.	249 Oct 29 j 10:48	6°ML01'49	1.71096 AU
retrograde	247 May 19 j 00:35	24° Ⅱ 57'46			,		
desc. node	247 May 30 j 12:18	22° I I22'42		superior conj	249 Oct 30 j 00:00	6°M43'23	0°35'23
evening set	247 Jun 03 j 01:21	20° II 37'22		minimum elong	249 Oct 30 j 08:23	7° ML 09'45	0°35'00
•	-	16° Ⅱ 46'38	2010125	desc. node	•	25°M59'59	0 33 00
inferior conj	247 Jun 09 j 11:43			desc. node	249 Nov 14 j 07:34		
minimum elong	247 Jun 09 j 06:46	16° Ⅱ 54'22			249 Nov 17 j 11:52	0° ⊀ ⁷	
min. Earth dist.	247 Jun 09 j 13:55		0.28957 AU	evening rise	249 Dec 10 j 15:05	29° ₹ 04'52	
morning rise	247 Jun 15 j 12:04	13° Ⅱ 09'20			249 Dec 11 j 08:39	0°る	
direct	247 Jul 01 j 04:51	8° Ⅱ 28'49			250 Jan 04 j 07:19	0° ≈	
greatest brilliancy	247 Jul 11 j 17:43	10° Ⅱ 28'28	-4.7m		250 Jan 28 j 09:34	0° ∀	
	247 Aug 09 j 20:43	0 \circ \odot			250 Feb 21 j 18:06	$0^{\circ}\mathbf{\Upsilon}$	
morning max el	247 Aug 19 j 09:31	8° © 53'10	46°04'45	asc. node	250 Mar 07 j 10:35	16° Ƴ 39'24	
	247 Sep 08 j 18:56	0 $^{\circ}\Omega$			250 Mar 18 j 12:27	9° 8	
asc. node	247 Sep 20 j 15:30	13° Ω 11'37			250 Apr 12 j 21:45	Π $^{\circ}0$	
	247 Oct 05 j 04:43	0° m			250 May 09 j 07:51	0 \circ \odot	
	247 Oct 30 j 05:18	0∘ ত			250 Jun 06 j 22:56	$0^{\circ}\Omega$	
	247 Nov 23 j 14:30	0° M ₊		evening max el	250 Jun 10 j 02:48	3° Ω 03'02	45°26'15
	247 Dec 17 j 17:25	0°⊀		desc. node	250 Jun 27 j 00:14	17° Ω 54'59	
desc. node	248 Jan 10 j 05:13	29° ∡ 17'45			250 Jul 16 j 09:09	0° m	
	248 Jan 10 j 18:47	0° ප		greatest brilliancy	250 Jul 19 j 04:33	1° m 03'16	-4 7m
	248 Feb 03 j 20:44	0° ≈		retrograde	250 Jul 28 j 20:05	2° m/44'23	1.7111
morning set	248 Feb 22 j 23:11	23°≈44'24		retrograde	250 Aug 09 j 16:45	30°R Ω	
morning set	248 Feb 28 j 00:18	0°) €		evening set	250 Aug 05 j 16:45 250 Aug 15 j 16:39	26° Ω 50'14	
		0°Υ		•	• •	24° Ω 48'50	0041100
	248 Mar 23 j 06:03	U		inferior conj	250 Aug 19 j 00:53		
	240 4 01:12.00	110000000	100.412.0	minimum elong	250 Aug 18 j 22:13	24° £ 52′56	
superior conj	248 Apr 01 j 13:08	11° Υ 28'09		min. Earth dist.	250 Aug 19 j 14:48	24° Ω 27'28	0.28196 AU
minimum elong	248 Apr 01 j 22:45	11° Y 57'49		morning rise	250 Aug 22 j 03:34	22° Ω 55'01	
max. Earth dist.	248 Apr 04 j 01:33	14° Ƴ 34'23	1.73166 AU	direct	250 Sep 09 j 07:19	16° Ω 42'38	
	248 Apr 16 j 14:12	0°8		greatest brilliancy	250 Sep 20 j 10:01	18° Ω 58'51	-4.8m
asc. node	248 May 02 j 08:20	19° 8 21'31			250 Oct 08 j 11:36	0° mp	
evening rise	248 May 08 j 20:35	27° 8 20'50		asc. node	250 Oct 18 j 03:12	8° m 13'59	
	248 May 11 j 00:29	Π $^{\circ}0$		morning max el	250 Oct 29 j 19:43	19° m 31'43	46°46'24
	248 Jun 04 j 12:30	0 \circ \odot			250 Nov 08 j 19:33	0∘ ত	
	248 Jun 29 j 02:22	$0^{\circ}\Omega$			250 Dec 05 j 09:14	0°M₊	
	248 Jul 23 j 19:16	0° m)			250 Dec 30 j 14:32	0° ∡ ¹	
	248 Aug 17 j 17:26	0° ⊽			251 Jan 24 j 07:57	0°ರ	
desc. node	248 Aug 21 j 21:55	5° £ 00'06		desc. node	251 Feb 06 j 17:01	16° පි 20'05	
	248 Sep 12 j 00:28	0° M			251 Feb 17 j 21:07	0° ≈	
	248 Oct 07 j 23:51	0°×71			251 Mar 14 j 09:05	0°) €	
	248 Nov 04 j 15:18	0°ਤ			251 Apr 07 j 21:02	0° Υ	
evening max el	248 Nov 05 j 13:36	0° ろ 56'54	47°23'41		251 Apr 07 j 21:02 251 May 02 j 09:02	0° 8	
Croning mus of	248 Dec 10 j 10:17	0°≈	1, 23 71	morning set	251 May 04 j 06:41	2° 8 19'47	
asc. node	248 Dec 10 j 10.17 248 Dec 13 j 01:01	0 ≈ 1°≈19'52		morning set	• •	2 O1947 0°Ⅱ	
		1°≈1932 2°≈39'56	-4.9m	asa nodo	251 May 26 j 20:28	0° П 4° П 53'57	
greatest brilliancy	248 Dec 16 j 03:47	2°≈39′56 4°≈43′54	- 4.7111	asc. node max. Earth dist.	251 May 30 j 20:17	4°Щ53′57 14°Щ45′46	1 72601 411
retrograde	248 Dec 26 j 13:11	4 **43 34		max. Earm dist.	251 Jun 07 j 21:01	14 Д45 40	1.73601 AU

		_					
superior conj	251 Jun 09 j 17:15	17° Ⅲ 01'41		direct	253 Nov 20 j 23:19	0° M 37′12	
minimum elong	251 Jun 09 j 12:44	16° Ⅱ 47'49	0°22'55	greatest brilliancy	253 Dec 01 j 11:08	2°M43'25	-4.9m
	251 Jun 20 j 06:23	0 \circ			254 Jan 06 j 15:56	0° ∡ ¹	
	251 Jul 14 j 14:24	$0^{\circ}\Omega$		morning max el	254 Jan 10 j 14:16	3° х 55′23	46°51'32
evening rise	251 Jul 15 j 10:43	1° Ω 02'40			254 Feb 03 j 22:50	0°ರ	
	251 Aug 07 j 21:07	0° m y			254 Mar 02 j 04:51	0° ≈	
	251 Sep 01 j 03:50	0∘ <u>⊽</u>		desc. node	254 Mar 06 j 04:54	4° ≈ 40'09	
desc. node	251 Sep 19 j 09:47	22° ₽ 30′23			254 Mar 27 j 17:02	0° ∀	
	251 Sep 25 j 11:55	0° M ,			254 Apr 21 j 20:47	0° Υ	
	251 Oct 19 j 22:47	0°× ⁷			254 May 16 j 19:22	0°8	
		0° ਠ			254 Jun 10 j 13:26	0°II	
	251 Nov 13 j 15:06			1	·		
	251 Dec 08 j 19:46	0° ≈		asc. node	254 Jun 27 j 08:05	20° Ⅱ 28'36	
	252 Jan 04 j 07:10	0° ∺			254 Jul 05 j 02:27	0ංම	
asc. node	252 Jan 10 j 12:51	6°) 40′04		morning set	254 Jul 10 j 16:09	6° © 50′53	
evening max el	252 Jan 17 j 00:30	13° 米 21′28	46°41'59		254 Jul 29 j 10:12	$0^{\circ}\Omega$	
	252 Feb 03 j 21:29	0° Y		max. Earth dist.	254 Aug 12 j 08:07	17° Ω 16′16	1.72446 AU
greatest brilliancy	252 Feb 25 j 15:18	13° Y ′51′28	-4.8m				
retrograde	252 Mar 07 j 08:00	15° Ƴ 59'52		superior conj	254 Aug 16 j 05:27	22° Ω 06′36	1°23'24
evening set	252 Mar 24 j 07:59	10° Y ′21'42		minimum elong	254 Aug 16 j 02:26	21° Ω 57'13	1°23'24
inferior conj	252 Mar 28 j 15:01	7° Υ 41'45	6°49'24		254 Aug 22 j 13:29	0° m)	
minimum elong	252 Mar 29 j 00:16	7° Y ′27'06			254 Sep 15 j 14:00	0∘ <u>⊽</u>	
min. Earth dist.	252 Mar 28 j 14:57	7° Y 41'51	0.28750 AU	evening rise	254 Sep 22 j 22:36	9° ₽ 12'06	
morning rise	252 Apr 02 j 16:48	4° Υ 34'36	0.20730 AC	evening rise	254 Oct 09 j 13:37	0° M .	
morning rise	252 Apr 02 j 10:48 252 Apr 13 j 17:39	4 1 34 30 30° ₹		desc. node		0 11 ∟ 9° 11 ∟10'44	
1	1 3			desc. node	254 Oct 16 j 21:48		
direct	252 Apr 18 j 23:12	29° ¥ 26′59			254 Nov 02 j 13:40	0° ∡ ¹	
	252 Apr 24 j 08:35	0° Υ			254 Nov 26 j 15:14	0°ප	
greatest brilliancy	252 Apr 28 j 19:14	1° Y 12'43	-4.7m		254 Dec 20 j 20:16	0° ≈	
desc. node	252 May 01 j 02:24	2° Y '04'31			255 Jan 14 j 08:51	0° ∀	
morning max el	252 Jun 06 j 19:34	29° Ƴ 18'42	45°44'52	asc. node	255 Feb 07 j 00:42	28° ℋ 14'20	
	252 Jun 07 j 12:52	9° 8			255 Feb 08 j 12:48	0 ° Υ	
	252 Jul 06 j 12:50	Π $^{\circ}0$			255 Mar 06 j 23:40	9° 8	
	252 Aug 02 j 02:35	0 \circ \odot		evening max el	255 Mar 29 j 01:24	22° 8 52'03	45°33'01
asc. node	252 Aug 22 j 05:43	23° © 42'58			255 Apr 05 j 15:54	$\Pi^{\circ}0$	
	252 Aug 27 j 11:30	$0^{\circ}\Omega$		greatest brilliancy	255 May 05 j 19:08	20° Ⅱ 42'24	-4.7m
	252 Sep 21 j 02:24	0° m y		retrograde	255 May 16 j 16:33	22° I 50'11	
	252 Oct 15 j 06:14	0∘ ⊽		desc. node	255 May 29 j 14:22	19° Ⅱ 36′06	
	252 Nov 08 j 04:21	0° M ₊		evening set	255 May 31 j 17:40	18° Ⅲ 30′03	
	252 Dec 02 j 00:36	0° ⊼ ¹		inferior conj	255 Jun 07 j 04:21	14° Ⅱ 38'51	-1°59'40
morning set	252 Dec 04 j 16:03	3° ∡ 19'33		minimum elong	255 Jun 07 j 00:02	14° Ⅱ 45'36	
desc. node	252 Dec 11 j 19:25	12° ∡ 18′28		min. Earth dist.	255 Jun 07 j 06:59		0.28964 AU
desc. node	252 Dec 25 j 21:12	0°る		morning rise	255 Jun 13 j 06:15	10° ∏ 59'00	0.20704 AC
	232 Dec 23 j 21.12	0.0		-	-		
	252 1 15:14.52	260700120	1010120	direct	255 Jun 28 j 21:08	6° Ⅱ 20'53	4.7
superior conj	253 Jan 15 j 14:52	26°る00'30		greatest brilliancy	255 Jul 09 j 10:23	8° Ⅱ 20′22	-4.7m
minimum elong	253 Jan 15 j 03:50	25° る 25'56	1,10,10		255 Aug 09 j 22:49	0°©	16000100
	253 Jan 18 j 19:22	0° ≈		morning max el	255 Aug 17 j 00:07	6° © 38'27	46°03'22
max. Earth dist.	253 Jan 19 j 10:15	0° ≈ 46'33	1.71578 AU		255 Sep 08 j 11:38	0 \circ Ω	
	253 Feb 11 j 20:04	0° ∀		asc. node	255 Sep 19 j 17:35	12° £ 34′25	
evening rise	253 Feb 25 j 00:10	16° ∺ 22'12			255 Oct 04 j 18:38	0° т р	
	253 Mar 08 j 00:24	0 ° Υ			255 Oct 29 j 18:00	0∘ ⊽	
	253 Apr 01 j 09:33	0°B			255 Nov 23 j 02:35	0° M	
asc. node	253 Apr 03 j 22:34	3° 8 06'42			255 Dec 17 j 05:08	0° ∡ ¹	
	253 Apr 26 j 00:34	Π $^{\circ}0$		desc. node	256 Jan 09 j 07:11	28° ∡ ¹48'07	
	253 May 20 j 22:53	0°€			256 Jan 10 j 06:13	ರ°0	
	253 Jun 15 j 07:20	$0^{\circ}\Omega$			256 Feb 03 j 07:57	0° ≈	
	253 Jul 11 j 08:25	0° m		morning set	256 Feb 20 j 11:58	21° ≈ 20'45	
desc. node	253 Jul 24 j 12:00	14° m) 39'41			256 Feb 27 j 11:20	0° ₩	
4000. 11040	253 Aug 07 j 18:29	0∘ ⊽			256 Mar 22 j 16:56	ο°Υ	
evening max el	253 Aug 07 j 18:29 253 Aug 22 j 04:41	0 = 14° £ 37'39	46°30'50		200 mai 22 j 10.00	V 1	
evening max ei			70 3037	gunorior co-:	256 Mar. 20 : 05:07	0001000	1906129
amonta-t levilli	253 Sep 08 j 05:45	0°M	4.0	superior conj	256 Mar 30 j 05:07	9° Y 16'02	
greatest brilliancy	253 Oct 01 j 16:18	14°M.18'21	-4.9m	minimum elong	256 Mar 30 j 14:40	9° Y 45'29	
retrograde	253 Oct 10 j 23:08	15°M54'19		max. Earth dist.	256 Apr 01 j 19:51		1.73117 AU
evening set	253 Oct 25 j 23:43	11°M29'34			256 Apr 16 j 00:59	0° 8	
inferior conj	253 Oct 31 j 11:56	8° ™ 15'44		asc. node	256 May 01 j 10:32	18° 8 55'13	
minimum elong	253 Oct 31 j 19:35	8°M04'08	3°31'40	evening rise	256 May 06 j 14:44	25° 8 16'13	
min. Earth dist.	253 Oct 31 j 21:14	8°M01'38	0.26502 AU		256 May 10 j 11:18	$\Pi^{\circ}0$	
morning rise	253 Nov 06 j 15:12	4° M 41′52			256 Jun 03 j 23:27	0ංම	
asc. node	253 Nov 14 j 15:12	1°M26'57			256 Jun 28 j 13:38	$0^{\circ}\Omega$	

	256 Jul 23 j 07:05	0° m ∕			258 Dec 30 j 03:51	0°⊀	
	256 Aug 17 j 06:07	0∘ ⊽			259 Jan 23 j 20:19	0°ප	
desc. node	256 Aug 20 j 23:52	4° £ 27'39		desc. node	259 Feb 05 j 19:04	15° る 49'35	
	256 Sep 11 j 14:31	0° M ₊			259 Feb 17 j 08:52	0° ≈	
	256 Oct 07 j 16:25	0° ∡ ¹			259 Mar 13 j 20:24	0° ∀	
evening max el	256 Nov 03 j 02:49	28° 渘 ³30'32	47°23'24		259 Apr 07 j 08:01	0 ° Υ	
	256 Nov 04 j 14:12	ರ°0			259 May 01 j 19:49	8°	
asc. node	256 Dec 12 j 03:02	29° る 35'07		morning set	259 May 02 j 00:25	0° 8 14'05	
	256 Dec 13 j 02:57	0° ≈			259 May 26 j 07:07	$\Pi^{\circ}0$	
greatest brilliancy	256 Dec 13 j 18:42	0° ≈ 15'23	-4.9m	asc. node	259 May 29 j 22:18	4° Ⅱ 27'29	
retrograde	256 Dec 24 j 02:42	2° ≈ 18'37		max. Earth dist.	259 Jun 05 j 20:13	12° Ⅱ 56'53	1.73612 AU
	257 Jan 03 j 16:29	30°Ŗ₹					
evening set	257 Jan 09 j 02:58	27° ප 13'31		superior conj	259 Jun 07 j 11:45	14° Ⅲ 58′20	0°20'07
min. Earth dist.	257 Jan 12 j 22:13	24° ප 55'11	0.27170 AU	minimum elong	259 Jun 07 j 07:47	14° ∏ 46′08	0°19'55
inferior conj	257 Jan 13 j 21:47	24° る 18'23	7°09'40	C	259 Jun 19 j 17:01	0°ಅ	
minimum elong	257 Jan 13 j 12:10	24° る 33'26	7°07'55	evening rise	259 Jul 13 j 05:31	28° © 59'33	
morning rise	257 Jan 17 j 21:46	21° る 51'33		C	259 Jul 14 j 01:07	$0^{\circ}\Omega$	
direct	257 Feb 03 j 10:08	16° පි 31'21			259 Aug 07 j 08:01	0° m/	
greatest brilliancy	257 Feb 12 j 09:09	18° ප 01'43	-4.8m		259 Aug 31 j 15:02	0∘ ⊽	
greatest simulary	257 Mar 04 j 23:30	0°≈		desc. node	259 Sep 18 j 11:59	22° ჲ 01'45	
morning max el	257 Mar 24 j 20:01	17°≈36'02	46°12'14	desc. Hode	259 Sep 24 j 23:33	0°M	
desc. node	257 Apr 02 j 16:44	26°≈27'21	10 12 11		259 Oct 19 j 11:01	0° ⊼ 7	
desc. node	257 Apr 06 j 03:14	20 ≈ 2721 0° H			259 Nov 13 j 04:15	% % %	
	257 Apr 00 j 03:14 257 May 03 j 18:45	0° Υ			259 Dec 08 j 10:30	0°≈	
	257 May 30 j 00:45	0°8			260 Jan 04 j 01:32	0 ∞ 0° ∀	
		0°II		aga mada	·	5°) 53'35	
	257 Jun 24 j 13:15			asc. node	260 Jan 09 j 14:53		46944120
1	257 Jul 19 j 13:04	0°55		evening max el	260 Jan 14 j 16:39	11°) €06'38	46°44'30
asc. node	257 Jul 24 j 19:53	6°924'55		1 . 2112	260 Feb 04 j 07:21	0°Υ	4.0
	257 Aug 13 j 02:15	$\Omega^{\circ}\Omega$		greatest brilliancy	260 Feb 23 j 07:22	11° Υ 38'40	-4.8m
	257 Sep 06 j 07:00	0° m/y		retrograde	260 Mar 05 j 00:42	13° Y 47′21	
morning set	257 Sep 18 j 07:40	15° mp 01'38		evening set	260 Mar 22 j 02:43	8° ℃ 05'14	
	257 Sep 30 j 06:13	0° ™		inferior conj	260 Mar 26 j 06:57	5° Υ 29'15	7°01'36
	257 Oct 24 j 02:49	0°M₊		minimum elong	260 Mar 26 j 16:00	5° Y 14'55	7°00'04
				min. Earth dist.	260 Mar 26 j 05:47	5° Y 31'04	0.28722 AU
superior conj	257 Oct 27 j 11:05	4°M₁12'38	0°38'51	morning rise	260 Mar 31 j 05:36	2° Y 26'45	
minimum elong	257 Oct 27 j 20:04	4°M40'52	0°38'28		260 Apr 04 j 21:39	30° ₹	
max. Earth dist.	257 Oct 26 j 19:17	3°M22'53	1.71122 AU	direct	260 Apr 16 j 15:14	27°) 15′11	
desc. node	257 Nov 13 j 09:42	25°M32'01		greatest brilliancy	260 Apr 26 j 08:55	28° ¥ 59′21	-4.7m
	257 Nov 16 j 22:54	0° ∡ ¹			260 Apr 29 j 00:50	0° Υ	
evening rise	257 Dec 08 j 00:41	26° ҂ 29'35		desc. node	260 Apr 30 j 04:30	0° Y 29'55	
	257 Dec 10 j 19:44	0° ප		morning max el	260 Jun 04 j 11:49	27° Y 09'44	45°44'59
	258 Jan 03 j 18:28	0° ≈			260 Jun 07 j 10:32	9° 8	
	258 Jan 27 j 20:53	0° ∀			260 Jul 06 j 04:11	Π °0	
	258 Feb 21 j 05:40	0 ° $\mathbf{\gamma}$			260 Aug 01 j 15:39	0	
asc. node	258 Mar 06 j 12:43	16° Ƴ 10′09		asc. node	260 Aug 21 j 07:47	23° © 12'44	
	258 Mar 18 j 00:33	$_{0\circ}$ 8			260 Aug 26 j 23:30	$0 ^{\circ} \Omega$	
	258 Apr 12 j 10:54	Π $^{\circ}0$			260 Sep 20 j 13:51	0° m	
	258 May 08 j 23:15	0 \circ			260 Oct 14 j 17:24	0∘ ⊽	
	258 Jun 06 j 20:45	$0 {\circ} \Omega$			260 Nov 07 j 15:23	0°M	
evening max el	258 Jun 07 j 18:00	0° Ω 50'50	45°25'18		260 Dec 01 j 11:33	0° ∡ ¹	
desc. node	258 Jun 26 j 02:14	16° Ω 50′09		morning set	260 Dec 02 j 02:11	0° ≯ 46′00	
greatest brilliancy	258 Jul 16 j 16:28	28° Ω 46'46	-4.7m	desc. node	260 Dec 10 j 21:23	11° ∡ 750′13	
	258 Jul 21 j 06:47	0° m)			260 Dec 25 j 08:08	0°る	
retrograde	258 Jul 26 j 10:58	0° Mg 30′06					
	258 Jul 31 j 12:01	30°R Ω		superior conj	261 Jan 13 j 01:07	23° る 28'05	-1°08'11
evening set	258 Aug 13 j 04:55	24° Ω 38'39		minimum elong	261 Jan 12 j 13:43	22° る 52'23	1°07'50
inferior conj	258 Aug 16 j 15:37	22° Ω 33'34	-8°37'49	max. Earth dist.	261 Jan 16 j 21:50	28° る 18'27	1.71535 AU
minimum elong	258 Aug 16 j 12:09	22° Ω 38'53	8°37'38		261 Jan 18 j 06:17	0° ≈	
min. Earth dist.	258 Aug 17 j 04:19	22° Ω 14′03	0.28248 AU		261 Feb 11 j 06:57	0°) €	
morning rise	258 Aug 19 j 19:12	20° £ 38'31		evening rise	261 Feb 22 j 12:46	13°) 58′37	
direct	258 Sep 06 j 23:10	14° £ 26′39		-	261 Mar 07 j 11:17	$0^{\circ}\Upsilon$	
greatest brilliancy	258 Sep 18 j 00:46	16° Ω 42'13	-4.8m		261 Mar 31 j 20:32	0°8	
,	258 Oct 08 j 22:58	0° m		asc. node	261 Apr 03 j 00:43	2° 8 39'36	
asc. node	-	7° Mp 16'14			261 Apr 25 j 11:52	$\Pi^{\circ}0$	
asc. node	258 Oct 17 j 05:26	/ 11/1017			20111pr 20 j 11.02		
morning max el	258 Oct 17 j 05.26 258 Oct 27 j 11:19	17° Mp 13'56	46°45'07		261 May 20 j 10:45	0ಂತಾ	
			46°45'07				
	258 Oct 27 j 11:19	17° m 13'56	46°45'07		261 May 20 j 10:45	0 \circ \odot	

	261 1 1 22 : 14 02	1.40 m -0.011.0			264 E 1 02 : 10 50	00	
desc. node	261 Jul 23 j 14:02	14° Mp 00'18			264 Feb 02 j 18:59	0° ≈	
	261 Aug 07 j 13:41	0∘ ⊽		morning set	264 Feb 18 j 00:48	18°≈57'40	
evening max el	261 Aug 19 j 18:03	12° ≏ 16'14	46°28'19		264 Feb 26 j 22:11	0° ∺	
	261 Sep 08 j 19:06	0°M			264 Mar 22 j 03:42	0° Y	
greatest brilliancy	261 Sep 29 j 05:34	11° M 52'43	-4.9m				
retrograde	261 Oct 08 j 10:41	13° M 27'04		superior conj	264 Mar 27 j 21:00	7° Ƴ 03'51	-1°08'42
evening set	261 Oct 23 j 14:38	8° ™ 59'12		minimum elong	264 Mar 28 j 06:25	7° Ƴ 32'53	1°08'25
inferior conj	261 Oct 29 j 00:16	5° ™ 48'47	-3°56'00	max. Earth dist.	264 Mar 30 j 12:44	10° Y 20′24	1.73075 AU
minimum elong	261 Oct 29 j 08:32	5° ™ 36'12			264 Apr 15 j 11:44	0°8	
min. Earth dist.	261 Oct 29 j 10:59	5°M32'28	0.26535 AU	asc. node	264 Apr 30 j 12:31	18° 8 28'16	
morning rise	261 Nov 04 j 02:07	2°M16'20	0.20333 710	evening rise	264 May 04 j 08:36	23° 8 10'44	
morning rise				evening rise		0°II	
	261 Nov 09 j 00:13	30° ₹ Ω			264 May 09 j 22:06		
asc. node	261 Nov 13 j 17:07	28° ≏ 37'58			264 Jun 03 j 10:26	0ංම	
direct	261 Nov 18 j 11:58	28° ≏ 09'46			264 Jun 28 j 00:57	$0^{\circ}\Omega$	
	261 Nov 28 j 07:07	0°M			264 Jul 22 j 18:58	0° m)	
greatest brilliancy	261 Nov 29 j 01:18	0° ጤ 16'57	-4.9m		264 Aug 16 j 18:55	0∘ ত	
	262 Jan 06 j 15:51	0° ∡		desc. node	264 Aug 20 j 02:02	3° £ 55'34	
morning max el	262 Jan 08 j 02:30	1° ∡ "27′19	46°52'09		264 Sep 11 j 04:46	0° M	
Ü	262 Feb 03 j 15:30	5°0			264 Oct 07 j 09:20	0° ∡ 7	
	262 Mar 01 j 18:51	0° ≈		evening max el	264 Oct 31 j 16:28	26° ₹ ¹05'22	47°23'10
desc. node	262 Mar 05 j 07:02	4° ≈ 06'07		evening max er	264 Nov 04 j 14:06	0°중	17 23 10
desc. Hode	·	0° ∺		aga mada	264 Dec 11 j 05:06	0 0 27° る 46'22	
	262 Mar 27 j 05:39			asc. node	,		4.0
	262 Apr 21 j 08:34	0° Υ		greatest brilliancy	264 Dec 11 j 09:04	27° る 50'11	-4.9m
	262 May 16 j 06:37	0°B		retrograde	264 Dec 21 j 16:42	29° る 53'29	
	262 Jun 10 j 00:21	Π $^{\circ}0$		evening set	265 Jan 06 j 13:01	24° る 53'46	
asc. node	262 Jun 26 j 10:05	20° Ⅲ 01'43		min. Earth dist.	265 Jan 10 j 11:47	22° る 30'51	0.27105 AU
	262 Jul 04 j 13:12	0 \circ \odot		inferior conj	265 Jan 11 j 11:20	21° る 54'12	6°56'18
morning set	262 Jul 08 j 09:45	4° 5 344'24		minimum elong	265 Jan 11 j 01:27	22° る 09'35	6°54'24
	262 Jul 28 j 20:54	$0^{\circ}\Omega$		morning rise	265 Jan 15 j 14:17	19° පි 23'26	
max. Earth dist.	262 Aug 09 j 23:39	15° Ω 02'05	1.72503 AU	direct	265 Jan 31 j 22:46	14° පි 07'56	
				greatest brilliancy	265 Feb 09 j 22:42	15° る 39'20	-4.8m
superior conj	262 Aug 13 j 22:20	19° Ω 56'25	1°22'48	greatest offinancy	265 Mar 05 j 11:46	0° ≈	4.0111
				mamina may al	-		46912147
minimum elong	262 Aug 13 j 18:39		1-22-46	morning max el	265 Mar 22 j 10:17	15°≈18'01	46°13'47
	262 Aug 22 j 00:14	0° m y		desc. node	265 Apr 01 j 18:51	25°≈41'59	
	262 Sep 15 j 00:52	0∘ ⊽			265 Apr 05 j 22:03	0° ∀	
evening rise	262 Sep 20 j 12:17	6° ჲ 50'40			265 May 03 j 09:25	0° Y	
	262 Oct 09 j 00:39	0° M			265 May 29 j 13:39	9° 8	
desc. node	262 Oct 15 j 23:53	8°M42'37			265 Jun 24 j 01:12	Π $^{\circ}0$	
	262 Nov 02 j 00:54	0° ∡ ¹			265 Jul 19 j 00:29	0ංම	
	262 Nov 26 j 02:43	ర°0		asc. node	265 Jul 23 j 22:02	5°956'56	
	262 Dec 20 j 08:05	0° ≈			265 Aug 12 j 13:22	$0^{\circ}\Omega$	
	263 Jan 13 j 21:17	0°) €			265 Sep 05 j 18:00	0° m)	
asc. node	263 Feb 06 j 02:48	27°) 40'48		morning set	265 Sep 15 j 22:07	12° m p 42'14	
asc. node		27 γ (4048		morning set			
	263 Feb 08 j 02:28				265 Sep 29 j 17:14	0∘ 亚	
	263 Mar 06 j 16:09	0°8			265 Oct 23 j 13:53	0° M	
evening max el	263 Mar 26 j 15:53	20° 8 37'41	45°34'34	max. Earth dist.	265 Oct 24 j 05:05	0° M 47'49	1.71146 AU
	263 Apr 05 j 18:14	$\Pi^{\circ}0$					
greatest brilliancy	263 May 03 j 11:38	18° Ⅲ 34′09	-4.7m	superior conj	265 Oct 24 j 22:10	1°M41'32	0°42'16
retrograde	263 May 14 j 08:33	20° Ⅱ 42'04		minimum elong	265 Oct 25 j 07:38	2°M11'22	0°41'51
desc. node	263 May 28 j 16:19	16° Ⅱ 45′00		desc. node	265 Nov 12 j 11:39	25°M03'08	
evening set	263 May 29 j 09:50	16° Ⅱ 21'39			265 Nov 16 j 10:03	0° ∡ ¹	
inferior conj	263 Jun 04 j 20:44	12° Ⅲ 30′24	-1°40'22	evening rise	265 Dec 05 j 10:19	23° ₹ ′54′00	
minimum elong	263 Jun 04 j 17:05	12° Ⅲ 36′06	1°39'18	Č	265 Dec 10 j 06:57	0°ರ	
min. Earth dist.	263 Jun 04 j 23:52	12° Ⅱ 25'29	0.28971 AU		266 Jan 03 j 05:45	0° ≈	
	263 Jun 11 j 00:05	8° Ⅱ 48'18	0.207/1710		266 Jan 27 j 08:17	0° ₩	
morning rise direct	263 Jun 26 j 12:52	8 Щ48 18 4°Щ12'07			266 Feb 20 j 17:19	0 Υ 0° Υ	
			4.7				
greatest brilliancy	263 Jul 07 j 03:10	6° Ⅱ 12'07	-4./m	asc. node	266 Mar 05 j 14:51	15° Y 40'42	
	263 Aug 09 j 23:35	0°50			266 Mar 17 j 12:44	0° 8	
morning max el	263 Aug 14 j 14:53	4° © 24'21	46°02'07		266 Apr 12 j 00:11	$\Pi^{\circ}0$	
	263 Sep 08 j 03:56	$0 {\circ} \Omega$			266 May 08 j 15:01	0ං ව	
asc. node	263 Sep 18 j 19:45	11° Ω 57'56		evening max el	266 Jun 05 j 09:44	28° © 39'24	45°24'09
	263 Oct 04 j 08:21	0° m/y			266 Jun 06 j 19:44	$0^{\circ}\Omega$	
	263 Oct 29 j 06:33	0∘ ⊽		desc. node	266 Jun 25 j 04:20	15° Ω 42'54	
	263 Nov 22 j 14:31	0°M₊		greatest brilliancy	266 Jul 14 j 04:42	26° Ω 29'45	-4.7m
	263 Dec 16 j 16:41	0° ∡ 7		retrograde	266 Jul 24 j 01:39	28° Ω 14'37	
desc. node	264 Jan 08 j 09:16	28° × 19'31		evening set	266 Aug 10 j 16:50	22° Ω 26'37	
dese. Houe	264 Jan 09 j 17:28	26 X 1931		inferior conj	266 Aug 14 j 06:15	20° Ω 17'15	-8033124
	207 Juli 07 J 17.28	υ Ο		inicitor conj	200 Aug 14 J 00.13	40 06 1/13	0 00 24

minimum elong	266 Aug 14 j 02:02	20° Ω 23'45	8033108		269 Jan 17 j 17:30	0° ≈	
min. Earth dist.	266 Aug 14 j 17:45	19° Ω 59'34	0.28298 AU		269 Feb 10 j 18:09	0 ∞ 0° ∀	
morning rise	266 Aug 17 j 11:03	$18^{\circ}\Omega 20'20$	0.20270 AC	evening rise	269 Feb 20 j 01:14	11° ∺ 33'36	
direct	266 Sep 04 j 15:04	12° Ω 09'51		evening rise	269 Mar 06 j 22:30	0° Υ	
greatest brilliancy	266 Sep 15 j 14:52	14° Ω 23'53	-4 8m		269 Mar 31 j 07:51	0°8	
greatest offiniane)	266 Oct 09 j 07:46	0° m)		asc. node	269 Apr 02 j 02:42	2° 8 11'00	
asc. node	266 Oct 16 j 07:24	6° mp 18'17			269 Apr 24 j 23:29	0°II	
morning max el	266 Oct 25 j 02:25	14° m) 54'17	46°43'50		269 May 19 j 22:56	0°ಅ	
	266 Nov 08 j 08:53	0∘ ⊽			269 Jun 14 j 09:27	$\mathfrak{O}^{\circ} \mathfrak{O}$	
	266 Dec 04 j 15:12	0° M			269 Jul 10 j 14:31	0° m)	
	266 Dec 29 j 17:16	0° ∡ ¹		desc. node	269 Jul 22 j 16:10	13° m 19'59	
	267 Jan 23 j 08:50	ರ∘ठ			269 Aug 07 j 09:49	0∘ ত	
desc. node	267 Feb 04 j 21:11	15° る 18'43		evening max el	269 Aug 17 j 06:18	9° ≙ 51'11	46°25'23
	267 Feb 16 j 20:47	0° ≈			269 Sep 09 j 13:37	0° M	
	267 Mar 13 j 07:53	0° ∀		greatest brilliancy	269 Sep 26 j 18:54	9° ™ 25'40	-4.9m
	267 Apr 06 j 19:10	0° Υ		retrograde	269 Oct 05 j 21:50	10°M58′20	
morning set	267 Apr 29 j 18:25	28° Y ′08'47		evening set	269 Oct 21 j 05:30	6°M26'44	
	267 May 01 j 06:44	0°8		inferior conj	269 Oct 26 j 12:27	3°M20'09	
	267 May 25 j 17:55	0°II		minimum elong	269 Oct 26 j 21:17	3°M.06'42	
asc. node	267 May 29 j 00:20	4° Ⅱ 00'36	1.72624.433	min. Earth dist.	269 Oct 27 j 00:52		0.26576 AU
max. Earth dist.	267 Jun 03 j 19:37	11° Ⅱ 08'09	1.73624 AU		269 Nov 01 j 04:52	30° ₹ Ω	
	267 I 05:06:25	120 П 6 510.1	0017105	morning rise	269 Nov 01 j 12:38	29° Ω 49'31	
superior conj minimum elong	267 Jun 05 j 06:25 267 Jun 05 j 03:01	12° ∏ 55'01 12° ∏ 44'35		asc. node direct	269 Nov 12 j 19:13 269 Nov 16 j 00:05	25° ♀ 52'48 25° ♀ 40'13	
minimum ciong	267 Jun 19 j 03:50	0°9	0 10 30	greatest brilliancy	269 Nov 26 j 15:55	27° £ 49'11	-4.9m
evening rise	267 Jul 11 j 00:24	26° © 55'54		greatest of financy	269 Dec 01 j 10:33	0°M	-4.7111
evening rise	267 Jul 13 j 12:05	0°Ω		morning max el	270 Jan 05 j 14:36	28°M57'07	46°52'57
	267 Aug 06 j 19:14	0° m)		morning max cr	270 Jan 06 j 15:20	0° ⊼ ¹	40 32 37
	267 Aug 31 j 02:35	0∘ <u>v</u>			270 Feb 03 j 08:20	0°ਰ	
desc. node	267 Sep 17 j 14:00	21° ≏ 31'27			270 Mar 01 j 09:06	0°æ	
	267 Sep 24 j 11:33	0° M		desc. node	270 Mar 04 j 09:07	3°≈31'06	
	267 Oct 18 j 23:38	0° ∡ ″			270 Mar 26 j 18:32	0° ₩	
	267 Nov 12 j 17:48	ರ∘ರ			270 Apr 20 j 20:37	0° Y	
	267 Dec 08 j 01:44	0° ≈			270 May 15 j 18:09	0° ႘	
	268 Jan 03 j 20:40	0° ∀			270 Jun 09 j 11:32	$\Pi^{\circ}0$	
asc. node	268 Jan 08 j 17:01	5° ₩ 05'49		asc. node	270 Jun 25 j 12:17	19° Ⅱ 34'37	
evening max el	268 Jan 12 j 08:34	8° ¥ 50′07	46°46'58		270 Jul 04 j 00:12	0ංම	
	268 Feb 04 j 21:05	0° Y		morning set	270 Jul 06 j 03:49	2° © 38'34	
greatest brilliancy	268 Feb 21 j 00:08	9° Y 25'51	-4.8m		270 Jul 28 j 07:51	0 \circ Ω	
retrograde	268 Mar 02 j 17:07	11° Y ′34′01		max. Earth dist.	270 Aug 07 j 18:22	12° Ω 57'04	1.72559 AU
evening set	268 Mar 19 j 21:32	5° ℃ 48'16					
inferior conj	268 Mar 23 j 22:59	3° Υ 16'10	7°13'10	superior conj	270 Aug 11 j 15:41		1°22'04
minimum elong	268 Mar 24 j 07:47	3°\mathcal{Y}\text{02'12}	7°11'46	minimum elong	270 Aug 11 j 11:22	17° Ω 33'40	1°22'01
min. Earth dist.	268 Mar 23 j 20:53	3° Y 19'29 0° Y 18'18	0.28687 AU		270 Aug 21 j 11:13	0 ்⊽ 0 ் ம்	
morning rise	268 Mar 28 j 18:22	0° 1 18 18 30° ₹		avanina riaa	270 Sep. 14 j 12:00	0° 22 4° 2 30'10	
direct	268 Mar 29 j 07:01 268 Apr 14 j 07:15	25° ₩ 02'59		evening rise	270 Sep 18 j 02:30 270 Oct 08 j 12:01	4 = 30 10 0° M	
greatest brilliancy	268 Apr 23 j 22:42	26° H 45'27	-4 7m	desc. node	270 Oct 08 j 12:01 270 Oct 15 j 01:52	8°ML13'08	
desc. node	268 Apr 29 j 06:25	28°) 57'45	4.7111	dese. Hode	270 Nov 01 j 12:32	0° ⊼ ¹	
dese. node	268 May 01 j 07:18	0°Υ			270 Nov 25 j 14:38	0°ਤ	
morning max el	268 Jun 02 j 03:12	24° Y ′58′06	45°45'12		270 Dec 19 j 20:22	0° ≈	
5 5	268 Jun 07 j 07:38	0°8			271 Jan 13 j 10:12	0° ∀	
	268 Jul 05 j 19:31	0°II		asc. node	271 Feb 05 j 04:54	27° ∺ 05'54	
	268 Aug 01 j 04:52	0°ಅ			271 Feb 07 j 16:38	0° Y	
asc. node	268 Aug 20 j 09:55	22° 5 641'53			271 Mar 06 j 09:21	0° ႘	
	268 Aug 26 j 11:45	$0^{\circ}\Omega$		evening max el	271 Mar 24 j 06:30	18° 8 22'47	45°36'23
	268 Sep 20 j 01:39	0° m)			271 Apr 05 j 22:35	$\Pi^{\circ}0$	
	268 Oct 14 j 04:57	0∘ ⊽		greatest brilliancy	271 May 01 j 03:49	16° Ⅱ 24'56	-4.7m
	268 Nov 07 j 02:47	0° M .		retrograde	271 May 12 j 01:09	18° Ⅲ 33'41	
morning set	268 Nov 29 j 12:08	28°M10'39		evening set	271 May 27 j 02:20	14° Ⅱ 12'36	
	268 Nov 30 j 22:53	0° ⊼ ¹		desc. node	271 May 27 j 18:30	13° Ⅱ 50′22	
desc. node	268 Dec 09 j 23:30	11° х ⁷ 21'18		inferior conj	271 Jun 02 j 13:14	10° Ⅱ 21'33	
	268 Dec 24 j 19:24	0°ਰ		minimum elong	271 Jun 02 j 10:17		
	200 1- 10:11:11	20075405	1905142	min. Earth dist.	271 Jun 02 j 16:39	10° Ⅱ 16'13	0.28975 AU
superior conj	269 Jan 10 j 11:11	20°る54'06		morning rise	271 Jun 08 j 17:59	6° Ⅱ 37'39	
minimum elong max. Earth dist.	269 Jan 09 j 23:32 269 Jan 14 j 08:30	20°る17'36	1°05'21 1.71487 AU	direct greatest brilliancy	271 Jun 24 j 04:53 271 Jul 04 j 19:55	2° Ⅱ 02'57 4° Ⅱ 03'37	-4.7m
max. Darui Uist.	20) Jan 14 J 00.30	25 040 22	1./1 10 /AU	greatest offiliality	2/1 Jul 04 J 17.33	- H033/	- - 7. / 111

	271 Aug 09 j 23:21	0°©			274 Mar 17 j 01:04	0° ႘	
morning max el	271 Aug 05 j 25:21 271 Aug 12 j 06:44	2° © 12'38	46°01'02		274 Apr 11 j 13:42	0°II	
morning max or	271 Sep 07 j 20:06	0°Ω	10 01 02		274 May 08 j 07:09	0°©	
asc. node	271 Sep 17 j 21:43	11° Ω 20'50		evening max el	274 Jun 03 j 01:25	26°927'42	45°23'12
	271 Oct 03 j 22:04	0° m)		8	274 Jun 06 j 19:49	0°N	
	271 Oct 28 j 19:12	0∘ <u>v</u>		desc. node	274 Jun 24 j 06:26	14° Ω 33'49	
	271 Nov 22 j 02:38	0° M ₊		greatest brilliancy	274 Jul 11 j 17:44	24° Ω 13'57	-4.7m
	271 Dec 16 j 04:29	0° ∡ 7		retrograde	274 Jul 21 j 16:02	25° Ω 59'31	
desc. node	272 Jan 07 j 11:25	27° ∡ 750′04		evening set	274 Aug 08 j 04:41	20° Ω 15'37	
	272 Jan 09 j 05:03	ರ∘ರ		inferior conj	274 Aug 11 j 21:00	18° Ω 01'36	-8°28'13
	272 Feb 02 j 06:20	0° ≈		minimum elong	274 Aug 11 j 16:03	18° Ω 09'15	8°27'52
morning set	272 Feb 15 j 12:58	16° ≈ 31'18		min. Earth dist.	274 Aug 12 j 07:35	17° Ω 45'18	0.28342 AU
	272 Feb 26 j 09:22	0° ∀		morning rise	274 Aug 15 j 03:15	16° Ω 02'16	
	272 Mar 21 j 14:45	0 ° Υ		direct	274 Sep 02 j 06:46	9° Ω 53'46	
				greatest brilliancy	274 Sep 13 j 05:05	12° Ω 06′07	-4.8m
superior conj	272 Mar 25 j 12:25	4° Ƴ 49'16			274 Oct 09 j 13:58	0° الل	
minimum elong	272 Mar 25 j 21:38	5° ℃ 17'44		asc. node	274 Oct 15 j 09:27	5° Mg 22′04	
max. Earth dist.	272 Mar 28 j 05:18		1.73028 AU	morning max el	274 Oct 22 j 16:49	12° m 33'20	46°42'39
	272 Apr 14 j 22:44	0° 8			274 Nov 08 j 02:51	ია ≖	
asc. node	272 Apr 29 j 14:34	18° 8 00'52			274 Dec 04 j 05:50	0° ™	
evening rise	272 May 02 j 02:17	21° 8 04'02			274 Dec 29 j 06:23	0° ∡¹	
	272 May 09 j 09:08	0°II			275 Jan 22 j 21:06	0°る	
	272 Jun 02 j 21:37	$0 {\circ} {\cal O}$		desc. node	275 Feb 03 j 23:12	14°る48'12 0°≈	
	272 Jun 27 j 12:29 272 Jul 22 j 07:04	0° m y			275 Feb 16 j 08:31 275 Mar 12 j 19:14	0° ∺	
	272 Aug 16 j 07:53	0∘ ت الأال			275 Apr 06 j 06:14	0° Υ	
desc. node	272 Aug 10 j 07:33 272 Aug 19 j 04:05	0 = 3° £ 22'43		morning set	275 Apr 00 j 00:14 275 Apr 27 j 12:00	26° Υ 02'15	
desc. Hode	272 Sep 10 j 19:12	0°M.		morning set	275 Apr 27 j 12:00 275 Apr 30 j 17:35	0° 8	
	272 Oct 07 j 02:36	0° ⊼			275 May 25 j 04:39	0°II	
evening max el	272 Oct 29 j 06:45	23° × ⁷ 41'42	47°22'37	asc. node	275 May 28 j 02:30	3° П 34'19	
evening max er	272 Nov 04 j 15:16	0°궁	17 22 37	max. Earth dist.	275 Jun 01 j 17:02	9° Ⅱ 13'35	1.73631 AU
greatest brilliancy	272 Dec 08 j 22:39	25° පි 23'04	-4.9m		_, v.j		
asc. node	272 Dec 10 j 07:13	25° る 52'19		superior conj	275 Jun 03 j 00:42	10° Ⅱ 50'48	0°14'00
retrograde	272 Dec 19 j 06:53	27° る 26'53		minimum elong	275 Jun 02 j 21:53	10° Ⅱ 42'11	0°13'52
evening set	273 Jan 03 j 22:52	22° る 32'23		behind sun begin	275 Jun 02 j 11:04	10° Ⅱ 08'56	
min. Earth dist.	273 Jan 08 j 00:53	20° る 05'06	0.27046 AU	behind sun end	275 Jun 03 j 08:43	11° Ⅱ 15′26	
inferior conj	273 Jan 09 j 00:35	19° る 28'21	6°41'52		275 Jun 18 j 14:34	0°€	
minimum elong	273 Jan 08 j 14:31	19° る 43'58	6°39'50	evening rise	275 Jul 08 j 19:01	24° © 51'53	
morning rise	273 Jan 13 j 06:38	16° る 53'34			275 Jul 12 j 22:56	$0^{\circ}\Omega$	
direct	273 Jan 29 j 11:47	11° る 42'54			275 Aug 06 j 06:19	0° m y	
greatest brilliancy	273 Feb 07 j 11:44	13° る 14'51	-4.9m		275 Aug 30 j 14:00	0∘ ⊽	
	273 Mar 05 j 21:22	0° ≈		desc. node	275 Sep 16 j 15:59	21° ≏ 01'32	
morning max el	273 Mar 20 j 00:58	12° ≈ 59'57	46°15'20		275 Sep 23 j 23:24	0° M	
desc. node	273 Mar 31 j 20:47	24°≈55'53			275 Oct 18 j 12:07	0° ∡ ¹	
	273 Apr 05 j 16:44	0° ∀			275 Nov 12 j 07:12	0°ප	
	273 May 03 j 00:09	0° Υ			275 Dec 07 j 16:49	0° ≈	
	273 May 29 j 02:36	0° B		1	276 Jan 03 j 15:57	0° \	
	273 Jun 23 j 13:11 273 Jul 18 j 11:55	0°© ∏		asc. node evening max el	276 Jan 07 j 19:04 276 Jan 09 j 23:31	4° 	46°49'19
aga mada	3			evening max ei		0° Υ 3202	46-49-19
asc. node	273 Jul 23 j 00:03 273 Aug 12 j 00:32	5° © 28′27 0° Ω		greatest brilliancy	276 Feb 05 j 14:54 276 Feb 18 j 17:18	0° γ 7° Υ 14'21	-4.8m
	273 Sep 05 j 05:02	0° m)		retrograde	276 Feb 18 j 17.18 276 Feb 29 j 09:07	9° Υ 21'29	-4.0111
morning set	273 Sep 13 j 13:06	10° Mg 24'35		evening set	276 Mar 17 j 16:17	3° Υ 32'14	
morning set	273 Sep 13 j 13:00 273 Sep 29 j 04:15	0° ம		inferior conj	276 Mar 21 j 15:03	1° Υ 03'55	7°23'59
max. Earth dist.	273 Oct 21 j 14:57	ა <u>—</u> 28° ჲ 13'07	1.71168 AU	minimum elong	276 Mar 21 j 23:32	0° Υ 50'28	7°22'44
Law dist.	/ /			min. Earth dist.	276 Mar 21 j 12:16	1° Υ '08'22	0.28657 AU
superior conj	273 Oct 22 j 09:58	29° ₽ 12'58	0°45'31		276 Mar 23 j 07:28	30° R ₩	
minimum elong	273 Oct 22 j 19:51	29° ♀ 44'02		morning rise	276 Mar 26 j 07:06	28°) 10'40	
3	273 Oct 23 j 00:55	0° M ,		direct	276 Apr 11 j 22:48	22° ₭ 51'30	
desc. node	273 Nov 11 j 13:48	24°M35'06		greatest brilliancy	276 Apr 21 j 13:04	24°) 32'40	-4.7m
	273 Nov 15 j 21:08	0° ⊼ ¹		desc. node	276 Apr 28 j 08:36	27° ∺ 29'34	
evening rise	273 Dec 02 j 20:23	21° ∡ 19'52			276 May 02 j 18:23	0° Υ	
	273 Dec 09 j 18:07	ნ°0		morning max el	276 May 30 j 17:59	22° Ƴ 45'15	45°45'23
	274 Jan 02 j 17:02	0° ≈			276 Jun 07 j 03:52	0° 8	
	274 Jan 26 j 19:45	0° ₩			276 Jul 05 j 10:29	$\Pi^{\circ}0$	
	274 Feb 20 j 05:05	0° Ƴ			276 Jul 31 j 17:49	0° ©	
asc. node	274 Mar 04 j 16:47	15° Ƴ 10'14		asc. node	276 Aug 19 j 11:55	22°©11'25	

	276 Ana 25 i 22:44	0°N		avanina may al	270 Mar 21 : 21:55	16° 8 11'11	45020120
	276 Aug 25 j 23:44 276 Sep 19 j 13:08	0° m p		evening max el	279 Mar 21 j 21:55 279 Apr 06 j 04:17	0°II	45*38*20
	276 Oct 13 j 16:10	0∘ ⊽		greatest brilliancy	279 Apr 00 j 04.17 279 Apr 28 j 19:31	14° Ⅱ 16'36	-4 7m
	276 Nov 06 j 13:53	0° m ₊		retrograde	279 May 09 j 18:09	16° Ⅱ 26'36	- 4 .7111
morning set	276 Nov 26 j 22:14	25°MJ36'41		evening set	279 May 24 j 19:01	12° I 104'40	
morning sec	276 Nov 30 j 09:55	0°×7		desc. node	279 May 26 j 20:32	10° I 54'38	
desc. node	276 Dec 09 j 01:37	10° × 753'24		inferior conj	279 May 31 j 05:44	8° Ⅱ 13'50	-1°01'30
acoc. noue	276 Dec 24 j 06:22	0°る		minimum elong	279 May 31 j 03:29	8° Ⅱ 17'21	1°00'50
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			min. Earth dist.	279 May 31 j 09:05	8° I 108'36	0.28983 AU
superior conj	277 Jan 07 j 21:28	18° る 21'44	-1°03'07	morning rise	279 Jun 06 j 11:45	4° Ⅱ 28'27	
minimum elong	277 Jan 07 j 09:40	17° る 44'45	1°02'44	Ü	279 Jun 19 j 19:41	30° ₹ 8	
max. Earth dist.	277 Jan 11 j 16:24	23° පි 06'40	1.71437 AU	direct	279 Jun 21 j 21:22	29° 8 54'58	
	277 Jan 17 j 04:24	0° ≈			279 Jun 23 j 23:39	\mathbf{u}°	
	277 Feb 10 j 04:58	0° ∀		greatest brilliancy	279 Jul 02 j 12:07	1° Ⅱ 55'42	-4.7m
evening rise	277 Feb 17 j 13:49	9° ₩ 09'55			279 Aug 09 j 21:46	0ං ව	
	277 Mar 06 j 09:20	0 ° Υ		morning max el	279 Aug 09 j 23:28	0°904'08	45°59'46
	277 Mar 30 j 18:51	$_{0\circ}$ 8			279 Sep 07 j 11:44	$0^{\circ}\Omega$	
asc. node	277 Apr 01 j 04:47	1° 8 43'45		asc. node	279 Sep 16 j 23:49	10° Ω 45′02	
	277 Apr 24 j 10:49	$\Pi^{\circ}0$			279 Oct 03 j 11:27	0° m	
	277 May 19 j 10:53	0 \circ \odot			279 Oct 28 j 07:33	0∘ ত	
	277 Jun 13 j 22:32	0 $^{\circ}\Omega$			279 Nov 21 j 14:26	0° M	
	277 Jul 10 j 05:46	O° m y			279 Dec 15 j 15:57	0° ∡ ¹	
desc. node	277 Jul 21 j 18:11	12° m 39'36		desc. node	280 Jan 06 j 13:23	27° ∡ 121'13	
	277 Aug 07 j 06:16	0∘ ⊽			280 Jan 08 j 16:14	0°ರ	
evening max el	277 Aug 14 j 18:00	7° £ 25'51	46°22'42		280 Feb 01 j 17:20	0° ≈	
	277 Sep 10 j 13:56	0°M₊		morning set	280 Feb 13 j 01:00	14° ≈ 05′29	
greatest brilliancy	277 Sep 24 j 08:02	6°M59'38	-4.9m		280 Feb 25 j 20:12	0° ∀	
retrograde	277 Oct 03 j 09:17	8°M31'12			280 Mar 21 j 01:28	$0^{\circ}\mathbf{\Upsilon}$	
evening set	277 Oct 18 j 20:29	3°M55'16					
inferior conj	277 Oct 24 j 00:40	0°M52'50		superior conj	280 Mar 23 j 03:46	2° Y 35′26	
minimum elong	277 Oct 24 j 10:01	0° M ₊38'37		minimum elong	280 Mar 23 j 12:45	3° Y 03′10	
min. Earth dist.	277 Oct 24 j 14:38	0°M31'36	0.26621 AU	max. Earth dist.	280 Mar 25 j 22:29	6° Y 01′26	1.72981 AU
	277 Oct 25 j 11:29	30° ₹ Ω			280 Apr 14 j 09:24	0° 8	
morning rise	277 Oct 29 j 23:01	27° £ 24'33		asc. node	280 Apr 28 j 16:45	17° 8 34'52	
asc. node	277 Nov 11 j 21:24	23° £ 14'58		evening rise	280 Apr 29 j 20:02	18° 8 58'34	
direct	277 Nov 13 j 12:14	23° £ 11'45	4.0		280 May 08 j 19:49	0° Ⅱ	
greatest brilliancy	277 Nov 24 j 06:36	25° Ω 22'55	-4.9m		280 Jun 02 j 08:30	0.ಲ 0	
	277 Dec 03 j 06:27	0°M	46953146		280 Jun 26 j 23:44	0° N	
morning max el	278 Jan 03 j 03:42 278 Jan 06 j 13:25	26° ™ 30'37 0° ҂	40-3340		280 Jul 21 j 18:56	0 ்⊽ 0°™	
	278 Feb 03 j 00:26	0°る		desc. node	280 Aug 15 j 20:44 280 Aug 18 j 06:04	0 == 2° £ 50'04	
	278 Feb 03 j 00:20 278 Feb 28 j 22:47	0°≈		desc. node	280 Sep 10 j 09:38	2 = 30 04 0° M	
desc. node	278 Mar 03 j 11:06	0 ≈ 2°≈57'11			280 Oct 06 j 20:06	0° ⊼ 1	
dese. Hode	278 Mar 26 j 06:55	0° \		evening max el	280 Oct 26 j 22:00	21° × ⁷ 21'01	47°22'06
	278 Apr 20 j 08:12	0° Υ		evening max er	280 Nov 04 j 17:35	0°중	47 22 00
	278 May 15 j 05:15	0°8		greatest brilliancy	280 Dec 06 j 12:12	22° る 56'30	-4.9m
	278 Jun 08 j 22:22	0°II		asc. node	280 Dec 09 j 09:14	23° る 54'07	,
asc. node	278 Jun 24 j 14:17	19° Ⅱ 07'58		retrograde	280 Dec 16 j 21:11	25° පි 00'35	
	278 Jul 03 j 10:54	0°©		evening set	281 Jan 01 j 08:52	20° ප 11'25	
morning set	278 Jul 03 j 21:43	0°ഇ33'15		min. Earth dist.	281 Jan 05 j 13:52	17° る 39'58	0.26983 AU
	278 Jul 27 j 18:30	$0^{\circ}\Omega$		inferior conj	281 Jan 06 j 13:46	17° ප 02'55	6°26'47
max. Earth dist.	278 Aug 05 j 13:18		1.72615 AU	minimum elong	281 Jan 06 j 03:36	17° る 18'41	6°24'35
				morning rise	281 Jan 10 j 22:54	14° පි 24'07	
superior conj	278 Aug 09 j 08:49	15° Ω 37'54	1°21'12	direct	281 Jan 27 j 01:04	9° ප 18'38	
minimum elong	278 Aug 09 j 03:54	15° Ω 22'38	1°21'09	greatest brilliancy	281 Feb 05 j 00:18	10° ප 50'27	-4.9m
	278 Aug 20 j 21:55	0° m			281 Mar 06 j 04:00	0° ≈	
	278 Sep 13 j 22:51	0∘ ⊽		morning max el	281 Mar 17 j 15:32	10° ≈ 42′21	46°16'46
evening rise	278 Sep 15 j 16:35	2° £ 10′21		desc. node	281 Mar 30 j 22:59	24°≈11'57	
	278 Oct 07 j 23:04	0° M ₊			281 Apr 05 j 10:37	0° ∀	
desc. node	278 Oct 14 j 04:01	7°M45'12			281 May 02 j 14:26	0° Y	
	278 Oct 31 j 23:49	0° ∡			281 May 28 j 15:12	0°B	
	278 Nov 25 j 02:11	0°₹			281 Jun 23 j 00:52	0°Щ	
	278 Dec 19 j 08:19	0° ≈		_	281 Jul 17 j 23:06	0°©	
	279 Jan 12 j 22:49	0° ∀		asc. node	281 Jul 22 j 02:06	5° © 00'52	
asc. node	279 Feb 04 j 06:53	26°) €31'38			281 Aug 11 j 11:27	$0^{\circ}\Omega$	
	279 Feb 07 j 06:34	$^{\circ \gamma}$		· .	281 Sep 04 j 15:54	0° M)	
	279 Mar 06 j 02:25	0°8		morning set	281 Sep 11 j 04:04	8° Mp 07'26	

	281 Sep 28 j 15:08	0∘ 亚			284 Mar 17 j 11:26	30° ₹	
max. Earth dist.	281 Oct 18 j 21:08	25° ≏ 27'09	1.71196 AU	inferior conj	284 Mar 19 j 07:04	28° ¥ 50'49	7°34'16
				minimum elong	284 Mar 19 j 15:08	28° ∺ 37'58	7°33'09
superior conj	281 Oct 19 j 21:39	26° ₽ 44'16	0°48'41	min. Earth dist.	284 Mar 19 j 03:48	28° ℋ 56'00	0.28621 AU
minimum elong	281 Oct 20 j 07:51	27° ≙ 16′19	0°48'16	morning rise	284 Mar 23 j 19:41	26°) 02′20	
	281 Oct 22 j 11:53	0° M .		direct	284 Apr 09 j 13:42	20°) 39′00	
desc. node	281 Nov 10 j 15:54	24°ML07'06		greatest brilliancy	284 Apr 19 j 03:46	22° ∺ 19'35	-4.7m
	281 Nov 15 j 08:09	0° ∡ ¹		desc. node	284 Apr 27 j 10:43	26°) €03'37	
evening rise	281 Nov 30 j 05:55	18° × ⁷ 44'13		acoc. noue	284 May 03 j 19:32	0° Υ	
evening rise	281 Dec 09 j 05:12	0°ਰ		morning max el	284 May 28 j 08:34	20° Υ 31'33	15015115
	3	0°≈		morning max er		0° 8	43 43 43
	282 Jan 02 j 04:14				284 Jun 06 j 23:36		
	282 Jan 26 j 07:05	0° ∀			284 Jul 05 j 01:20	0°Π	
	282 Feb 19 j 16:44	0° Υ			284 Jul 31 j 06:47	0ංම	
asc. node	282 Mar 03 j 18:56	14° Ƴ 40'46		asc. node	284 Aug 18 j 14:01	21°5641'04	
	282 Mar 16 j 13:19	$_{0\circ}$ 8			284 Aug 25 j 11:46	$0 {\circ} \Omega$	
	282 Apr 11 j 03:10	Π $^{\circ}0$			284 Sep 19 j 00:41	0° m y	
	282 May 07 j 23:23	$0 \circ \mathfrak{S}$			284 Oct 13 j 03:28	0∘ ⊽	
evening max el	282 May 31 j 16:48	24° © 15'53	45°22'18		284 Nov 06 j 01:05	0° M .	
•	282 Jun 06 j 20:51	$0^{\circ}\Omega$		morning set	284 Nov 24 j 08:37	23°ML03'03	
desc. node	282 Jun 23 j 08:28	13° £ 23′25		. 8	284 Nov 29 j 21:05	0° ∡ ¹	
greatest brilliancy	282 Jul 09 j 07:25		-4.7m	desc. node	284 Dec 08 j 03:35	10° х 24′32	
retrograde	282 Jul 19 j 06:07	23° Ω 45'46	7.7111	dese. Hode	284 Dec 23 j 17:32	0°ਰ ਹਾਲ	
•	,				204 Dec 23 j 17.32	0.0	
evening set	282 Aug 05 j 16:32	18° Ω 06'19	0022116		205 1 05:07.20	150-745145	1000122
inferior conj	282 Aug 09 j 12:01	15° Ω 47'26		superior conj	285 Jan 05 j 07:29	15° る 47'45	
minimum elong	282 Aug 09 j 06:20	15° Ω 56'13		minimum elong	285 Jan 04 j 19:37	15° る 10'34	
min. Earth dist.	282 Aug 09 j 21:59		0.28386 AU	max. Earth dist.	285 Jan 08 j 20:29		1.71397 AU
morning rise	282 Aug 12 j 19:58	13° Ω 45'14			285 Jan 16 j 15:32	0° ≈	
direct	282 Aug 30 j 22:13	7° Ω 39'03			285 Feb 09 j 16:04	0° ∀	
greatest brilliancy	282 Sep 10 j 19:59	9° Ω 50'09	-4.8m	evening rise	285 Feb 15 j 01:52	6°) 43′42	
	282 Oct 09 j 18:00	0° m)			285 Mar 05 j 20:28	0 $^{\circ}$ $\mathbf{\Upsilon}$	
asc. node	282 Oct 14 j 11:40	4° Mp 27'46			285 Mar 30 j 06:08	9° 8	
morning max el	282 Oct 20 j 06:26	10° m 10'44	46°41'13	asc. node	285 Mar 31 j 06:55	1° 8 15'48	
8	282 Nov 07 j 20:23	0∘ ಹ			285 Apr 23 j 22:25	0°II	
	282 Dec 03 j 20:21	0° m .			285 May 18 j 23:08	0°9	
	282 Dec 28 j 19:30	0° ⊼ ¹			285 Jun 13 j 11:56	0°Ω	
	·	0°ਤ				0° m p	
	283 Jan 22 j 09:25			1 1	285 Jul 09 j 21:27		
desc. node	283 Feb 03 j 01:17	14° る 17'46		desc. node	285 Jul 20 j 20:15	11° m 58'19	
	283 Feb 15 j 20:16	0° ≈			285 Aug 07 j 03:40	0° ⊽	
	283 Mar 12 j 06:34	0° ∀		evening max el	285 Aug 12 j 06:25	5° ഫ 02'03	46°20'07
	283 Apr 05 j 17:16	0 ° Υ			285 Sep 11 j 23:54	0° M	
morning set	283 Apr 25 j 05:33	23° Y 55'46		greatest brilliancy	285 Sep 21 j 20:49	4°M33'21	-4.9m
	283 Apr 30 j 04:24	9° 8		retrograde	285 Sep 30 j 21:28	6°ML04'35	
	283 May 24 j 15:23	$\Pi^{\circ}0$		evening set	285 Oct 16 j 11:46	1°M23'58	
asc. node	283 May 27 j 04:30	3° Ⅱ 07'33			285 Oct 18 j 22:24	30° ŖΩ	
max. Earth dist.	283 May 30 j 13:17	7° Ⅱ 15'30	1.73637 AU	inferior conj	285 Oct 21 j 13:07	28° ≏ 25'47	-4°58'39
	, ,			minimum elong	285 Oct 21 j 22:53	28° £ 10'57	4°56'02
superior conj	283 May 31 j 19:13	8° Ⅱ 47′23	0°10'56	min. Earth dist.	285 Oct 22 j 04:17	28° ≏ 02'46	0.26668 AU
minimum elong	283 May 31 j 17:01	8° Ⅱ 40'37		morning rise	285 Oct 27 j 09:27	25° ≙ 00′26	
behind sun begin	283 May 31 j 00:31	7° Ⅱ 49'57	0 10 17	asc. node	285 Nov 10 j 23:20	20° £ 43'37	
behind sun end	283 Jun 01 j 09:31	9° Ⅱ 31'18				20° - 43'37	
bennia sun ena	·			direct	285 Nov 11 j 01:08		4.0
	283 Jun 18 j 01:18	0°©		greatest brilliancy	285 Nov 21 j 21:05	22° £ 56'38	-4.9m
evening rise	283 Jul 06 j 14:00	22°5649'05			285 Dec 04 j 12:34	0°M	
	283 Jul 12 j 09:47	0 \circ Ω		morning max el	285 Dec 31 j 17:54	24°M06'25	46°54'22
	283 Aug 05 j 17:24	0° m p			286 Jan 06 j 10:53	0° ≯	
	283 Aug 30 j 01:25	0∘ 亚			286 Feb 02 j 16:32	0°ರ	
desc. node	283 Sep 15 j 18:12	20° ≏ 32'14			286 Feb 28 j 12:40	0° ≈	
	283 Sep 23 j 11:18	0° M ₊		desc. node	286 Mar 02 j 13:15	2° ≈ 23'04	
	283 Oct 18 j 00:42	0° ∡ ¹			286 Mar 25 j 19:35	0° ∀	
	283 Nov 11 j 20:51	0°ಕ			286 Apr 19 j 20:07	γ_0	
	283 Dec 07 j 08:20	0° ≈			286 May 14 j 16:41	0° 8	
	284 Jan 03 j 12:06	0° ∀			286 Jun 08 j 09:29	0°II	
asc. node	284 Jan 06 j 21:06	3° ¥ 28'45		asc. node	286 Jun 23 j 16:19	18° Ⅱ 40'33	
evening max el	284 Jan 07 j 13:45	4° ¥ 11'05	46°51'42	morning set	286 Jul 01 j 15:42	28° I I27'26	
evening max ci	284 Feb 06 j 15:49	4 γ 11 03	TO 31 72	morning set	286 Jul 02 j 21:51	0°95	
grantant brillianar		5° Υ 01'57	-4.8m		-	0° U	
greatest brilliancy	284 Feb 16 j 10:44		-4.0111	mov Etl- U t	286 Jul 27 j 05:25		1 72//0 411
retrograde	284 Feb 27 j 00:54	7° Y 07'59		max. Earth dist.	286 Aug 03 j 08:53	8° Ω 51′28	1.72668 AU
evening set	284 Mar 15 j 10:52	1° Y 15′15					

superior conj	286 Aug 07 j 02:08	13° Ω 28'32	1°20'14	direct	289 Jan 24 j 14:12	6° る 53'31	
minimum elong	286 Aug 06 j 20:40	13° Ω 11'35	1°20'09	greatest brilliancy	289 Feb 02 j 13:07	8° පි 25'10	-4.9m
	286 Aug 20 j 08:55	0° m)			289 Mar 06 j 08:53	0° ≈	
evening rise	286 Sep 13 j 07:06	29° m 50'56		morning max el	289 Mar 15 j 05:19	8° ≈ 22'00	46°18'15
	286 Sep 13 j 10:00	0∘ ⊽		desc. node	289 Mar 30 j 01:03	23° ≈ 27'38	
	286 Oct 07 j 10:25	0° M .			289 Apr 05 j 04:22	0° \	
desc. node	286 Oct 13 j 06:04	7° ™ 16'04			289 May 02 j 04:48	ο°Υ	
desc. Hode	286 Oct 31 j 11:23	0° ∡ 7			289 May 28 j 04:01	0°8	
	·	0° ろ			• •	0°I	
	286 Nov 24 j 14:01				289 Jun 22 j 12:50		
	286 Dec 18 j 20:33	0° ≈			289 Jul 17 j 10:34	0°9	
	287 Jan 12 j 11:46	0° ∺		asc. node	289 Jul 21 j 04:15	4°532'39	
asc. node	287 Feb 03 j 09:02	25° ¥ 56'38			289 Aug 10 j 22:40	0 $^{\circ}$ Ω	
	287 Feb 06 j 20:57	0 ° Υ			289 Sep 04 j 03:01	0° m y	
	287 Mar 05 j 20:19	0°8		morning set	289 Sep 08 j 19:05	5° ™ 49'44	
evening max el	287 Mar 19 j 14:19	14° 8 00'41	45°40'13		289 Sep 28 j 02:15	0∘ ⊽	
	287 Apr 06 j 13:02	Π $^{\circ}0$		max. Earth dist.	289 Oct 16 j 01:58	22° £ 36′21	1.71227 AU
greatest brilliancy	287 Apr 26 j 11:26	12° Ⅲ 07'13	-4.7m		•		
retrograde	287 May 07 j 11:18	14° Ⅱ 18′01		superior conj	289 Oct 17 j 09:36	24° £ 15'47	0°51'44
evening set	287 May 22 j 11:55	9° ∏ 55'23		minimum elong	289 Oct 17 j 20:01	24° ≏ 48'33	0°51'20
desc. node	287 May 25 j 22:31	7° Ⅱ 55'42		minimum ciong	289 Oct 21 j 23:04	0° M	0 31 20
		6° Ⅱ 04'47	0941157	desc. node		23°M37'52	
inferior conj	287 May 28 j 22:13			desc. node	289 Nov 09 j 17:51		
minimum elong	287 May 28 j 20:40	6° Ⅱ 07'12			289 Nov 14 j 19:25	0° ∡ ¹	
min. Earth dist.	287 May 29 j 01:23	5° Ⅱ 59'51	0.28986 AU	evening rise	289 Nov 27 j 15:32	16° ∡ ¹08'05	
morning rise	287 Jun 04 j 05:22	2° Ⅱ 18′04			289 Dec 08 j 16:35	0° ප	
	287 Jun 08 j 22:54	30° ₹ 8			290 Jan 01 j 15:43	0° ≈	
direct	287 Jun 19 j 14:13	27° 8 45'55			290 Jan 25 j 18:43	0°) €	
greatest brilliancy	287 Jun 30 j 03:44	29° 8 46'00	-4.7m		290 Feb 19 j 04:39	0° Υ	
	287 Jun 30 j 18:51	Π $^{\circ}0$		asc. node	290 Mar 02 j 21:03	14° Ƴ 10′28	
morning max el	287 Aug 07 j 16:18	27° Ⅱ 55'04	45°58'32		290 Mar 16 j 01:50	9° 8	
	287 Aug 09 j 19:41	0°©			290 Apr 10 j 16:58	$\Pi^{\circ}0$	
	287 Sep 07 j 03:27	0°N			290 May 07 j 16:09	0°9	
asc. node	287 Sep 16 j 01:58	10° Ω 08'51		evening max el	290 May 29 j 07:21	22° © 01'22	45°21'21
use. node	287 Oct 03 j 01:01	0° my		evening max er	290 Jun 06 j 23:37	0°Ω	13 2121
	287 Oct 03 j 01:01 287 Oct 27 j 20:09	0∘ ت مس		desc. node	290 Jun 22 j 10:33	12° Ω 10'17	
		0 == 0°M₊			-		4.7
	287 Nov 21 j 02:31			greatest brilliancy	290 Jul 06 j 21:20	19° Ω 45'14	-4./m
	287 Dec 15 j 03:40	0° ∡ ¹		retrograde	290 Jul 16 j 20:02	21° Ω 31'32	
desc. node	288 Jan 05 j 15:29	26° ∡ 51'55		evening set	290 Aug 03 j 04:15	15° Ω 56'30	
	288 Jan 08 j 03:42	0°ಕ		inferior conj	290 Aug 07 j 03:05	13° Ω 32'45	
	288 Feb 01 j 04:35	0° ≈		minimum elong	290 Aug 06 j 20:43	13° Ω 42'34	8°14'58
morning set	288 Feb 10 j 13:16	11° ≈ 39′29		min. Earth dist.	290 Aug 07 j 12:46	13° Ω 17'46	0.28429 AU
	288 Feb 25 j 07:19	0° ∀		morning rise	290 Aug 10 j 12:57	11° Ω 27'27	
				direct	290 Aug 28 j 13:18	5° Ω 23'38	
superior conj	288 Mar 20 j 19:09	0° Y 20'36	-1°14'19	greatest brilliancy	290 Sep 08 j 11:38	7° Ω 34'33	-4.8m
minimum elong	288 Mar 21 j 03:49	0° Υ 47'21	1°14'06		290 Oct 09 j 20:40	0° m)	
C	288 Mar 20 j 12:29	0° Ƴ		asc. node	290 Oct 13 j 13:36	3° m 33'19	
max. Earth dist.	288 Mar 23 j 17:29	3° Y ′57'53	1.72938 AU	morning max el	290 Oct 17 j 19:47	7° m) 47'00	46°39'55
max. Bartii dist.	288 Apr 13 j 20:23	0° ∀	1.72/30 110	morning max or	290 Nov 07 j 13:43	0∘ ಹ	10 37 33
evening rise	288 Apr 27 j 13:41	16° 8 51'42			290 Dec 03 j 10:50	0° M	
Č		17° 8 07'09			•	0° ⊼	
asc. node	288 Apr 27 j 18:43				290 Dec 28 j 08:40		
	288 May 08 j 06:52	0°II			291 Jan 21 j 21:48	0°る	
	288 Jun 01 j 19:44	0°9		desc. node	291 Feb 02 j 03:23	13°る47'00	
	288 Jun 26 j 11:21	$0^{\circ}\Omega$			291 Feb 15 j 08:08	0° ≈	
	288 Jul 21 j 07:11	0° m)			291 Mar 11 j 18:03	0° ∀	
	288 Aug 15 j 09:58	0∘ 亚			291 Apr 05 j 04:25	$0^{\circ}\Upsilon$	
desc. node	288 Aug 17 j 08:15	2° ₽ 17'01		morning set	291 Apr 22 j 23:08	21° Y 48'51	
	288 Sep 10 j 00:32	0° M			291 Apr 29 j 15:21	0° 8	
	288 Oct 06 j 14:17	0° ∡			291 May 24 j 02:13	$\Pi^{\circ}0$	
evening max el	288 Oct 24 j 13:32	19° ∡ ′00′09	47°21'19	asc. node	291 May 26 j 06:35	2° Ⅱ 40'42	
Ü	288 Nov 04 j 21:53	0°ಕ		max. Earth dist.	291 May 28 j 09:41	5° Ⅱ 17'31	1.73643 AU
greatest brilliancy	288 Dec 04 j 02:14	20° る 29'32	-4.9m		<i>y y</i>		
asc. node	288 Dec 08 j 11:19	20° ろ 50'11		superior conj	291 May 29 j 13:49	6° Ⅱ 43'54	0°07'50
retrograde	288 Dec 14 j 11:18	21° ろ 32'59		minimum elong	291 May 29 j 12:14	6° ∏ 39'01	0°07'46
evening set	288 Dec 29 j 19:02	22 3 3239		behind sun begin	291 May 28 j 16:32	5° Ⅱ 38'33	0 0/ 10
•	289 Jan 03 j 03:11		0.26010 411	behind sun end		7° П 39'31	
min. Earth dist.		15° る 13'18		bening sun eng	291 May 30 j 07:56		
inferior conj	289 Jan 04 j 02:56	14° る 36'30	6°10'48		291 Jun 17 j 12:10	0°95	
minimum elong	289 Jan 03 j 16:46	14° ろ 52'16	o~08'30	evening rise	291 Jul 04 j 09:05	20°546'17	
morning rise	289 Jan 08 j 15:07	11° る 53'27			291 Jul 11 j 20:47	0 \circ Ω	

	291 Aug 05 j 04:38	0° m)			294 Jan 06 j 07:36	0° ∡ 7	
	291 Aug 29 j 13:00	0∘ ⊽			294 Feb 02 j 08:17	0°₹	
desc. node	291 Sep 14 j 20:11	20° ≏ 01'45			294 Feb 28 j 02:17	0° ≈	
	291 Sep 22 j 23:23	0°M₊		desc. node	294 Mar 01 j 15:19	1° ≈ 49'16	
	291 Oct 17 j 13:29	0° ∡ ¹			294 Mar 25 j 08:02	0° ∀	
	291 Nov 11 j 10:41	ა∘გ			294 Apr 19 j 07:51	0° Ƴ	
	291 Dec 07 j 00:09	0° ≈			294 May 14 j 03:57	9° 8	
	292 Jan 03 j 09:01	0° ∀			294 Jun 07 j 20:27	$\Pi^{\circ}0$	
evening max el	292 Jan 05 j 03:32	1°) 48′37	46°54'00	asc. node	294 Jun 22 j 18:31	18° Ⅱ 14'09	
asc. node	292 Jan 05 j 23:14	2° ∺ 38'33		morning set	294 Jun 29 j 09:53	26° Ⅲ 22'43	
	292 Feb 08 j 03:26	0° Ƴ			294 Jul 02 j 08:38	0 \circ 60	
greatest brilliancy	292 Feb 14 j 03:36	2° Y 48'04	-4.8m		294 Jul 26 j 16:08	$0^{\circ}\Omega$	
retrograde	292 Feb 24 j 16:38	4° Ƴ 53'46		max. Earth dist.	294 Aug 01 j 03:47	6° Ω 47'53	1.72716 AU
	292 Mar 11 j 10:49	30° Ŗ ₩					
evening set	292 Mar 13 j 05:11	28° ¥ 57'19		superior conj	294 Aug 04 j 19:40	11° Ω 20′33	1°19'09
inferior conj	292 Mar 16 j 22:54	26° ∺ 36'50	7°43'54	minimum elong	294 Aug 04 j 13:41	11° Ω 02'00	1°19'03
minimum elong	292 Mar 17 j 06:33	26° ∺ 24'41	7°42'55		294 Aug 19 j 19:42	0° m)	
min. Earth dist.	292 Mar 16 j 19:12	26°) 42'44	0.28586 AU	evening rise	294 Sep 10 j 21:51	27° m 32'58	
morning rise	292 Mar 21 j 08:09	23° ¥ 53′20			294 Sep 12 j 20:57	0∘ ⊽	
direct	292 Apr 07 j 04:17	18° ∺ 25'27			294 Oct 06 j 21:35	0° M	
greatest brilliancy	292 Apr 16 j 18:34	20° ∺ 06′01	-4.7m	desc. node	294 Oct 12 j 08:05	6° ™ 47'17	
desc. node	292 Apr 26 j 12:38	24° ∺ 39'43			294 Oct 30 j 22:48	0° ∡ ¹	
	292 May 04 j 14:16	0° Υ			294 Nov 24 j 01:45	0°ಕ	
morning max el	292 May 25 j 23:42	18° Y 18'54	45°46'20		294 Dec 18 j 08:43	0° ≈	
	292 Jun 06 j 18:48	0°8			295 Jan 12 j 00:40	0° ℋ	
	292 Jul 04 j 16:02	$\Pi^{\circ}0$		asc. node	295 Feb 02 j 11:06	25° ∺ 21'42	
	292 Jul 30 j 19:40	0ං ව			295 Feb 06 j 11:20	0° Ƴ	
asc. node	292 Aug 17 j 16:08	21° © 10'53			295 Mar 05 j 14:26	0°8	
	292 Aug 24 j 23:48	0° N		evening max el	295 Mar 17 j 06:57	11° 8 51'14	45°42'11
	292 Sep 18 j 12:16	0° m/			295 Apr 07 j 00:36	0°II	
	292 Oct 12 j 14:50	0∘ 亚		greatest brilliancy	295 Apr 24 j 03:42	9° Ⅱ 58'44	-4.7m
. ,	292 Nov 05 j 12:20	0°M,		retrograde	295 May 05 j 04:03	12° Ⅱ 09'37	
morning set	292 Nov 21 j 18:53	20°M29'00 0° <i>₹</i>		evening set	295 May 20 j 04:54	7°∏46'22 4°∏55'14	
dasa mada	292 Nov 29 j 08:16	0° x ′ 9° x 756′10		desc. node inferior conj	295 May 25 j 00:42	3° Ц 55'14	0022111
desc. node	292 Dec 07 j 05:44 292 Dec 23 j 04:40	0° 공		minimum elong	295 May 26 j 14:35 295 May 26 j 13:46	3° Д 56'06	
	292 Dec 23 j 04.40	0.0		min. Earth dist.	295 May 26 j 17:37	3° П 51'21	0.2137 0.28986 AU
superior conj	293 Jan 02 j 17:13	13° る 12'56	-0°57'29	morning rise	295 Jun 01 j 22:40	0° П 08'02	0.20700 AC
minimum elong	293 Jan 02 j 05:23	13 3 1230 12° 3 35'49		morning risc	295 Jun 02 j 04:33	30°R₩	
max. Earth dist.	293 Jan 06 j 00:53		1.71358 AU	direct	295 Jun 17 j 07:06	25° 8 37'21	
man. Darur alov.	293 Jan 16 j 02:37	0° ≈	1., 1500110	greatest brilliancy	295 Jun 27 j 18:57	27° 8 36'15	-4.7m
	293 Feb 09 j 03:08	0°) €		8	295 Jul 03 j 07:03	0°П	
evening rise	293 Feb 12 j 13:51	4°) €17'16		morning max el	295 Aug 05 j 08:30	25° Ⅱ 45'17	45°57'25
C	293 Mar 05 j 07:35	0° Ƴ		Ü	295 Aug 09 j 16:31	0° ©	
	293 Mar 29 j 17:24	0° ႘			295 Sep 06 j 18:36	$0^{\circ}\Omega$	
asc. node	293 Mar 30 j 08:54	0° 8 47'22		asc. node	295 Sep 15 j 03:56	9° Ω 33′20	
	293 Apr 23 j 10:01	Π $^{\circ}0$			295 Oct 02 j 14:09	0° m y	
	293 May 18 j 11:21	0 \circ \odot			295 Oct 27 j 08:23	0∘ ⊽	
	293 Jun 13 j 01:20	$0^{\circ}\Omega$			295 Nov 20 j 14:15	0° M ₊	
	293 Jul 09 j 13:16	0° m			295 Dec 14 j 15:07	0° ⊀	
desc. node	293 Jul 19 j 22:23	11° m 17'03		desc. node	296 Jan 04 j 17:37	26° х 23′28	
	293 Aug 07 j 01:45	0∘ ⊽			296 Jan 07 j 14:56	0°ಕ	
evening max el	293 Aug 09 j 19:37	2° ≏ 40'40	46°17'26		296 Jan 31 j 15:38	0° ≈	
	293 Sep 14 j 02:34	0° M		morning set	296 Feb 08 j 00:55	9° ≈ 12'11	
greatest brilliancy	293 Sep 19 j 08:42	2°M06'17	-4.9m		296 Feb 24 j 18:12	0° ∀	
retrograde	293 Sep 28 j 09:51	3° M ₃37'45					
	293 Oct 12 j 00:02	30° ₹ Ω		superior conj	296 Mar 18 j 09:57	28°) €04'40	
evening set	293 Oct 14 j 03:01	28° ₽ 52'19		minimum elong	296 Mar 18 j 18:13	28°) (30′12	1°15'48
inferior conj	293 Oct 19 j 01:23	25° £ 58'19			296 Mar 19 j 23:15	0°Υ 1° 00 57110	1.70000 : *-
minimum elong	293 Oct 19 j 11:31	25° Ω 42'59		max. Earth dist.	296 Mar 21 j 13:13	1° Υ 57'18	1.72888 AU
min. Earth dist.	293 Oct 19 j 17:23		0.26722 AU		296 Apr 13 j 07:06	0°8	
morning rise	293 Oct 24 j 19:29	22° £ 36'19		evening rise	296 Apr 25 j 06:53	14° 8 44'11	
direct	293 Nov 08 j 14:28	18° £ 15'14		asc. node	296 Apr 26 j 20:48	16° ႘ 40'33	
asc. node greatest brilliancy	293 Nov 10 j 01:27	18° ♀ 17'50 20° ♀ 29'22	-4 9m		296 May 07 j 17:39 296 Jun 01 j 06:44	0°© ∏	
greatest orillativy	293 Nov 19 j 10:58 293 Dec 05 j 10:33	20 == 2922 0° ™	7.7111		296 Jun 25 j 22:44	0°Ω	
morning max el	293 Dec 03 j 10.33 293 Dec 29 j 08:37	21°M43'36	46°54'55		296 Jul 23 j 22.44 296 Jul 20 j 19:12	0°m)	
morning max ci	273 DOC 27 J 00.37	21 IIV+330	10 57 55		270 Jul 20 J 17.12	עויי	

	296 Aug 14 j 22:58	0० ত			299 Apr 04 j 15:16	$\mathbf{\gamma}_{0}$	
desc. node	296 Aug 16 j 10:16	1° ≏ 44'18		morning set	299 Apr 20 j 16:29	19° Ƴ 41'57	
	296 Sep 09 j 15:13	0°M			299 Apr 29 j 02:01	8°	
	296 Oct 06 j 08:27	0° ∡ ¹			299 May 23 j 12:48	$\Pi^{\circ}0$	
evening max el	296 Oct 22 j 04:17	16° ∡ ³38'30	47°20'20	asc. node	299 May 25 j 08:44	2° Ⅱ 14'51	
v , v 8 v .	296 Nov 05 j 03:31	0°ප		max. Earth dist.	299 May 26 j 06:02	3° Ⅱ 20′13	1.73648 AU
greatest brilliancy	296 Dec 01 j 16:35	00 18° ろ 03'50	4 0m	max. Lartii dist.	255 May 20 j 00.02	3 112013	1.75040710
-	-		-4.9111		200 M 27 : 00-10	49TT 4012 C	0°04'43
asc. node	296 Dec 07 j 13:26	19°る42'01		superior conj	299 May 27 j 08:10	4° Ⅱ 40′26	
retrograde	296 Dec 12 j 00:40	20° る 05'52		minimum elong	299 May 27 j 07:12	4° Ⅱ 37'29	0°04'41
evening set	296 Dec 27 j 05:12	15° る 27'43		behind sun begin	299 May 26 j 09:39	3° Ⅱ 31'19	
min. Earth dist.	296 Dec 31 j 16:51	12° る 46'38	0.26860 AU	behind sun end	299 May 28 j 04:46	5° Ⅱ 43'40	
inferior conj	297 Jan 01 j 15:59	12° る 10'45	5°53'54		299 Jun 16 j 22:46	0 \circ \odot	
minimum elong	297 Jan 01 j 05:53	12° る 26'25	5°51'31	evening rise	299 Jul 02 j 04:01	18° © 43'55	
morning rise	297 Jan 06 j 07:12	9° ප 23'16			299 Jul 11 j 07:32	$0^{\circ}\Omega$	
direct	297 Jan 22 j 02:56	4° ප 28'52			299 Aug 04 j 15:38	0° m)	
greatest brilliancy	297 Jan 31 j 02:38	6° る 00'59	-4 9m		299 Aug 29 j 00:23	0∘ ಹ	
greatest offinality	-	0°≈	4.7111	desc. node		0 — 19° ≏ 31'57	
	297 Mar 06 j 11:47		46010141	desc. Hode	299 Sep 13 j 22:12		
morning max el	297 Mar 12 j 18:07	5° ≈ 59'34	46°19'41		299 Sep 22 j 11:18	0° M ₅	
desc. node	297 Mar 29 j 03:01	22° ≈ 44'19			299 Oct 17 j 02:06	0° ∡	
	297 Apr 04 j 21:30	0°) €			299 Nov 11 j 00:23	0°₹	
	297 May 01 j 18:47	0 ° Υ			299 Dec 06 j 15:53	0° ≈	
	297 May 27 j 16:27	9° 8		evening max el	300 Jan 02 j 17:49	29° ≈ 28'31	46°56'27
	297 Jun 22 j 00:26	$\Pi^{\circ}0$			300 Jan 03 j 06:13	0° ∀	
	297 Jul 16 j 21:42	0ಂತಾ		asc. node	300 Jan 05 j 01:18	1° ¥ 48'26	
asc. node	297 Jul 20 j 06:16	4°905'02			300 Feb 10 j 09:22	0°Υ	
use. Houe	297 Aug 10 j 09:34	0° Ω		greatest brilliancy	300 Feb 11 j 19:47	0° Υ 34'41	-4.8m
				-	•		-4.0111
	297 Sep 03 j 13:50	0° m		retrograde	300 Feb 22 j 08:54	2° Υ 41'02	
morning set	297 Sep 06 j 10:12	3° m 33'17			300 Mar 04 j 20:09	30° ₹	
	297 Sep 27 j 13:04	0० ত		evening set	300 Mar 10 j 23:27	26°) 40′48	
max. Earth dist.	297 Oct 13 j 07:19	19° ≙ 48'17	1.71257 AU	inferior conj	300 Mar 14 j 14:52	24°) 24′05	7°52'42
				minimum elong	300 Mar 14 j 22:03	24° 升 12'42	7°51'51
superior conj	297 Oct 14 j 21:57	21° ≏ 49'43	0°54'40	min. Earth dist.	300 Mar 14 j 10:22	24°) €31'13	0.28552 AU
minimum elong	297 Oct 15 j 08:31	22° £ 22'57	0°54'15	morning rise	300 Mar 18 j 20:50	21°) 45'40	
S	297 Oct 21 j 09:54	0°M		direct	300 Apr 04 j 19:16	16°) €13'05	
desc. node	297 Nov 08 j 20:02	23°M10'28		greatest brilliancy	300 Apr 14 j 09:17	17° ¥ 53'35	-4.7m
uese. Houe	-	0° x ⁷		•			-4./111
	297 Nov 14 j 06:19			desc. node	300 Apr 25 j 14:51	23°) €20'03	
evening rise	297 Nov 25 j 01:33	13° ∡ ³34′23			300 May 05 j 03:45	0° Υ	
	297 Dec 08 j 03:34	0°ಕ		morning max el	300 May 23 j 15:51	16° Ƴ 09'25	45°46'47
	298 Jan 01 j 02:49	0° ≈			300 Jun 06 j 13:15	8°	
	298 Jan 25 j 06:01	0° ∀			300 Jul 04 j 06:22	$\Pi^{\circ}0$	
	298 Feb 18 j 16:16	0° Υ			300 Jul 30 j 08:18	0 \circ \odot	
asc. node	298 Mar 01 j 23:00	13° Ƴ 40′26		asc. node	300 Aug 16 j 18:08	20°940'58	
	298 Mar 15 j 14:07	0°8			300 Aug 24 j 11:35	$0^{\circ}\Omega$	
	298 Apr 10 j 06:37	0°II			300 Sep 17 j 23:37	0° m)	
		0ංම ග				0∘ ಹ	
·	298 May 07 j 08:59		45020120		300 Oct 12 j 01:59		
evening max el	298 May 26 j 21:16	19° © 46'11	45°20'39		300 Nov 04 j 23:24	0°M	
	298 Jun 07 j 03:42	0 $^{\circ}\Omega$		morning set	300 Nov 19 j 05:18	17°M55'52	
desc. node	298 Jun 21 j 12:39	10° Ω 55'55			300 Nov 28 j 19:19	0° ≯ 7	
greatest brilliancy	298 Jul 04 j 10:50	17° Ω 31'05	-4.7m	desc. node	300 Dec 06 j 07:49	9° ∡ 728′06	
retrograde	298 Jul 14 j 10:15	19° Ω 18'32			300 Dec 22 j 15:39	0° ප	
evening set	298 Jul 31 j 15:49	13° Ω 47'40					
inferior conj	298 Aug 04 j 18:08	11° Ω 18′59	-8°08'03	superior conj	300 Dec 31 j 02:57	10° පි 38'29	-0°54'28
minimum elong	298 Aug 04 j 11:09	11° Ω 29'45		minimum elong	300 Dec 30 j 15:16	10° ට 01'48	0°54'02
min. Earth dist.	298 Aug 05 j 03:31	11° Ω 04'29		max. Earth dist.	301 Jan 03 j 07:14	14° ප 37'51	1.71318 AU
		9° Ω 10′23	0.20473 AC	max. Lartii dist.	-	0°≈	1./1310 AC
morning rise	298 Aug 08 j 06:13				301 Jan 15 j 13:32		
direct	298 Aug 26 j 04:18	3° Ω 08'57			301 Feb 08 j 14:01	0° ∀	
greatest brilliancy	298 Sep 06 j 03:45	5° Ω 20'30	-4.8m	evening rise	301 Feb 10 j 02:00	1° 米 51′57	
	298 Oct 09 j 21:36	0° m/			301 Mar 04 j 18:30	0° Y	
asc. node	298 Oct 12 j 15:43	2° Mp 41'09		asc. node	301 Mar 29 j 11:02	0° 8 20'01	
morning max el	298 Oct 15 j 09:41	5° Mp 25′38	46°38'46		301 Mar 29 j 04:29	0°8	
	298 Nov 07 j 06:23	0∘ ত			301 Apr 22 j 21:27	$\Pi^{\circ}0$	
	298 Dec 03 j 00:50	0°M			301 May 17 j 23:28	0°ಅ	
	298 Dec 27 j 21:23	0° ∡ 7			301 Jun 12 j 14:43	0°N	
	299 Jan 21 j 09:46	° ਨ ਹ			301 Jul 09 j 05:15	0° m)	
desc. node	299 Feb 01 j 05:24	13° ට 17'16		desc. node	301 Jul 19 j 00:24	10° m y 35'16	
acse. Houc				acse. Houc		-	
	299 Feb 14 j 19:37	0° ≈			301 Aug 07 j 00:38	0° ℃	46014140
	299 Mar 11 j 05:09	0° ∀		evening max el	301 Aug 07 j 09:37	0° £ 21'42	40 1449

4 41 311	201.0 16:20.10	200 0 20144	4.0	1 1	204 1 02:10.25	250 752155	
greatest brilliancy	301 Sep 16 j 20:19	29° ₽ 39'44	-4.8m	desc. node	304 Jan 03 j 19:35	25° ₹ 53'55	
	301 Sep 17 j 22:49	0° M ₊			304 Jan 07 j 02:19	0° ට	
retrograde	301 Sep 25 j 22:23	1°M11'26			304 Jan 31 j 02:52	0° ≈	
	301 Oct 03 j 14:49	30° ₹ Ω		morning set	304 Feb 05 j 12:22	6° ≈ 43'33	
evening set	301 Oct 11 j 18:29	26° ≏ 21'22			304 Feb 24 j 05:18	0° ℋ	
inferior conj	301 Oct 16 j 13:44	23° ₽ 31'27	-5°37'07				
minimum elong	301 Oct 17 j 00:08	23° ♀ 15'41	5°34'31	superior conj	304 Mar 16 j 00:43	25°) 47'50	-1°17'31
min. Earth dist.	301 Oct 17 j 06:13	23° ഫ 06'28	0.26776 AU	minimum elong	304 Mar 16 j 08:32	26° ℋ 12'01	1°17'22
morning rise	301 Oct 22 j 05:21	20° ♀ 12'56		Č	304 Mar 19 j 10:15	$_{0}$ $^{\circ}$ Υ	
direct	301 Nov 06 j 04:12	15° £ 47'37		max. Earth dist.	304 Mar 19 j 08:15	29°) 53'49	1.72834 AU
asc. node	301 Nov 00 j 04:12	15° ⊆ 58'22		max. Earth dist.	304 Apr 12 j 18:03	0° 8	1.72054710
	3		4.0			12° 8 35'59	
greatest brilliancy	301 Nov 17 j 00:25	18° ≏ 01'56	-4.9m	evening rise	304 Apr 23 j 00:04		
	301 Dec 06 j 02:48	0° M ₊		asc. node	304 Apr 25 j 22:58	16° 8 13'35	
morning max el	301 Dec 26 j 23:13	19° M ₊20'34	46°55'19		304 May 07 j 04:38	$\Pi^{\circ}0$	
	302 Jan 06 j 03:38	0° ∡ 7			304 May 31 j 17:54	0 \circ \odot	
	302 Feb 01 j 23:47	0°ಕ			304 Jun 25 j 10:19	$0 {\circ} \Omega$	
	302 Feb 27 j 15:45	0° ≈			304 Jul 20 j 07:27	O° m y	
desc. node	302 Feb 28 j 17:17	1°≈15'30			304 Aug 14 j 12:19	0∘ ত	
	302 Mar 24 j 20:21	0° ∀		desc. node	304 Aug 15 j 12:16	1° ≏ 10'37	
	302 Apr 18 j 19:28	0° Υ			304 Sep 09 j 06:24	0°M	
	302 May 13 j 15:07	0°8			304 Oct 06 j 03:30	0° ∡ 7	
	302 Jun 07 j 07:20	0°II		evening max el	304 Oct 19 j 18:06	14° × 13'17	47°10'12
	-	0 Ⅱ 17° Ⅱ 47'10		evening max er	304 Nov 05 j 12:02	14 メ ・13 17 0° る	4/ 1912
asc. node	302 Jun 21 j 20:29			4 4 1 200	,		4.0
morning set	302 Jun 27 j 04:11	24° Ⅱ 18'33		greatest brilliancy	304 Nov 29 j 07:16	15° る 36'59	-4.9m
	302 Jul 01 j 19:23	0ංම		asc. node	304 Dec 06 j 15:26	17° る 27'03	
	302 Jul 26 j 02:53	$0^{\circ}\Omega$		retrograde	304 Dec 09 j 13:20	17° る 37'17	
max. Earth dist.	302 Jul 29 j 20:43	4° Ω 38'13	1.72767 AU	evening set	304 Dec 24 j 15:22	13° る 04'11	
				min. Earth dist.	304 Dec 29 j 06:44	10° ರ 18'02	0.26803 AU
superior conj	302 Aug 02 j 13:16	9° Ω 12'47	1°17'57	inferior conj	304 Dec 30 j 04:56	9° ප 43'36	5°36'15
minimum elong	302 Aug 02 j 06:49	8° Ω 52'47	1°17'50	minimum elong	304 Dec 29 j 18:58	9° ප 59'04	5°33'48
Ç	302 Aug 19 j 06:32	0° m)		morning rise	305 Jan 03 j 23:07	6° る 51'47	
evening rise	302 Sep 08 j 12:35	25° m 14'54		direct	305 Jan 19 j 15:05	2° ප 02'36	
evening rise	302 Sep 30 j 12:55 302 Sep 12 j 07:57	0° ರ		greatest brilliancy	305 Jan 28 j 16:36	3° る 35'54	4 0m
				greatest offinancy		0°≈	-4.9111
1 1	302 Oct 06 j 08:48	0°M			305 Mar 06 j 13:39		46021112
desc. node	302 Oct 11 j 10:13	6° ጤ 18'47		morning max el	305 Mar 10 j 06:20	3°≈34'26	46°21'13
	302 Oct 30 j 10:18	0° ∡ ¹		desc. node	305 Mar 28 j 05:13	22°≈01'11	
	302 Nov 23 j 13:35	0°ಕ			305 Apr 04 j 14:38	0° ∀	
	302 Dec 17 j 21:01	0° ≈			305 May 01 j 08:56	$0^{\circ}\mathbf{\Upsilon}$	
	303 Jan 11 j 13:46	0° ∀			305 May 27 j 05:08	9° 8	
asc. node	303 Feb 01 j 13:06	24°) 46′01			305 Jun 21 j 12:16	$\Pi^{\circ}0$	
	303 Feb 06 j 01:59	$0^{\circ}\mathbf{\Upsilon}$			305 Jul 16 j 09:04	0° ©	
	303 Mar 05 j 09:03	0° ႘		asc. node	305 Jul 19 j 08:19	3°536'49	
evening max el	303 Mar 14 j 23:24	9° 8 41'06	45°44'16		305 Aug 09 j 20:43	$0^{\circ}\Omega$	
	303 Apr 07 j 16:05	0°II			305 Sep 03 j 00:55	0° m/y	
greatest brilliancy	303 Apr 21 j 20:47	7° Ⅱ 51'33	-4.7m	morning set	305 Sep 04 j 01:37	1° m) 17'03	
		10° I 01'50	-4.7111	morning set	305 Sep 04 j 01:37 305 Sep 27 j 00:10	0° ⊡	
retrograde	303 May 02 j 20:35			E d Ed			1.71200 ATT
evening set	303 May 17 j 22:19	5° Ⅱ 37'54	0000100	max. Earth dist.	305 Oct 10 j 15:18	17° ≏ 07'26	1.71298 AU
inferior conj	303 May 24 j 07:14	1° Ⅱ 48'11					
minimum elong	303 May 24 j 07:08	1° Ⅱ 48′20	0°02'38	superior conj	305 Oct 12 j 10:26	19° ≙ 23'00	0°57'27
transit middle	303 May 24 j 07:08	1° Ⅱ 48'20	0°02'38	minimum elong	305 Oct 12 j 21:04	19° £ 56'27	0°57'04
transit begin	303 May 24 j 03:08	1° Ⅱ 54'37			305 Oct 20 j 21:05	0°M₊	
transit end	303 May 24 j 11:09	1° Ⅱ 42'03		desc. node	305 Nov 07 j 22:06	22°M41'32	
desc. node	303 May 24 j 02:42	1° Ⅱ 55'17			305 Nov 13 j 17:36	0° ∡ ¹	
min. Earth dist.	303 May 24 j 10:17	1° Ⅱ 43'24	0.28984 AU	evening rise	305 Nov 22 j 11:21	10° ∡ 758'51	
	303 May 27 j 04:51	30° ₹ 8		C	305 Dec 07 j 14:58	0°ठ	
morning rise	303 May 30 j 16:03	27° 8 58'48			305 Dec 31 j 14:20	0° ≈	
direct	303 Jun 15 j 00:02	23° 8 29'38			306 Jan 24 j 17:43	0°) €	
greatest brilliancy	303 Jun 25 j 10:30	25° 8 27'13	-4.7m		306 Feb 18 j 04:19	0° Υ	
greatest of illiancy	-	0°II	-4. /1Ⅱ	000 m - J -	-	0° γ 13° Υ 09'44	
	303 Jul 04 j 20:46		45056100	asc. node	306 Mar 01 j 01:08		
morning max el	303 Aug 02 j 23:58	23° Ⅱ 33'40	45~56'09		306 Mar 15 j 02:53	0° X	
	303 Aug 09 j 12:44	0ංම			306 Apr 09 j 20:50	$\Pi^{\circ}0$	
	303 Sep 06 j 09:43	$0^{\circ}\Omega$			306 May 07 j 02:36	0ංම	
asc. node	303 Sep 14 j 06:02	8° Ω 57'59		evening max el	306 May 24 j 11:37	17° © 31'12	45°20'13
	303 Oct 02 j 03:25	0° m			306 Jun 07 j 10:12	$0^{\circ}\Omega$	
	303 Oct 26 j 20:46	0∘ 亚		desc. node	306 Jun 20 j 14:39	9° Ω 38'29	
	303 Nov 20 j 02:10	0°M₊		greatest brilliancy	306 Jul 01 j 24:00	15° Ω 16′08	-4.7m
	303 Dec 14 j 02:43	0° ∡ ¹		retrograde	306 Jul 12 j 01:20	17° Ω 05'30	
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308 Jul 03 j 20:56 0° Π 308 Jul 29 j 21:13 0° Φ 308 Aug 15 j 20:13 20° Φ10′27 evening max el 311 Mar 05 j 04:14 0° ℧ 308 Aug 23 j 23:38 0° Ω 308 Sep 17 j 11:13 0° № greatest brilliancy 311 Apr 08 j 13:20 0° Π 308 Oct 11 j 13:21 0° Φ retrograde 311 Apr 30 j 12:39 7° Π 53′14 retrograde 310 Moy 15 j 15:42 3° Π 28′18 308 Nov 04 j 10:41 0° № avening set 310 Moy 15 j 10:44 30° ℝ U morning set 308 Nov 16 j 16:16 15° Ⅲ 23′56 inferior conj 311 May 21 j 23:46 29° ℧ 39′32 0° 16′58 minimum elong 311 May 22 j 00:23 29° ℧ 38′33 0° 16′47	morning max el		13° Y 58'59	45°47'17		-	0°) €	
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asc. node 308 Aug 15 j 20:13 20°©10'27 evening max el 311 Mar 12 j 14:52 7°♥28'10 45°46'08 308 Aug 23 j 23:38 0°№ 311 Apr 08 j 13:20 0°∏ 308 Sep 17 j 11:13 0°™ greatest brilliancy 311 Apr 19 j 14:14 5°∏43'59 -4.7m 308 Oct 11 j 13:21 0°№ retrograde 311 Apr 30 j 12:39 7°∏53'14 greatest brilliancy 308 Oct 13 j 23:30 3°№02'03 -3.9m evening set 311 May 15 j 15:42 3°∏28'18 308 Nov 04 j 10:41 0°™ sevening set 311 May 21 j 10:44 30°R₺ morning set 308 Nov 16 j 16:16 15°™23'56 inferior conj 311 May 21 j 23:46 29°♥39'32 0°16'58 308 Nov 28 j 06:33 0°ጾ minimum elong 311 May 22 j 00:23 29°♥38'33 0°16'47		308 Jul 03 j 20:56	$\Pi^{\circ}0$			311 Feb 05 j 16:46	$0^{\circ}\Upsilon$	
308 Aug 23 j 23:38 0°Ω 311 Apr 08 j 13:20 0°Ⅲ 308 Sep 17 j 11:13 0°™ greatest brilliancy 311 Apr 19 j 14:14 5° II 43:59 -4.7m 308 Oct 11 j 13:21 0°Ω retrograde 311 Apr 30 j 12:39 7° II 53'14 greatest brilliancy 308 Oct 13 j 23:30 3°Ω 02'03 -3.9m evening set 311 May 15 j 15:42 3° II 28'18 morning set 308 Nov 04 j 10:41 0° II 311 May 21 j 10:44 30° RԵ morning set 308 Nov 16 j 16:16 15° II 23'56 inferior conj 311 May 21 j 23:46 29° 839'32 0° 16'58 308 Nov 28 j 06:33 0° II 30 0° II May 22 j 00:23 29° 838'33 0° 16'47		308 Jul 29 j 21:13	0°ಅ			311 Mar 05 j 04:14	0° 8	
greatest brilliancy 308 Sep 17 j 11:13 0° th retrograde 311 Apr 19 j 14:14 5° II.43′59 -4.7m 308 Oct 11 j 13:21 0° £ retrograde 311 Apr 30 j 12:39 7° II.53′14 retrograde 311 May 15 j 15:42 3° II.84′159 1.54′1	asc. node	308 Aug 15 j 20:13	20°9510'27		evening max el			45°46'08
308 Oct 11 j 13:21 0° Ω retrograde 311 Apr 30 j 12:39 7° ∏ 53'14 greatest brilliancy 308 Oct 13 j 23:30 3° Ω 02'03 -3.9m evening set 311 May 15 j 15:42 3° ∏ 28'18 308 Nov 04 j 10:41 0° ∭ 311 May 21 j 10:44 30° ℝ								
greatest brilliancy 308 Oct 13 j 23:30 3° \(\Delta\) 02'03 -3.9m evening set 311 May 15 j 15:42 3° \(\Delta\) 28'18 308 Nov 04 j 10:41 0° \(\Delta\). 311 May 21 j 10:44 30° \(\Red\) 30° \(\Red\) 308 Nov 16 j 16:16 15° \(\Delta\) 15° \(\Delta\) 23'56 inferior conj 311 May 21 j 23:46 29° \(\Red\) 39'32 0° 16'58 308 Nov 28 j 06:33 0° \(\Red\) infinimum elong 311 May 22 j 00:23 29° \(\Red\) 38'33 0° 16'47					-			-4.7m
308 Nov 04 j 10:41 0° ML 311 May 21 j 10:44 30° R 8 1		-			-			
morning set 308 Nov 16 j 16:16 15°M23'56 inferior conj 311 May 21 j 23:46 29°♂39'32 0°16'58 minimum elong 311 May 22 j 00:23 29°♂38'33 0°16'47	greatest brilliancy			-3.9m	evening set			
308 Nov 28 j 06:33 0°♂ minimum elong 311 May 22 j 00:23 29°♂38'33 0°16'47								
	morning set							
desc. node 308 Dec 05 J 09:48 8° × 159'00 min. Earth dist. 311 May 22 J 03:11 29° ★34'09 0.28984 AU		-			_			
	desc. node	308 Dec 05 j 09:48	8° × 159'00		mın. Earth dist.	311 May 22 j 03:11	29° 8 34'09	0.28984 AU

1 1	211 M 22 : 04 42	200 4106			212.31 12:04.20	00.7	
desc. node	311 May 23 j 04:43	28° 8 54'06			313 Nov 13 j 04:38	0° ₹	
morning rise	311 May 28 j 09:07	25° 8 48'56		evening rise	313 Nov 19 j 21:11	8° ₹ 24'17	
direct	311 Jun 12 j 16:22	21° 8 21'04			313 Dec 07 j 02:06	0°ರ	
greatest brilliancy	311 Jun 23 j 02:29	23° 8 17'58	-4.7m		313 Dec 31 j 01:35	0° ≈	
	311 Jul 05 j 23:33	0°Щ			314 Jan 24 j 05:07	0° ∀	
morning max el	311 Jul 31 j 14:30	21° Ⅱ 19'29	45°55'01		314 Feb 17 j 16:03	0° Υ	
	311 Aug 09 j 08:26	0₀ ©		asc. node	314 Feb 28 j 03:14	12° Y 39′59	
	311 Sep 06 j 00:40	$0^{\circ}\Omega$			314 Mar 14 j 15:17	0°8	
asc. node	311 Sep 13 j 08:11	8° Ω 23'01			314 Apr 09 j 10:44	$\Pi^{\circ}0$	
	311 Oct 01 j 16:34	0° m			314 May 06 j 20:08	0°€	
	311 Oct 26 j 09:04	0∘ ⊽		evening max el	314 May 22 j 02:41	15° © 19'13	45°19'41
	311 Nov 19 j 13:59	0°M			314 Jun 07 j 18:37	$0 {\circ} \Omega$	
	311 Dec 13 j 14:13	0° ⊀		desc. node	314 Jun 19 j 16:46	8° Ω 19'51	
desc. node	312 Jan 02 j 21:42	25° ∡ ¹25'15		greatest brilliancy	314 Jun 29 j 12:44	13° Ω 01'49	-4.7m
	312 Jan 06 j 13:34	8°0		retrograde	314 Jul 09 j 16:45	14° Ω 53'20	
	312 Jan 30 j 13:55	0° ≈		evening set	314 Jul 26 j 15:09	9° Ω 30'46	
morning set	312 Feb 03 j 00:03	4°≈16′03		inferior conj	314 Jul 31 j 00:34	6° Ω 51'58	-7°50'49
	312 Feb 23 j 16:13	0° ∀		minimum elong	314 Jul 30 j 16:31	7° Ω 04'24	7°49'48
	·			min. Earth dist.	314 Jul 31 j 08:22	6° Ω 39'56	0.28556 AU
superior conj	312 Mar 13 j 15:40	23° ¥ 32′08	-1°18'56	morning rise	314 Aug 03 j 17:37	4° Ω 36'19	
minimum elong	312 Mar 13 j 22:58	23°) €54'43		S	314 Aug 13 j 08:26	30°Rூ	
max. Earth dist.	312 Mar 17 j 02:54		1.72783 AU	direct	314 Aug 21 j 11:32	28°940'27	
man. Darun dibu.	312 Mar 18 j 21:04	0°Υ	1.,2,00110		314 Aug 29 j 22:07	0°Ω	
	312 Apr 12 j 04:50	0°8		greatest brilliancy	314 Sep 01 j 11:00	0° Ω 52'11	-4.8m
evening rise	312 Apr 20 j 17:11	10° 8 27'57		greatest offinalley	314 Oct 09 j 20:17	0° m	4.0111
asc. node	312 Apr 25 j 00:55	15° 8 46'19		morning max el	314 Oct 10 j 16:03	0° Mp 49'28	46°36'02
asc. node	312 Apr 25 j 00:35 312 May 06 j 15:31	0°Ⅱ		asc. node	314 Oct 10 j 10:03	0° Mp 58'57	40 30 02
		0°©		asc. node	,		
	312 May 31 j 05:01				314 Nov 06 j 15:10	0∘ ™	
	312 Jun 24 j 21:52	0° N			314 Dec 02 j 04:54	0°M 0°. ₹	
	312 Jul 19 j 19:41	0° m/			314 Dec 26 j 23:09	0° ⊼	
	312 Aug 14 j 01:39	0∘ ʊ			315 Jan 20 j 10:10	0°る	
desc. node	312 Aug 14 j 14:26	0° Ω 37'36		desc. node	315 Jan 30 j 09:35	12° ප 16'36	
	312 Sep 08 j 21:41	0° M ₊			315 Feb 13 j 19:02	0° ≈	
	312 Oct 05 j 22:55	0° ∡			315 Mar 10 j 03:48	0°) €	
evening max el	312 Oct 17 j 06:54	11° ∡ ′46′00	47°18'02		315 Apr 03 j 13:19	0°Υ	
	312 Nov 05 j 23:15	0°ਰ		morning set	315 Apr 16 j 02:41	15° Y 25'15	
greatest brilliancy	312 Nov 26 j 21:58	13° る 10'27	-4.9m		315 Apr 27 j 23:42	0° 8	
asc. node	312 Dec 05 j 17:32	15° る 07'03		max. Earth dist.	315 May 22 j 03:09	29° 8 37'58	1.73652 AU
retrograde	312 Dec 07 j 02:02	15° る 09'17			315 May 22 j 10:20	$\Pi^{\circ}0$	
evening set	312 Dec 22 j 01:38	10° る 40'38					
min. Earth dist.	312 Dec 26 j 20:43	7° る 49'39		superior conj	315 May 22 j 20:48	0° Ⅲ 32′10	
inferior conj	312 Dec 27 j 17:50	7° る 16'58	5°17'52	minimum elong	315 May 22 j 21:09	0°Ⅲ33'12	0°01'35
minimum elong	312 Dec 27 j 08:04	7° る 32'05	5°15'21	behind sun begin	315 May 21 j 22:47	29° 8 24'33	
morning rise	313 Jan 01 j 15:00	4° る 21'02		behind sun end	315 May 23 j 19:30	1° Ⅱ 41'50	
	313 Jan 12 j 18:06	30°R. ✓		asc. node	315 May 23 j 12:48	1° Ⅱ 21'17	
direct	313 Jan 17 j 02:53	29° ∡ ³36'39			315 Jun 15 j 20:21	0 \circ \odot	
	313 Jan 21 j 13:56	8°0		evening rise	315 Jun 27 j 18:26	14°9540'00	
greatest brilliancy	313 Jan 26 j 06:46	1° る 11'43	-4.9m		315 Jul 10 j 05:23	$0^{\circ}\Omega$	
	313 Mar 06 j 13:49	0° ≈			315 Aug 03 j 13:58	0° m	
morning max el	313 Mar 07 j 18:52	1°≈10'56	46°22'56		315 Aug 27 j 23:30	0° ⊽	
desc. node	313 Mar 27 j 07:15	21° ≈ 19′22		desc. node	315 Sep 12 j 02:23	18° ≏ 31'55	
	313 Apr 04 j 07:03	0° ∀			315 Sep 21 j 11:30	0°M	
	313 Apr 30 j 22:34	0° Ƴ			315 Oct 16 j 03:51	0° ∡ ¹	
	313 May 26 j 17:25	0°8			315 Nov 10 j 04:31	0°ರ	
	313 Jun 20 j 23:50	0°Щ			315 Dec 06 j 00:39	0° ≈	
	313 Jul 15 j 20:13	0°9		evening max el	315 Dec 29 j 00:51	24°≈52'19	47°00'56
asc. node	313 Jul 18 j 10:28	3° 5 09'30		asc. node	316 Jan 03 j 05:28	0°) €03'34	
use. Hour	313 Aug 09 j 07:39	0° Ω		use. Hous	316 Jan 03 j 04:01	0°) €	
morning set	313 Sep 01 j 16:56	29° Ω 01'16		greatest brilliancy	316 Feb 07 j 02:45	26° ₩ 02'52	-4.8m
morning sot	313 Sep 02 j 11:46	0° m)		retrograde	316 Feb 17 j 17:58	28° H 11'08	1.0111
	313 Sep 02 j 11:40 313 Sep 26 j 11:02	0∘ ت الأال		evening set	316 Mar 06 j 11:03	28 X 11 08 22° X 04'14	
max. Earth dist.	313 Oct 08 j 02:19	0 = 14° £ 36'56	1.71337 AU	inferior conj	316 Mar 09 j 22:08	19°) 54'16	8°08'29
max. Darui Uist.	515 Oct 00 J 02.19	17 == 30 30	1./133/ AU	minimum elong	316 Mar 10 j 04:13	19 X 34 16 19° X 44'39	
superior conj	313 Oct 09 j 22:51	16° ≏ 56'54	1°00'08	min. Earth dist.	316 Mar 10 j 04.13	19 X 44 39 20° X 05'27	0.28473 AU
minimum elong	313 Oct 10 j 09:29	10 ≥ 30 34 17° ₽ 30'19		morning rise	316 Mar 13 j 21:37	20 ★ 03 27 17° ★ 26'06	0.204/3 AU
mmmum ciong			0 3740	direct	316 Mar 13 j 21:37 316 Mar 31 j 01:56	11° X 2606	
desa nada	313 Oct 20 j 08:01	0°M,		greatest brilliancy		11° X 44'44 13° X 23'21	-4.8m
desc. node	313 Nov 07 j 00:04	22°M13'03		greatest orillancy	316 Apr 09 j 12:24	13 八 2321	- 7.0III

desc. node	316 Apr 23 j 18:51	20°) 45′26			318 Nov 22 j 13:13	0°る	
	316 May 05 j 21:50	0° Υ	450 4515 5		318 Dec 16 j 21:38	0° ≈	
morning max el	316 May 19 j 00:31	11° Y 50′09	45°47'55		319 Jan 10 j 16:02	0° ₩	
	316 Jun 06 j 01:11 316 Jul 03 j 10:49	0° Ⅱ		asc. node	319 Jan 30 j 17:18 319 Feb 05 j 07:41	23° ¥ 35′02 0° ⋎	
	316 Jul 29 j 09:34	0°©			319 Mar 04 j 23:52	0° 8	
asc. node	316 Aug 14 j 22:21	19° © 41'24		evening max el	319 Mar 10 j 05:26	5° 8 13'09	45°48'18
asc. node	316 Aug 23 j 11:15	0°Ω		evening max er	319 Apr 09 j 18:27	0°Ⅱ	45 40 10
	316 Sep 16 j 22:27	0° m)		greatest brilliancy	319 Apr 17 j 07:41	3° Ⅱ 36'49	-4.7m
	316 Oct 11 i 00:26	0∘ <u>v</u>		retrograde	319 Apr 28 j 04:47	5° Ⅱ 45'24	
greatest brilliancy	316 Oct 18 j 07:24	9° ≙ 08'14	-3.9m	evening set	319 May 13 j 09:15	1° Ⅱ 18'57	
	316 Nov 03 j 21:43	0° M		-	319 May 15 j 16:15	30° ₹ 8	
morning set	316 Nov 14 j 03:04	12°M52'14		inferior conj	319 May 19 j 16:22	27° 8 31'32	0°36'35
	316 Nov 27 j 17:33	0° ∡ ¹		minimum elong	319 May 19 j 17:42	27° 8 29'26	0°36'12
desc. node	316 Dec 04 j 11:57	8° ∡ ³31'16		min. Earth dist.	319 May 19 j 20:19	27° 8 25'20	0.28981 AU
	316 Dec 21 j 13:49	0°ಕ		desc. node	319 May 22 j 06:53	25° 8 53'52	
		_		morning rise	319 May 26 j 02:06	23° 8 40'00	
superior conj	316 Dec 25 j 22:00	5°る27'18		direct	319 Jun 10 j 08:18	19° 8 12'58	
minimum elong	316 Dec 25 j 10:58	4°る52'38		greatest brilliancy	319 Jun 20 j 18:58	21° 8 09'53	-4.7m
max. Earth dist.	316 Dec 29 j 02:14	9° る 26'40	1.71252 AU		319 Jul 06 j 18:50	0°II	45054110
	317 Jan 14 j 11:38	0°≈ 26°≈≈56125		morning max el	319 Jul 29 j 05:21	19° Ⅱ 06'41 0° ©	45°54'10
evening rise	317 Feb 05 j 01:13 317 Feb 07 j 12:07	26°≈56'35 0°) €			319 Aug 09 j 03:20 319 Sep 05 j 15:12	0° U	
	317 Mar 03 j 16:44	0° Υ		asc. node	319 Sep 12 j 10:08	7° Ω 48'20	
asc. node	317 Mar 27 j 15:07	29° Υ ′23'32		use. Houe	319 Oct 01 j 05:25	0° m)	
	317 Mar 28 j 03:03	0°8			319 Oct 25 j 21:08	0∘ ಹ	
	317 Apr 21 j 20:45	0°II			319 Nov 19 j 01:38	0° M	
	317 May 17 j 00:10	0ංම			319 Dec 13 j 01:37	0° ∡ ¹	
	317 Jun 11 j 18:07	$0^{\circ}\Omega$		desc. node	320 Jan 01 j 23:49	24° ∡ 756′37	
	317 Jul 08 j 14:18	0° m y			320 Jan 06 j 00:48	5°0	
desc. node	317 Jul 17 j 04:37	9° m 10'18			320 Jan 30 j 01:01	0° ≈	
evening max el	317 Aug 02 j 13:37	25° m/43'44	46°09'25	morning set	320 Jan 31 j 11:00	1°≈45'58	
	317 Aug 07 j 01:50	0∘ ⊽			320 Feb 23 j 03:11	0° ∀	
greatest brilliancy	317 Sep 11 j 20:58	24° ₽ 49'21	-4.8m		220 M 11 : 06:01	210 W 1 4120	1920114
retrograde	317 Sep 20 j 22:33 317 Oct 07 j 01:55	26° ♀ 19'44 21° ♀ 21'00		superior conj minimum elong	320 Mar 11 j 06:01 320 Mar 11 j 12:43	21°\(\dagger) 14'20 21°\(\dagger) 35'06	
evening set inferior conj	317 Oct 07 j 01:33 317 Oct 11 j 14:49	18° £ 39'18	-6°12'24	max. Earth dist.	320 Mar 14 j 18:37	25°\(\frac{1}{3}\)36'09	1.72726 AU
minimum elong	317 Oct 11 j 14:49 317 Oct 12 j 01:28	18° ≏ 23'06		max. Lattii dist.	320 Mar 18 j 07:56	25 γ (30 0)	1.72720 AO
min. Earth dist.	317 Oct 12 j 08:31		0.26883 AU		320 Apr 11 j 15:39	0°8	
morning rise	317 Oct 17 j 00:38	15° ≏ 28'05		evening rise	320 Apr 18 j 09:53	8° 8 18'31	
direct	317 Nov 01 j 07:14	10° ≙ 54'12		asc. node	320 Apr 24 j 03:02	15° 8 19'29	
asc. node	317 Nov 07 j 07:41	11° ≏ 36'54			320 May 06 j 02:25	$\Pi^{\circ}0$	
greatest brilliancy	317 Nov 12 j 03:42	13° ≏ 08'16	-4.9m		320 May 30 j 16:10	0ංම	
	317 Dec 06 j 23:51	0° M			320 Jun 24 j 09:26	$0^{\circ}\Omega$	
morning max el	317 Dec 22 j 01:41	14° M 27'27	46°55'52		320 Jul 19 j 07:56	0° m	
	318 Jan 05 j 17:56	0° ∡ ¹		desc. node	320 Aug 13 j 16:27	0° Ω 04'12	
	318 Feb 01 j 06:07	0°る			320 Aug 13 j 15:01	0∘ 亚	
desc. node	318 Feb 26 j 21:30	0°≈09'04 0°≈			320 Sep 08 j 13:02 320 Oct 05 j 18:43	0° M 0° ⊀	
	318 Feb 26 j 18:27 318 Mar 23 j 20:59	0 ≈ 0° ∺		evening max el	320 Oct 03 j 18:43 320 Oct 14 j 19:39	0 x ¹ 9° x ¹19'17	47°16'50
	318 Apr 17 j 18:47	0° Υ		evening max er	320 Oct 14 j 13:55	9×1917 0°る	47 10 30
	318 May 12 j 13:33	0°8		greatest brilliancy	320 Nov 24 j 12:07	10°₹43'35	-4.9m
	318 Jun 06 j 05:12	0°Щ		retrograde	320 Dec 04 j 15:02	12° る 41'43	
asc. node	318 Jun 20 j 00:43	16° Ⅱ 53'48		asc. node	320 Dec 04 j 19:38	12° る 41'41	
morning set	318 Jun 22 j 16:36	20° Ⅱ 09'35		evening set	320 Dec 19 j 12:06	8° ප 16'41	
	318 Jun 30 j 16:56	0ංම		min. Earth dist.	320 Dec 24 j 10:34	5° ರ 21'27	0.26702 AU
	318 Jul 25 j 00:23	$0 {\circ} \Omega$		inferior conj	320 Dec 25 j 06:45	4° ප 50'18	4°58'38
max. Earth dist.	318 Jul 25 j 06:16	0° Ω 18'12	1.72867 AU	minimum elong	320 Dec 24 j 21:17	5° ⋜ 04'54	4°56'07
				morning rise	320 Dec 30 j 06:55	1°る50'27	
superior conj	318 Jul 29 j 00:53	4° Ω 58'51		P	321 Jan 02 j 20:19	30°R.✓	
minimum elong	318 Jul 28 j 17:37	4° Ω 36′22	1~15'05	direct	321 Jan 14 j 14:58	27° ₹ 10'19	4.0
avaniri-	318 Aug 18 j 04:13	0°M)		greatest brilliancy	321 Jan 23 j 20:55	28° ₹ 47'13	-4.9m
evening rise	318 Sep 03 j 19:00 318 Sep 11 j 05:59	20°Mp41'58 0°Ω		morning max el	321 Jan 27 j 00:48 321 Mar 05 j 08:26	0°궁 28°궁49'10	16°21'29
	318 Oct 05 j 07:17	0° ™		morning max er	321 Mar 05 j 08:26 321 Mar 06 j 13:11	28° ⊙ 4910	70 24 28
desc. node	318 Oct 03 j 07.17 318 Oct 09 j 14:17	5°ML21'03		desc. node	321 Mar 26 j 09:14	0 ≈ 20°≈37'07	
acce. node	318 Oct 29 j 09:17	0° ⊼ ¹		acce. noue	321 Apr 03 j 23:26	0° H	
	J V2.11	- •·			r J =		

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	321 Apr 30 j 12:20	$0^{\circ}\mathbf{\Upsilon}$			323 Oct 15 j 16:59	0° ∡ ¹	
	321 May 26 j 05:51	0°8			323 Nov 09 j 18:54	0° ਰ	
	321 Jun 20 j 11:30	0°II			323 Dec 05 j 17:32	0° ≈	
	321 Jul 15 j 07:27	0°©		evening max el	323 Dec 05 j 17:32 323 Dec 26 j 16:56	22°≈35'25	47°03'05
asc. node	321 Jul 17 j 12:28	2° 5 41'28		asc. node	324 Jan 02 j 07:31	22 ≈33 23 29°≈09'30	47 03 03
asc. node	321 Aug 08 j 18:42	2 3 41 28		asc. Houe	324 Jan 03 j 04:29	29 ≈ 09 30	
marning sat		26° Ω 46'19		areatest brillianas	•	23°) (47'19	4.0
morning set	321 Aug 30 j 08:36			greatest brilliancy	324 Feb 04 j 18:39 324 Feb 15 j 10:21	25° H 55'41	-4.9111
	321 Sep 01 j 22:44	0 ்⊽ 0° மி		retrograde	•		
To all the	321 Sep 25 j 22:00		1 71272 411	evening set	324 Mar 04 j 04:39	19°) (46'14	0.20421.441
max. Earth dist.	321 Oct 05 j 14:52	12° ≏ 11'00	1.71372 AU	min. Earth dist.	324 Mar 07 j 05:20	17° ¥ 52′25	0.28431 AU
	221 0 + 07 : 11 40	1.40.0.2011.5	1000141	inferior conj	324 Mar 07 j 13:47	17°) (39'03	8°15'15
superior conj	321 Oct 07 j 11:49	14° £ 32'15		minimum elong	324 Mar 07 j 19:15	17°) € 30′23	8°14'46
minimum elong	321 Oct 07 j 22:22	15° ≙ 05'24	1°02'20	morning rise	324 Mar 11 j 10:09	15° 光 15'35	
	321 Oct 19 j 19:02	0°M		direct	324 Mar 28 j 17:36	9°) € 30'33	
desc. node	321 Nov 06 j 02:15	21°M45'04		greatest brilliancy	324 Apr 07 j 01:34	11° ∺ 07'23	-4.8m
	321 Nov 12 j 15:45	0° ∡		desc. node	324 Apr 22 j 21:05	19°) € 31'42	
evening rise	321 Nov 17 j 07:35	5° ≯ 51'18			324 May 06 j 03:25	$0^{\circ}\mathbf{\Upsilon}$	
	321 Dec 06 j 13:20	0°ಕ		morning max el	324 May 16 j 16:12	9° Ƴ 38′26	45°48'21
	321 Dec 30 j 12:57	0° ≈			324 Jun 05 j 18:45	9° 8	
	322 Jan 23 j 16:42	0° ℋ			324 Jul 03 j 01:03	$\Pi^{\circ}0$	
	322 Feb 17 j 04:03	0 ° $\mathbf{\gamma}$			324 Jul 28 j 22:18	0 \circ	
asc. node	322 Feb 27 j 05:12	12° Y 08'56		asc. node	324 Aug 14 j 00:21	19° © 10'51	
	322 Mar 14 j 04:05	9° 8			324 Aug 22 j 23:12	$0 ^{\circ} \Omega$	
	322 Apr 09 j 01:09	Π $^{\circ}0$			324 Sep 16 j 10:01	O° Mp	
	322 May 06 j 14:30	0ංම			324 Oct 10 j 11:50	0∘ ত	
evening max el	322 May 19 j 18:34	13° © 08'20	45°19'25	greatest brilliancy	324 Oct 20 j 07:31	12° ≏ 18'57	-3.9m
	322 Jun 08 j 06:33	$0^{\circ}\Omega$			324 Nov 03 j 09:02	0° M	
desc. node	322 Jun 18 j 18:50	6° Ω 57'49		morning set	324 Nov 11 j 13:55	10°M₁9'43	
greatest brilliancy	322 Jun 27 j 01:38	10° Ω 47'03	-4.7m		324 Nov 27 j 04:50	0° ∡ ¹	
retrograde	322 Jul 07 j 08:13	12° Ω 40′25		desc. node	324 Dec 03 j 14:01	8° ₹ 02'14	
evening set	322 Jul 24 j 02:54	7° Ω 22'16			324 Dec 21 j 01:03	0°ප	
inferior conj	322 Jul 28 j 15:48	4° Ω 38'14	-7°41'16		, and the second		
minimum elong	322 Jul 28 j 07:18	4° Ω 51'21	7°40'05	superior conj	324 Dec 23 j 07:28	2° る 50'57	-0°44'40
min. Earth dist.	322 Jul 28 j 22:32	4° Ω 27'50	0.28591 AU	minimum elong	324 Dec 22 j 20:54	2° る 17'46	0°44'13
morning rise	322 Aug 01 j 11:27	2° Ω 18'45		max. Earth dist.	324 Dec 26 j 10:22	6° る 46'09	1.71215 AU
Ü	322 Aug 05 j 16:07	30° ₹ 5			325 Jan 13 j 22:50	0° ≈	
direct	322 Aug 19 j 03:46	26° © 26'15		evening rise	325 Feb 02 j 12:45	24° ≈ 28'04	
greatest brilliancy	322 Aug 30 j 01:41	28° © 36'54	-4.8m	C	325 Feb 06 j 23:19	0°) €	
8	322 Sep 02 j 07:40	0°N			325 Mar 03 j 03:59	$0^{\circ}\Upsilon$	
morning max el	322 Oct 08 j 07:50	28° £ 33'05	46°34'39	asc. node	325 Mar 26 j 17:15	28°Υ55'10	
asc. node	322 Oct 09 j 21:58	0°m/09'16			325 Mar 27 j 14:29	0°8	
use. noue	322 Oct 09 j 18:19	0° mp			325 Apr 21 j 08:35	0°II	
	322 Nov 06 j 07:11	0∘ ಹ			325 May 16 j 12:47	0°9	
	322 Dec 01 j 18:45	0° M			325 Jun 11 j 08:14	$0^{\circ}\Omega$	
	322 Dec 26 j 11:55	0° ∡ 7			325 Jul 08 j 07:35	0° mp	
	323 Jan 19 j 22:17	0° ਰ		desc. node	325 Jul 16 j 06:36	8° m/25'58	
desc. node	323 Jan 29 j 11:37	11° る 46'14		evening max el	325 Jul 31 j 02:28	23° m 21'21	46°06'44
dese. Hode	323 Feb 13 j 06:41	0° ≈		evening man er	325 Aug 07 j 04:44	0ಂ ರ	
	323 Mar 09 j 15:08	0°) €		greatest brilliancy	325 Sep 09 j 10:03	22° ≏ 24'36	-4 8m
	323 Apr 03 j 00:26	0° Υ		retrograde	325 Sep 18 j 10:06	23° £ 53'44	
morning set	323 Apr 13 j 19:38	13° Υ 16'02		evening set	325 Oct 04 j 17:44	18° ⊆ 50'24	
morning sec	323 Apr 27 j 10:40	0°8		inferior conj	325 Oct 09 j 03:28	16° ⊆ 13'08	-6°28'50
max. Earth dist.	323 May 20 j 02:17	27° 8 48'06	1.73650 AU	minimum elong	325 Oct 09 j 14:08	15° ⊆ 56'52	
max. Earth dist.	323 May 20 J 02.17	27 0.000	1.75050710	min. Earth dist.	325 Oct 09 j 22:09	15° ⊆ 44'40	0.26940 AU
superior conj	323 May 20 j 14:52	28° 8 26'44	-0°04'47	morning rise	325 Oct 05 j 22:05 325 Oct 14 j 10:05	13° ⊆ 05'50	0.20740 AC
minimum elong	323 May 20 j 14:32 323 May 20 j 15:50	28° 8 29'43		direct	325 Oct 14 j 10:05 325 Oct 29 j 20:01	8° £ 26'59	
behind sun begin	323 May 20 j 13:30 323 May 19 j 18:11	28 8 2943	V VT T J	asc. node	325 Nov 06 j 09:50	9° £ 33'30	
behind sun end		29° 8 36'10			325 Nov 00 j 09:30 325 Nov 09 j 18:09	9 = 33 30 10° £ 41'54	-4.9m
ocimia sun cha	323 May 21 j 13:28 323 May 21 j 21:14	0° Ⅱ		greatest brilliancy	325 Dec 07 j 06:39	0°M	- - 7.7111
asc. node	323 May 21 j 21:14 323 May 22 j 14:58	0° П 54'25		morning max el	325 Dec 0/ j 06:39 325 Dec 19 j 14:07	11°M257'55	46°56'06
asc. node				morning max ei			40 20 00
	323 Jun 15 j 07:17	0°9			326 Jan 05 j 12:35	0°⊀ 0° ≍	
ovenina rica	202 Jun 25: 12:02				326 Jan 31 j 21:13	0°ರ	
evening rise	323 Jun 25 j 13:23	12°936'51		dono :: - 1 -	226 Eal 25 : 22 20	200=225111	
evening rise	323 Jul 09 j 16:26	$0^{\circ}\Omega$		desc. node	326 Feb 25 j 23:30	29° ප 35'11	
evening rise	323 Jul 09 j 16:26 323 Aug 03 j 01:18	0° Ω 0° ™		desc. node	326 Feb 26 j 07:50	0° ≈	
·	323 Jul 09 j 16:26 323 Aug 03 j 01:18 323 Aug 27 j 11:15	0° ॻ 0°₥ 0°₽		desc. node	326 Feb 26 j 07:50 326 Mar 23 j 09:23	0° ≈ 0° 升	
evening rise desc. node	323 Jul 09 j 16:26 323 Aug 03 j 01:18	0° Ω 0° ™		desc. node	326 Feb 26 j 07:50	0° ≈	

	227 1 05:17.17	001			220 D 02 : 04 20	100=712126	
,	326 Jun 05 j 16:17	0°II		retrograde	328 Dec 02 j 04:20	10°る12'36	
asc. node	326 Jun 19 j 02:42 326 Jun 20 j 10:53	16° Ⅱ 26'08		asc. node	328 Dec 03 j 21:39	10°る08'54	
morning set	•	18° Ⅱ 04'45		evening set	328 Dec 16 j 22:29	5° る 50'51	0.26654 ATT
Fauth diet	326 Jun 30 j 03:54	0°©	1 72021 ATT	min. Earth dist.	328 Dec 21 j 23:52 328 Dec 22 j 19:22	2°る51'59 2°る22'00	0.26654 AU 4°38'35
max. Earth dist.	326 Jul 23 j 00:13		1.72921 AU	inferior conj	3		4°36'06
	326 Jul 24 j 11:22	$0^{\circ}\Omega$		minimum elong	328 Dec 22 j 10:16	2°る36'00	4°36'06
	226 1 1 26:10 46	20 0 5 1122	1012144		328 Dec 26 j 17:26	30°R.✓	
superior conj	326 Jul 26 j 18:46	2° £ 51'33		morning rise	328 Dec 27 j 22:30	29° ₹ 18'35	
minimum elong	326 Jul 26 j 11:09	2° Ω 27'58	1°13'32	direct	329 Jan 12 j 03:13	24° 🖈 42'34	
	326 Aug 17 j 15:18	0° m		greatest brilliancy	329 Jan 21 j 10:15	26° ∡ ¹20'49	-4.9m
evening rise	326 Sep 01 j 10:22	18° m 25′29			329 Jan 29 j 11:33	0° ろ	
	326 Sep 10 j 17:14	0∘ ⊽		morning max el	329 Mar 02 j 22:43	26° る 28'48	46°26'03
	326 Oct 04 j 18:44	0°M₊			329 Mar 06 j 11:41	0° ≈	
desc. node	326 Oct 08 j 16:26	4°M51'51		desc. node	329 Mar 25 j 11:28	19° ≈ 55'50	
	326 Oct 28 j 21:01	0° ≯			329 Apr 03 j 15:34	0° ∀	
	326 Nov 22 j 01:19	0° ප			329 Apr 30 j 02:00	0° Υ	
	326 Dec 16 j 10:16	0° ≈			329 May 25 j 18:14	$_{0\circ}$ 8	
	327 Jan 10 j 05:34	0° ℋ			329 Jun 19 j 23:10	Π $^{\circ}0$	
asc. node	327 Jan 29 j 19:19	22° 升 58′07			329 Jul 14 j 18:42	0ංම	
	327 Feb 04 j 23:05	0 $^{\circ}$ Υ		asc. node	329 Jul 16 j 14:33	2°©13'36	
	327 Mar 04 j 20:26	$_{0\circ}$ 8			329 Aug 08 j 05:44	$0^{\circ}\Omega$	
evening max el	327 Mar 07 j 19:46	2° 8 56'49	45°50'35	morning set	329 Aug 28 j 00:27	24° £ 32′02	
	327 Apr 11 j 13:41	$\Pi^{\circ}0$			329 Sep 01 j 09:42	0° m)	
greatest brilliancy	327 Apr 15 j 00:41	1° Ⅱ 28'26	-4.7m		329 Sep 25 j 09:00	0∘ ত	
retrograde	327 Apr 25 j 21:17	3° Ⅱ 37'10		max. Earth dist.	329 Oct 03 j 01:54	9° ≏ 40'11	1.71414 AU
C	327 May 09 j 12:11	30° ₹ 8			,		
evening set	327 May 11 j 02:57	29° 8 08'41		superior conj	329 Oct 05 j 00:48	12° ♀ 07'27	1°05'07
inferior conj	327 May 17 j 09:00	25° 8 22'59	0°56'06	minimum elong	329 Oct 05 j 11:09		1°04'46
minimum elong	327 May 17 j 11:02	25° 8 19'46	0°55'29	8	329 Oct 19 j 06:09	0°M	
min. Earth dist.	327 May 17 j 13:22	25° 8 16'07	0.28980 AU	desc. node	329 Nov 05 j 04:18	21°M16'18	
desc. node	327 May 17 j 13:22 327 May 21 j 08:54	22° 8 54'37	0.20,00710	dese. Hode	329 Nov 12 j 02:59	0°×7	
morning rise	327 May 23 j 19:02	21° 8 30'55		evening rise	329 Nov 14 j 17:35	3° ∡ 16'36	
direct	327 Jun 08 j 00:04	17° 8 04'13		evening rise	329 Dec 06 j 00:41	0°중	
greatest brilliancy	327 Jun 18 j 11:36	19° 8 01'32	4.7m		329 Dec 30 j 00:41	0°≈	
greatest offinancy	327 Juli 18 j 11:30 327 Jul 07 j 09:29	0° Ⅱ	-4./111		-	0 ≈ 0° ∺	
mamina may al	3	0 II 16°II55'09	45052!11		330 Jan 23 j 04:21	0 Υ 0° Υ	
morning max el	327 Jul 26 j 20:59		43 33 11	4-	330 Feb 16 j 16:05	0 γ 11° Υ 38'31	
	327 Aug 08 j 22:04	0°©		asc. node	330 Feb 26 j 07:22		
,	327 Sep 05 j 05:54	0° Ω			330 Mar 13 j 16:56	0° X	
asc. node	327 Sep 11 j 12:18	7° Ω 13'31			330 Apr 08 j 15:40	U°0 I	
	327 Sep 30 j 18:33	0° т р			330 May 06 j 09:14	0°©	. =
	327 Oct 25 j 09:29	0∘ ⊽		evening max el	330 May 17 j 11:07	10°959'22	45°19'11
	327 Nov 18 j 13:32	0° M			330 Jun 08 j 22:16	0 $^{\circ}$ Ω	
	327 Dec 12 j 13:14	0°⊀		desc. node	330 Jun 17 j 20:52	5° Ω 33'37	
desc. node	328 Jan 01 j 01:47	24° ∡ ¹26'56		greatest brilliancy	330 Jun 24 j 15:15	8° Ω 33'54	-4.7m
	328 Jan 05 j 12:13	0°⋜		retrograde	330 Jul 04 j 23:37	10° Ω 28'21	
morning set	328 Jan 28 j 21:47	29° る 14'43		evening set	330 Jul 21 j 14:54	5° Ω 14'58	
	328 Jan 29 j 12:17	0° ≈		inferior conj	330 Jul 26 j 07:13	2° Ω 25'38	
	328 Feb 22 j 14:19	0° ∀		minimum elong	330 Jul 25 j 22:20	2° Ω 39'21	
				min. Earth dist.	330 Jul 26 j 13:00	2° Ω 16'40	0.28622 AU
superior conj	328 Mar 08 j 20:19	18° ¥ 55'46		morning rise	330 Jul 30 j 05:33	0° £ 02'02	
minimum elong	328 Mar 09 j 02:24	19°)(14'37	1°21'18		330 Jul 30 j 06:56	30° ₹ ∽	
max. Earth dist.	328 Mar 12 j 08:21	23° ℋ 15'57	1.72671 AU	direct	330 Aug 16 j 20:09	24° © 13'26	
	328 Mar 17 j 18:58	0 ° Υ		greatest brilliancy	330 Aug 27 j 16:10	26° © 22'19	-4.8m
	328 Apr 11 j 02:39	9° 8			330 Sep 04 j 05:19	$0^{\circ}\Omega$	
evening rise	328 Apr 16 j 02:36	6° 8 08'38		morning max el	330 Oct 05 j 23:03	26° Ω 15'57	46°33'04
asc. node	328 Apr 23 j 05:11	14° 8 52'13		asc. node	330 Oct 09 j 00:06	29° Ω 20'57	
	328 May 05 j 13:29	$\Pi^{\circ}0$			330 Oct 09 j 15:20	0° m)	
	328 May 30 j 03:28	0°ಅ			330 Nov 05 j 22:51	0∘ ত	
	328 Jun 23 j 21:10	$0^{\circ}\Omega$			330 Dec 01 j 08:26	0°M	
	328 Jul 18 j 20:25	0° m			330 Dec 26 j 00:37	0° ∡ ¹	
desc. node	328 Aug 12 j 18:28	29° m 30'00			331 Jan 19 j 10:21	0°ප	
	328 Aug 13 j 04:42	0∘ ಹ		desc. node	331 Jan 28 j 13:42	11° ප 16'06	
	328 Sep 08 j 04:55	0° M			331 Feb 12 j 18:17	0° ≈	
	328 Oct 05 j 15:32	0° ⊼ ¹			331 Mar 09 j 02:21	0° ₩	
evening max el	328 Oct 12 j 09:14	6° ₹ 153'49	47°15'32		331 Apr 02 j 11:24	$^{\circ}\gamma$	
	328 Nov 07 j 10:12	0°る	552	morning set	331 Apr 11 j 12:25	11° Ƴ 06'46	
greatest brilliancy	328 Nov 07 j 10:12 328 Nov 22 j 01:37	8° ਰ 14'34	-4 9m	morning set	331 Apr 11 j 12:23	0°8	
greatest oriminey	5201.07 22 j 01.57	5 01757	,		551.1.pr 20 J 21.20	ÿ O	

superior conj	331 May 18 j 08:54	26° 8 21'50		min. Earth dist.	333 Oct 07 j 12:02	13° ≏ 18'56	0.26999 AU
minimum elong	331 May 18 j 10:31	26° 8 26'50	0°07'51	morning rise	333 Oct 11 j 19:38	10° ≏ 46′02	
behind sun begin	331 May 17 j 14:44	25° 8 26'04		direct	333 Oct 27 j 08:55	6° £ 01'34	
behind sun end	331 May 19 j 06:19	27° 8 27'35		asc. node	333 Nov 05 j 11:44	7° £ 36'35	
max. Earth dist.	331 May 18 j 01:19	25° 8 58'33	1.73644 AU	greatest brilliancy	333 Nov 07 j 09:07	8° ≙ 18'04	-4.9m
	331 May 21 j 07:58	Π°			333 Dec 07 j 10:45	0° M	
asc. node	331 May 21 j 16:55	0° Ⅱ 27'30		morning max el	333 Dec 17 j 03:05	9° M ₊31'09	46°56'24
	331 Jun 14 j 18:02	0 \circ			334 Jan 05 j 06:17	0° ∡ 7	
evening rise	331 Jun 23 j 08:30	10° © 34'47			334 Jan 31 j 11:41	0°ප	
	331 Jul 09 j 03:19	0 $^{\circ}$ Ω		desc. node	334 Feb 25 j 01:40	29° る 03'04	
	331 Aug 02 j 12:27	0° m y			334 Feb 25 j 20:46	0° ≈	
	331 Aug 26 j 22:48	0∘ 亚			334 Mar 22 j 21:24	0° ℋ	
desc. node	331 Sep 10 j 06:36	17° ≏ 31'41			334 Apr 16 j 17:59	0° Y	
	331 Sep 20 j 11:57	0° M			334 May 11 j 11:54	9° 8	
	331 Oct 15 j 05:56	0° ∡ ¹			334 Jun 05 j 03:01	Π $^{\circ}0$	
	331 Nov 09 j 09:13	0°ಕ		morning set	334 Jun 18 j 05:02	16° Ⅱ 00'36	
	331 Dec 05 j 10:36	0° ≈		asc. node	334 Jun 18 j 04:47	15° Ⅱ 59'51	
evening max el	331 Dec 24 j 08:34	20° ≈ 17'14	47°04'55		334 Jun 29 j 14:30	0ං ව	
asc. node	332 Jan 01 j 09:32	28° ≈ 14′22		max. Earth dist.	334 Jul 20 j 20:26	26° © 12'30	1.72971 AU
	332 Jan 03 j 06:11	0° ∀			334 Jul 23 j 21:57	$0 {\circ} \Omega$	
greatest brilliancy	332 Feb 02 j 11:06	21°) €31′56	-4.9m				
retrograde	332 Feb 13 j 02:09	23°) 39′27		superior conj	334 Jul 24 j 12:38	0° Ω 45'26	1°12'06
evening set	332 Mar 01 j 21:49	17° ∺ 28'12		minimum elong	334 Jul 24 j 04:43	0° Ω 20'55	1°11'55
inferior conj	332 Mar 05 j 05:13	15° ∺ 23′27			334 Aug 17 j 02:00	0° m)	
minimum elong	332 Mar 05 j 10:02	15° ∺ 15'49	8°20'56	evening rise	334 Aug 30 j 02:03	16° Mp 11'13	
min. Earth dist.	332 Mar 04 j 19:46	15°) 38′26	0.28383 AU		334 Sep 10 j 04:07	0∘ ত	
morning rise	332 Mar 08 j 22:31	13°) €04'25			334 Oct 04 j 05:52	0° M	
direct	332 Mar 26 j 08:38	7° ∺ 16′06		desc. node	334 Oct 07 j 18:27	4°M23'22	
greatest brilliancy	332 Apr 04 j 14:54	8° ¥ 51′25	-4.8m		334 Oct 28 j 08:24	0° ∡ 7	
desc. node	332 Apr 21 j 23:05	18° ∺ 20′02			334 Nov 21 j 13:03	0°₹	
	332 May 06 j 06:55	0° Ƴ			334 Dec 15 j 22:31	0° ≈	
morning max el	332 May 14 j 06:49	7° Y ′24'36	45°48'57		335 Jan 09 j 18:45	0° ∀	
	332 Jun 05 j 11:40	0°₽		asc. node	335 Jan 28 j 21:27	22°) 22'45	
	332 Jul 02 j 14:49	0° Ⅱ			335 Feb 04 j 14:13	0° Υ	
	332 Jul 28 j 10:39	0°®			335 Mar 04 j 17:13	0°8	
asc. node	332 Aug 13 j 02:27	18° © 41'34		evening max el	335 Mar 05 j 10:38	0° 8 42'53	45°52'49
	332 Aug 22 j 10:49	0° N		greatest brilliancy	335 Apr 12 j 17:07	29° 8 20'15	-4.7m
	332 Sep 15 j 21:15	0° m/			335 Apr 14 j 14:34	0°II	
4 41 711	332 Oct 09 j 22:53	0° <u>₽</u>	2.0	retrograde	335 Apr 23 j 14:08	1° Ⅱ 29'45	
greatest brilliancy	332 Oct 21 j 14:40	14° £ 37'37	-3.9m	avanina aat	335 May 02 j 05:42	30°R と 26° と 58'57	
	332 Nov 02 j 20:01	0°ጤ 7°ጤ49'55		evening set	335 May 08 j 20:45		1015121
morning set	332 Nov 09 j 01:17 332 Nov 26 j 15:46	/ 11164933 0° √		inferior conj minimum elong	335 May 15 j 01:35 335 May 15 j 04:20	23° 8 10'49	1°15'31 1°14'43
desc. node	332 Nov 20 j 15.40 332 Dec 02 j 16:01	7° ₹ ¹34'05		min. Earth dist.	335 May 15 j 04:20		0.28981 AU
desc. flode	332 Dec 02 j 10:01 332 Dec 20 j 11:59	0°る		desc. node	335 May 20 j 10:54	19° 8 57'57	0.28981 AU
	332 DCC 20 j 11.39	0 0		morning rise	335 May 20 j 10:34 335 May 21 j 11:48	19° 8 22'57	
superior conj	332 Dec 20 j 17:09	0° ට 16'16	0°41'12	direct	335 Jun 05 j 16:09	14° 8 56'08	
minimum elong	332 Dec 20 j 07:10	29° × ⁷ 44'53		greatest brilliancy	335 Jun 16 j 04:03	16° 8 53'57	-4 7m
max. Earth dist.	332 Dec 23 j 16:05		1.71186 AU	greatest orimane y	335 Jul 07 j 19:58	0° Ⅱ	1.7111
max. Darm dist.	333 Jan 13 j 09:46	0° ≈	1.71100710	morning max el	335 Jul 24 j 13:29	14° ∏ 46'52	45°52'18
evening rise	333 Jan 31 j 00:01	21° ≈ 59'22		morning max cr	335 Aug 08 j 15:55	0°9	43 32 10
evening rise	333 Feb 06 j 10:16	0° \			335 Sep 04 j 20:02	$0^{\circ}\Omega$	
	333 Mar 02 j 15:00	0° Υ		asc. node	335 Sep 10 j 14:24	6° Ω 39'57	
asc. node	333 Mar 25 j 19:20	28° Y ′27′25		ase. node	335 Sep 30 j 07:11	0° m)	
use. Houe	333 Mar 27 j 01:41	0°8			335 Oct 24 j 21:23	0∘ ಹ ಂ.ಗ	
	333 Apr 20 j 20:11	0°П			335 Nov 18 j 01:02	0° M ₊	
	333 May 16 j 01:10	0°®			335 Dec 12 j 00:28	0° ∡ 7	
	333 Jun 10 j 22:08	0°N		desc. node	335 Dec 31 j 03:54	23° х 58'49	
	333 Jul 08 j 00:50	0° m)			336 Jan 04 j 23:17	0° ප	
desc. node	333 Jul 15 j 08:41	7° m/42'27		morning set	336 Jan 26 j 08:46	26° පි 45'08	
evening max el	333 Jul 28 j 14:49	20° m 59'06	46°04'08	<i>U</i> .	336 Jan 28 j 23:11	0° ≈	
-	333 Aug 07 j 08:45	0∘ <mark>ರ</mark>			336 Feb 22 j 01:04	0° \	
greatest brilliancy	333 Sep 06 j 23:17	20° ჲ 01'39	-4.8m		-		
retrograde	333 Sep 15 j 21:52	21° ≏ 29'56		superior conj	336 Mar 06 j 10:42	16°) 38′30	-1°22'24
evening set	333 Oct 02 j 09:41	16° ≏ 21'37		minimum elong	336 Mar 06 j 16:07	16° ¥ 55'16	1°22'20
inferior conj	333 Oct 06 j 16:19	13° ≏ 48'58		max. Earth dist.	336 Mar 09 j 22:52		1.72619 AU
minimum elong	333 Oct 07 j 02:55	13° ≏ 32'50	6°42'04		336 Mar 17 j 05:37	$\mathbf{\gamma}_{0}$	

	336 Apr 10 j 13:18	0° ႘			338 Sep 05 j 12:07	$0^{\circ}\Omega$	
evening rise	336 Apr 13 j 19:21	3° 8 59'54		morning max el	338 Oct 03 j 13:22	23° Ω 56'46	46°31'31
asc. node	336 Apr 22 j 07:08	14° 8 25'26		asc. node	338 Oct 08 j 02:02	28° Ω 32'58	40 31 31
asc. node	336 May 05 j 00:15	0°Ⅱ		asc. node	338 Oct 08 j 02:02	0° m)	
	336 May 29 j 14:29	0°©			338 Nov 05 j 14:13	0∘ ت مس	
	336 Jun 23 j 08:39	0° U			338 Nov 30 j 21:56	0 <u>==</u> 0°M	
	336 Jul 18 j 08:38	0° m)			338 Dec 25 j 13:09	0° ⊼ 1	
desc. node	336 Aug 11 j 20:38	28° m 57'04			339 Jan 18 j 22:18	0°ਤ	
desc. flode	336 Aug 12 j 18:11	ე∘ <u>ი</u>		desc. node	339 Jan 27 j 15:48	0 0 10° る 46'14	
	336 Sep 07 j 20:41	0° ™		desc. Hode	339 Feb 12 j 05:48	10° ⊘ 40 14	
	336 Oct 05 j 12:42	0° ⊼ ¹			339 Mar 08 j 13:33	0 ∞ 0° ∺	
evening max el	336 Oct 09 j 23:41	4° ∡ 731'42	47°14'06		339 Apr 01 j 22:21	0° Υ	
evening max er	336 Nov 08 j 13:12	9°る	47 1400	morning set	339 Apr 09 j 05:10	8° Υ 57'21	
greatest brilliancy	336 Nov 19 j 14:44	5° る 45'59	-4.9m	morning set	339 Apr 09 j 03:10 339 Apr 26 j 08:15	0° 8	
retrograde	336 Nov 19 j 14.44 336 Nov 29 j 17:50	7°る43'58	-4.7111		339 Apr 20 J 08.13	0.0	
asc. node	336 Dec 02 j 23:45	7°る30'46		superior conj	339 May 16 j 03:02	24° 8 17'18	0°11'02
	336 Dec 02 j 23.43 336 Dec 14 j 09:03	7 33046 3° る 25'23		minimum elong	339 May 16 j 05:18	24° 8 24'15	
evening set		3 02323 0°る23'05	0.26609 AU	•			0 1037
min. Earth dist.	336 Dec 19 j 13:00	29° 🖈 54'09		behind sun begin	339 May 15 j 12:48	23° 8 33'36	
inferior conj	336 Dec 20 j 07:51		4°17'55	behind sun end	339 May 16 j 21:48	25° 8 14'54	1 72/22 ATT
minimum elong	336 Dec 19 j 23:13	0°る07'25	4°15'29	max. Earth dist.	339 May 15 j 23:35	24° 8 06'41 0° П 01'06	1.73633 AU
	336 Dec 20 j 04:03	30°R.✓		asc. node	339 May 20 j 19:02		
morning rise	336 Dec 25 j 13:53	26° ₹ 47'15			339 May 20 j 18:41	0°Ⅱ	
direct	337 Jan 09 j 15:54	22° 🖈 15'24	4.0		339 Jun 14 j 04:47	0.ee	
greatest brilliancy	337 Jan 18 j 23:13	23° ₹ 54'26	-4.9m	evening rise	339 Jun 21 j 03:42	8°533'02	
	337 Jan 31 j 00:46	0°る	46007140		339 Jul 08 j 14:14	0° N	
morning max el	337 Feb 28 j 13:14	24° る 09'48	46°27'42		339 Aug 01 j 23:40	0° m)	
	337 Mar 06 j 09:00	0° ≈			339 Aug 26 j 10:28	0° ⊽	
desc. node	337 Mar 24 j 13:27	19°≈15'18		desc. node	339 Sep 09 j 08:33	17° ≏ 01'02	
	337 Apr 03 j 07:07	0° ∀			339 Sep 20 j 00:15	0° ™	
	337 Apr 29 j 15:14	0°Υ			339 Oct 14 j 19:05	0° ∡ ¹	
	337 May 25 j 06:18	0°B 0°B			339 Nov 08 j 23:47	0° そ	
	337 Jun 19 j 10:33	0ಂខ ೧ <u>.</u> π			339 Dec 05 j 04:07		47907145
1	337 Jul 14 j 05:44			evening max el	339 Dec 21 j 23:08	17°≈55'59	47°06'45
asc. node	337 Jul 15 j 16:41	1°946'31		asc. node	339 Dec 31 j 11:41	27°≈18'08 0° ₩	
	337 Aug 07 j 16:34	0°Ω			340 Jan 03 j 09:28		4.0
morning set	337 Aug 25 j 16:20	22° Ω 18'35		greatest brilliancy	340 Jan 31 j 03:48	19° ¥ 16′18	-4.9m
	337 Aug 31 j 20:29	0 ்⊽ 0°™		retrograde	340 Feb 10 j 17:27 340 Feb 28 j 14:42	21°) 22'42	
Fault diet	337 Sep 24 j 19:48		1 71454 ATT	evening set	,	15° 光 09'57 13° 光 07'22	9927129
max. Earth dist.	337 Sep 30 j 11:01	/ 3404 12	1.71454 AU	inferior conj minimum elong	340 Mar 02 j 20:38 340 Mar 03 j 00:43	13° ★ 07′22 13° ★ 00′52	
superior conj	337 Oct 02 j 13:59	9° ≏ 44'10	1007'23	min. Earth dist.	340 Mar 02 j 10:29	13° ∺ 23′29	0.28335 AU
minimum elong	337 Oct 02 j 13:39 337 Oct 03 j 00:04	9 = 44 10 10° £ 15'48	1°07'25	morning rise	340 Mar 06 j 11:00	13 X 23 29 10° X 52'32	0.28333 AU
minimum clong	337 Oct 03 j 00:04 337 Oct 18 j 17:02	0°M	1 0/03	direct	340 Mar 23 j 23:08	5° ₩ 00'55	
desc. node	337 Nov 04 j 06:17	20°ML47'59		greatest brilliancy	340 Mar 23 j 23:08 340 Apr 02 j 04:52	6° ∺ 35′25	-4.8m
desc. node	337 Nov 04 J 06.17 337 Nov 11 j 14:00	20 IIC47 39 0° ⊼ 1		desc. node	340 Apr 02 j 04.32 340 Apr 21 j 01:05	0 ₹3323 17°¥09'50	-4.6111
arranina riaa	337 Nov 11 j 14.00 337 Nov 12 j 03:42	0° х ¹43'00		desc. node		17 π 0930 0° Υ	
evening rise		0 x・43 00 0°る		morning max el	340 May 06 j 09:04	5° Υ 09'07	45°49'45
	337 Dec 05 j 11:50 337 Dec 29 j 11:42	0°≈		morning max er	340 May 11 j 21:00 340 Jun 05 j 04:23	0° 8	43 4943
	338 Jan 22 j 15:51	0 ≈ 0° ∺			340 Jul 02 j 04:34	0°I	
		0 Λ 0° Υ				0°©	
aga mada	338 Feb 16 j 04:00	11° Υ 08'12		aca mada	340 Jul 27 j 23:02	୦ ୬ 18°9511'56	
asc. node	338 Feb 25 j 09:26	0° 8		asc. node	340 Aug 12 j 04:33	0°Ω	
	338 Mar 13 j 05:40	0°II			340 Aug 21 j 22:32		
	338 Apr 08 j 06:09	0ಂಣ ೧ π			340 Sep 15 j 08:39 340 Oct 09 j 10:09	0 ்⊽ 0 ்மி	
evening max el	338 May 06 j 04:16 338 May 15 j 03:14	0 ≌ 8°949'50	45°18'53	greatest brilliancy	340 Oct 09 j 10.09 340 Oct 22 j 12:54	0 <u>≈</u> 16° ≏ 27'35	-3.9m
evening max er	338 Jun 09 j 19:11	o 9 4930 0° Ω	45 16 55	greatest brilliancy	340 Oct 22 j 12.34 340 Nov 02 j 07:14	0°M	-3.9111
desc. node	-	4° Ω 07'01		morning sot	-	5°ML18'29	
	338 Jun 16 j 22:57	6° Ω 21'49	-4.7m	morning set	340 Nov 06 j 12:25	3°11618′29 0° √	
greatest brilliancy	338 Jun 22 j 05:27	8° Ω 16'40	-4./111	desc. node	340 Nov 26 j 02:57	0°×' 7° <i>×</i> 705'38	
retrograde	338 Jul 02 j 14:29	8°8€16′40 3°Ω08′06		desc. Hode	340 Dec 01 j 18:10	/ X.02.38	
evening set inferior conj	338 Jul 19 j 02:59 338 Jul 23 j 22:41	0° Ω 13'33	-7°20'06	superior conj	340 Dec 18 j 02:29	27° ∡ ³39'43	-0°37'37
·		0° Ω 27'50			340 Dec 18 j 02:29 340 Dec 17 j 17:09	27° × '3943 27° × '10'23	
minimum elong min. Earth dist.	338 Jul 23 j 13:28	0° λ (27'30' 0° Ω 05'27	0.28653 AU	minimum elong	•	2/°×1023 0°る	0 3/12
mm. Earm dist.	338 Jul 24 j 03:54		0.20033 AU	may Earth dist	340 Dec 19 j 23:08	0°5 1° る 03'02	1.71156 AU
morning rise	338 Jul 24 j 07:25 338 Jul 27 j 23:43	30°Rூ 27°€45'39		max. Earth dist.	340 Dec 20 j 19:12 341 Jan 12 j 20:54	1° 5 03′02 0° ≈	1./1130 AU
direct	338 Aug 14 j 12:17	27 9943 39 22°901'02		evening rise	341 Jan 28 j 10:58	0 ≈ 19°≈29'03	
greatest brilliancy	338 Aug 25 j 07:11	24°908'29	-4.8m	Cvening Hac	341 Feb 05 j 21:26	19 ≈ 2903	
51 carest of financy	550 114g 25 J 07.11	21 -0029	1,0111		511100 05 j 21.20	ν Λ	

	341 Mar 02 j 02:16	0° Y			343 Oct 24 j 09:35	0∘ ⊽	
asc. node	341 Mar 24 j 21:18	27° Y 58'29			343 Nov 17 j 12:51	0°M	
	341 Mar 26 j 13:09	$_{0\circ}$ 8			343 Dec 11 j 12:04	0° ∡ 7	
	341 Apr 20 j 08:04	Π°		desc. node	343 Dec 30 j 06:00	23° ₹ 29'25	
	341 May 15 j 13:52	0 \circ \odot			344 Jan 04 j 10:44	0°ප	
	341 Jun 10 j 12:27	$0 {\circ} \Omega$		morning set	344 Jan 23 j 19:18	24° る 12'45	
	341 Jul 07 j 18:43	0° m y			344 Jan 28 j 10:30	0° ≈	
desc. node	341 Jul 14 j 10:49	6° Mp 57′48			344 Feb 21 j 12:15	0° ℋ	
evening max el	341 Jul 26 j 03:00	18° m 36'04	46°01'38				
	341 Aug 07 j 15:01	0∘ ত		superior conj	344 Mar 04 j 00:28	14°) 17'47	-1°23'18
greatest brilliancy	341 Sep 04 j 11:37	17° ₽ 37'09	-4.8m	minimum elong	344 Mar 04 j 05:07	14°) 32′15	1°23'14
retrograde	341 Sep 13 j 09:54	19° ഫ 05'32		max. Earth dist.	344 Mar 07 j 13:54	18°) 42'42	1.72565 AU
evening set	341 Sep 30 j 01:31	13° ≏ 51'49			344 Mar 16 j 16:42	0 ° Υ	
inferior conj	341 Oct 04 j 05:06	11° ≏ 23'45	-6°58'51		344 Apr 10 j 00:22	8°	
minimum elong	341 Oct 04 j 15:31	11° ≏ 07'53	6°56'49	evening rise	344 Apr 11 j 11:38	1° 8 48'25	
min. Earth dist.	341 Oct 05 j 01:31	10° ≏ 52'41	0.27065 AU	asc. node	344 Apr 21 j 09:14	13° 8 57'49	
morning rise	341 Oct 09 j 05:01	8° ჲ 25'39			344 May 04 j 11:26	$\Pi^{\circ}0$	
direct	341 Oct 24 j 22:09	3° ≏ 34'56			344 May 29 j 01:57	0°€	
asc. node	341 Nov 04 j 13:55	5° ≙ 43'17			344 Jun 22 j 20:35	$0^{\circ}\Omega$	
greatest brilliancy	341 Nov 04 j 23:58	5° ≙ 53'06	-4.9m		344 Jul 17 j 21:21	0° m	
	341 Dec 07 j 13:47	0° M ,		desc. node	344 Aug 10 j 22:37	28° Mp 22'12	
morning max el	341 Dec 14 j 17:00	7°M05'29	46°56'35		344 Aug 12 j 08:11	0∘ ⊽	
	342 Jan 05 j 00:04	0° ∡ ″			344 Sep 07 j 13:06	0°M	
	342 Jan 31 j 02:25	ರ°0			344 Oct 05 j 10:58	0° ∡ ¹	
desc. node	342 Feb 24 j 03:41	28° る 29'34		evening max el	344 Oct 07 j 14:47	2° ∡ 10'32	47°12'37
	342 Feb 25 j 09:58	0° ≈			344 Nov 10 j 03:57	8°0	
	342 Mar 22 j 09:42	0° ∀		greatest brilliancy	344 Nov 17 j 03:57	3°₹17'02	-4.9m
	342 Apr 16 j 05:41	0° Ƴ		retrograde	344 Nov 27 j 07:16	5° る 14'34	
	342 May 10 j 23:13	9° 8		asc. node	344 Dec 02 j 01:50	4° ප් 46'00	
	342 Jun 04 j 14:04	0°II		evening set	344 Dec 11 j 19:59	0°る59'09	
morning set	342 Jun 15 j 23:16	13° Ⅱ 55'40		C	344 Dec 13 j 14:02	30°₽ ✓	
asc. node	342 Jun 17 j 06:55	15° Ⅲ 32'41		min. Earth dist.	344 Dec 17 j 02:17	27° х 53′29	0.26567 AU
	342 Jun 29 j 01:26	0°©		inferior conj	344 Dec 17 j 20:25	27° ∡ ¹25'39	3°56'43
max. Earth dist.	342 Jul 18 j 17:37	24°9515'46	1.73016 AU	minimum elong	344 Dec 17 j 12:19	27° ∡ ³38′06	3°54'22
				morning rise	344 Dec 23 j 05:13	24° √ 15'15	
superior conj	342 Jul 22 j 06:42	28°938'57	1°10'23	direct	345 Jan 07 j 04:54	19° ∡ ¹47'46	
minimum elong	342 Jul 21 j 22:32	28° © 13'40	1°10'10	greatest brilliancy	345 Jan 16 j 12:16	21° ₹ 27'11	-4.9m
· ·	342 Jul 23 j 08:53	$0^{\circ}\Omega$			345 Feb 01 j 03:28	ರ°0	
	342 Aug 16 j 13:02	0° m/y		morning max el	345 Feb 26 j 03:11	21° る 48'08	46°29'04
evening rise	342 Aug 27 j 18:06	13° m 57'14		<i>y</i>	345 Mar 06 j 06:01	0° ≈	
S	342 Sep 09 j 15:19	0∘ <u>⊽</u>		desc. node	345 Mar 23 j 15:28	18° ≈ 34'04	
	342 Oct 03 j 17:18	0° M .			345 Apr 02 j 22:51	0°) €	
desc. node	342 Oct 06 j 20:28	3°M53'55			345 Apr 29 j 04:47	$0^{\circ}\Upsilon$	
	342 Oct 27 j 20:10	0° ∡ ¹			345 May 24 j 18:41	0°8	
	342 Nov 21 j 01:14	ರ°0			345 Jun 18 j 22:17	0° I I	
	342 Dec 15 j 11:17	0° ≈			345 Jul 13 j 17:05	0ಂತಾ	
	343 Jan 09 j 08:29	0° ∀		asc. node	345 Jul 14 j 18:41	1° 5 018'03	
asc. node	343 Jan 27 j 23:30	21°) 45'21			345 Aug 07 j 03:44	$0^{\circ}\Omega$	
	343 Feb 04 j 06:04	0° Υ		morning set	345 Aug 23 j 08:15	20° Ω 04'17	
evening max el	343 Mar 03 j 02:12	28° Y ′29'16	45°55'16	Č	345 Aug 31 j 07:34	0° m)	
C	343 Mar 04 j 15:20	0° ႘			345 Sep 24 j 06:55	0∘ ⊽	
greatest brilliancy	343 Apr 10 j 09:05	27° 8 10'13	-4.7m	max. Earth dist.	345 Sep 27 j 17:58	4° £ 20′26	1.71493 AU
retrograde	343 Apr 21 j 07:13	29° 8 20'47			1 3		
evening set	343 May 06 j 14:38	24° 8 47'35		superior conj	345 Sep 30 j 03:33	7° £ 21'06	1°09'31
inferior conj	343 May 12 j 18:04	21° 8 05'35	1°34'56	minimum elong	345 Sep 30 j 13:18	7° £ 51'43	
minimum elong	343 May 12 j 21:29			Č	345 Oct 18 j 04:14	0°M	
min. Earth dist.	343 May 12 j 22:31	20° 8 58'37		desc. node	345 Nov 03 j 08:28	20°M19'32	
morning rise	343 May 19 j 04:20	17° 8 13'39		evening rise	345 Nov 09 j 14:08	28°M09'35	
desc. node	343 May 19 j 13:06	17° 8 01'42		<i>5</i> -	345 Nov 11 j 01:17	0° ∡ 7	
direct	343 Jun 03 j 08:42	12° 8 46'31			345 Dec 04 j 23:12	0°₹	
greatest brilliancy	343 Jun 13 j 19:51	14° 8 44'13	-4.7m		345 Dec 28 j 23:13	0° ≈	
3	343 Jul 08 j 04:16	0°П			346 Jan 22 j 03:36	0°) €	
morning max el	343 Jul 22 j 06:33	12° Ⅱ 38'47	45°51'30		346 Feb 15 j 16:13	0°Υ	
<i>3</i>	343 Aug 08 j 09:49	0°95		asc. node	346 Feb 24 j 11:24	10° Ƴ 36'44	
	343 Sep 04 j 10:25	0°N			346 Mar 12 j 18:46	0°8	
asc. node	343 Sep 09 j 16:21	6° Ω 04'59			346 Apr 07 j 21:08	0°II	
	343 Sep 29 j 20:06	0° m)			346 May 06 j 00:15	0°9	
	r . j =	٦.					

evening max el	346 May 12 j 18:36	6° © 37'33	45°18'43	greatest brilliancy	348 Oct 22 j 19:12	17° ≏ 27'45	-3.9m
C	346 Jun 11 j 00:35	$0^{\circ}\Omega$		· ·	348 Nov 01 j 18:23	0° M ₊	
desc. node	346 Jun 16 j 01:03	2° Ω 36'39		morning set	348 Nov 03 j 23:41	2°M47'48	
greatest brilliancy	346 Jun 19 j 20:10	4° Ω 09'34	-4.7m		348 Nov 25 j 14:05	0° ∡ ¹	
retrograde	346 Jun 30 j 05:05	6° Ω 04'38		desc. node	348 Nov 30 j 20:14	6° ∡ ³37′05	
evening set	346 Jul 16 j 15:14	1° Ω 00'38			240 D 15 11 50	250 702117	0022157
inferior conj	346 Jul 18 j 08:42 346 Jul 21 j 14:16	30°RS 28°S01'10	7000140	superior conj minimum elong	348 Dec 15 j 11:50 348 Dec 15 j 03:13	25° ₹ 03'17 24° ₹ 36'13	
minimum elong	346 Jul 21 j 04:46	28°\$15'54		max. Earth dist.	348 Dec 17 j 21:28	28° 🗷 04'28	1.71131 AU
min. Earth dist.	346 Jul 21 j 19:13	27° © 53'27	0.28683 AU	max. Earth dist.	348 Dec 19 j 10:14	0°궁	1.71131710
morning rise	346 Jul 25 j 18:03	25°\$28'53	0.20005 110		349 Jan 12 j 07:59	0°≈	
direct	346 Aug 12 j 04:01	19° 5 48'12		evening rise	349 Jan 25 j 22:01	16° ≈ 59'12	
greatest brilliancy	346 Aug 22 j 22:53	21° 9 54'59	-4.8m		349 Feb 05 j 08:30	0° ∀	
	346 Sep 06 j 10:40	0 $^{\circ}\Omega$			349 Mar 01 j 13:23	0° Y	
morning max el	346 Oct 01 j 02:57	21° Ω 35′11	46°29'59	asc. node	349 Mar 23 j 23:29	27° Y 30'46	
asc. node	346 Oct 07 j 04:13	27° Ω 45'40			349 Mar 26 j 00:27	0°8	
	346 Oct 09 j 07:34	0° m)			349 Apr 19 j 19:49	0° Ⅱ	
	346 Nov 05 j 05:37 346 Nov 30 j 11:31	0° Մ			349 May 15 j 02:29 349 Jun 10 j 02:47	$0 {\circ} \Omega$	
	346 Dec 25 j 01:47	0° ⊼ ¹			349 Jul 07 j 12:54	0° m)	
	347 Jan 18 j 10:18	°ੇਂਤ		desc. node	349 Jul 13 j 12:48	6° Mp 12'27	
desc. node	347 Jan 26 j 17:48	10° ට 15'50		evening max el	349 Jul 23 j 16:07	16° Mp 15'52	45°59'12
	347 Feb 11 j 17:22	0° ≈		Č	349 Aug 07 j 23:27	0∘ <mark>ಹ</mark>	
	347 Mar 08 j 00:49	0° ∀		greatest brilliancy	349 Sep 01 j 23:28	15° ≏ 13'08	-4.8m
	347 Apr 01 j 09:24	0° Ƴ		retrograde	349 Sep 10 j 22:45	16° ≙ 42'17	
morning set	347 Apr 06 j 21:52	6° Y 47′20		evening set	349 Sep 27 j 17:29	11° ≏ 23'11	
	347 Apr 25 j 19:10	0°B		inferior conj	349 Oct 01 j 18:02	8° ♀ 59'34	
	247 M 12 : 21.06	220 🗸 12107	0014111	minimum elong	349 Oct 02 j 04:14	8° 亞 44'04	7°10'40 0.27132 AU
superior conj minimum elong	347 May 13 j 21:06 347 May 13 j 24:00	22° 8 12'07 22° 8 21'01		min. Earth dist. morning rise	349 Oct 02 j 14:41 349 Oct 06 j 14:30	8° 亞 28'11 6° 亞 06'35	0.2/132 AU
behind sun begin	347 May 13 j 24:00 347 May 13 j 13:26	21° 8 48'35	0 1402	direct	349 Oct 00 j 14:30 349 Oct 22 j 12:02	1° ⊆ 0033	
behind sun end	347 May 14 j 10:34	22° 8 53'27		greatest brilliancy	349 Nov 02 j 14:24	3° £ 28'43	-4.9m
max. Earth dist.	347 May 13 j 19:50	22° 8 08'16	1.73623 AU	asc. node	349 Nov 03 j 16:01	3° ≏ 55'13	
asc. node	347 May 19 j 21:10	29° 8 34'22			349 Dec 07 j 15:05	0° M ₊	
	347 May 20 j 05:31	$\Pi^{\circ}0$		morning max el	349 Dec 12 j 07:43	4°M42'42	46°56'35
	347 Jun 13 j 15:39	0 \circ \odot			350 Jan 04 j 17:15	0° ∡ ¹	
evening rise	347 Jun 18 j 22:47	6°930'34			350 Jan 30 j 16:47	0° ප	
	347 Jul 08 j 01:16	0° N		desc. node	350 Feb 23 j 05:42	27° る 56'45	
	347 Aug 01 j 11:01	0° m)			350 Feb 24 j 22:53	0° ≈	
desc. node	347 Aug 25 j 22:17 347 Sep 08 j 10:37	0° ჲ 16° ჲ 30'21			350 Mar 21 j 21:44 350 Apr 15 j 17:06	0° ∀ 0° Υ	
desc. node	347 Sep 19 j 12:41	0°M			350 May 10 j 10:13	%8 0.8	
	347 Oct 14 j 08:26	0° ∡ 7			350 Jun 04 j 00:50	0°II	
	347 Nov 08 j 14:36	გ∘ე		morning set	350 Jun 13 j 17:51	11° Ⅱ 52'44	
	347 Dec 04 j 22:04	0° ≈		asc. node	350 Jun 16 j 08:55	15° Ⅱ 06′00	
evening max el	347 Dec 19 j 13:08	15° ≈ 33'06	47°08'40		350 Jun 28 j 12:06	0ංම	
asc. node	347 Dec 30 j 13:44	26° ≈ 20'30		max. Earth dist.	350 Jul 16 j 14:56	22° © 20'15	1.73063 AU
4 4 1 211	348 Jan 03 j 14:28	0° \	4.0		250 1 1 20:00 50	260522152	1000126
greatest brilliancy	348 Jan 28 j 20:34 348 Feb 08 j 08:50	17° 光 00'56 19° 光 06'40	-4.9m	superior conj	350 Jul 20 j 00:58	26°S33'52 26°S07'58	1°08'36 1°08'21
retrograde evening set	348 Feb 08 j 08:30 348 Feb 26 j 07:27	19 X 06 40 12° X 52'40		minimum elong	350 Jul 19 j 16:35 350 Jul 22 j 19:35	20 30 / 38 0° Ω	1 0821
min. Earth dist.	348 Feb 29 j 01:29	11°) 09'02	0.28286 AU		350 Aug 15 j 23:51	0° m)	
inferior conj	348 Feb 29 j 12:14	10°) €51'59	8°31'08	evening rise	350 Aug 25 j 10:19	11° m) 44'25	
minimum elong	348 Feb 29 j 15:36	10°) 46′38	8°30'58		350 Sep 09 j 02:19	0∘ ⊽	
morning rise	348 Mar 03 j 23:57	8°) 41′05			350 Oct 03 j 04:32	0°M₊	
direct	348 Mar 21 j 13:28	2°) 46′17		desc. node	350 Oct 05 j 22:39	3°M25'38	
greatest brilliancy	348 Mar 30 j 19:26	4°) € 20'42	-4.8m		350 Oct 27 j 07:43	0° ∡ ¹	
desc. node	348 Apr 20 j 03:18	16°) €02'25			350 Nov 20 j 13:12	5°0	
morning me1	348 May 06 j 09:44	0°Υ 2°Υ54!21	45050120		350 Dec 14 j 23:50	0° ≈	
morning max el	348 May 09 j 11:28 348 Jun 04 j 20:44	2° Y 54'31 0° と	45°50'30	asc. node	351 Jan 08 j 22:05 351 Jan 27 j 01:31	0° ∺ 21° ∺ 08'21	
	348 Jul 04 j 20:44 348 Jul 01 j 18:10	0°U		asc. Hout	351 Jan 2/j 01:31 351 Feb 03 j 21:54	21° π 0821 0° Υ	
	348 Jul 27 j 11:22	0 .ಪ		evening max el	351 Feb 28 j 18:37	26° Y 18'32	45°57'46
asc. node	348 Aug 11 j 06:33	17° © 42'08		<i>5</i>	351 Mar 04 j 14:00	0°8	•
	348 Aug 21 j 10:12	$0^{\circ}\Omega$		greatest brilliancy	351 Apr 08 j 01:32	25° 8 01'59	-4.7m
	348 Sep 14 j 20:00	0° m		retrograde	351 Apr 19 j 00:34	27° 8 13'02	
	348 Oct 08 j 21:21	0∘ 亚		evening set	351 May 04 j 08:51	22° 8 37'42	

inferior conj	351 May 10 j 10:41	18° 8 57'31	1°54'09	minimum elong	353 Sep 28 j 02:50	5° Ω 29'46	1°11'16
minimum elong	351 May 10 j 14:46	18° 8 51'06	1°52'59	Č	353 Oct 17 j 15:07	0° M .	
min. Earth dist.	351 May 10 j 14:46	18° 8 51'06	0.28973 AU	desc. node	353 Nov 02 j 10:30	19°M51'31	
morning rise	351 May 16 j 20:48	15° 8 05'59		evening rise	353 Nov 07 j 00:31	25°M36'56	
desc. node	351 May 18 j 15:04	14° 8 10'21			353 Nov 10 j 12:19	0° ∡ 7	
direct	351 Jun 01 j 01:37	10° 8 38'42			353 Dec 04 j 10:21	0°ಕ	
greatest brilliancy	351 Jun 11 j 11:06	12° 8 35'24	-4.7m		353 Dec 28 j 10:31	0° ≈	
	351 Jul 08 j 09:33	Π $^{\circ}0$			354 Jan 21 j 15:09	0° ∀	
morning max el	351 Jul 19 j 23:23	10° Ⅲ 31'40	45°50'34		354 Feb 15 j 04:14	0° Y	
	351 Aug 08 j 02:52	0ಂಣ		asc. node	354 Feb 23 j 13:35	10° Ƴ 06'33	
	351 Sep 04 j 00:18	$0^{\circ}\Omega$			354 Mar 12 j 07:43	0° 8	
asc. node	351 Sep 08 j 18:31	5° Ω 31'53			354 Apr 07 j 12:04	Π $^{\circ}0$	
	351 Sep 29 j 08:39	0° m y			354 May 05 j 20:33	0 \circ 6	
	351 Oct 23 j 21:28	0∘ 亚		evening max el	354 May 10 j 09:14	4° 5 24'15	45°18'43
	351 Nov 17 j 00:21	0° M			354 Jun 12 j 18:30	$0^{\circ}\Omega$	
	351 Dec 10 j 23:21	0° ∡ ¹		desc. node	354 Jun 15 j 03:04	1° Ω 04'03	
desc. node	351 Dec 29 j 08:00	23° ∡ 00'45		greatest brilliancy	354 Jun 17 j 10:58	1° Ω 58′28	-4.7m
	352 Jan 03 j 21:51	0°ಕ		retrograde	354 Jun 27 j 20:00	3° Ω 54'08	
morning set	352 Jan 21 j 05:40	21° る 40'49			354 Jul 12 j 03:16	30° ₹ 🥯	
	352 Jan 27 j 21:28	0° ≈		evening set	354 Jul 14 j 03:37	28° © 54'17	
	352 Feb 20 j 23:06	0° ℋ		inferior conj	354 Jul 19 j 05:57	25° © 50'14	-6°56'33
				minimum elong	354 Jul 18 j 20:14	26° © 05'19	6°54'50
superior conj	352 Mar 01 j 14:02	11° ¥ 57′21		min. Earth dist.	354 Jul 19 j 10:48	25° © 42'42	0.28709 AU
minimum elong	352 Mar 01 j 17:53	12° ∺ 09′20	1°24'01	morning rise	354 Jul 23 j 12:32	23° © 13'42	
max. Earth dist.	352 Mar 05 j 06:25		1.72512 AU	direct	354 Aug 09 j 19:28	17° © 36'46	
	352 Mar 16 j 03:28	0° Y		greatest brilliancy	354 Aug 20 j 15:03	19° © 43'37	-4.8m
evening rise	352 Apr 09 j 03:51	29° Ƴ 37'37			354 Sep 07 j 02:41	0 $^{\circ}\Omega$	
	352 Apr 09 j 11:08	0° 8		morning max el	354 Sep 28 j 16:37	19° Ω 15'14	46°28'33
asc. node	352 Apr 20 j 11:24	13° 8 31'21		asc. node	354 Oct 06 j 06:20	27° Ω 00′12	
	352 May 03 j 22:17	Π°			354 Oct 09 j 02:27	0° m)	
	352 May 28 j 13:03	0ංම			354 Nov 04 j 20:25	0∘ ত	
	352 Jun 22 j 08:08	$0^{\circ}\Omega$			354 Nov 30 j 00:43	0° M	
	352 Jul 17 j 09:41	0° m ∕			354 Dec 24 j 14:08	0° ∡ ¹	
desc. node	352 Aug 10 j 00:40	27° mp 48'33			355 Jan 17 j 22:06	0°ਰ	
	352 Aug 11 j 21:54	0∘ ⊽		desc. node	355 Jan 25 j 19:56	9° る 46'21	
	352 Sep 07 j 05:26	0° M ₊			355 Feb 11 j 04:46	0° ≈	
evening max el	352 Oct 05 j 05:35	29° M .49'23	47°10'48		355 Mar 07 j 11:55	0° ∀	
	352 Oct 05 j 09:50	0° ∡ ¹			355 Mar 31 j 20:16	0°Υ	
	352 Nov 12 j 16:19	0°ප		morning set	355 Apr 04 j 14:02	4° Υ 36'11	
greatest brilliancy	352 Nov 14 j 17:34	0°る49'00	-4.9m		355 Apr 25 j 05:53	0°8	
retrograde	352 Nov 24 j 20:05	2° る 45'12					
asc. node	352 Dec 01 j 03:51	1°る55'20		superior conj	355 May 11 j 14:54	20° 8 06'45	
	352 Dec 06 j 09:56	30°R ✓		minimum elong	355 May 11 j 18:26	20° 8 17'34	
evening set	352 Dec 09 j 07:01	28° 🗷 32'58	0.06506 444	max. Earth dist.	355 May 11 j 15:10	20° 8 07'33	1.73612 AU
min. Earth dist.	352 Dec 14 j 15:47	25° 🗷 23'41	0.26526 AU	asc. node	355 May 18 j 23:08	29° 8 07'41	
inferior conj	352 Dec 15 j 08:50	24° 🗷 57'30	3°34'47		355 May 19 j 16:11	0°II	
minimum elong	352 Dec 15 j 01:20	25° ₹ 09'01	3°32'34		355 Jun 13 j 02:22	0°95	
morning rise	352 Dec 20 j 20:13	21° × ⁷ 43'32		evening rise	355 Jun 16 j 17:50	4° © 28'39	
direct	353 Jan 04 j 17:27	17° х 20′29 19° х 00′30	4.0		355 Jul 07 j 12:09	0° Ω 0° m	
greatest brilliancy	353 Jan 14 j 01:35	19° メ ・00'30	-4.9m		355 Jul 31 j 22:11	0∘ ت الأا	
morning max el	353 Feb 01 j 22:46 353 Feb 23 j 15:56	0 3 19° る 24'10	46920127	desc. node	355 Aug 25 j 09:52 355 Sep 07 j 12:48	0 <u>≈</u> 16° ≏ 00'53	
morning max er	353 Mar 06 j 02:00	19 3 24 10 0° ≈	40 30 27	desc. node	355 Sep 07 j 12.48 355 Sep 19 j 00:53	0°M	
desc. node	353 Mar 22 j 17:42	0 ∞ 17° ≈ 54'43			355 Oct 13 j 21:33	0° ⊼ 7	
desc. Hode	353 Apr 02 j 14:01	0° \			355 Nov 08 j 05:19	0° ろ	
	353 Apr 02 j 14:01 353 Apr 28 j 17:53	0° Υ			355 Dec 04 j 16:15	0° ≈	
	353 Apr 28 j 17:53 353 May 24 j 06:41	%8 0 1		evening max el	355 Dec 04 j 10:15 355 Dec 17 j 02:52	0 ∞ 13° ≈ 09'50	47°10'18
	353 Jun 18 j 09:37	0°II		asc. node	355 Dec 17 j 02:32 355 Dec 29 j 15:47	25°≈21'39	1, 1010
	353 Jul 13 j 04:03	0°9		use. Houe	356 Jan 03 j 21:37	25 ≈ 21 39 0° ∺	
asc. node	353 Jul 13 j 20:47	0°951'04		greatest brilliancy	356 Jan 26 j 12:30	14° ∺ 43'48	-4.9m
200. 11000	353 Aug 06 j 14:29	0°Ω		retrograde	356 Feb 06 j 00:05	16°) 49'37	.,,111
morning set	353 Aug 00 j 14:29 353 Aug 21 j 00:34	17° Ω 52'30		evening set	356 Feb 23 j 23:25	10° X 34'37	
morning sot	353 Aug 21 j 00:34 353 Aug 30 j 18:16	0° M)		min. Earth dist.	356 Feb 26 j 15:58		0.28239 AU
	353 Sep 23 j 17:40	0∘ ত المار		inferior conj	356 Feb 27 j 03:28	8°\(\frac{1}{3}\)35'20	
max. Earth dist.	353 Sep 25 j 02:19	0 — 1° ≏ 42'22	1.71543 AU	minimum elong	356 Feb 27 j 06:03	8° ∺ 31'13	
Dartii Uist.	200 0 0 p 20 J 02.17	. — 12 22	1., 15 15 110	morning rise	356 Mar 01 j 12:52	6° ∺ 28'07	0 0 1 0 0
superior conj	353 Sep 27 j 17:28	5° ഫ 00'25	1°11'31	direct	356 Mar 19 j 03:30	0° ∺ 30′15	
	J 17.20				520 E.M. 15 J 05.50	. , (3013	

greatest brilliancy	356 Mar 28 j 09:39	2° ₩ 04'52	-1 8m		358 Oct 02 j 15:55	0° M	
desc. node	356 Apr 19 j 05:18	14° H 55'58	-4.0111	desc. node	358 Oct 02 j 15:35 358 Oct 05 j 00:38	2°M56'20	
desc. node	356 May 06 j 09:20	14 χ3338 0° Υ		desc. node	358 Oct 05 j 00.38 358 Oct 26 j 19:24	2 1163620 0° √ 7	
morning max el	356 May 07 j 02:17	0° Υ 40′29	45°51'25		358 Nov 20 j 01:17	0°중	
morning max er	356 Jun 04 j 12:46	0°8	45 51 25		358 Nov 20 j 01.17 358 Dec 14 j 12:30	0°≈	
	,	0°I			359 Jan 08 j 11:47	0 ≈ 0° ∀	
	356 Jul 01 j 07:36	0°©		asc. node	359 Jan 08 j 11.47 359 Jan 26 j 03:42	0 X 20° ¥ 31'25	
asc. node	356 Jul 26 j 23:33	າວອ 17° ອ 13'00		asc. node	-	20 π 3123	
asc. node	356 Aug 10 j 08:41	0°Ω		avanina may al	359 Feb 03 j 14:00	24° Υ 07'16	46°00'01
	356 Aug 20 j 21:45			evening max el	359 Feb 26 j 10:58	0° 8	40 00 01
	356 Sep 14 j 07:13	0° ⊽ 0°₥			359 Mar 04 j 13:47	22° 8 53'27	4.7
4 41 111	356 Oct 08 j 08:25		2.0	greatest brilliancy	359 Apr 05 j 18:25		-4.7m
greatest brilliancy	356 Oct 22 j 19:29	18° ♀ 09'31	-3.9m	retrograde	359 Apr 16 j 17:23	25° 8 04'06	
morning set	356 Nov 01 j 11:35	0°M₁9′35		evening set	359 May 02 j 03:05	20° 8 26'40	2012117
	356 Nov 01 j 05:22	0°M		inferior conj	359 May 08 j 03:11	16° 8 48'23	2°13'17
	356 Nov 25 j 01:02	0° ∡ 7		minimum elong	359 May 08 j 07:54	16° 8 40'57	
desc. node	356 Nov 29 j 22:14	6° ≯ 08'55		min. Earth dist.	359 May 08 j 07:03	16° 8 42'18	0.28969 AU
				morning rise	359 May 14 j 12:56	12° 8 57'14	
superior conj	356 Dec 12 j 21:27	22° ∡ ′28′09		desc. node	359 May 17 j 17:07	11° 8 20'48	
minimum elong	356 Dec 12 j 13:38	22° ∡ '03'36		direct	359 May 29 j 18:31	8° 8 29'50	
max. Earth dist.	356 Dec 15 j 03:17	25° ∡ 17′26	1.71113 AU	greatest brilliancy	359 Jun 09 j 02:12	10° 8 25'11	-4.7m
	356 Dec 18 j 21:11	0° ප			359 Jul 08 j 13:28	$\Pi^{\circ}0$	
	357 Jan 11 j 18:58	0° ≈		morning max el	359 Jul 17 j 15:21	8° Ⅱ 21'26	45°49'40
evening rise	357 Jan 23 j 09:04	14° ≈ 29'35			359 Aug 07 j 19:55	0°€	
	357 Feb 04 j 19:32	0° ∀			359 Sep 03 j 14:19	$0^{\circ}\Omega$	
	357 Mar 01 j 00:31	$\mathbf{\gamma}_{0}$		asc. node	359 Sep 07 j 20:38	4° Ω 58'00	
asc. node	357 Mar 23 j 01:32	27° Ƴ 02'28			359 Sep 28 j 21:21	0° mp	
	357 Mar 25 j 11:49	$_{0\circ}$ 8			359 Oct 23 j 09:31	0∘ ত	
	357 Apr 19 j 07:39	$\Pi^{\circ}0$			359 Nov 16 j 12:03	0° M	
	357 May 14 j 15:15	0 \circ			359 Dec 10 j 10:50	0°⊀	
	357 Jun 09 j 17:21	$0 {\circ} \Omega$		desc. node	359 Dec 28 j 10:07	22° ⋌ 31'50	
	357 Jul 07 j 07:37	0° m)			360 Jan 03 j 09:09	0°ප	
desc. node	357 Jul 12 j 14:55	5° Mp 26'31		morning set	360 Jan 18 j 16:17	19° る 09'03	
evening max el	357 Jul 21 j 06:01	13° m 57'38	45°56'52		360 Jan 27 j 08:36	0° ≈	
	357 Aug 08 j 10:56	0∘ ⊽			200 E-k 20 : 10.05	0°) €	
		· —			360 Feb 20 j 10:05	0 /	
greatest brilliancy	357 Aug 30 j 10:56	12° ≏ 48'55	-4.8m		360 Feb 20 J 10:03	0 /	
greatest brilliancy retrograde			-4.8m	superior conj	360 Feb 28 j 03:50	9° ∺ 37′10	-1°24'38
	357 Aug 30 j 10:56	12° ≏ 48'55	-4.8m	superior conj minimum elong	-		
retrograde	357 Aug 30 j 10:56 357 Sep 08 j 11:50	12° △ 48'55 14° △ 18'57			360 Feb 28 j 03:50	9° 米 37'10 9° 米 46'37 14° 米 26'55	
retrograde evening set	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27	12° ♀ 48'55 14° ♀ 18'57 8° ♀ 54'45	-7°25'28	minimum elong	360 Feb 28 j 03:50 360 Feb 28 j 06:53	9° 米 37'10 9° 米 46'37	1°24'38
retrograde evening set inferior conj	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55	12° \(\Omega\) 48'55 14° \(\Omega\) 18'57 8° \(\Omega\) 54'45 6° \(\Omega\) 35'23 6° \(\Omega\) 20'20	-7°25'28	minimum elong	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11	9° 米 37'10 9° 米 46'37 14° 米 26'55	1°24'38
retrograde evening set inferior conj minimum elong	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55 357 Sep 29 j 16:50	12° \(\Omega\) 48'55 14° \(\Omega\) 18'57 8° \(\Omega\) 54'45 6° \(\Omega\) 35'23 6° \(\Omega\) 20'20	-7°25'28 7°23'45	minimum elong max. Earth dist.	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23	9°¥37'10 9°¥46'37 14°¥26'55 0° Υ	1°24'38
retrograde evening set inferior conj minimum elong min. Earth dist.	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55 357 Sep 29 j 16:50 357 Sep 30 j 03:26	12° Ω 48'55 14° Ω 18'57 8° Ω 54'45 6° Ω 35'23 6° Ω 20'20 6° Ω 04'14	-7°25'28 7°23'45	minimum elong max. Earth dist.	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23 360 Apr 06 j 20:09	9°₩37'10 9°₩46'37 14°₩26'55 0°Ψ 27° Υ 26'27	1°24'38
retrograde evening set inferior conj minimum elong min. Earth dist.	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55 357 Sep 29 j 16:50 357 Sep 30 j 03:26 357 Oct 03 j 23:49	12° \$\Delta 48'55\$ 14° \$\Delta 18'57\$ 8° \$\Delta 54'45\$ 6° \$\Delta 20'20\$ 6° \$\Delta 04'14\$ 3° \$\Delta 47'38\$	-7°25'28 7°23'45	minimum elong max. Earth dist. evening rise	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23 360 Apr 06 j 20:09 360 Apr 08 j 22:04	9° X 37′10 9° X 46′37 14° X 26′55 0° Υ 27° Y 26′27 0° X	1°24'38
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55 357 Sep 29 j 16:50 357 Sep 30 j 03:26 357 Oct 03 j 23:49 357 Oct 12 j 06:46	12° ១ 48'55 14° ១ 18'57 8° ១ 54'45 6° ១ 35'23 6° ១ 20'20 6° ១ 04'14 3° ១ 47'38	-7°25'28 7°23'45	minimum elong max. Earth dist. evening rise	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23 360 Apr 06 j 20:09 360 Apr 08 j 22:04 360 Apr 19 j 13:21	9° \ 37′10 9° \ 46′37 14° \ 2 26′55 0° \ 27° \ 226′27 0° \ 8 13° \ 803′43	1°24'38
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55 357 Sep 29 j 16:50 357 Sep 30 j 03:26 357 Oct 03 j 23:49 357 Oct 12 j 06:46 357 Oct 20 j 02:15	12° \$\Delta 48'55\$ 14° \$\Delta 18'57\$ 8° \$\Delta 54'45\$ 6° \$\Delta 30'20\$ 6° \$\Delta 04'14\$ 3° \$\Delta 47'38\$ 30° R \$\Pi\$ 28° \$\Pi 44'32\$	-7°25'28 7°23'45 0.27194 AU	minimum elong max. Earth dist. evening rise	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23 360 Apr 06 j 20:09 360 Apr 08 j 22:04 360 Apr 19 j 13:21 360 May 03 j 09:23	9°₩37'10 9°₩46'37 14°₩26'55 0°Ψ 27°Ψ26'27 0°₩ 13°₩03'43 0°Щ	1°24'38
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55 357 Sep 29 j 16:50 357 Sep 30 j 03:26 357 Oct 03 j 23:49 357 Oct 12 j 06:46 357 Oct 20 j 02:15 357 Oct 28 j 03:36	12° ១ 48'55 14° ១ 18'57 8° ១ 54'45 6° ១ 35'23 6° ១ 20'20 6° ១ 04'14 3° ១ 47'38 30° R ሙ 28° ሙ 44'32 0° ១	-7°25'28 7°23'45 0.27194 AU	minimum elong max. Earth dist. evening rise	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23 360 Apr 06 j 20:09 360 Apr 08 j 22:04 360 Apr 19 j 13:21 360 May 03 j 09:23 360 May 28 j 00:25	9°¥37'10 9°¥46'37 14°¥26'55 0°¥ 27°¥26'27 0°8 13°8'03'43 0°Ⅱ 0°©	1°24'38
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55 357 Sep 29 j 16:50 357 Sep 30 j 03:26 357 Oct 03 j 23:49 357 Oct 12 j 06:46 357 Oct 20 j 02:15 357 Oct 28 j 03:36 357 Oct 31 j 04:01	12° 요 48'55 14° ይ 18'57 8° ይ 54'45 6° ይ 35'23 6° ይ 20'20 6° ይ 04'14 3° ይ 47'38 30° R መ 28° ሙ 44'32 0° ይ 1° ይ 03'34	-7°25'28 7°23'45 0.27194 AU	minimum elong max. Earth dist. evening rise	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23 360 Apr 06 j 20:09 360 Apr 08 j 22:04 360 Apr 19 j 13:21 360 May 03 j 09:23 360 May 28 j 00:25 360 Jun 21 j 20:01	9°\cong 37'10 9°\cong 46'37 14°\cong 26'55 0°\cong 27°\cong 26'27 0°\cong 13°\cong 03'43 0°\cong 0°\cong 0°\cong 0°\cong 0	1°24'38
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55 357 Sep 29 j 16:50 357 Sep 30 j 03:26 357 Oct 03 j 23:49 357 Oct 12 j 06:46 357 Oct 20 j 02:15 357 Oct 28 j 03:36 357 Oct 31 j 04:01 357 Nov 02 j 17:58	12°	-7°25'28 7°23'45 0.27194 AU	minimum elong max. Earth dist. evening rise asc. node	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23 360 Apr 06 j 20:09 360 Apr 08 j 22:04 360 Apr 19 j 13:21 360 May 03 j 09:23 360 May 28 j 00:25 360 Jun 21 j 20:01 360 Jul 16 j 22:25	9°\cong 37'10 9°\cong 46'37 14°\cong 26'55 0°\cong 27°\cong 26'27 0°\cong 13°\cong 03'43 0°\L 0°\cong 0°\cong 0°	1°24'38
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55 357 Sep 29 j 16:50 357 Sep 30 j 03:26 357 Oct 03 j 23:49 357 Oct 12 j 06:46 357 Oct 20 j 02:15 357 Oct 28 j 03:36 357 Oct 31 j 04:01 357 Nov 02 j 17:58 357 Dec 07 j 15:04	12°	-7°25'28 7°23'45 0.27194 AU	minimum elong max. Earth dist. evening rise asc. node	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23 360 Apr 06 j 20:09 360 Apr 08 j 22:04 360 Apr 19 j 13:21 360 May 03 j 09:23 360 May 28 j 00:25 360 Jun 21 j 20:01 360 Jul 16 j 22:25 360 Aug 09 j 02:50	9°\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot	1°24'38
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55 357 Sep 29 j 16:50 357 Sep 30 j 03:26 357 Oct 03 j 23:49 357 Oct 12 j 06:46 357 Oct 20 j 02:15 357 Oct 28 j 03:36 357 Oct 31 j 04:01 357 Nov 02 j 17:58 357 Dec 07 j 15:04 357 Dec 09 j 22:35	12°	-7°25'28 7°23'45 0.27194 AU	minimum elong max. Earth dist. evening rise asc. node	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23 360 Apr 06 j 20:09 360 Apr 08 j 22:04 360 Apr 19 j 13:21 360 May 03 j 09:23 360 May 28 j 00:25 360 Jun 21 j 20:01 360 Jul 16 j 22:25 360 Aug 09 j 02:50 360 Aug 11 j 12:06	9° \ 37'10 9° \ 46'37 14° \ 26'55 0° \ \ 27° \ \ 26'27 0° \ \ 13° \ \ 303'43 0° \ \ 0° \ \ 0° \ \ 0° \ \ 27° \ \ 14'00 0° \ \ 0° \ \ 27° \ \ 14'00 0° \ \	1°24'38
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55 357 Sep 29 j 16:50 357 Sep 30 j 03:26 357 Oct 03 j 23:49 357 Oct 12 j 06:46 357 Oct 20 j 02:15 357 Oct 28 j 03:36 357 Oct 31 j 04:01 357 Nov 02 j 17:58 357 Dec 07 j 15:04 357 Dec 09 j 22:35 358 Jan 04 j 09:59	12°	-7°25'28 7°23'45 0.27194 AU	minimum elong max. Earth dist. evening rise asc. node	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23 360 Apr 06 j 20:09 360 Apr 08 j 22:04 360 Apr 19 j 13:21 360 May 03 j 09:23 360 May 28 j 00:25 360 Jun 21 j 20:01 360 Jul 16 j 22:25 360 Aug 09 j 02:50 360 Aug 11 j 12:06 360 Sep 06 j 22:26	9° \ 37'10 9° \ 46'37 14° \ 26'55 0° \ \ 27° \ \ 26'27 0° \ \ 13° \ \ 303'43 0° \ \ 0° \ \ 0° \ \ 0° \ \ 27° \ \ \ 14'00 0° \ \ 0° \ \ 27° \ \ \ 14'00 0° \ \ 0° \ \ 0° \ \ 0° \ \	1°24'38 1.72456 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55 357 Sep 29 j 16:50 357 Sep 30 j 03:26 357 Oct 03 j 23:49 357 Oct 12 j 06:46 357 Oct 20 j 02:15 357 Oct 28 j 03:36 357 Oct 31 j 04:01 357 Nov 02 j 17:58 357 Dec 07 j 15:04 357 Dec 09 j 22:35 358 Jan 04 j 09:59 358 Jan 30 j 06:55	12°	-7°25'28 7°23'45 0.27194 AU	minimum elong max. Earth dist. evening rise asc. node	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23 360 Apr 06 j 20:09 360 Apr 08 j 22:04 360 Apr 19 j 13:21 360 May 03 j 09:23 360 May 28 j 00:25 360 Jul 21 j 20:01 360 Jul 16 j 22:25 360 Aug 09 j 02:50 360 Aug 11 j 12:06 360 Sep 06 j 22:26 360 Oct 02 j 19:12	9° \ 37'10 9° \ 46'37 14° \ 26'55 0° \ \ 27° \ \ 26'27 0° \ \ 13° \ \ 303'43 0° \ \ 0° \ \ 0° \ \ 27° \ \ 14'00 0° \ \ 0° \ \ 27° \ \ 14'02 0° \ \ 27° \ \ \	1°24'38 1.72456 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55 357 Sep 29 j 16:50 357 Sep 30 j 03:26 357 Oct 03 j 23:49 357 Oct 12 j 06:46 357 Oct 20 j 02:15 357 Oct 28 j 03:36 357 Oct 31 j 04:01 357 Nov 02 j 17:58 357 Dec 07 j 15:04 357 Dec 09 j 22:35 358 Jan 04 j 09:59 358 Jan 30 j 06:55 358 Feb 22 j 07:52	12°	-7°25'28 7°23'45 0.27194 AU	minimum elong max. Earth dist. evening rise asc. node desc. node	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23 360 Apr 06 j 20:09 360 Apr 08 j 22:04 360 Apr 19 j 13:21 360 May 03 j 09:23 360 May 28 j 00:25 360 Jul 16 j 22:25 360 Jul 16 j 22:25 360 Aug 09 j 02:50 360 Aug 11 j 12:06 360 Sep 06 j 22:26 360 Oct 02 j 19:12 360 Oct 05 j 10:07	9° \ 37'10 9° \ 46'37 14° \ 26'55 0° \ Y 27° \ Y26'27 0° \ 8 13° \ 803'43 0° \ \ 1 0° \ \ 0°	1°24'38 1.72456 AU 47°08'56
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retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55 357 Sep 29 j 16:50 357 Sep 30 j 03:26 357 Oct 03 j 23:49 357 Oct 12 j 06:46 357 Oct 20 j 02:15 357 Oct 28 j 03:36 357 Oct 31 j 04:01 357 Nov 02 j 17:58 357 Dec 07 j 15:04 357 Dec 09 j 22:35 358 Jan 04 j 09:59 358 Jan 30 j 06:55 358 Feb 22 j 07:52 358 Feb 24 j 11:42 358 Mar 21 j 09:45	12° 至48'55 14° 至18'57 8° 至54'45 6° 至35'23 6° 至20'20 6° 至04'14 3° 至47'38 30° R 顺 28° 顺44'32 0° 至 1° 至03'34 2° 至11'07 0° 肌 2° 肌20'36 0° ズ 0° 云 27° 云24'41 0° ※ 0° 升	-7°25'28 7°23'45 0.27194 AU	minimum elong max. Earth dist. evening rise asc. node desc. node evening max el greatest brilliancy	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23 360 Apr 06 j 20:09 360 Apr 08 j 22:04 360 Apr 19 j 13:21 360 May 03 j 09:23 360 May 28 j 00:25 360 Jun 21 j 20:01 360 Jul 16 j 22:25 360 Aug 09 j 02:50 360 Aug 11 j 12:06 360 Sep 06 j 22:26 360 Oct 02 j 19:12 360 Nov 12 j 07:43 360 Nov 18 j 19:52	9° \ 37'10 9° \ 46'37 14° \ 26'55 0° \ 27° \ 26'27 0° \ 8 13° \ 803'43 0° \ II 0° \ \	1°24'38 1.72456 AU 47°08'56
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retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55 357 Sep 29 j 16:50 357 Sep 30 j 03:26 357 Oct 03 j 23:49 357 Oct 12 j 06:46 357 Oct 20 j 02:15 357 Oct 28 j 03:36 357 Oct 31 j 04:01 357 Nov 02 j 17:58 357 Dec 07 j 15:04 357 Dec 09 j 22:35 358 Jan 04 j 09:59 358 Jan 30 j 06:55 358 Feb 22 j 07:52 358 Feb 24 j 11:42 358 Mar 21 j 09:45 358 May 09 j 21:20	12° \$\textit{\Pi} 48'55 14° \$\textit{\Pi} 18'57 8° \$\textit{\Pi} 54'45 6° \$\textit{\Pi} 52'23 6° \$\textit{\Pi} 20'20 6° \$\textit{\Pi} 44'32 0° \$\textit{\Pi} 203'34 2° \$\textit{\Pi} 1'07 0° \$\textit{\Pi} 20'36 0° \$\textit{\Pi} 20'36 0° \$\textit{\Pi} 20'36 0° \$\textit{\Pi} 20'41 0° \$\textit{\Pi} 20'41 0° \$\textit{\Pi} 20'41 0° \$\textit{\Pi} 20'41	-7°25'28 7°23'45 0.27194 AU	minimum elong max. Earth dist. evening rise asc. node desc. node evening max el greatest brilliancy retrograde	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23 360 Apr 06 j 20:09 360 Apr 08 j 22:04 360 Apr 19 j 13:21 360 May 03 j 09:23 360 May 28 j 00:25 360 Jun 21 j 20:01 360 Jul 16 j 22:25 360 Aug 09 j 02:50 360 Aug 11 j 12:06 360 Sep 06 j 22:26 360 Oct 02 j 19:12 360 Nov 12 j 07:43 360 Nov 18 j 19:52 360 Nov 25 j 19:20	9° ★37'10 9° ★46'37 14° ★26'55 0° ❤ 27° ♥26'27 0° ℧ 13° ℧03'43 0° 玑 0° ⑤ 0° ሺ 0° ዂ 27° ዂ14'00 0° 으 0° ዂ 27° ዂ24'22 0° ズ 28° ズ 20'33 0° ℧ 0° ℧ 14'46 30° ዪズ	1°24'38 1.72456 AU 47°08'56
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retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node morning set asc. node max. Earth dist.	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55 357 Sep 29 j 16:50 357 Sep 30 j 03:26 357 Oct 03 j 23:49 357 Oct 12 j 06:46 357 Oct 20 j 02:15 357 Oct 28 j 03:36 357 Oct 31 j 04:01 357 Nov 02 j 17:58 357 Dec 07 j 15:04 357 Dec 09 j 22:35 358 Jan 04 j 09:59 358 Jan 30 j 06:55 358 Feb 22 j 07:52 358 Feb 24 j 11:42 358 Mar 21 j 09:45 358 May 09 j 21:20 358 Jun 03 j 11:44 358 Jun 15 j 11:01 358 Jun 27 j 22:54 358 Jul 14 j 11:12	12° 年48'55 14° 年18'57 8° 年54'45 6° 年35'23 6° 年20'20 6° 年04'14 3° 年47'38 30° RM 28° M44'32 0° 年 1° 年03'34 2° 年11'07 0° M 2° M20'36 0° ズ 0° 云 27° 云24'41 0° ※ 0° 升 0° Y	-7°25'28 7°23'45 0.27194 AU -4.9m 46°56'38	minimum elong max. Earth dist. evening rise asc. node desc. node evening max el greatest brilliancy retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23 360 Apr 06 j 20:09 360 Apr 08 j 22:04 360 Apr 19 j 13:21 360 May 03 j 09:23 360 May 28 j 00:25 360 Jun 21 j 20:01 360 Jul 16 j 22:25 360 Aug 09 j 02:50 360 Aug 09 j 02:50 360 Aug 11 j 12:06 360 Sep 06 j 22:26 360 Oct 02 j 19:12 360 Oct 05 j 10:07 360 Nov 12 j 07:43 360 Nov 12 j 07:43 360 Nov 22 j 08:17 360 Nov 25 j 19:20 360 Nov 30 j 05:59 360 Dec 06 j 18:12 360 Dec 12 j 05:39 360 Dec 12 j 21:12 360 Dec 12 j 14:21 360 Dec 18 j 11:01	9° \ 37'10 9° \ 46'37 14° \ 26'55 0° \ Y 27° \ Y26'27 0° \ B 13° \ B03'43 0° \ II 0° \$\mathred{G} 0° \ R 27° \ M\24'22 0° \ A 28° \ A'20'33 0° \ B 28° \ A'20'33 0° \ B 28° \ A'57'25 26° \ A'05'18 22° \ A'52'16 22° \ A'38'52 19° \ A'10'53	1°24'38 1.72456 AU 47°08'56 -4.9m 0.26487 AU 3°12'21 3°10'17
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retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node morning set asc. node max. Earth dist. superior conj	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55 357 Sep 29 j 16:50 357 Sep 30 j 03:26 357 Oct 03 j 23:49 357 Oct 12 j 06:46 357 Oct 20 j 02:15 357 Oct 28 j 03:36 357 Oct 31 j 04:01 357 Nov 02 j 17:58 357 Dec 07 j 15:04 357 Dec 09 j 22:35 358 Jan 04 j 09:59 358 Jan 30 j 06:55 358 Feb 22 j 07:52 358 Feb 24 j 11:42 358 Mar 21 j 09:45 358 May 09 j 21:20 358 Jun 03 j 11:44 358 Jun 11 j 12:03 358 Jun 27 j 22:54 358 Jul 17 j 18:53 358 Jul 17 j 18:53 358 Jul 17 j 10:21	12° \$\textit{\textit{\textit{24}\textit{\textit{95}}}\$ 14° \$\textit{\textit{14}\textit{55}}\$ 6° \$\textit{\textit{23}\textit{56}}\$ 6° \$\textit{\textit{24}\textit{14}}\$ 6° \$\textit{\textit{24}\textit{17}}\$ 6° \$\textit{\textit{24}\textit{17}}\$ 28° \$\textit{\textit{16}\textit{19}}\$ 1° \$\textit{\textit{20}\textit{33}}\$ 0° \$\textit{\textit{2}}\$ 0° \$\textit{\textit{2}}\$ 0° \$\textit{2}\$ 20° \$\textit{32}\textit{41}}\$ 0° \$\textit{2}\$ 0° \$\textit{3}\$ 0° \$\textit{3}\$ 0° \$\textit{3}\$ 20° \$\textit{39}\textit{11}}\$ 0° \$\textit{39}\textit{11}}\$ 24° \$\textit{\textit{27}\textit{27}}\$ 24° \$\textit{30}\textit{104}\$	-7°25'28 7°23'45 0.27194 AU -4.9m 46°56'38	minimum elong max. Earth dist. evening rise asc. node desc. node evening max el greatest brilliancy retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23 360 Apr 06 j 20:09 360 Apr 08 j 22:04 360 Apr 19 j 13:21 360 May 03 j 09:23 360 May 28 j 00:25 360 Jun 21 j 20:01 360 Jul 16 j 22:25 360 Aug 09 j 02:50 360 Aug 11 j 12:06 360 Sep 06 j 22:26 360 Oct 02 j 19:12 360 Oct 05 j 10:07 360 Nov 12 j 07:43 360 Nov 12 j 07:43 360 Nov 22 j 08:17 360 Nov 25 j 19:20 360 Nov 30 j 05:59 360 Dec 06 j 18:12 360 Dec 12 j 05:39 360 Dec 12 j 21:12 360 Dec 12 j 14:21 360 Dec 18 j 11:01 361 Jan 02 j 05:26 361 Jan 11 j 15:29	9° \ 37'10 9° \ 46'37 14° \ 26'55 0° \ Y 27° \ Y26'27 0° \ 8 13° \ 803'43 0° \ II 0° \$\mathred{G} 0° \ II 27° \ II 14'00 0° \ \ 27° \ II 24'22 0° \ \ 28° \ \ 20'33 0° \ II 28° \ \ 3'20'33 0° \ II 28° \ \ 3'51'25 26° \ \ 38'52 19° \ \ 3'10'53 14° \ \ 3'51'58 16° \ \ 3'33'17	1°24'38 1.72456 AU 47°08'56 -4.9m 0.26487 AU 3°12'21 3°10'17
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node morning set asc. node max. Earth dist. superior conj	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 29 j 06:55 357 Sep 29 j 16:50 357 Sep 29 j 16:50 357 Sep 30 j 03:26 357 Oct 03 j 23:49 357 Oct 12 j 06:46 357 Oct 20 j 02:15 357 Oct 28 j 03:36 357 Oct 31 j 04:01 357 Nov 02 j 17:58 357 Dec 07 j 15:04 357 Dec 09 j 22:35 358 Jan 04 j 09:59 358 Jan 30 j 06:55 358 Feb 22 j 07:52 358 Feb 22 j 07:52 358 Feb 24 j 11:42 358 Mar 21 j 09:45 358 May 09 j 21:20 358 Jun 03 j 11:44 358 Jun 11 j 12:03 358 Jun 15 j 11:01 358 Jun 17 j 18:53 358 Jul 17 j 18:53 358 Jul 17 j 18:53 358 Jul 17 j 10:21 358 Jul 17 j 10:21 358 Jul 22 j 06:24	12° 年48'55 14° 年18'57 8° 年54'45 6° 年35'23 6° 年20'20 6° 年04'14 3° 年47'38 30° RM 28° M44'32 0° 年 1° 年03'34 2° 年11'07 0° M 2° M 20'36 0° ズ 0° 云 27° 云24'41 0° ※ 0° 升 0° Y	-7°25'28 7°23'45 0.27194 AU -4.9m 46°56'38	minimum elong max. Earth dist. evening rise asc. node desc. node evening max el greatest brilliancy retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23 360 Apr 06 j 20:09 360 Apr 08 j 22:04 360 Apr 19 j 13:21 360 May 03 j 09:23 360 May 28 j 00:25 360 Jun 21 j 20:01 360 Jul 16 j 22:25 360 Aug 09 j 02:50 360 Aug 11 j 12:06 360 Sep 06 j 22:26 360 Oct 02 j 19:12 360 Oct 05 j 10:07 360 Nov 12 j 07:43 360 Nov 12 j 07:43 360 Nov 22 j 08:17 360 Nov 25 j 19:20 360 Nov 30 j 05:59 360 Dec 06 j 18:12 360 Dec 12 j 21:12 360 Dec 12 j 14:21 360 Dec 18 j 11:01 361 Jan 02 j 05:26 361 Jan 11 j 15:29 361 Feb 02 j 13:35	9°米37'10 9°米46'37 14°米26'55 0°Y° 27°Y26'27 0°8 13°803'43 0°用 0°9 0°M 27°M14'00 0°9 0°M 27°M24'22 0°¾ 28°¾20'33 0°3 0°314'46 30°8¾ 28°¾57'25 26°¾05'18 22°¾38'52 19°¾10'53 14°¾51'58 16°¾33'17 0°3	1°24'38 1.72456 AU 47°08'56 -4.9m 0.26487 AU 3°12'21 3°10'17
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el desc. node morning set asc. node max. Earth dist. superior conj minimum elong	357 Aug 30 j 10:56 357 Sep 08 j 11:50 357 Sep 25 j 09:27 357 Sep 29 j 06:55 357 Sep 29 j 16:50 357 Sep 30 j 03:26 357 Oct 03 j 23:49 357 Oct 12 j 06:46 357 Oct 20 j 02:15 357 Oct 28 j 03:36 357 Oct 31 j 04:01 357 Nov 02 j 17:58 357 Dec 07 j 15:04 357 Dec 09 j 22:35 358 Jan 04 j 09:59 358 Jan 30 j 06:55 358 Feb 22 j 07:52 358 Feb 22 j 07:52 358 Mar 21 j 09:45 358 Mar 21 j 09:45 358 May 09 j 21:20 358 Jun 03 j 11:44 358 Jun 11 j 12:03 358 Jun 15 j 11:01 358 Jun 27 j 22:54 358 Jul 17 j 18:53 358 Jul 17 j 18:53 358 Jul 17 j 10:21 358 Jul 22 j 06:24 358 Aug 15 j 10:47	12° 年48'55 14° 年18'57 8° 年54'45 6° 年35'23 6° 年20'20 6° 年04'14 3° 年47'38 30° R M 28° M 44'32 0° 年 1° 年03'34 2° 年11'07 0° M 2° M 20'36 0° ズ 0° 万 27° 万24'41 0° ※ 0° 升 0° H 9° 耳48'16 14° 耳39'11 0° ⑤ 20° ⑤ 21'15 24° ⑤ 27'27 24° ⑤ 01'04 0° 凡 0° M	-7°25'28 7°23'45 0.27194 AU -4.9m 46°56'38	minimum elong max. Earth dist. evening rise asc. node desc. node evening max el greatest brilliancy retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	360 Feb 28 j 03:50 360 Feb 28 j 06:53 360 Mar 03 j 01:11 360 Mar 15 j 14:23 360 Apr 06 j 20:09 360 Apr 08 j 22:04 360 Apr 19 j 13:21 360 May 03 j 09:23 360 May 28 j 00:25 360 Jun 21 j 20:01 360 Jul 16 j 22:25 360 Aug 09 j 02:50 360 Aug 11 j 12:06 360 Sep 06 j 22:26 360 Oct 02 j 19:12 360 Oct 05 j 10:07 360 Nov 12 j 07:43 360 Nov 12 j 07:43 360 Nov 22 j 08:17 360 Nov 25 j 19:20 360 Nov 30 j 05:59 360 Dec 06 j 18:12 360 Dec 12 j 21:12 360 Dec 12 j 14:21 360 Dec 18 j 11:01 361 Jan 02 j 05:26 361 Jan 11 j 15:29 361 Feb 02 j 13:35 361 Feb 21 j 03:54	9°米37'10 9°米46'37 14°米26'55 0°Y 27°Y26'27 0°と 13°と03'43 0°用 0°の 0°M 27°M14'00 0°으 0°M 27°M24'22 0°メ 28°メ20'33 0°उ 0°उ14'46 30°Rメ 28°メ352'16 22°メ38'52 19°メ10'53 14°メ51'58 16°ズ33'17 0°उ 16°उ57'12	1°24'38 1.72456 AU 47°08'56 -4.9m 0.26487 AU 3°12'21 3°10'17

	261 4 02:05 11	001/			2/23/ 07:20.20	007	
	361 Apr 02 j 05:11	0° ∀ 0° Υ			363 Nov 07 j 20:38	%≈00	
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	361 May 23 j 18:51 361 Jun 17 j 21:13	0°I		asc. node	363 Dec 14 j 17:11 363 Dec 28 j 17:55	10 ≈47 02 24°≈20'35	4/ 12/02
asc. node	361 Jul 12 j 22:55	0° 5 23'13		asc. node	364 Jan 04 j 07:54	24 ≈ 20 33	
asc. nouc	361 Jul 12 j 15:18	0°9 0°9		greatest brilliancy	364 Jan 24 j 03:48	12° ¥ 24'48	-4.9m
	361 Aug 06 j 01:34	0° U		retrograde	364 Feb 03 j 15:53	14°) (31'29	4.7111
morning set	361 Aug 18 j 16:41	15° Ω 39'00		evening set	364 Feb 21 j 15:02	8° ₩ 15'46	
	361 Aug 30 j 05:19	0° m)		inferior conj	364 Feb 24 j 18:36	6° ₩ 17'26	8°37'33
max. Earth dist.	361 Sep 22 j 12:42	29° m 09'35	1.71592 AU	minimum elong	364 Feb 24 j 20:24	6° 光 14'35	
	361 Sep 23 j 04:47	0∘ ⊽		min. Earth dist.	364 Feb 24 j 06:00	6° ₩ 37'21	0.28189 AU
				morning rise	364 Feb 28 j 01:59	4°) 13′37	
superior conj	361 Sep 25 j 07:16	2° ₽ 38'19	1°13'23		364 Mar 07 j 09:02	30° R ≈	
minimum elong	361 Sep 25 j 16:10	3° ≏ 06'14	1°13'09	direct	364 Mar 16 j 17:47	28° ≈ 13'03	
	361 Oct 17 j 02:20	0° M .		greatest brilliancy	364 Mar 25 j 23:17	29° ≈ 47'28	-4.8m
desc. node	361 Nov 01 j 12:30	19°M22'22			364 Mar 26 j 14:11	0° ∀	
evening rise	361 Nov 04 j 10:53	23°ML03'17		desc. node	364 Apr 18 j 07:20	13° ¥ 50′30	
	361 Nov 09 j 23:39	0° ∡ ¹		morning max el	364 May 04 j 18:00	28° ∺ 28′00	45°52'28
	361 Dec 03 j 21:50	0°ප			364 May 06 j 08:11	0° Υ	
	361 Dec 27 j 22:09	0° ≈			364 Jun 04 j 04:44	0° B	
	362 Jan 21 j 03:04	0° ∀			364 Jun 30 j 21:04	0° Ⅱ	
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asc. node	362 Feb 22 j 15:39 362 Mar 11 j 21:00	0° 8		asc. node	364 Aug 09 j 10:46 364 Aug 20 j 09:27	16 3 43 20 0° Ω	
	362 Apr 07 j 03:25	0°I			364 Sep 13 j 18:38	0° m p	
	362 May 05 j 17:47	0ංම 0 ප			364 Oct 07 j 19:44	0∘ ಹ	
evening max el	362 May 07 j 23:35	2°909'50	45°18'49	greatest brilliancy	364 Oct 22 j 16:53	ა _ 18° ჲ 41'22	-3.9m
desc. node	362 Jun 14 j 05:10	29°527'38	13 10 17	morning set	364 Oct 29 j 23:20	27° ₽ 49'59	3.7111
greatest brilliancy	362 Jun 15 j 01:18	29°546'15	-4.7m	morning sec	364 Oct 31 j 16:38	0° M	
,	362 Jun 15 j 17:05	$0^{\circ}\Omega$			364 Nov 24 j 12:17	0° ∡ ¹	
retrograde	362 Jun 25 j 11:22	1° Ω 43'15		desc. node	364 Nov 29 j 00:25	5° ∡ ′40′19	
•	362 Jul 04 j 20:32	30° ₹ 5			·		
evening set	362 Jul 11 j 16:09	26°9547'03		superior conj	364 Dec 10 j 06:35	19° ∡ 50′28	-0°26'24
inferior conj	362 Jul 16 j 21:43	23°538'37	-6°43'46	minimum elong	364 Dec 09 j 23:40	19° ∡ ¹28'43	0°26'04
minimum elong	362 Jul 16 j 11:50	23° © 53'57	6°41'57	max. Earth dist.	364 Dec 12 j 10:31	22° х 33′49	1.71094 AU
min. Earth dist.	362 Jul 17 j 02:21	23° © 31'26	0.28741 AU		364 Dec 18 j 08:27	0° ප	
morning rise	362 Jul 21 j 07:10	20° © 57'55			365 Jan 11 j 06:13	0° ≈	
direct	362 Aug 07 j 11:01	15° 5 24'27		evening rise	365 Jan 20 j 19:45	11° ≈ 57'54	
greatest brilliancy	362 Aug 18 j 07:35	17° © 31'49	-4.8m		365 Feb 04 j 06:49	0° ∺	
	362 Sep 07 j 15:10	0°N	4.602.710.5	Ī	365 Feb 28 j 11:52	0° Υ	
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asc. node	362 Oct 05 j 08:17 362 Oct 08 j 21:20	26° Ω 13'37 0° m)			365 Mar 24 j 23:24 365 Apr 18 j 19:42	0°U	
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	362 Nov 29 j 14:11	0° ™			365 Jun 09 j 08:11	$0^{\circ}\Omega$	
	362 Dec 24 j 02:44	0° ∡¹			365 Jul 07 j 02:53	0° m)	
	363 Jan 17 j 10:10	0°ප		desc. node	365 Jul 11 j 17:02	4° m) 39'53	
desc. node	363 Jan 24 j 22:01	9° ට 15'54		evening max el	365 Jul 18 j 20:36	11° m)41'12	45°54'33
	363 Feb 10 j 16:26	0° ≈			365 Aug 09 j 02:09	0∘ 亚	
	363 Mar 06 j 23:17	0° ∀		greatest brilliancy	365 Aug 27 j 22:34	10° ≙ 25'31	-4.8m
	363 Mar 31 j 07:25	$0^{\circ}\Upsilon$		retrograde	365 Sep 06 j 00:51	11° ≙ 56'05	
morning set	363 Apr 02 j 06:19	2° Y 24'21		evening set	365 Sep 23 j 01:31	6° ≙ 27'14	
	363 Apr 24 j 16:52	0°8		inferior conj	365 Sep 26 j 20:03	4° ≏ 11'46	
				minimum elong	365 Sep 27 j 05:34	3° ≙ 57'17	
superior conj	363 May 09 j 08:58	18° 8 01'24		min. Earth dist.	365 Sep 27 j 16:14	3° £ 41'04	0.27261 AU
minimum elong	363 May 09 j 13:06	18° 8 14'07		morning rise	365 Oct 01 j 09:17	1° Ω 29'03	
max. Earth dist.	363 May 09 j 11:31	18° 8 09'14 28° 8 40'52	1.73597 AU	direct	365 Oct 17 i 16:47	30°RM⊅ 26°M20'07	
asc. node	363 May 18 j 01:17 363 May 19 j 03:04	28° O 40′52 0° Ⅱ		greatest brilliancy	365 Oct 17 j 16:47 365 Oct 28 j 17:30	26° Mp 20'07 28° Mp 38'13	-4.9m
	363 Jun 12 j 13:18	0°©		greatest orillation	365 Oct 31 j 19:22	0∘ ʊ	7.7111
evening rise	363 Jun 14 j 13:13	0 S 2°S27'11		asc. node	365 Nov 01 j 20:09	0° ₽ 30'59	
	363 Jul 06 j 23:16	0°Ω		morning max el	365 Dec 07 j 13:10	29° ≏ 57'06	46°56'21
	363 Jul 31 j 09:38	0° m)			365 Dec 07 j 14:18	0° ™	
	363 Aug 24 j 21:50	0∘ <mark>ಹ</mark>			366 Jan 04 j 02:44	0° ∡ 7	
desc. node	363 Sep 06 j 14:45	15° ≏ 29'26			366 Jan 29 j 21:11	8°0	
	363 Sep 18 j 13:32	0° M ₊		desc. node	366 Feb 21 j 09:52	26° පි 51'31	
	363 Oct 13 j 11:11	0° ∡ ¹			366 Feb 24 j 00:40	0° ≈	

	366 Mar 20 j 21:53	0° ∀		retrograde	368 Nov 19 j 20:20	27° ∡¹ 45'56	
	366 Apr 14 j 16:10	$0^{\circ}\Upsilon$		asc. node	368 Nov 29 j 08:02	25° ₹ 55′20	
	366 May 09 j 08:32	$_{0\circ}$ 8		evening set	368 Dec 04 j 05:43	23° ҂ ³38'30	
	366 Jun 02 j 22:41	Π $^{\circ}0$		inferior conj	368 Dec 10 j 09:43	20° ⋌ ¹00'39	2°49'39
morning set	366 Jun 09 j 06:31	7° Ⅱ 44'25		minimum elong	368 Dec 10 j 03:35	20° √ 10′04	2°47'45
asc. node	366 Jun 14 j 13:10	14° Ⅱ 12'22		min. Earth dist.	368 Dec 09 j 19:50	20° ∡ ¹21'58	0.26457 AU
	366 Jun 27 j 09:45	0ංම		morning rise	368 Dec 16 j 01:50	16° ∡ ¹39'56	
max. Earth dist.	366 Jul 12 j 06:17	18°9518'31	1.73143 AU	direct	368 Dec 30 j 17:12	12° ҂ ²24'31	
	J			greatest brilliancy	369 Jan 09 j 05:57	14° √ 07'47	-4.9m
superior conj	366 Jul 15 j 13:16	22°522'25	1°04'42	8	369 Feb 03 j 00:18	0°る	
minimum elong	366 Jul 15 j 04:38	21°955'45	1°04'25	morning max el	369 Feb 18 j 16:05	14°₹31′08	46°33'29
minimum ciong	366 Jul 21 j 17:15	0° Ω	1 0123	morning max or	369 Mar 05 j 16:33	0°≈	10 33 27
	366 Aug 14 j 21:42	0° m y		desc. node	369 Mar 20 j 21:42	0 ∞ 16°≈35'10	
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	366 Oct 02 j 03:17	0°M			369 May 23 j 06:51	0°8	
desc. node	366 Oct 04 j 02:42	2°M27'19			369 Jun 17 j 08:35	$\Pi^{\circ}0$	
	366 Oct 26 j 07:09	0° ∡ 7		asc. node	369 Jul 12 j 00:54	29° Ⅱ 55'43	
	366 Nov 19 j 13:29	0°ಕ			369 Jul 12 j 02:18	0_{\circ} වෙ	
	366 Dec 14 j 01:21	0° ≈			369 Aug 05 j 12:24	$0 {\circ} \Omega$	
	367 Jan 08 j 01:48	0° ∀		morning set	369 Aug 16 j 08:51	13° Ω 26'36	
asc. node	367 Jan 25 j 05:43	19° ¥ 53′08			369 Aug 29 j 16:06	0° m	
	367 Feb 03 j 06:35	0° Υ		max. Earth dist.	369 Sep 20 j 01:11	26° Mp 44'19	1.71640 AU
evening max el	367 Feb 24 j 02:43	21° Y 53'51	46°02'27		1 3	•	
	367 Mar 04 j 14:58	0°8		superior conj	369 Sep 22 j 21:24	0° £ 18′07	1°15'06
greatest brilliancy	367 Apr 03 j 11:57	20° 8 45'22	-4.8m	minimum elong	369 Sep 22 j 21:21 369 Sep 23 j 05:48	0° ≏ 44'29	
-		22° 8 54'58	-4.0111	minimum clong		0° ⊡	1 1433
retrograde	367 Apr 14 j 09:48				369 Sep 22 j 15:37		
evening set	367 Apr 29 j 21:27	18° 8 15'22	2022110		369 Oct 16 j 13:15	0°M	
inferior conj	367 May 05 j 19:43	14° 8 39'15	2°32'10	desc. node	369 Oct 31 j 14:41	18°M54'47	
minimum elong	367 May 06 j 01:02	14° 8 30'51	2°30'41	evening rise	369 Nov 01 j 21:47	20°M32'23	
min. Earth dist.	367 May 05 j 23:35	14° 8 33'08	0.28959 AU		369 Nov 09 j 10:40	0° ∡	
morning rise	367 May 12 j 04:51	10° 8 48'33			369 Dec 03 j 08:57	0°ප	
desc. node	367 May 16 j 19:17	8° 8 34'43			369 Dec 27 j 09:26	0° ≈	
direct	367 May 27 j 11:01	6° 8 21'02			370 Jan 20 j 14:38	0° ∀	
greatest brilliancy	367 Jun 06 j 17:28	8° 8 15'08	-4.7m		370 Feb 14 j 04:42	0 ° Υ	
	367 Jul 08 j 15:42	$\Pi^{\circ}0$		asc. node	370 Feb 21 j 17:36	9° Ƴ 03'57	
morning max el	367 Jul 15 j 06:39	6° Ⅱ 09'51	45°48'57		370 Mar 11 j 10:07	8°	
Ü	367 Aug 07 j 12:31	0°ಅ			370 Apr 06 j 18:46	Π $^{\circ}$ 0	
	367 Sep 03 j 04:03	0°N		evening max el	370 May 05 j 14:36	29° I 57'33	45°19'05
asc. node	367 Sep 06 j 22:34	4° Ω 24'14		evening max er	370 May 05 j 15:37	0°9	15 17 05
asc. node	367 Sep 28 j 09:50	0° m)		greatest brilliancy	370 Jun 12 j 15:06	27° 9 34'01	-4.7m
		0∘ ت رااا		-			-4 ./III
	367 Oct 22 j 21:21			desc. node	370 Jun 13 j 07:14	27°548'08	
	367 Nov 15 j 23:34	0° M ₊		retrograde	370 Jun 23 j 03:09	29°532'55	
	367 Dec 09 j 22:10	0° ∡ ¹		evening set	370 Jul 09 j 04:43	24°5540'10	
desc. node	367 Dec 27 j 12:13	22° ∡ 03'13		inferior conj	370 Jul 14 j 13:23	21° © 27'32	
	368 Jan 02 j 20:22	0°ಕ		minimum elong	370 Jul 14 j 03:23	21°5643'00	
morning set	368 Jan 16 j 02:29	16° පි 36'01		min. Earth dist.	370 Jul 14 j 17:32	21° © 21'06	0.28768 AU
	368 Jan 26 j 19:42	0° ≈		morning rise	370 Jul 19 j 01:43	18°9542'48	
	368 Feb 19 j 21:04	0° ∀		direct	370 Aug 05 j 02:47	13° © 12'46	
				greatest brilliancy	370 Aug 15 j 23:34	15° © 20'25	-4.8m
superior conj	368 Feb 25 j 17:02	7° ¥ 15′01	-1°25'06		370 Sep 08 j 00:01	$0 {\circ} \Omega$	
minimum elong	368 Feb 25 j 19:12	7° ¥ 21'44	1°25'05	morning max el	370 Sep 23 j 22:47	14° Ω 41'30	46°25'37
max. Earth dist.	368 Feb 29 j 17:32	12° ¥ 14'39	1.72398 AU	asc. node	370 Oct 04 j 10:28	25° Ω 29'23	
	368 Mar 15 j 01:18	0° Ƴ			370 Oct 08 j 15:22	0° m)	
evening rise	368 Apr 04 j 11:45	25° Υ 13'10			370 Nov 04 j 01:59	0∘ <mark>ಹ</mark> ಂ.ಗ	
evening rise	368 Apr 08 j 08:59	0°8			370 Nov 29 j 03:10	0° ™	
aga mada		12° 8 36'46			-	0° ⊼	
asc. node	368 Apr 18 j 15:29				370 Dec 23 j 14:54		
	368 May 02 j 20:24	0°Ⅱ 10°0		1 1	371 Jan 16 j 21:46	0°る	
	368 May 27 j 11:43	0°©		desc. node	371 Jan 24 j 00:01	8° ප 46'31	
	368 Jun 21 j 07:49	0 $^{\circ}$ Ω			371 Feb 10 j 03:40	0° ≈	
	368 Jul 16 j 11:05	0° т р			371 Mar 06 j 10:15	0° ∀	
desc. node	368 Aug 08 j 04:48	26° m 39'11		morning set	371 Mar 30 j 22:22	0° Υ 12'54	
	368 Aug 11 j 02:15	0∘ ⊽			371 Mar 30 j 18:11	$0^{\circ}\mathbf{\Upsilon}$	
	368 Sep 06 j 15:29	0° M .			371 Apr 24 j 03:30	8° 0	
evening max el	368 Sep 30 j 08:02	24°M58'29	47°07'06				
-	368 Oct 05 j 11:10	0° ∡ ¹		superior conj	371 May 07 j 02:40	15° 8 55'48	-0°23'29
greatest brilliancy	368 Nov 09 j 22:07	25° ∡ ¹53'40	-4.9m	minimum elong	371 May 07 j 07:25	16° 8 10'22	
Gy				viong	0, j 0,.23	01022	

max. Earth dist.	371 May 07 j 08:14	16° 8 12'56	1.73586 AU	morning rise	373 Sep 28 j 18:37	29° m 11'15	
asc. node	371 May 17 j 03:23	28° 8 14'46		direct	373 Oct 15 j 06:54	23° m 56'34	
	371 May 18 j 13:40	Π°		greatest brilliancy	373 Oct 26 j 07:12	26° Mp 13'52	-4.9m
	371 Jun 11 j 23:57	0 \circ \odot		asc. node	373 Oct 31 j 22:14	28° m 55'00	
evening rise	371 Jun 12 j 08:14	0°525'26			373 Nov 02 j 19:28	0∘ ⊽	
	371 Jul 06 j 10:06	$0^{\circ}\Omega$		morning max el	373 Dec 05 j 02:40	27° ≏ 31'40	46°56'01
	371 Jul 30 j 20:49	0° m ∕			373 Dec 07 j 12:17	0°M₊	
	371 Aug 24 j 09:29	0∘ 亚			374 Jan 03 j 18:52	0° ∡ ¹	
desc. node	371 Sep 05 j 16:49	14° ≙ 59'18			374 Jan 29 j 11:02	0°ප	
	371 Sep 18 j 01:52	0° M .		desc. node	374 Feb 20 j 11:54	26° る 19'27	
	371 Oct 13 j 00:33	0° ∡ ¹			374 Feb 23 j 13:16	0° ≈	
	371 Nov 07 j 11:46	0°₹			374 Mar 20 j 09:41	0° ∀	
	371 Dec 04 j 06:25	0° ≈			374 Apr 14 j 03:25	0° Υ	
evening max el	371 Dec 12 j 08:41	8°≈28'28	47°13'48		374 May 08 j 19:25	0°8	
asc. node	371 Dec 27 j 19:57	23°≈19'10			374 Jun 02 j 09:22	0° I	
	372 Jan 04 j 20:57	0° ∀	4.0	morning set	374 Jun 07 j 01:03	5° ∏ 41'40	
greatest brilliancy	372 Jan 21 j 18:50	10° ¥ 06'55	-4.9m	asc. node	374 Jun 13 j 15:08	13° Ⅱ 45'50	
retrograde	372 Feb 01 j 08:09	12°) 14'38		D. d. F.	374 Jun 26 j 20:22	0°9	1 72107 444
evening set	372 Feb 19 j 06:21	5° ¥ 58'50	0020127	max. Earth dist.	374 Jul 10 j 00:25	16° © 13'36	1.73187 AU
inferior conj	372 Feb 22 j 09:46	4° ¥ 00′52			274 1 1 12:07 20	200510110	1002120
minimum elong	372 Feb 22 j 10:48	3° ¥ 59'16 4° ¥ 22'59		superior conj	374 Jul 13 j 07:39	20°518'10	1°02'38
min. Earth dist.	372 Feb 21 j 19:46	4° H 22′59 1° H 59′54	0.28135 AU	minimum elong	374 Jul 12 j 22:58	19° © 51'21 0° Ω	1°02'20
morning rise	372 Feb 25 j 15:27 372 Feb 29 j 02:47	1°π3934 30°R≈			374 Jul 21 j 03:54 374 Aug 14 j 08:30	0° m y	
direct	372 Mar 14 j 08:33	30 k∞ 25°≈57'25		evening rise	374 Aug 14 j 08.30 374 Aug 18 j 11:34	5° Mp 07'45	
greatest brilliancy	372 Mar 23 j 12:20	27°≈30'55	1 8m	evening rise	374 Sep 07 j 11:32	ე° 亞	
greatest offinancy	372 Mar 29 j 12:51	27 ≈ 30 33	-4.0111		374 Sep 07 j 11.32 374 Oct 01 j 14:34	0° M	
desc. node	372 Apr 17 j 09:32	12°) 48'28		desc. node	374 Oct 01 j 14.54 374 Oct 03 j 04:50	1°ML58'54	
morning max el	372 Apr 17 j 05:52 372 May 02 j 10:04	26°)(17'37	45°53'18	desc. node	374 Oct 05 j 04.30 374 Oct 25 j 18:46	0° ⊼	
morning max cr	372 May 02 j 10:04 372 May 06 j 05:37	0° Υ	43 33 10		374 Nov 19 j 01:33	°ਤ	
	372 Jun 03 j 20:03	0°8			374 Dec 13 j 14:05	0° ≈	
	372 Jun 30 j 10:08	0°II			375 Jan 07 j 15:44	0°) €	
	372 Jul 25 j 23:48	0°©		asc. node	375 Jan 24 j 07:44	19° ∺ 15'06	
asc. node	372 Aug 08 j 12:46	16°914'19			375 Feb 02 j 23:16	$0^{\circ}\mathbf{\Upsilon}$	
	372 Aug 19 j 20:50	0°N		evening max el	375 Feb 21 j 17:43	19° Ƴ 38'55	46°04'56
	372 Sep 13 j 05:44	0° m)		C	375 Mar 04 j 17:16	9° 8	
	372 Oct 07 j 06:42	0∘ ⊽		greatest brilliancy	375 Apr 01 j 05:54	18° 8 38'17	-4.8m
greatest brilliancy	372 Oct 22 j 01:37	18° ≏ 34'29	-3.9m	retrograde	375 Apr 12 j 02:04	20° 8 46'40	
morning set	372 Oct 27 j 11:10	25° ≙ 21'55		evening set	375 Apr 27 j 15:58	16° 8 04'35	
	372 Oct 31 j 03:33	0°M₊		inferior conj	375 May 03 j 12:21	12° 8 30'59	2°50'51
	372 Nov 23 j 23:12	0°⊀		minimum elong	375 May 03 j 18:15	12° 8 21'40	2°49'14
desc. node	372 Nov 28 j 02:25	5° ∡ 12'16		min. Earth dist.	375 May 03 j 16:30	12° 8 24'25	0.28949 AU
				morning rise	375 May 09 j 20:42	8° 8 40'55	
superior conj	372 Dec 07 j 15:47	17° ∡ 14′02		desc. node	375 May 15 j 21:16	5° 8 53'41	
minimum elong	372 Dec 07 j 09:50	16° ₹ 55′16	0°22'13	direct	375 May 25 j 03:02	4° 8 12'59	
max. Earth dist.	372 Dec 09 j 18:43		1.71077 AU	greatest brilliancy	375 Jun 04 j 09:16	6° 8 06'23	-4.7m
	372 Dec 17 j 19:22	0°ਰ			375 Jul 08 j 16:19	$\Pi^{\circ}0$	
	373 Jan 10 j 17:09	0° ≈		morning max el	375 Jul 12 j 21:33	3° Ⅱ 57'51	45°48'13
evening rise	373 Jan 18 j 06:26	9° ≈ 27'11			375 Aug 07 j 04:40	0°9	
	373 Feb 03 j 17:44	0° ∀			375 Sep 02 j 17:35	0° Ω	
,	373 Feb 27 j 22:52	0° Υ		asc. node	375 Sep 06 j 00:45	3° £ 51'33	
asc. node	373 Mar 21 j 05:42	26° Y 05'54			375 Sep 27 j 22:13	0° ™	
	373 Mar 24 j 10:37	0° B			375 Oct 22 j 09:11	0° ™	
	373 Apr 18 j 07:27	0° ©			375 Nov 15 j 11:05 375 Dec 09 j 09:29	0° M 0° ∡ 7	
	373 May 13 j 16:59	0° U 0 €3		desc. node	•	0 x . 21° x 34'22	
	373 Jun 08 j 22:56 373 Jul 06 j 22:29	0° m p		uese. Hout	375 Dec 26 j 14:12 376 Jan 02 j 07:31	21° x '3422	
desc. node	373 Jul 10 j 19:01	3° m , 52'39		morning set	376 Jan 13 j 12:25	14° පි 02'15	
evening max el	373 Jul 16 j 11:03	9° Mg 25'00	45°52'07	morning set	376 Jan 15 j 12.23 376 Jan 26 j 06:43	0°≈	
Croming must of	373 Aug 09 j 22:15	0∘ ⊽	15 52 07		376 Feb 19 j 07:59	0° ∺	
greatest brilliancy	373 Aug 05 j 22:13	8° ≏ 03'24	-4.8m		5,01 0 0 17 j 01.57	~ /\	
retrograde	373 Sep 03 j 13:20	9° ₽ 33'42		superior conj	376 Feb 23 j 06:08	4°) 52'45	-1°25'24
evening set	373 Sep 20 j 17:29	4° £ 00′38		minimum elong	376 Feb 23 j 07:23	4°) 56'35	
inferior conj	373 Sep 24 j 09:10	1° ≏ 48'58	-7°48'18	max. Earth dist.	376 Feb 27 j 07:55		1.72339 AU
minimum elong	373 Sep 24 j 18:12				376 Mar 14 j 12:10	0°Υ	
min. Earth dist.	373 Sep 25 j 05:17		0.27324 AU	evening rise	376 Apr 02 j 03:19	22° Y 59'53	
	373 Sep 27 j 09:13	30° ₽, M p		-	376 Apr 07 j 19:52	0°8	
		-			- *		

asc. node	376 Apr 17 j 17:35	12° 8 09'48			378 Dec 23 j 03:20	0° ∡ ¹	
	376 May 02 j 07:24	Π $^{\circ}0$			379 Jan 16 j 09:44	0°ರ	
	376 May 26 j 22:59	0 \circ \odot		desc. node	379 Jan 23 j 02:08	8° ප 16'25	
	376 Jun 20 j 19:37	$0^{\circ}\Omega$			379 Feb 09 j 15:17	0° ≈	
	376 Jul 15 j 23:48	O° Mp			379 Mar 05 j 21:34	0° ∀	
desc. node	376 Aug 07 j 06:54	26° m 04'30		morning set	379 Mar 28 j 14:07	27° ¥ 59'22	
dese. node	376 Aug 10 j 16:35	0∘ ʊ		morning sec	379 Mar 30 j 05:17	0° Υ	
	376 Sep 06 j 09:02	0° m			379 Apr 23 j 14:27	0°8	
			47905100		3/9 Apr 23 j 14.27	0.0	
evening max el	376 Sep 27 j 20:20	22°M30'48	47°05'00		200 14 04 00 12	120140147	00000
	376 Oct 05 j 13:53	0° ∡ 7		superior conj	379 May 04 j 20:13	13° 8 48'47	
greatest brilliancy	376 Nov 07 j 12:06	23° х 24′56	-4.9m	minimum elong	379 May 05 j 01:33	14° 8 05'09	
retrograde	376 Nov 17 j 08:20	25° ≯ 15'43		max. Earth dist.	379 May 05 j 06:54	14° 8 21'34	1.73570 AU
asc. node	376 Nov 28 j 10:04	22° ҂ ¹46′05		asc. node	379 May 16 j 05:21	27° 8 47'24	
evening set	376 Dec 01 j 17:06	21° 渘 ¹09'34			379 May 18 j 00:34	$\Pi^{\circ}0$	
inferior conj	376 Dec 07 j 21:55	17° ∡ ³31′22	2°26'12	evening rise	379 Jun 10 j 03:23	28° Ⅲ 23′13	
minimum elong	376 Dec 07 j 16:33	17° ∡ ³39'35	2°24'31		379 Jun 11 j 10:55	0°ම	
min. Earth dist.	376 Dec 07 j 09:46	17° ∡ ¹49'59	0.26430 AU		379 Jul 05 j 21:16	$0^{\circ}\Omega$	
morning rise	376 Dec 13 j 16:15	14° ₹ 07'48			379 Jul 30 j 08:18	0° m)	
direct	376 Dec 28 j 04:34	9° ₹ 55'15			379 Aug 23 j 21:27	0∘ <u>ಹ</u>	
greatest brilliancy	377 Jan 06 j 20:12	11° × ⁷ 40'55	-1 9m	desc. node	379 Sep 04 j 19:01	0 — 14° Ω 28'42	
greatest offinality		0°중	- 1 .7III	desc. node		0°M	
	377 Feb 03 j 08:29		46025105		379 Sep 17 j 14:31		
morning max el	377 Feb 16 j 04:59	12° පි 06'12	46°35'05		379 Oct 12 j 14:16	0° ∡ ¹	
	377 Mar 05 j 11:06	0° ≈			379 Nov 07 j 03:24	0° ට	
desc. node	377 Mar 19 j 23:55	15° ≈ 56′28			379 Dec 04 j 02:31	0° ≈	
	377 Apr 01 j 10:46	0° ∀		evening max el	379 Dec 10 j 00:52	6° ≈ 10′26	47°15'07
	377 Apr 27 j 09:06	0 ° Υ		asc. node	379 Dec 26 j 22:00	22° ≈ 14'49	
	377 May 22 j 18:52	9° 8			380 Jan 05 j 15:22	0° ∀	
	377 Jun 16 j 20:01	$\Pi^{\circ}0$		greatest brilliancy	380 Jan 19 j 09:51	7°) 47′03	-4.9m
asc. node	377 Jul 11 j 03:00	29° Ⅲ 28′17		retrograde	380 Jan 30 j 00:05	9° ¥ 55'16	
	377 Jul 11 j 13:23	0°ಅ		evening set	380 Feb 16 j 21:05	3°) 40′18	
	377 Aug 04 j 23:18	$0^{\circ}\Omega$		min. Earth dist.	380 Feb 19 j 09:21	2° ₩ 06'14	0.28079 AU
morning set	377 Aug 14 j 01:30	11° Ω 15′28		inferior conj	380 Feb 20 j 00:43	1°) (41'59	8°40'46
morning sec	377 Aug 29 j 02:59	0°m		minimum elong	380 Feb 20 j 00:56	1°) €41'38	8°40'46
max. Earth dist.	377 Sep 17 j 15:47	24° Mp 25'19	1.71692 AU	minimum ciong	380 Feb 22 j 18:02	30°R≈	8 40 40
max. Earm dist.	3// Sep 1/ J 13.4/	24 11/23 19	1./1092 AU				
	277.5 20:11.51	270 m. 5012 5	1017140	morning rise	380 Feb 23 j 05:03	29°≈43'12	
superior conj	377 Sep 20 j 11:51	27° m 58'35		direct	380 Mar 11 j 23:25	23°≈39'41	4.0
minimum elong	377 Sep 20 j 19:43	28°m/23'12	1°16'30	greatest brilliancy	380 Mar 21 j 01:01	25°≈11'49	-4.8m
	377 Sep 22 j 02:36	0∘ ಹ			380 Mar 31 j 08:18	0° ∀	
	377 Oct 16 j 00:22	0°M₊		desc. node	380 Apr 16 j 11:31	11° 光 45′55	
evening rise	377 Oct 30 j 08:43	18° ™ 00'58		morning max el	380 Apr 30 j 01:39	24° ₭ 04'35	45°54'15
desc. node	377 Oct 30 j 16:43	18° M ⋅26′02			380 May 06 j 02:51	0 ° Υ	
	377 Nov 08 j 21:55	0° ∡ ¹			380 Jun 03 j 11:34	0° 8	
	377 Dec 02 j 20:21	0°ප			380 Jun 29 j 23:26	$\Pi^{\circ}0$	
	377 Dec 26 j 21:02	0° ≈			380 Jul 25 j 12:02	0°ම	
	378 Jan 20 j 02:30	0° ∀		asc. node	380 Aug 07 j 14:54	15° 5 44'49	
	378 Feb 13 j 17:06	$_{0}^{\circ}\Upsilon$			380 Aug 19 j 08:31	$0^{\circ}\Omega$	
asc. node	378 Feb 20 j 19:49	8° Ƴ 32'47			380 Sep 12 j 17:08	0° m)	
use. Houe	378 Mar 10 j 23:33	0° と			380 Oct 06 j 17:58	0∘ <mark>ಹ</mark> ಂ.ಗ	
	·	0°II		greatest brilliancy		0 ─ 18° 亞 18'07	2 0m
	378 Apr 06 j 10:34		45010100	-	380 Oct 21 j 07:38		-3.9111
evening max el	378 May 03 j 06:37	27° Ⅱ 47'19	45°19'29	morning set	380 Oct 24 j 23:40	22° £ 54'57	
	378 May 05 j 14:33	0°©			380 Oct 30 j 14:46	0° M ₊	
greatest brilliancy	378 Jun 10 j 04:58	25° © 21'48	-4.7m		380 Nov 23 j 10:24	0° ∡ ¹	
desc. node	378 Jun 12 j 09:17	26° © 04'56		desc. node	380 Nov 27 j 04:28	4° ≯ ¹43'30	
retrograde	378 Jun 20 j 19:22	27° © 22'38					
evening set	378 Jul 06 j 17:41	22° © 33'18		superior conj	380 Dec 05 j 01:31	14° ∡ ³38′23	-0°18'37
inferior conj	378 Jul 12 j 05:14	19° © 16'31	-6°16'42	minimum elong	380 Dec 04 j 20:33	14° ∡ "22'44	0°18'24
minimum elong	378 Jul 11 j 19:13	19° 5 32'01	6°14'40	max. Earth dist.	380 Dec 07 j 03:09	17° ∡ 14'31	1.71061 AU
min. Earth dist.	378 Jul 12 j 08:41	19° © 11'11	0.28791 AU		380 Dec 17 j 06:35	0°ჳ	
morning rise	378 Jul 16 j 20:28	16° © 27'46			381 Jan 10 j 04:24	0° ≈	
direct	378 Aug 02 j 19:14	11°9501'22		evening rise	381 Jan 15 j 17:09	6°≈55'28	
greatest brilliancy	378 Aug 13 j 15:04	13°508'31	-4.8m		381 Feb 03 j 05:02	0° ₩	
or entrost orinitation	378 Sep 08 j 06:30	0°Ω			381 Feb 27 j 10:16	0° Υ	
morning max el	378 Sep 21 j 15:02	12° Ω 28'09	46°24'08	asc. node	381 Mar 20 j 07:44	25° Y 36'38	
•			+U 4+U0	asc. nout	-		
asc. node	378 Oct 03 j 12:32	24° Ω 45'00			381 Mar 23 j 22:18	0° Β	
	378 Oct 08 j 09:09	0° m			381 Apr 17 j 19:39	0° Ⅱ	
	378 Nov 03 j 16:32	0∘ 亚			381 May 13 j 06:13	0°©	
	378 Nov 28 j 16:21	0°M₊			381 Jun 08 j 14:17	0 ° Ω	

	381 Jul 06 j 19:07	0° m)			384 Jan 01 j 18:51	0°ಕ	
desc. node	381 Jul 09 j 21:09	3° Mp 04'03		morning set	384 Jan 10 j 22:27	11° る 28'09	
evening max el	381 Jul 14 j 00:51	7° m) 06'20	45°49'45		384 Jan 25 j 17:53	0°≈	
<i>y</i>	381 Aug 11 j 02:10	0∘ <u>⊽</u>			384 Feb 18 j 19:02	0°) €	
greatest brilliancy	381 Aug 22 j 23:41	5° ≏ 41'31	-4.8m		J		
retrograde	381 Sep 01 j 01:32	7° ₽ 11'14		superior conj	384 Feb 20 j 19:24	2°) 30′28	-1°25'32
evening set	381 Sep 18 j 09:30	1° ≏ 34'04		minimum elong	384 Feb 20 j 19:43	2°) 31′25	1°25'33
	381 Sep 21 j 00:19	30°R, Mp		max. Earth dist.	384 Feb 24 j 20:34	7°) 32′29	1.72279 AU
inferior conj	381 Sep 21 j 22:30	29° m 26'07	-7°58'24		384 Mar 13 j 23:09	0 ° Υ	
minimum elong	381 Sep 22 j 07:00	29° m 13'07	7°57'14	evening rise	384 Mar 30 j 19:02	20° Y 46'36	
min. Earth dist.	381 Sep 22 j 18:51	28° m 54'59	0.27387 AU		384 Apr 07 j 06:53	$0^{\circ}S$	
morning rise	381 Sep 26 j 04:12	26° m 53'23		asc. node	384 Apr 16 j 19:35	11° 8 42'05	
direct	381 Oct 12 j 20:43	21°Mp32'45			384 May 01 j 18:33	$\Pi^{\circ}0$	
greatest brilliancy	381 Oct 23 j 21:40	23° m 49'59	-4.9m		384 May 26 j 10:27	0°9	
asc. node	381 Oct 31 j 00:11	27° m/21'37			384 Jun 20 j 07:37	0° N	
marning may al	381 Nov 04 j 04:07	0° ჲ 25° ჲ 03'56	46°55'51	desc. node	384 Jul 15 j 12:45	0°Mp 25°m20110	
morning max el	381 Dec 02 j 15:35 381 Dec 07 j 09:44	0°M	40 33 31	desc. node	384 Aug 06 j 09:02	25° ™ 29'19 0° ≏	
	382 Jan 03 j 10:59	0 IIL 0° √			384 Aug 10 j 07:12 384 Sep 06 j 03:03	0°M	
	382 Jan 29 j 00:59	0° ਠ		evening max el	384 Sep 25 j 09:07	20°M04'32	47°03'02
desc. node	382 Feb 19 j 14:05	್ತ್ 25° ठ 47'12		evening max er	384 Oct 05 j 18:14	0°×7	47 03 02
	382 Feb 23 j 02:04	0° ≈		greatest brilliancy	384 Nov 05 j 01:36	20° ₹ 55'48	-4.9m
	382 Mar 19 j 21:46	0° ∀		retrograde	384 Nov 14 j 20:49	22° ∡ ⁴45'50	
	382 Apr 13 j 15:00	0° Υ		asc. node	384 Nov 27 j 12:13	19° ∡ ³32'10	
	382 May 08 j 06:40	0° ႘		evening set	384 Nov 29 j 04:49	18° ∡ ¹40′20	
	382 Jun 01 j 20:24	Π $^{\circ}0$		inferior conj	384 Dec 05 j 10:11	15° ∡ 02'05	2°02'24
morning set	382 Jun 04 j 19:25	3° Ⅱ 37'18		minimum elong	384 Dec 05 j 05:38	15° ∡ 09'02	2°00'58
asc. node	382 Jun 12 j 17:16	13° Ⅱ 18'46		min. Earth dist.	384 Dec 04 j 23:31	15° ∡ 18′22	0.26410 AU
	382 Jun 26 j 07:19	0		morning rise	384 Dec 11 j 06:37	11° ∡ ³36′04	
max. Earth dist.	382 Jul 07 j 19:01	14° © 09'15	1.73227 AU	direct	384 Dec 25 j 16:37	7° ∡ ¹25'52	
	202 7 1 11:02.02	100013101	1000100	greatest brilliancy	385 Jan 04 j 10:17	9° ∡ 13'45	-4.9m
superior conj	382 Jul 11 j 02:02	18°9513'01	1°00'28		385 Feb 03 j 14:23	0°궁 9° 궁 43'51	46°36'40
minimum elong	382 Jul 10 j 17:19 382 Jul 20 j 14:51	17° © 46'08 0° Ω	1°00'11	morning max el	385 Feb 13 j 19:00 385 Mar 05 j 05:15	9° ≈	40 30 40
	382 Aug 13 j 19:33	0° m)		desc. node	385 Mar 19 j 01:52	0 ≈ 15°≈17'22	
evening rise	382 Aug 16 j 04:23	2° m) 56'25		dese. Hode	385 Apr 01 j 01:22	0° ∀	
e vennig 1150	382 Sep 06 j 22:49	0∘ ⊽			385 Apr 26 j 22:01	0° Υ	
	382 Oct 01 j 02:09	0° M .			385 May 22 j 06:51	0°8	
desc. node	382 Oct 02 j 06:49	1°M29'03			385 Jun 16 j 07:27	$\Pi^{\circ}0$	
	382 Oct 25 j 06:42	0° ∡ ¹		asc. node	385 Jul 10 j 05:09	29° Ⅱ 00'55	
	382 Nov 18 j 13:55	ర°0			385 Jul 11 j 00:30	0ංම	
	382 Dec 13 j 03:06	0° ≈			385 Aug 04 j 10:16	0 $^{\circ}$ Ω	
	383 Jan 07 j 06:00	0° ∀		morning set	385 Aug 11 j 18:08	9° Ω 04'15	
asc. node	383 Jan 23 j 09:55	18°) 36′37			385 Aug 28 j 13:56	0° т р	
	383 Feb 02 j 16:29	0°Υ		max. Earth dist.	385 Sep 15 j 05:39	22° Mp 04'04	1.71739 AU
evening max el	383 Feb 19 j 08:02	17° Y 21'36	46°07'20		205 0 10 : 02 10	250m 20107	1010107
	383 Mar 04 j 21:30	0° 8	4 0	superior conj	385 Sep 18 j 02:19	25° Mp 39'07 26° Mp 01'47	
greatest brilliancy retrograde	383 Mar 29 j 23:27 383 Apr 09 j 18:21	16° 8 29'51 18° 8 37'41	-4.8m	minimum elong	385 Sep 18 j 09:34 385 Sep 21 j 13:35	20 MJ014/ 0° ჲ	1 1/3/
evening set	383 Apr 05 j 10:21 383 Apr 25 j 10:35	13° 8 52'36			385 Oct 15 j 11:27	0° M	
inferior conj	383 May 01 j 05:01	10° 8 21'53	3°09'18	evening rise	385 Oct 27 j 19:42	15°ML29'47	
minimum elong	383 May 01 j 11:28	10° 8 11'42	3°07'32	desc. node	385 Oct 29 j 18:44	17°M57'22	
min. Earth dist.	383 May 01 j 09:37	10° 8 14'39	0.28943 AU		385 Nov 08 j 09:08	0° ∡ 7	
morning rise	383 May 07 j 12:26	6° 8 32'46			385 Dec 02 j 07:43	0°ರ	
desc. node	383 May 14 j 23:20	3° 8 16'01			385 Dec 26 j 08:37	0° ≈	
direct	383 May 22 j 18:47	2° 8 03'50			386 Jan 19 j 14:24	0° ∀	
greatest brilliancy	383 Jun 02 j 01:41	3° 8 57'24	-4.7m		386 Feb 13 j 05:31	0 ° $\mathbf{\gamma}$	
	383 Jul 08 j 16:11	0°II		asc. node	386 Feb 19 j 21:50	8° Y 00′58	
morning max el	383 Jul 10 j 12:54	1° Ⅱ 46′00	45°47'40		386 Mar 10 j 13:03	0°8	
	383 Aug 06 j 20:50	0° ©			386 Apr 06 j 02:32	0°II	4504015
	383 Sep 02 j 07:13	0°N		evening max el	386 Apr 30 j 23:10	25° Ⅱ 38'40	45°19'56
asc. node	383 Sep 05 j 02:51	3° Ω 18'09		grantt b-::11	386 May 05 j 14:24	0°95	4.7
	383 Sep 27 j 10:44	0 ்⊽ 0 ்ம்		greatest brilliancy desc. node	386 Jun 07 j 19:02	23°5010'15	-4.7m
	383 Oct 21 j 21:08 383 Nov 14 j 22:45	0° ™		retrograde	386 Jun 11 j 11:23 386 Jun 18 j 11:28	24°©18'18 25°©12'28	
	383 Nov 14 j 22.43 383 Dec 08 j 20:59	0 IIL 0° √		evening set	386 Jul 18 j 11.28 386 Jul 04 j 06:49	23 \$12 28 20°\$26'41	
desc. node	383 Dec 08 j 20:39 383 Dec 25 j 16:21	21° ∡ ¹05'30		inferior conj	386 Jul 09 j 21:04	20 \$2041 17°\$05'45	-6°02'20
acce. node	505 200 20 j 10.21	-1 × 05 50			500 tai 07 j 21.04	1, -0545	0 0220

	207 1-1 00:11:05	170621112	C900!14	habind and basin	200 D 01 : 10-21	110.7110111	
minimum elong min. Earth dist.	386 Jul 09 j 11:05 386 Jul 09 j 23:46	17° © 21'13 17° © 01'33	6°00'14 0.28814 AU	behind sun begin behind sun end	388 Dec 01 j 18:21 388 Dec 02 j 19:33	11° ∡ 10'11 12° ∡ 29'29	
morning rise	386 Jul 14 j 15:08	17 3 01 33	0.20014 AU	max. Earth dist.	388 Dec 02 j 19.33 388 Dec 04 j 07:32	14° × 22'43	1.71045 AU
direct	386 Jul 31 j 12:01	8°950'23		max. Earth dist.	388 Dec 04 j 07:32 388 Dec 16 j 17:36	0°る	1./1043 AO
greatest brilliancy	386 Aug 11 j 06:10	10° © 56'21	-4.8m		389 Jan 09 j 15:24	0° ≈	
greatest orimaney	386 Sep 08 j 10:57	0°Ω	4.0111	evening rise	389 Jan 13 j 03:23	4°≈22'50	
morning max el	386 Sep 19 j 06:59	10° Ω 14'15	46°22'31	evening rise	389 Feb 02 j 16:04	0° ∀	
asc. node	386 Oct 02 j 14:32	24° Ω 01'03			389 Feb 26 j 21:25	0° Υ	
	386 Oct 08 j 02:31	0° m		asc. node	389 Mar 19 j 09:46	25° Y 08′08	
	386 Nov 03 j 06:52	0∘ ⊽			389 Mar 23 j 09:43	0°8	
	386 Nov 28 j 05:20	0° M			389 Apr 17 j 07:39	$\Pi^{\circ}0$	
	386 Dec 22 j 15:33	0° ∡ ¹			389 May 12 j 19:17	0°€	
	387 Jan 15 j 21:28	0°ರ			389 Jun 08 j 05:31	$0^{\circ}\Omega$	
desc. node	387 Jan 22 j 04:14	7° る 46'53			389 Jul 06 j 16:00	0° т р	
	387 Feb 09 j 02:41	0° ≈		desc. node	389 Jul 08 j 23:16	2° Mp 15'44	
	387 Mar 05 j 08:43	0° ℋ		evening max el	389 Jul 11 j 13:46	4° Mp 46'46	45°47'32
morning set	387 Mar 26 j 05:46	25°) 45′58			389 Aug 12 j 16:52	0∘ ত	
	387 Mar 29 j 16:13	0 ° $\mathbf{\gamma}$		greatest brilliancy	389 Aug 20 j 12:35	3° ≏ 21'11	-4.8m
	387 Apr 23 j 01:13	9° 8		retrograde	389 Aug 29 j 13:43	4° £ 50'38	
		4.4			389 Sep 14 j 13:59	30°R Mp	
superior conj	387 May 02 j 13:46	11° 8 42'12		evening set	389 Sep 16 j 01:24	29° Mp 09'20	
minimum elong	387 May 02 j 19:39	12° 8 00'17		inferior conj	389 Sep 19 j 11:59	27° m 04'57	
max. Earth dist.	387 May 03 j 06:13	12° 8 32'45	1.73549 AU	minimum elong	389 Sep 19 j 19:53	26° m 52'51	8°06'24
asc. node	387 May 15 j 07:31	27° 8 21'10		min. Earth dist.	389 Sep 20 j 08:38	26° Mp 33'21	0.27454 AU
	387 May 17 j 11:16	0°Ⅱ 26°Ⅱ21140		morning rise	389 Sep 23 j 14:02	24° Mp 37'14	
evening rise	387 Jun 07 j 22:34	26° Ⅱ 21'40		direct	389 Oct 10 j 10:22	19° Mp 10'22	4.0
	387 Jun 10 j 21:42	0.೮ 0.ಎ		greatest brilliancy asc. node	389 Oct 21 j 12:47	21° Mp 28'21	-4.9m
	387 Jul 05 j 08:15 387 Jul 29 j 19:38	0° m p		asc. node	389 Oct 30 j 02:24 389 Nov 05 j 03:02	25° M 53'01 0° <u> </u>	
	387 Aug 23 j 09:18	0° ت		morning max el	389 Nov 30 j 04:31	0 = 22° £ 37'02	46°55'28
desc. node	387 Sep 03 j 20:57	0 == 13° £ 57'37		morning max ci	389 Dec 07 j 06:12	0°M	40 33 28
dese. Hode	387 Sep 17 j 03:06	0° ™			390 Jan 03 j 02:39	0° ⊼ ¹	
	387 Oct 12 j 03:59	0° ∡ 7			390 Jan 28 j 14:37	°5	
	387 Nov 06 j 19:08	0°₹		desc. node	390 Feb 18 j 16:04	25° ♂ 15'13	
	387 Dec 03 j 23:02	0° ≈			390 Feb 22 j 14:33	0° ≈	
evening max el	387 Dec 07 j 16:47	3°≈52'05	47°16'28		390 Mar 19 j 09:30	0°) €	
asc. node	387 Dec 26 j 00:09	21°≈09'43			390 Apr 13 j 02:14	$0^{\circ}\mathbf{\Upsilon}$	
	388 Jan 06 j 15:59	0°) €			390 May 07 j 17:34	0°8	
greatest brilliancy	388 Jan 17 j 01:15	5°) €28'08	-4.9m		390 Jun 01 j 07:08	$\Pi^{\circ}0$	
retrograde	388 Jan 27 j 15:36	7° ∺ 36′05		morning set	390 Jun 02 j 13:41	1° Ⅲ 33'30	
evening set	388 Feb 14 j 11:21	1° ∺ 22'53		asc. node	390 Jun 11 j 19:23	12° Ⅱ 52'35	
	388 Feb 16 j 16:27	30° R ≈			390 Jun 25 j 17:57	0 \circ \odot	
min. Earth dist.	388 Feb 16 j 23:03	29° ≈ 49'36	0.28021 AU	max. Earth dist.	390 Jul 05 j 14:27	12° © 08'25	1.73265 AU
inferior conj	388 Feb 17 j 15:34	29° ≈ 23′29	8°41'05				
minimum elong	388 Feb 17 j 14:58	29° ≈ 24′26	8°41'06	superior conj	390 Jul 08 j 20:28	16° © 09'03	0°58'14
morning rise	388 Feb 20 j 18:52	27° ≈ 26'14		minimum elong	390 Jul 08 j 11:48	15° © 42'16	0°57'56
direct	388 Mar 09 j 14:05	21°≈22'27	4.0		390 Jul 20 j 01:30	$\Omega^{\circ}\Omega$	
greatest brilliancy	388 Mar 18 j 13:53	22°≈53'13	-4.8m	ovenina rica	390 Aug 13 j 06:18	0°M) 0°M•47'00	
44-	388 Apr 01 j 13:48	0° ∀		evening rise	390 Aug 13 j 21:29	0° Mp 47'09	
desc. node morning max el	388 Apr 15 j 13:35 388 Apr 27 j 16:27	10°) 45'41 21°) 50'14	45°55'13		390 Sep 06 j 09:46 390 Sep 30 j 13:23	0° ™ 0° 亚	
morning max er	388 May 05 j 23:05	21 π 3014 0° γ	45 55 15	desc. node	390 Sep 30 j 13.23 390 Oct 01 j 08:56	1°ML00'40	
	388 Jun 03 j 02:35	0°8		desc. node	390 Oct 01 j 08:30 390 Oct 24 j 18:19	1 11€00 40 0° ⊼ 1	
	388 Jun 29 j 12:22	0°II			390 Nov 18 j 02:01	% ਰ ੇ	
	388 Jul 24 j 23:57	0°©			390 Nov 18 j 02:01 390 Dec 12 j 15:56	0°≈	
asc. node	388 Aug 06 j 16:59	15°9516'06			391 Jan 06 j 20:12	0°) €	
× 	388 Aug 18 j 19:54	0° Ω		asc. node	391 Jan 22 j 11:56	17°) 57′52	
	388 Sep 12 j 04:16	0° mp			391 Feb 02 j 09:52	0°Υ	
	388 Oct 06 j 04:59	0∘ ⊽		evening max el	391 Feb 16 j 22:12	15° Y 04'23	46°09'57
greatest brilliancy	388 Oct 20 j 08:15	17° ≏ 45'24	-3.9m	Č	391 Mar 05 j 03:28	0°8	
morning set	388 Oct 22 j 11:54	20° ≏ 27'52		greatest brilliancy	391 Mar 27 j 16:17	14° 8 20'55	-4.8m
	388 Oct 30 j 01:45	0°M		retrograde	391 Apr 07 j 10:48	16° 8 29'06	
	388 Nov 22 j 21:24	0° ∡ ¹		evening set	391 Apr 23 j 05:07	11° 8 40'33	
desc. node	388 Nov 26 j 06:39	4° ≯ 15'44		inferior conj	391 Apr 28 j 21:31	8° 8 12'59	
				minimum elong	391 Apr 29 j 04:29	8° 8 02'00	3°25'35
superior conj	388 Dec 02 j 10:53	12° ₹ 02'13		min. Earth dist.	391 Apr 29 j 02:17	8° 8 05'28	0.28936 AU
minimum elong	388 Dec 02 j 06:57	11° ∡ 749'50	0°14'29	morning rise	391 May 05 j 03:52	4° 8 25'18	

desc. node	391 May 14 j 01:30	0° 8 43'03			393 Nov 07 j 20:12	0° ∡ 7	
dese. Hode	391 May 14 j 07:52	30°RΥ			393 Dec 01 j 18:55	0∘ਤ	
direct	391 May 20 j 10:27	29° Y ′54'48			393 Dec 25 j 20:00	0° ≈	
	391 May 22 j 13:39	0°8			394 Jan 19 j 02:06	0° ₩	
greatest brilliancy	391 May 30 j 17:55	1° 8 48'49	-4.7m		394 Feb 12 j 17:48	0° Υ	
morning max el	391 Jul 08 j 04:57	29° 8 36'41	45°47'11	asc. node	394 Feb 18 j 23:51	7° Y ′29'37	
	391 Jul 08 j 14:42	0°II			394 Mar 10 j 02:30	0°8	
	391 Aug 06 j 12:25	0° ©			394 Apr 05 j 18:40	0°II	
	391 Sep 01 j 20:27	0°N		evening max el	394 Apr 28 j 15:53	23° Ⅱ 30'34	45°20'22
asc. node	391 Sep 04 j 04:47	2° Ω 45'24		C	394 May 05 j 15:22	0°9	
	391 Sep 26 j 22:52	0° m)		greatest brilliancy	394 Jun 05 j 09:54	20°959'52	-4.7m
	391 Oct 21 j 08:44	0∘ ত		desc. node	394 Jun 10 j 13:27	22°527'59	
	391 Nov 14 j 10:04	0°M₊		retrograde	394 Jun 16 j 03:14	23°902'33	
	391 Dec 08 j 08:07	0° ∡ ¹		evening set	394 Jul 01 j 20:12	18°920'25	
desc. node	391 Dec 24 j 18:25	20° ҂ ³37'23		inferior conj	394 Jul 07 j 12:58	14°955'28	-5°47'33
	392 Jan 01 j 05:51	8°0		minimum elong	394 Jul 07 j 03:05	15° © 10'49	5°45'23
morning set	392 Jan 08 j 08:19	8° る 54'15		min. Earth dist.	394 Jul 07 j 15:08	14° © 52'06	0.28833 AU
	392 Jan 25 j 04:47	0° ≈		morning rise	394 Jul 12 j 09:47	11° © 58'27	
				direct	394 Jul 29 j 04:43	6° ≤ 40'02	
superior conj	392 Feb 18 j 08:09	0° ₩ 07'09	-1°25'32	greatest brilliancy	394 Aug 08 j 21:15	8° ॐ 44'28	-4.8m
minimum elong	392 Feb 18 j 07:31	0° ₩ 05'09	1°25'32		394 Sep 08 j 13:36	$0^{\circ}\Omega$	
	392 Feb 18 j 05:51	0° ∀		morning max el	394 Sep 16 j 21:57	7° Ω 58'19	46°20'50
max. Earth dist.	392 Feb 22 j 06:50		1.72223 AU	asc. node	394 Oct 01 j 16:45	23° Ω 18′32	
	392 Mar 13 j 09:56	0 ° Υ			394 Oct 07 j 19:29	0° m y	
evening rise	392 Mar 28 j 10:11	18° Ƴ 32'17			394 Nov 02 j 21:00	0∘ ত	
	392 Apr 06 j 17:40	9° 8			394 Nov 27 j 18:10	0° M .	
asc. node	392 Apr 15 j 21:44	11° 8 15'30			394 Dec 22 j 03:40	0° ∡ ¹	
	392 May 01 j 05:28	$\Pi^{\circ}0$			395 Jan 15 j 09:07	0° ප	
	392 May 25 j 21:41	0ංම		desc. node	395 Jan 21 j 06:14	7° る 17'19	
	392 Jun 19 j 19:27	$0^{\circ}\Omega$			395 Feb 08 j 13:59	0° ≈	
	392 Jul 15 j 01:35	0° m ∕			395 Mar 04 j 19:45	0° ∀	
desc. node	392 Aug 05 j 11:00	24° m 54'02		morning set	395 Mar 23 j 21:36	23°) 33′22	
	392 Aug 09 j 21:47	0∘ 亚			395 Mar 29 j 03:03	0° Υ	
	392 Sep 05 j 21:14	0° M			395 Apr 22 j 11:57	0° 8	
evening max el	392 Sep 22 j 22:57	17° M 41'58	47°01'09				
	392 Oct 06 j 00:05	0° ∡¹	4.0	superior conj	395 Apr 30 j 07:22	9° 8 35'53	
greatest brilliancy	392 Nov 02 j 14:32	18° ∡ ¹27'17	-4.9m	minimum elong	395 Apr 30 j 13:47	9° 8 55'36	
retrograde	392 Nov 12 j 09:44	20° 🖈 17'11		max. Earth dist.	395 May 01 j 05:02	10° 8 42'26	1.73528 AU
evening set	392 Nov 26 j 16:52	16° ₹ 12'08		asc. node	395 May 14 j 09:38	26° 8 54'46	
asc. node	392 Nov 26 j 14:16	16° ₹ 15'36	1020121		395 May 16 j 21:59	0°Ⅱ 24°Ⅲ1042	
inferior conj	392 Dec 02 j 22:28	12° ₹ 33'54	1°38'31	evening rise	395 Jun 05 j 17:37	24° Ⅱ 19'43	
minimum elong min. Earth dist.	392 Dec 02 j 18:46	12° х 39'32 12° х 48'25	1°37'19 0.26391 AU		395 Jun 10 j 08:29 395 Jul 04 j 19:16	0° U 0∘©	
	392 Dec 02 j 12:56 392 Dec 08 j 20:52	9° ₹ 05'50	0.20391 AU		395 Jul 04 j 19.16 395 Jul 29 j 07:00	0° m p	
morning rise direct	392 Dec 08 j 20:32 392 Dec 23 j 05:21	4° ∡ 757'51			395 Aug 22 j 21:12	0∘ ت مالا	
greatest brilliancy	393 Jan 01 j 23:49	6° ∡ 747'07	-4 9m	desc. node	395 Sep 02 j 23:03	13° ≏ 26'53	
greatest orimancy	393 Feb 03 j 17:59	0°る	- 4 .7III	dese. Hode	395 Sep 16 j 15:47	0° ™	
morning max el	393 Feb 11 j 09:30	7° る 23'33	46°37'58		395 Oct 11 j 17:53	0° ⊼	
	393 Mar 04 j 22:43	0° ≈	.0 37 50		395 Nov 06 j 11:11	0° ਰ	
desc. node	393 Mar 18 j 03:57	14° ≈ 39'37			395 Dec 03 j 20:21	0° ≈	
	393 Mar 31 j 15:36	0° ∀		evening max el	395 Dec 05 j 08:00	1°≈31'35	47°17'41
	393 Apr 26 j 10:42	0° Υ		asc. node	395 Dec 25 j 02:11	20° ≈ 02'29	
	393 May 21 j 18:38	$0^{\circ}S$			396 Jan 08 j 02:44	0° ₩	
	393 Jun 15 j 18:41	\mathfrak{I}		greatest brilliancy	396 Jan 14 j 17:19	3° ¥ 09'47	-4.9m
asc. node	393 Jul 09 j 07:08	28° Ⅲ 33'40		retrograde	396 Jan 25 j 06:44	5° ₩ 16'45	
	393 Jul 10 j 11:24	0° ©		-	396 Feb 10 j 13:35	30° R ≈	
	393 Aug 03 j 21:02	$0^{\circ}\Omega$		evening set	396 Feb 12 j 01:20	29° ≈ 06'07	
morning set	393 Aug 09 j 10:41	6° £ 53′29		min. Earth dist.	396 Feb 14 j 13:11	27° ≈ 32'34	0.27957 AU
	393 Aug 28 j 00:42	0° m		inferior conj	396 Feb 15 j 06:31	27° ≈ 05'10	8°40'40
max. Earth dist.	393 Sep 12 j 17:24	19° m 36'41	1.71788 AU	minimum elong	396 Feb 15 j 05:04	27° ≈ 07'26	8°40'38
				morning rise	396 Feb 18 j 09:05	25° ≈ 08'53	
superior conj	393 Sep 15 j 16:55	23° Mp 20'34	1°19'24	direct	396 Mar 07 j 04:22	19° ≈ 05′23	
minimum elong	393 Sep 15 j 23:30	23° m 41'10	1°19'17	greatest brilliancy	396 Mar 16 j 03:21	20° ≈ 35'18	-4.8m
	393 Sep 21 j 00:26	0∘ 亚			396 Apr 02 j 11:04	0° ∀	
	393 Oct 14 j 22:24	0° M		desc. node	396 Apr 14 j 15:46	9°) 47′18	
evening rise	393 Oct 25 j 06:49	12°M59'31		morning max el	396 Apr 25 j 06:19	19° ¥ 33'30	45°56'13
desc. node	393 Oct 28 j 20:55	17°M29'39			396 May 05 j 18:40	0 ° γ	

	396 Jun 02 j 17:26	$6^{\circ}B$			398 Oct 24 j 06:18	0° ∡ ¹	
	396 Jun 29 j 01:19	$\Pi^{\circ}0$			398 Nov 17 j 14:30	6°0	
	396 Jul 24 j 11:57	0ංම			398 Dec 12 j 05:11	0° ≈	
asc. node	396 Aug 05 j 19:01	14°9346'55			399 Jan 06 j 10:54	0° ∀	
	396 Aug 18 j 07:23	$0^{\circ}\Omega$		asc. node	399 Jan 21 j 13:58	17°) 17'47	
	396 Sep 11 j 15:30	0° m)			399 Feb 02 j 04:03	0°Υ	
	396 Oct 05 j 16:06	0∘ ⊽		evening max el	399 Feb 14 j 13:04	12° Ƴ 47'48	46°12'37
greatest brilliancy	396 Oct 18 j 23:11	0 — 16° ≏ 41'56	-3.9m	evening max er	399 Mar 05 j 12:24	0°8	40 1237
morning set	396 Oct 20 j 00:11	18° ⊆ 00'32	3.7III	greatest brilliancy	399 Mar 25 j 08:47	12° 8 10'38	-4.8m
morning set	396 Oct 29 j 12:52	0°M		retrograde	399 Apr 05 j 03:51	14° 8 19'38	-4.0111
	396 Nov 22 j 08:33	0° ⊼ ¹		evening set	399 Apr 03 j 03:31 399 Apr 20 j 23:48	9° 8 27'30	
1 1.		3° ∡ ¹46'58		Č		6° 8 03'08	2945122
desc. node	396 Nov 25 j 08:39	3 X.4038		inferior conj	399 Apr 26 j 14:02		
	20(3) 20:20:10	00.705140	0010141	minimum elong	399 Apr 26 j 21:28	5° 8 51'24	
superior conj	396 Nov 29 j 20:19	9° × ⁷ 25'49		min. Earth dist.	399 Apr 26 j 18:38	5° 8 55'53	0.28924 AU
minimum elong	396 Nov 29 j 17:27	9° ∡ 16'46	0°10'32	morning rise	399 May 02 j 19:13	2° 8 17'22	
behind sun begin	396 Nov 28 j 20:47	8° ∡ 11'46			399 May 07 j 11:06	30° ₹ Υ	
behind sun end	396 Nov 30 j 14:06	10° ∡ 1'45		desc. node	399 May 13 j 03:28	28° Y 14'17	
max. Earth dist.	396 Dec 01 j 08:59	11° ∡ ′21'11	1.71035 AU	direct	399 May 18 j 02:32	27° Ƴ 44'59	
	396 Dec 16 j 04:47	0°ಕ		greatest brilliancy	399 May 28 j 09:40	29° Ƴ 39′07	-4.7m
	397 Jan 09 j 02:36	0° ≈			399 May 29 j 08:29	$_{0\circ}$ 8	
evening rise	397 Jan 10 j 13:35	1° ≈ 49'33		morning max el	399 Jul 05 j 21:42	27° 8 28'33	45°46'46
	397 Feb 02 j 03:16	0° ℋ			399 Jul 08 j 12:35	Π $^{\circ}0$	
	397 Feb 26 j 08:43	0 ° Υ			399 Aug 06 j 04:00	0ංම	
asc. node	397 Mar 18 j 11:57	24° Ƴ 39'44			399 Sep 01 j 09:50	$0^{\circ}\Omega$	
	397 Mar 22 j 21:18	$_{0\circ}$ 8		asc. node	399 Sep 03 j 07:01	2° Ω 12'50	
	397 Apr 16 j 19:47	$\Pi^{\circ}0$			399 Sep 26 j 11:17	0° m)	
	397 May 12 j 08:33	0° ©			399 Oct 20 j 20:40	0∘ ত	
	397 Jun 07 j 21:07	$0^{\circ}\Omega$			399 Nov 13 j 21:45	0° M	
	397 Jul 06 j 13:56	0° m)			399 Dec 07 j 19:37	0° ∡ 7	
desc. node	397 Jul 08 j 01:14	1° m) 25'34		desc. node	399 Dec 23 j 20:26	20° ∡ 107'56	
evening max el	397 Jul 09 j 02:23	2° m/25'59	45°45'19		399 Dec 31 j 17:13	0°ಕ	
	397 Aug 15 j 06:38	0∘ ʊ		morning set	400 Jan 05 j 17:58	6° ප 18'32	
greatest brilliancy	397 Aug 18 j 01:13	0° £ 59'59	-4.8m		400 Jan 24 j 16:02	0°≈	
retrograde	397 Aug 27 j 02:21	2° £ 29'50	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
retrograde	397 Sep 07 j 09:55	2 <u>—</u> 2>30°R, My		superior conj	400 Feb 15 j 20:35	27° ≈ 41'38	-1°25'22
evening set	397 Sep 07 j 07:35 397 Sep 13 j 17:06	26° Mp 44'22		minimum elong	400 Feb 15 j 18:58	27°≈36'35	
inferior conj	397 Sep 13 j 17:00 397 Sep 17 j 01:32	24° Mp 43'18	-8°15'23	minimum clong	400 Feb 17 j 17:02	0° ∺	1 23 21
minimum elong	397 Sep 17 j 01:32	24° m/ 32'13		max. Earth dist.	400 Feb 19 j 18:32		1.72170 AU
min. Earth dist.			0.27522 AU	max. Earth dist.	400 Mar 12 j 21:04	2 γ(3402 0° γ	1.72170 AU
	397 Sep 17 j 22:19		0.27322 AU	avanina risa	2	16° Υ 16'31	
morning rise	397 Sep 21 j 00:07	22° Mp 20'41		evening rise	400 Mar 26 j 01:15		
direct	397 Oct 08 j 00:11	16° Mp 47'24	4.0	1	400 Apr 06 j 04:50	0° 8	
greatest brilliancy	397 Oct 19 j 04:05	19° ™ 06'35	-4.9m				
asc. node		0.40 7 0.610.4		asc. node	400 Apr 14 j 23:49	10° 8 47'33	
	397 Oct 29 j 04:27	24° Mp 26'31		asc. node	400 Apr 30 j 16:46	$\Pi^{\circ}0$	
	397 Nov 05 j 20:20	0∘ ⊽		asc. node	400 Apr 30 j 16:46 400 May 25 j 09:16	0°© 10°0	
morning max el	397 Nov 05 j 20:20 397 Nov 27 j 18:02	0° ჲ 20° ჲ 10'59	46°55'04	asc. node	400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37	0°Ω 0°© 0°I	
morning max el	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18	0° ჲ 20° ჲ 10'59 0° 厑	46°55'04		400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46	0° N 0° S 0° I	
morning max el	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19	0° <u>Ω</u> 20° <u>Ω</u> 10'59 0° M 0° X	46°55'04	desc. node	400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07	0°∏ 0°© 0°Ω 0°M 24°Mp18'11	
-	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19 398 Jan 28 j 04:23	0° മ 20° മ10'59 0° M 0° Ґ 0° Ґ	46°55'04		400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07 400 Aug 09 j 12:50	0°II 0°ତ 0°A 0°M 24°M18'11 0°Ω	
morning max el	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19 398 Jan 28 j 04:23 398 Feb 17 j 18:08	0°요 20°요10'59 0°M 0°♂ 0°♂ 24°♂42'48	46°55'04	desc. node	400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07 400 Aug 09 j 12:50 400 Sep 05 j 16:15	0° II 0° ፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡	
-	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19 398 Jan 28 j 04:23 398 Feb 17 j 18:08 398 Feb 22 j 03:13	0° Ω 20° Ω10'59 0° M 0° Ґ 0° Ґ 24° Ґ 42'48 0° ≈	46°55'04		400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07 400 Aug 09 j 12:50 400 Sep 05 j 16:15 400 Sep 20 j 13:17	0°II 0°© 0°I 0°M 24°M 18'11 0°A 0°M 15°M 19'40	46°58'53
-	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19 398 Jan 28 j 04:23 398 Feb 17 j 18:08	0° Ω 20° Ω10'59 0° M 0° ズ 0° 云 24° 云42'48 0° ≈ 0° 升	46°55'04	desc. node	400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07 400 Aug 09 j 12:50 400 Sep 05 j 16:15	0° ∏ 0° © 0° N 0° M 24° M 18'11 0° Ω 0° M 15° M 19'40 0° ⊀	
-	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19 398 Jan 28 j 04:23 398 Feb 17 j 18:08 398 Feb 22 j 03:13	0° Ω 20° Ω10'59 0° M 0° Ґ 0° Ґ 24° Ґ 42'48 0° ≈	46°55'04	desc. node	400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07 400 Aug 09 j 12:50 400 Sep 05 j 16:15 400 Sep 20 j 13:17	0°II 0°© 0°I 0°M 24°M 18'11 0°A 0°M 15°M 19'40	
-	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19 398 Jan 28 j 04:23 398 Feb 17 j 18:08 398 Feb 22 j 03:13 398 Mar 18 j 21:27	0° Ω 20° Ω10'59 0° M 0° ズ 0° 云 24° 云42'48 0° ≈ 0° 升	46°55'04	desc. node evening max el	400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07 400 Aug 09 j 12:50 400 Sep 05 j 16:15 400 Sep 20 j 13:17 400 Oct 06 j 08:54	0° ∏ 0° © 0° N 0° M 24° M 18'11 0° Ω 0° M 15° M 19'40 0° ⊀	
-	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19 398 Jan 28 j 04:23 398 Feb 17 j 18:08 398 Feb 22 j 03:13 398 Mar 18 j 21:27 398 Apr 12 j 13:42	0° Ω 20° Ω10'59 0° M 0° ౘ 0° ℧ 24° ℧42'48 0° ≫ 0° 升 0° Υ	46°55'04	desc. node evening max el greatest brilliancy	400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07 400 Aug 09 j 12:50 400 Sep 05 j 16:15 400 Sep 20 j 13:17 400 Oct 06 j 08:54 400 Oct 31 j 03:04	0° II 0° S 0° N 0° M 24° M 18'11 0° S 0° M 15° M 19'40 0° ₹ 15° ₹ 56'40	
desc. node	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19 398 Jan 28 j 04:23 398 Feb 17 j 18:08 398 Feb 22 j 03:13 398 Mar 18 j 21:27 398 Apr 12 j 13:42 398 May 07 j 04:42	0°요 20°요10'59 0°M 0°ズ 0°궁 24°♂42'48 0°≈ 0°升 0°Y	46°55'04	desc. node evening max el greatest brilliancy retrograde	400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07 400 Aug 09 j 12:50 400 Sep 05 j 16:15 400 Sep 20 j 13:17 400 Oct 06 j 08:54 400 Oct 31 j 03:04 400 Nov 09 j 22:30	0° II 0° © በ 0° የ በ 24° የ 18'11 0°	
desc. node	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19 398 Jan 28 j 04:23 398 Feb 17 j 18:08 398 Feb 22 j 03:13 398 Mar 18 j 21:27 398 Mar 12 j 13:42 398 May 07 j 04:42 398 May 31 j 08:13	0°요 20°요10'59 0°M 0°ズ 0°℧ 24°℧42'48 0°≈ 0°升 0°Y 0°Y 29°℧29'54	46°55'04	desc. node evening max el greatest brilliancy retrograde evening set	400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07 400 Aug 09 j 12:50 400 Sep 05 j 16:15 400 Sep 20 j 13:17 400 Oct 06 j 08:54 400 Oct 31 j 03:04 400 Nov 09 j 22:30 400 Nov 24 j 04:57	0° II 0° © በ 0° በ 0° ከ 24° ከ 18'11 0° Ω 0° M 15° M 19'40 0° ጃ 15° ጃ 56'40 17° ጃ 46'11 13° ጃ 41'37	-4.9m
desc. node	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19 398 Jan 28 j 04:23 398 Feb 17 j 18:08 398 Feb 22 j 03:13 398 Mar 18 j 21:27 398 Apr 12 j 13:42 398 May 07 j 04:42 398 May 31 j 08:13 398 May 31 j 18:04	0° 点 20° 至10'59 0° 肌 0° ズ 0° 云 24° 云42'48 0° ※ 0° 升 0° Y 0° Y 0° と 29° と29'54 0° Ⅱ	46°55'04	desc. node evening max el greatest brilliancy retrograde evening set asc. node	400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07 400 Aug 09 j 12:50 400 Sep 05 j 16:15 400 Sep 20 j 13:17 400 Oct 06 j 08:54 400 Oct 31 j 03:04 400 Nov 09 j 22:30 400 Nov 24 j 04:57 400 Nov 25 j 16:17	0° II 0° © 0° ብ 0° ነው 24° ነው 18'11 0° Ω 0° ነገ 15° ነገ 19'40 0° ነገ 15° ነገ 56'40 17° ነገ 46'11 13° ነገ 46'11 13° ነገ 41'37 12° ነገ 53'04	-4.9m 1°14'04
desc. node	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19 398 Jan 28 j 04:23 398 Feb 17 j 18:08 398 Feb 22 j 03:13 398 Mar 18 j 21:27 398 Apr 12 j 13:42 398 May 07 j 04:42 398 May 31 j 08:13 398 May 31 j 18:04 398 Jun 10 j 21:22	0° 点 20° 至10'59 0° 肌 0° ズ 0° 云 24° 云42'48 0° ※ 0° 升 0° Y 0° S 29° S 29'54 0° Ⅱ 12° Ⅱ 25'22 0° ⑤	46°55'04 1.73306 AU	desc. node evening max el greatest brilliancy retrograde evening set asc. node inferior conj	400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07 400 Aug 09 j 12:50 400 Sep 05 j 16:15 400 Sep 20 j 13:17 400 Oct 06 j 08:54 400 Oct 31 j 03:04 400 Nov 09 j 22:30 400 Nov 24 j 04:57 400 Nov 25 j 16:17 400 Nov 30 j 10:28	0° II 0° © 0° በ 0° የ ከ 24° የ 18'11 0°	-4.9m 1°14'04
desc. node morning set asc. node	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19 398 Jan 28 j 04:23 398 Feb 17 j 18:08 398 Feb 22 j 03:13 398 Mar 18 j 21:27 398 Apr 12 j 13:42 398 May 07 j 04:42 398 May 31 j 08:13 398 May 31 j 18:04 398 Jun 10 j 21:22 398 Jun 25 j 04:48	0° 点 20° 至10'59 0° 肌 0° ズ 0° 云 24° 云42'48 0° ※ 0° 升 0° Y 0° S 29° S 29'54 0° Ⅱ 12° Ⅱ 25'22 0° ⑤		desc. node evening max el greatest brilliancy retrograde evening set asc. node inferior conj minimum elong	400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07 400 Sep 05 j 16:15 400 Sep 20 j 13:17 400 Oct 06 j 08:54 400 Oct 31 j 03:04 400 Nov 09 j 22:30 400 Nov 24 j 04:57 400 Nov 25 j 16:17 400 Nov 30 j 10:28 400 Nov 30 j 07:40	0° II 0° © 0° በ 0° የ ከ 24° የ 18'11 0°	-4.9m 1°14'04 1°13'09
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morning set asc. node max. Earth dist. superior conj	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19 398 Jan 28 j 04:23 398 Feb 17 j 18:08 398 Feb 22 j 03:13 398 Mar 18 j 21:27 398 Apr 12 j 13:42 398 May 07 j 04:42 398 May 31 j 08:13 398 May 31 j 18:04 398 Jun 10 j 21:22 398 Jun 25 j 04:48 398 Jul 03 j 12:23 398 Jul 06 j 15:07 398 Jul 06 j 06:31	0° 点 20° 至10'59 0° 肌 0° ポ 0° ጜ 0° ጜ 24° ጜ 42'48 0° ※ 0° ዧ 0° ♀ 12° ¥ 29'54 0° 頂 12° 耳25'22 0° 孁 10° ☞ 14'36	1.73306 AU 0°55'56	desc. node evening max el greatest brilliancy retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise	400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07 400 Aug 09 j 12:50 400 Sep 05 j 16:15 400 Sep 20 j 13:17 400 Oct 06 j 08:54 400 Oct 31 j 03:04 400 Nov 09 j 22:30 400 Nov 24 j 04:57 400 Nov 30 j 10:28 400 Nov 30 j 07:40 400 Nov 30 j 07:40 400 Nov 30 j 02:03 400 Dec 06 j 10:38 400 Dec 20 j 18:03 400 Dec 30 j 12:53	0° II 0° © 0° IQ 0° IQ 24° IQ 18'11 0° Ω 0° IL 15° IL 19'40 0° ¾ 15° ¾ 56'40 17° ¾ 46'11 13° ¾ 41'37 12° ¾ 53'04 10° ¾ 03'24 10° ¾ 07'40 10° ¾ 16'13 6° ¾ 33'25 2° ¾ 27'44	-4.9m 1°14'04 1°13'09 0.26378 AU
desc. node morning set asc. node max. Earth dist. superior conj minimum elong	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19 398 Jan 28 j 04:23 398 Feb 17 j 18:08 398 Feb 22 j 03:13 398 Mar 18 j 21:27 398 Apr 12 j 13:42 398 May 07 j 04:42 398 May 31 j 18:04 398 Jun 10 j 21:22 398 Jun 25 j 04:48 398 Jul 03 j 12:23 398 Jul 06 j 15:07 398 Jul 06 j 06:31 398 Jul 19 j 12:23	0° £ 20° £10'59 0° M 0° √ 0° ♂ 24° ♂ 42'48 0° ≈ 0° ዃ 0° Y 0° ϒ 0° ϒ 12° ¥25'54 0° ¶ 12° ¥125'22 0° ⑤ 10° ⑤ 14'36 14° ⑤ 05'02 13° ⑥ 38'29 0° €	1.73306 AU 0°55'56	desc. node evening max el greatest brilliancy retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct	400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07 400 Aug 09 j 12:50 400 Sep 05 j 16:15 400 Sep 20 j 13:17 400 Oct 06 j 08:54 400 Oct 31 j 03:04 400 Nov 09 j 22:30 400 Nov 24 j 04:57 400 Nov 30 j 10:28 400 Nov 30 j 07:40 400 Nov 30 j 07:40 400 Nov 30 j 02:03 400 Dec 06 j 10:38 400 Dec 20 j 18:03 400 Dec 30 j 12:53 401 Feb 03 j 20:40	0° II 0° © 0° በ 0° የ 0° የ 0° የ 0° የ 24° የ 18'11 0°	-4.9m 1°14'04 1°13'09 0.26378 AU -4.9m
morning set asc. node max. Earth dist. superior conj	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19 398 Jan 28 j 04:23 398 Feb 17 j 18:08 398 Feb 22 j 03:13 398 Mar 18 j 21:27 398 Apr 12 j 13:42 398 May 07 j 04:42 398 May 31 j 08:13 398 May 31 j 18:04 398 Jun 10 j 21:22 398 Jun 25 j 04:48 398 Jul 03 j 12:23 398 Jul 06 j 06:31 398 Jul 19 j 12:23 398 Aug 11 j 14:50	0° № 20° № 10'59 0° № 0° № 0° № 24° ♂ 42'48 0° ≈ 0° ₩ 0° ₩ 0° ₩ 12° ₩ 29' ₺ 29'54 0° ₩ 12° ₩ 25'22 0° © 10° © 14'36 14° © 05'02 13° © 38'29 0° № 28° № 37'45	1.73306 AU 0°55'56	desc. node evening max el greatest brilliancy retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07 400 Aug 09 j 12:50 400 Sep 05 j 16:15 400 Sep 20 j 13:17 400 Oct 06 j 08:54 400 Oct 31 j 03:04 400 Nov 09 j 22:30 400 Nov 24 j 04:57 400 Nov 30 j 10:28 400 Nov 30 j 07:40 400 Nov 30 j 02:03 400 Dec 06 j 10:38 400 Dec 20 j 18:03 400 Dec 30 j 12:53 401 Feb 03 j 20:40 401 Feb 08 j 23:26	0° II 0° © 0° በ 0° የ 0° የ 0° የ 0° የ 24° የ 18'11 0°	-4.9m 1°14'04 1°13'09 0.26378 AU -4.9m
desc. node morning set asc. node max. Earth dist. superior conj minimum elong	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19 398 Jan 28 j 04:23 398 Feb 17 j 18:08 398 Feb 22 j 03:13 398 Mar 18 j 21:27 398 Apr 12 j 13:42 398 May 07 j 04:42 398 May 31 j 08:13 398 May 31 j 18:04 398 Jun 10 j 21:22 398 Jul 03 j 12:23 398 Jul 06 j 06:31 398 Jul 19 j 12:23 398 Aug 11 j 14:50 398 Aug 12 j 17:20	0° £ 20° £10'59 0° M 0° √ 0° ♂ 24° ♂ 42'48 0° ≈ 0° ዃ 0° Y 0° ϒ 0° ϒ 12° ¥25'54 0° ¶ 12° ¥125'22 0° ⑤ 10° ⑤ 14'36 14° ⑤ 05'02 13° ⑥ 38'29 0° €	1.73306 AU 0°55'56	desc. node evening max el greatest brilliancy retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07 400 Sep 05 j 16:15 400 Sep 20 j 13:17 400 Oct 06 j 08:54 400 Oct 31 j 03:04 400 Nov 09 j 22:30 400 Nov 24 j 04:57 400 Nov 30 j 10:28 400 Nov 30 j 07:40 400 Nov 30 j 07:40 400 Nov 30 j 07:40 400 Nov 30 j 02:03 400 Dec 06 j 10:38 400 Dec 30 j 12:53 401 Feb 03 j 20:40 401 Feb 08 j 23:26 401 Mar 04 j 16:17	0° П 0° の 0° の 0° の 0° の 0° の 24° で 18'11 0° へ 0° ボ 15° ボ 19'40 0° ボ 15° ボ 56'40 17° ボ 46'11 13° ボ 41'37 12° ボ 53'04 10° ボ 03'24 10° ボ 03'24 10° ボ 16'13 6° ボ 33'25 2° ボ 27'44 4° ボ 17'45 0° 云 5° 云 00'12 0° ※	-4.9m 1°14'04 1°13'09 0.26378 AU -4.9m
desc. node morning set asc. node max. Earth dist. superior conj minimum elong evening rise	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19 398 Jan 28 j 04:23 398 Feb 17 j 18:08 398 Feb 22 j 03:13 398 Mar 18 j 21:27 398 Apr 12 j 13:42 398 May 07 j 04:42 398 May 31 j 08:13 398 May 31 j 18:04 398 Jun 10 j 21:22 398 Jul 03 j 12:23 398 Jul 06 j 06:31 398 Jul 19 j 12:23 398 Aug 11 j 14:50 398 Aug 12 j 17:20 398 Sep 05 j 21:03	0° 点 20° 年10'59 0° 肌 0° ス 0° ጜ 0° ጜ 0° ጜ 24° ጜ42'48 0° ※ 0° ዧ 0° ሄ 29° ሄ29'54 0° 頂 12° 頂25'22 0° ⑤ 10° ⑤14'36 14° ⑤05'02 13° ⑥38'29 0° ん 28° ん37'45 0° 順 0° 요	1.73306 AU 0°55'56	desc. node evening max el greatest brilliancy retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07 400 Sep 05 j 16:15 400 Sep 20 j 13:17 400 Oct 06 j 08:54 400 Oct 31 j 03:04 400 Nov 09 j 22:30 400 Nov 24 j 04:57 400 Nov 30 j 10:28 400 Nov 30 j 07:40 400 Nov 30 j 07:40 400 Nov 30 j 07:40 400 Dec 06 j 10:38 400 Dec 20 j 18:03 400 Dec 30 j 12:53 401 Feb 03 j 20:40 401 Feb 08 j 23:26 401 Mar 04 j 16:17 401 Mar 17 j 06:09	0° H 0° S 0° N 0° M 24° M 18'11 0° S 0° M 15° M 19'40 0° N 15° N 46'11 13° N 46'11 10° N 16'13 6° N 33'25 2° N 27'44 4° N 17'45 0° S 5° S 00'12 0° ≈ 14° ≈ 01'23	-4.9m 1°14'04 1°13'09 0.26378 AU -4.9m
desc. node morning set asc. node max. Earth dist. superior conj minimum elong	397 Nov 05 j 20:20 397 Nov 27 j 18:02 397 Dec 07 j 02:18 398 Jan 02 j 18:19 398 Jan 28 j 04:23 398 Feb 17 j 18:08 398 Feb 22 j 03:13 398 Mar 18 j 21:27 398 Apr 12 j 13:42 398 May 07 j 04:42 398 May 31 j 08:13 398 May 31 j 18:04 398 Jun 10 j 21:22 398 Jul 03 j 12:23 398 Jul 06 j 06:31 398 Jul 19 j 12:23 398 Aug 11 j 14:50 398 Aug 12 j 17:20	0° 点 20° 点10'59 0° M 0° ズ 0° 云 24° 云42'48 0° ※ 0° 光 0° Y 0° Y 0° B 29° B29'54 0° II 12° II 25'22 0° ⑤ 10° ⑤ 14'36 14° ⑤ 05'02 13° ⑥ 38'29 0° Ω 28° Ω 37'45 0° M	1.73306 AU 0°55'56	desc. node evening max el greatest brilliancy retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	400 Apr 30 j 16:46 400 May 25 j 09:16 400 Jun 19 j 07:37 400 Jul 14 j 14:46 400 Aug 04 j 13:07 400 Sep 05 j 16:15 400 Sep 20 j 13:17 400 Oct 06 j 08:54 400 Oct 31 j 03:04 400 Nov 09 j 22:30 400 Nov 24 j 04:57 400 Nov 30 j 10:28 400 Nov 30 j 07:40 400 Nov 30 j 07:40 400 Nov 30 j 07:40 400 Nov 30 j 02:03 400 Dec 06 j 10:38 400 Dec 30 j 12:53 401 Feb 03 j 20:40 401 Feb 08 j 23:26 401 Mar 04 j 16:17	0° П 0° の 0° の 0° の 0° の 0° の 24° の 18'11 0° 으 0° M 15° M 19'40 0° ズ 15° ズ 56'40 17° ズ 46'11 13° ズ 41'37 12° ズ 53'04 10° ズ 03'24 10° ズ 03'24 10° ズ 16'13 6° ズ 33'25 2° ズ 27'44 4° ズ 17'45 0° 云 5° 云 00'12 0° ※	-4.9m 1°14'04 1°13'09 0.26378 AU -4.9m

	401 May 21 j 06:42	0° ႘			404 Jan 10 j 08:45	0° ∀	
	401 Jun 15 j 06:12	0°II		greatest brilliancy	404 Jan 12 j 09:19	0° ¥ 50'15	-4 9m
asc. node	401 Jul 08 j 09:15	28° I 105'54		retrograde	404 Jan 22 j 21:13	2° H 56'12	,
	401 Jul 09 j 22:36	0°ತಾ		8	404 Feb 03 j 20:23	30°R≈	
	401 Aug 03 j 08:04	0°N		evening set	404 Feb 09 j 14:38	26° ≈ 48'39	
morning set	401 Aug 07 j 03:43	4° Ω 43'30		min. Earth dist.	404 Feb 12 j 03:23	25° ≈ 13'47	0.27899 AU
	401 Aug 27 j 11:43	0° m)		inferior conj	404 Feb 12 j 21:13	24° ≈ 45'35	8°39'13
max. Earth dist.	401 Sep 10 j 04:55	17° m 08'07	1.71839 AU	minimum elong	404 Feb 12 j 18:58	24° ≈ 49'09	8°39'08
				morning rise	404 Feb 15 j 23:33	22° ≈ 49'36	
superior conj	401 Sep 13 j 08:05	21°Mp03'13	1°20'32	direct	404 Mar 04 j 17:59	16° ≈ 46'49	
minimum elong	401 Sep 13 j 13:59	21°Mp21'42	1°20'27	greatest brilliancy	404 Mar 13 j 17:16	18° ≈ 16'40	-4.8m
	401 Sep 20 j 11:31	0∘ ⊽			404 Apr 03 j 03:19	0° ∀	
	401 Oct 14 j 09:37	0° M		desc. node	404 Apr 13 j 17:44	8°)(49'01	
evening rise	401 Oct 22 j 18:14	10°M29'18		morning max el	404 Apr 22 j 19:40	17° ∺ 14'39	45°57'20
desc. node	401 Oct 27 j 22:54	17° M 00'25			404 May 05 j 13:55	0 ° Υ	
	401 Nov 07 j 07:34	0° ∡ ¹			404 Jun 02 j 08:14	0°8	
	401 Dec 01 j 06:28	0°ರ			404 Jun 28 j 14:15	$\Pi^{\circ}0$	
	401 Dec 25 j 07:46	0° ≈			404 Jul 23 j 23:57	0ංම	
	402 Jan 18 j 14:13	0° ∺		asc. node	404 Aug 04 j 21:08	14°9517'57	
	402 Feb 12 j 06:30	0°Υ			404 Aug 17 j 18:53	0° N	
asc. node	402 Feb 18 j 02:02	6° Y ′57′33			404 Sep 11 j 02:44	0° m y	
	402 Mar 09 j 16:26	0° B			404 Oct 05 j 03:12	0° ⊽	2.0
	402 Apr 05 j 11:28	0°II	45020152	greatest brilliancy	404 Oct 17 j 15:59	15° £ 44'26	-3.9m
evening max el	402 Apr 26 j 07:52	21° I I19'36	45°20'53	morning set	404 Oct 17 j 12:56	15° £ 34'52	
	402 May 05 j 18:09	0°95	4.7		404 Oct 28 j 23:55	0° ™ 0° <i>⊀</i> 7	
greatest brilliancy desc. node	402 Jun 03 j 01:31 402 Jun 09 j 15:30	18° © 49'27 20° © 32'49	-4.7m	desc. node	404 Nov 21 j 19:36	0° × ° 3° × ⁷ 18'38	
retrograde	402 Jun 13 j 18:39	20°951'57		desc. node	404 Nov 24 j 10:41	3°X'18'38	
evening set	402 Jun 29 j 09:46	20 9 31 37		superior conj	404 Nov 27 j 06:15	6° ∡ 751'17	0°06'44
inferior conj	402 Jul	10 3 1317	5°32'10	minimum elong	404 Nov 27 j 00:13	6° × 45'33	0°06'38
minimum elong	402 Jul 04 j 19:11	12°959'51	5°30'07	behind sun begin	404 Nov 26 j 03:50	5° ∡ 128'08	0 00 38
min. Earth dist.	402 Jul 05 j 06:56	12°941'34	0.28846 AU	behind sun end	404 Nov 28 j 05:01	8°×702'59	
morning rise	402 Jul 10 j 04:23	9°943'28	0.20040710	max. Earth dist.	404 Nov 28 j 12:03	8°×725'06	1.71028 AU
direct	402 Jul 26 j 20:54	4°929'11		man. Barur diot.	404 Dec 15 j 15:50	0°중	1.,1020110
greatest brilliancy	402 Aug 06 j 12:41	6°932'27	-4.8m	evening rise	405 Jan 08 j 00:04	29° る 17'28	
8	402 Sep 08 j 15:01	0°Ω			405 Jan 08 j 13:40	0°≈	
morning max el	402 Sep 14 j 12:03	5° Ω 39'57	46°19'21		405 Feb 01 j 14:24	0° \	
asc. node	402 Sep 30 j 18:46	22° Ω 35'45			405 Feb 25 j 20:00	0°Υ	
	402 Oct 07 j 12:13	0° m y		asc. node	405 Mar 17 j 13:56	24° Ƴ 10'41	
	402 Nov 02 j 11:05	0∘ 亚			405 Mar 22 j 08:54	8° 0	
	402 Nov 27 j 07:04	0° M			405 Apr 16 j 08:00	$\Pi^{\circ}0$	
	402 Dec 21 j 15:56	0° ∡ ¹			405 May 11 j 21:56	0ංම	
	403 Jan 14 j 20:58	ರ∘ರ			405 Jun 07 j 13:00	$0^{\circ}\Omega$	
desc. node	403 Jan 20 j 08:22	6° る 47'25		evening max el	405 Jul 06 j 15:20	0°Mp06'14	45°43'18
	403 Feb 08 j 01:32	0° ≈			405 Jul 06 j 12:43	o° m y	
	403 Mar 04 j 07:03	0° ∀		desc. node	405 Jul 07 j 03:23	0° m ,35′01	
morning set	403 Mar 21 j 12:45	21° ∺ 17'47		greatest brilliancy	405 Aug 15 j 13:07	28° m 38'20	-4.8m
	403 Mar 28 j 14:07	0° Υ			405 Aug 21 j 19:16	0∘ ত	
	403 Apr 21 j 22:53	0°B		retrograde	405 Aug 24 j 15:33	0° ≏ 09'20	
	402 4 20:00 20	7040710-	0025125		405 Aug 27 j 10:57	30°RM)	
superior conj	403 Apr 28 j 00:29	7° 8 27'27		evening set	405 Sep 11 j 08:32	24° Mp 19'48	0022120
minimum elong	403 Apr 28 j 07:24	7° 8 48'42 8° 8 46'54	1.73503 AU	inferior conj	405 Sep 14 j 14:59	22° Mp 21'45	
max. Earth dist.	403 Apr 29 j 02:21	26° 8 27'14	1./3503 AU	minimum elong min. Earth dist.	405 Sep 14 j 21:32	22° Mp 11'45	0.27589 AU
asc. node	403 May 13 j 11:34	26 G 27 14 0° Ⅱ			405 Sep 15 j 11:33	21° m 50'21	0.27389 AU
evening rise	403 May 16 j 08:53 403 Jun 03 j 12:22	0° <u>II</u> 22°II16'17		morning rise direct	405 Sep 18 j 10:13 405 Oct 05 j 14:16	20° Mp 04'11 14° Mp 24'37	
evening rise	403 Jun 09 j 19:30	0°95		greatest brilliancy	405 Oct 16 j 18:47	16° Mp 44'36	-4.9m
	403 Jul 04 j 06:29	0° U		asc. node	405 Oct 28 j 06:26	23° m 03'07	
	403 Jul 28 j 18:33	0° m)			405 Nov 06 j 09:07	0° ರ	
	403 Aug 22 j 09:15	0∘ ⊽		morning max el	405 Nov 25 j 08:33	17° ≏ 48'09	46°54'51
desc. node	403 Sep 02 j 01:12	12° ≙ 55'57		5	405 Dec 06 j 21:36	0° M	
	403 Sep 16 j 04:36	0° M			406 Jan 02 j 09:31	0° ∡ ¹	
	403 Oct 11 j 07:55	0° ∡ ¹			406 Jan 27 j 17:45	0°ප	
	403 Nov 06 j 03:30	8°0		desc. node	406 Feb 16 j 20:17	24° る 11'39	
evening max el	403 Dec 02 j 22:01	29° る 07'43	47°18'36		406 Feb 21 j 15:33	0° ≈	
	403 Dec 03 j 18:31	0° ≈			406 Mar 18 j 09:08	0°) €	
asc. node	403 Dec 24 j 04:14	18° ≈ 53'03			406 Apr 12 j 00:56	0° Y	

	406 May 06 j 15:40	$_{0\circ}$ 8		retrograde	408 Nov 07 j 10:55	15° ⊀ 16′03	
morning set	406 May 29 j 02:27	27° 8 25'47		evening set	408 Nov 21 j 17:17	11° √ 11'58	
	406 May 31 j 04:50	Π $^{\circ}0$		asc. node	408 Nov 24 j 18:26	9° ҂ 28'40	
asc. node	406 Jun 09 j 23:30	11° Ⅱ 59'02		inferior conj	408 Nov 27 j 22:26	7° ҂ ³34′00	0°49'24
	406 Jun 24 j 15:29	0 \circ		minimum elong	408 Nov 27 j 20:33	7° ∡ ³36'52	0°48'47
max. Earth dist.	406 Jul 01 j 11:00	8° 5 23'25	1.73342 AU	min. Earth dist.	408 Nov 27 j 15:22	7° √ 44'47	0.26365 AU
				morning rise	408 Dec 04 j 00:07	4° ₰ 02'04	
superior conj	406 Jul 04 j 09:24	12° 5 00'27	0°53'32		408 Dec 17 j 06:07	30°RML	
minimum elong	406 Jul 04 j 00:55	11° © 34'15	0°53'13	direct	408 Dec 18 j 06:37	29°M58'43	
	406 Jul 18 j 23:06	$0 {\circ} \Omega$			408 Dec 19 j 07:13	0° ∡ ¹	
evening rise	406 Aug 09 j 08:01	26° Ω 28'33		greatest brilliancy	408 Dec 28 j 02:06	1° ∡¹ 49'23	-4.9m
	406 Aug 12 j 04:12	O° m y			409 Feb 03 j 21:31	0°ಕ	
	406 Sep 05 j 08:09	0∘ ত		morning max el	409 Feb 06 j 12:32	2° る 35'47	46°40'39
desc. node	406 Sep 29 j 13:02	0°ML01'56			409 Mar 04 j 09:03	0° ≈	
	406 Sep 29 j 12:24	0° M .		desc. node	409 Mar 16 j 08:04	13° ≈ 23'59	
	406 Oct 23 j 18:05	0° ∡¹			409 Mar 30 j 19:57	0° ℋ	
	406 Nov 17 j 02:45	0°ರ			409 Apr 25 j 12:03	0 ° $\mathbf{\Upsilon}$	
	406 Dec 11 j 18:12	0° ≈			409 May 20 j 18:15	0°8	
	407 Jan 06 j 01:23	0° ∀			409 Jun 14 j 17:15	Π $^{\circ}0$	
asc. node	407 Jan 20 j 16:10	16° ₩ 39'01		asc. node	409 Jul 07 j 11:22	27° Ⅲ 39'23	
	407 Feb 01 j 22:11	0 ° Υ			409 Jul 09 j 09:23	0ංම	
evening max el	407 Feb 12 j 04:46	10° Ƴ 34'33	46°15'18		409 Aug 02 j 18:46	$0^{\circ}\Omega$	
	407 Mar 05 j 23:45	$_{0\circ}$ 8		morning set	409 Aug 04 j 20:39	2° Ω 34'16	
greatest brilliancy	407 Mar 23 j 01:00	10° 8 01'18	-4.8m		409 Aug 26 j 22:25	O° Mp	
retrograde	407 Apr 02 j 21:10	12° 8 11'10		max. Earth dist.	409 Sep 07 j 15:09	14° m 36'30	1.71892 AU
evening set	407 Apr 18 j 18:39	7° 8 15'27					
inferior conj	407 Apr 24 j 06:34	3° 8 54'10	4°03'01	superior conj	409 Sep 10 j 23:13	18° M 46'49	1°21'32
minimum elong	407 Apr 24 j 14:27	3° 8 41'46	4°00'58	minimum elong	409 Sep 11 j 04:24	19° m 03'03	1°21'28
min. Earth dist.	407 Apr 24 j 10:40	3° 8 47'44	0.28917 AU		409 Sep 19 j 22:18	0∘ ত	
morning rise	407 Apr 30 j 10:26	0° 8 10'35			409 Oct 13 j 20:30	0°M	
	407 Apr 30 j 18:05	30° ₹Ƴ		evening rise	409 Oct 20 j 05:32	7° M 59'52	
desc. node	407 May 12 j 05:33	25° Ƴ 51'20		desc. node	409 Oct 27 j 00:58	16°M32'26	
direct	407 May 15 j 19:09	25° Ƴ 36′12			409 Nov 06 j 18:36	0° ∡ ¹	
greatest brilliancy	407 May 26 j 00:57	27° Ƴ 29'44	-4.7m		409 Nov 30 j 17:42	0°₹	
	407 May 31 j 20:18	0°8			409 Dec 24 j 19:14	0° ≈	
morning max el	407 Jul 03 j 14:47	25° 8 21'58	45°46'13		410 Jan 18 j 02:00	0° ∀	
	407 Jul 08 j 09:25	Π $^{\circ}0$			410 Feb 11 j 18:53	0 ° $\mathbf{\Upsilon}$	
	407 Aug 05 j 19:06	0ංම		asc. node	410 Feb 17 j 04:02	6° Ƴ 25'57	
	407 Aug 31 j 22:52	0 $^{\circ}\Omega$			410 Mar 09 j 06:03	9° 8	
asc. node	407 Sep 02 j 09:03	1° Ω 40'41			410 Apr 05 j 04:05	Π $^{\circ}0$	
	407 Sep 25 j 23:22	0° m y		evening max el	410 Apr 23 j 23:08	19° Ⅱ 08'25	45°21'34
	407 Oct 20 j 08:16	0∘ ত			410 May 05 j 21:51	0ංම	
	407 Nov 13 j 09:05	0° M .		greatest brilliancy	410 May 31 j 17:27	16° © 41'12	-4.7m
	407 Dec 07 j 06:47	0° ∡ ¹		desc. node	410 Jun 08 j 17:36	18° © 35'29	
desc. node	407 Dec 22 j 22:34	19° ∡ ³39'53		retrograde	410 Jun 11 j 10:04	18° 5 43'40	
	407 Dec 31 j 04:14	0°ප		evening set	410 Jun 26 j 23:43	14° 5 07'52	
morning set	408 Jan 03 j 03:47	3° る 44'21		inferior conj	410 Jul 02 j 21:09	10° © 36'05	-5°16'39
	408 Jan 24 j 02:55	0° ≈		minimum elong	410 Jul 02 j 11:36	10° © 50'57	5°14'26
				min. Earth dist.	410 Jul 02 j 23:17	10° © 32'45	0.28865 AU
superior conj	408 Feb 13 j 09:07	25° ≈ 17'34	-1°25'02	morning rise	410 Jul 07 j 23:13	7° 5 30'45	
minimum elong	408 Feb 13 j 06:31	25° ≈ 09'28	1°25'01	direct	410 Jul 24 j 12:57	2° 5 20'12	
	408 Feb 17 j 03:48	0° ℋ		greatest brilliancy	410 Aug 04 j 05:02	4° 5 23'05	-4.8m
max. Earth dist.	408 Feb 17 j 08:49		1.72112 AU		410 Sep 08 j 14:48	$0 {\circ} \Omega$	
	408 Mar 12 j 07:46	0 ° $\mathbf{\gamma}$		morning max el	410 Sep 12 j 02:04	3° £ 22′21	46°17'45
evening rise	408 Mar 23 j 16:29	14° Ƴ 02'33		asc. node	410 Sep 29 j 20:46	21° Ω 54'11	
	408 Apr 05 j 15:34	$_{0\circ}$ 8			410 Oct 07 j 04:24	O° m y	
asc. node	408 Apr 14 j 01:49	10° 8 20'39			410 Nov 02 j 00:50	0∘ ত	
	408 Apr 30 j 03:39	$\Pi^{\circ}0$			410 Nov 26 j 19:41	0°M₊	
	408 May 24 j 20:31	0ංම			410 Dec 21 j 03:53	0° ∡ ¹	
	408 Jun 18 j 19:30	$0^{\circ}\Omega$			411 Jan 14 j 08:31	0°ප	
	408 Jul 14 j 03:44	0° m		desc. node	411 Jan 19 j 10:28	6° る 18'25	
desc. node	408 Aug 03 j 15:15	23° Mp 43'01			411 Feb 07 j 12:46	0° ≈	
	408 Aug 09 j 03:45	0∘ ⊽			411 Mar 03 j 18:02	0° ∀	
	408 Sep 05 j 11:25	0°M₊		morning set	411 Mar 19 j 03:50	19°) 02'47	
evening max el	408 Sep 18 j 03:37	12°M58'25	46°56'34		411 Mar 28 j 00:54	0° Y	
	408 Oct 06 j 20:11	0° ∡ ¹			411 Apr 21 j 09:31	9° 8	
greatest brilliancy	408 Oct 28 j 15:59	13° ∡ 27'43	-4.9m				

superior conj	411 Apr 25 j 17:51	5° 8 20'41	-0°38'30	min. Earth dist.	413 Sep 13 j 00:40	19° m 31'24	0.27658 AU
minimum elong	411 Apr 26 j 01:14	5° 8 43'21		morning rise	413 Sep 15 j 20:57	17° m) 48'49	0.27030710
max. Earth dist.	411 Apr 26 j 22:00	6° 8 47'10		direct	413 Oct 03 j 05:10	12° m 03'34	
asc. node	411 May 12 j 13:46	26° 8 01'24		greatest brilliancy	413 Oct 14 j 09:08	14° m 23'19	-4.9m
	411 May 15 j 19:29	0°Ⅲ		asc. node	413 Oct 27 j 08:39	21° mp 43'31	
evening rise	411 Jun 01 j 07:27	20° Ⅱ 14'54			413 Nov 06 j 18:26	0° ق	
	411 Jun 09 j 06:10	0ಂತ		morning max el	413 Nov 22 j 23:59	15° ≏ 27'51	46°54'11
	411 Jul 03 j 17:23	$0^{\circ}\Omega$		-	413 Dec 06 j 16:27	0°M	
	411 Jul 28 j 05:50	0° m			414 Jan 02 j 00:40	0°⊀	
	411 Aug 21 j 21:06	0∘ ⊽			414 Jan 27 j 07:12	ರ°0	
desc. node	411 Sep 01 j 03:09	12° ≏ 24'58		desc. node	414 Feb 15 j 22:17	23° る 39'33	
	411 Sep 15 j 17:19	0° M			414 Feb 21 j 04:00	0° ≈	
	411 Oct 10 j 21:58	0°⊀			414 Mar 17 j 20:55	0° ℋ	
	411 Nov 05 j 20:00	0° ප			414 Apr 11 j 12:17	0 ° $\mathbf{\Upsilon}$	
evening max el	411 Nov 30 j 11:26	26° る 42'35	47°19'38		414 May 06 j 02:42	0° 8	
	411 Dec 03 j 17:28	0° ≈		morning set	414 May 26 j 20:46	25° 8 21'43	
asc. node	411 Dec 23 j 06:23	17° ≈ 42'18			414 May 30 j 15:41	$\Pi^{\circ}0$	
greatest brilliancy	412 Jan 10 j 01:08	28° ≈ 30'41	-4.9m	asc. node	414 Jun 09 j 01:36	11° ∏ 32′21	
_	412 Jan 14 j 23:47	0° ∀			414 Jun 24 j 02:16	0°©	
retrograde	412 Jan 20 j 11:52	0°) 36′09		max. Earth dist.	414 Jun 29 j 09:28	6° © 31'33	1.73372 AU
	412 Jan 25 j 21:03	30°R≈			414 7 1 00:00 50	00056106	0051105
evening set	412 Feb 07 j 03:31	24°≈31'57	0.27020 ATT	superior conj	414 Jul 02 j 03:58	9°956'26	0°51'05
min. Earth dist.	412 Feb 09 j 17:34	22°≈55'19	0.27838 AU	minimum elong	414 Jul 01 j 19:38	9° © 30'45	0°50'45
inferior conj	412 Feb 10 j 11:55	22°≈26'21	8°36'51	avanina rica	414 Jul 18 j 09:53 414 Aug 07 j 01:43	0° Ω 24° Ω 20'46	
minimum elong	412 Feb 10 j 08:51	22°≈31'12 20°≈30'12	8 30 43	evening rise	C J	0°M)	
morning rise direct	412 Feb 13 j 14:24 412 Mar 02 j 07:22	20 ≈30 12 14°≈28'24			414 Aug 11 j 15:07 414 Sep 04 j 19:18	0∘ ऌ ० ाप्र	
greatest brilliancy	412 Mar 11 j 07:19	14 ≈28 24 15°≈58'37	-4 8m	desc. node	414 Sep 04 j 15:18 414 Sep 28 j 15:09	0 = 29° £ 33'00	
greatest offinality	412 Mar 11 j 07:19 412 Apr 03 j 15:12	0° ∺	-4 .0III	desc. node	414 Sep 28 j 23:52	0° M.	
desc. node	412 Apr 12 j 19:51	7° ¥ 52'58			414 Oct 23 j 05:57	0° ⊼ ¹	
morning max el	412 Apr 20 j 09:42	14°) 57'53	45°58'36		414 Nov 16 j 15:11	°ਤ ਰ∘ਰ	
morning max or	412 May 05 j 08:26	0°Υ	15 5050		414 Dec 11 j 07:30	0° ≈	
	412 Jun 01 j 22:39	0°8			415 Jan 05 j 16:21	0°) €	
	412 Jun 28 j 02:54	0°II		asc. node	415 Jan 19 j 18:09	15° ¥ 58'17	
	412 Jul 23 j 11:40	0ಂತಾ			415 Feb 01 j 17:13	$0^{\circ}\Upsilon$	
asc. node	412 Aug 03 j 23:12	13° © 49'35		evening max el	415 Feb 09 j 21:03	8° Ƴ 21'29	46°17'57
	412 Aug 17 j 06:09	$0^{\circ}\Omega$			415 Mar 06 j 15:50	0° ႘	
	412 Sep 10 j 13:46	0° m		greatest brilliancy	415 Mar 20 j 17:37	7° 8 51'03	-4.8m
	412 Oct 04 j 14:10	0∘ ⊽		retrograde	415 Mar 31 j 14:17	10° 8 00'59	
morning set	412 Oct 15 j 01:49	13° ≏ 09'56		evening set	415 Apr 16 j 13:28	5° 8 01'57	
	412 Oct 28 j 10:54	0° M		inferior conj	415 Apr 21 j 22:57	1° 8 43'46	4°20'20
	412 Nov 21 j 06:38	0°⊀		minimum elong	415 Apr 22 j 07:14	1° 8 30'43	4°18'14
desc. node	412 Nov 23 j 12:53	2° ∡ 750'47		min. Earth dist.	415 Apr 22 j 02:26	1° 8 38'17	0.28903 AU
					415 Apr 24 j 17:22	30° ₹Ƴ	
superior conj	412 Nov 24 j 15:52	4° ₹ 15'44	-0°02'43	morning rise	415 Apr 28 j 01:15	28° Y 02'27	
minimum elong	412 Nov 24 j 15:07	4° ≯ 13'22	0°02'41	desc. node	415 May 11 j 07:43	23° Ƴ 31'47	
behind sun begin	412 Nov 23 j 12:48	2° ≯ 50'30		direct	415 May 13 j 11:45	23° Y 26′14	
behind sun end	412 Nov 25 j 17:27	5° ₹ 36'15		greatest brilliancy	415 May 23 j 15:27	25° Y 18'19	-4.7m
max. Earth dist.	412 Nov 25 j 16:24	5° ₹ 32'59	1.71027 AU		415 Jun 02 j 10:40	0° 8	15015116
	412 Dec 15 j 02:54	0°る		morning max el	415 Jul 01 j 07:26	23° 8 13'39	45°45'46
evening rise	413 Jan 05 j 10:07	26°₹43'57			415 Jul 08 j 05:49	0° I I	
	413 Jan 08 j 00:44	0° ≈ 0° ∀			415 Aug 05 j 10:13	$0 {\circ} {\mathfrak O}$	
	413 Feb 01 j 01:31	0 K 0°Υ		asa mada	415 Aug 31 j 12:00	0 3ℓ 1° Ω 07'57	
asc. node	413 Feb 25 j 07:16 413 Mar 16 j 15:59	23° Υ 41'53		asc. node	415 Sep 01 j 11:01 415 Sep 25 j 11:33	0°m/	
asc. node	413 Mar 21 j 20:30	0° 8			415 Oct 19 j 19:59	0∘ ⊽	
	413 Apr 15 j 20:14	0°II			415 Nov 12 j 20:33	0° m	
	413 May 11 j 11:21	0 . ಹ			415 Dec 06 j 18:07	0° ∡ 7	
	413 Jun 07 j 05:00	0° U		desc. node	415 Dec 22 j 00:38	19° ∡ 11'02	
evening max el	413 Jul 04 j 05:31	27° Ω 50'17	45°41'29		415 Dec 30 j 15:28	0°る	
desc. node	413 Jul 06 j 05:30	29° Ω 44'06		morning set	415 Dec 31 j 13:40	1° る 09'38	
	413 Jul 06 j 12:16	0° m/y		5 ·	416 Jan 23 j 14:05	0° ≈	
greatest brilliancy	413 Aug 13 j 00:45	26° m 17'55	-4.8m		<i>y</i>		
retrograde	413 Aug 22 j 05:28	27° m 50'26		superior conj	416 Feb 10 j 21:12	22° ≈ 50'57	-1°24'31
evening set	413 Sep 09 j 00:01	21° m 57'22		minimum elong	416 Feb 10 j 17:38	22° ≈ 39'52	
inferior conj	413 Sep 12 j 04:47	20° Mp 01'45	-8°28'46	max. Earth dist.	416 Feb 14 j 23:17	27° ≈ 56'36	1.72060 AU
minimum elong	413 Sep 12 j 10:37	19° m 52'51	8°28'16		416 Feb 16 j 14:55	0° ∀	

	416 Mar 11 j 18:51	0° Y		morning max el	418 Sep 09 j 16:27	1° Ω 04'37	46°16'19
evening rise	416 Mar 21 j 07:03	11° Y 45'14		asc. node	418 Sep 28 j 23:01	21° Ω 12'44	
Č	416 Apr 05 j 02:40	0° ႘			418 Oct 06 j 20:41	0°m	
asc. node	416 Apr 13 j 03:58	9° 8 53'03			418 Nov 01 j 14:46	0∘ <u>⊽</u>	
	416 Apr 29 j 14:55	0°II			418 Nov 26 j 08:31	0° M	
	416 May 24 j 08:08	0°9			418 Dec 20 j 16:06	0° ∡ 7	
	416 Jun 18 j 07:47	0° U			419 Jan 13 j 20:19	0°ਤ 0°ਤ	
	·			JJ.	-		
	416 Jul 13 j 17:09	0° m/)		desc. node	419 Jan 18 j 12:27	5° る 48'12	
desc. node	416 Aug 02 j 17:13	23° m/06'15			419 Feb 07 j 00:15	0° ≈	
	416 Aug 08 j 19:12	0∘ ⊽			419 Mar 03 j 05:15	0° ∀	
	416 Sep 05 j 07:25	0° M ₊		morning set	419 Mar 16 j 18:57	16°) 46′56	
evening max el	416 Sep 15 j 17:42	10°M36'02	46°54'17		419 Mar 27 j 11:57	0°Υ	
	416 Oct 07 j 11:22	0° ≯ 7			419 Apr 20 j 20:29	$8^{\circ 0}$	
greatest brilliancy	416 Oct 26 j 05:45	10° ₹ 759'54	-4.9m				
retrograde	416 Nov 04 j 23:04	12° ∡ ¹46'21		superior conj	419 Apr 23 j 11:09	3° 8 12'40	-0°41'21
evening set	416 Nov 19 j 06:09	8° ∡ ¹42'31		minimum elong	419 Apr 23 j 18:58	3° 8 36'42	0°41'01
asc. node	416 Nov 23 j 20:29	6° ₺ 03'30		max. Earth dist.	419 Apr 24 j 16:24	4° 8 42'33	1.73448 AU
inferior conj	416 Nov 25 j 10:45	5° ∡ 05'15	0°24'56	asc. node	419 May 11 j 15:51	25° 8 34'05	
minimum elong	416 Nov 25 j 09:48	5° ₹ 06'42	0°24'37		419 May 15 j 06:28	$\Pi^{\circ}0$	
min. Earth dist.	416 Nov 25 j 05:18	5° ∡ 13'34	0.26355 AU	evening rise	419 May 30 j 02:18	18° Ⅱ 11'42	
morning rise	416 Dec 01 j 13:40	1° ∡ "31'25			419 Jun 08 j 17:16	0ංම	
C	416 Dec 04 j 16:57	30°RML			419 Jul 03 j 04:41	$0^{\circ}\Omega$	
direct	416 Dec 15 j 19:01	27°MJ30'14			419 Jul 27 j 17:30	0° m	
greatest brilliancy	416 Dec 25 j 16:01	29°M21'54	-4.9m		419 Aug 21 j 09:21	0∘ <mark>ಹ</mark>	
greatest similare	416 Dec 27 j 07:21	0° × 7	,	desc. node	419 Aug 31 j 05:16	11° ≙ 53'25	
	417 Feb 03 j 21:25	0° ठ		desc. node	419 Sep 15 j 06:26	0°M	
morning max el	417 Feb 04 j 00:58	0°る08'53	46°41'46		419 Oct 10 j 12:29	0° ∡ 7	
morning max ci	417 Mar 04 j 01:50	0°≈	40 41 40		419 Oct 10 j 12:29 419 Nov 05 j 13:07	0°ਤ	
desc. node	·	0 ≈ 12°≈46'31		evening max el	419 Nov 03 j 13.07 419 Nov 28 j 01:23	0 3 24° る 18'02	47020120
desc. Hode	417 Mar 15 j 10:12	0° \		evening max er	·		47 20 36
	417 Mar 30 j 10:06	0° Υ		1	419 Dec 03 j 17:47	0°≈	
	417 Apr 25 j 00:50			asc. node	419 Dec 22 j 08:25	16°≈28'28	4.0
	417 May 20 j 06:14	0° B		greatest brilliancy	420 Jan 07 j 16:28	26°≈09'33	-4.9m
	417 Jun 14 j 04:43	0°II		retrograde	420 Jan 18 j 02:57	28°≈15'15	
asc. node	417 Jul 06 j 13:22	27° Ⅱ 11'18		evening set	420 Feb 04 j 15:57	22°≈14'44	
	417 Jul 08 j 20:33	0ංම		min. Earth dist.	420 Feb 07 j 07:28	20° ≈ 36′11	0.27776 AU
	417 Aug 02 j 05:49	0 \circ Ω		inferior conj	420 Feb 08 j 02:34	20°≈06'08	8°33'35
morning set	417 Aug 02 j 13:30	0° Ω 23'45		minimum elong	420 Feb 07 j 22:40	20°≈12'15	8°33'22
	417 Aug 26 j 09:28	0° m)		morning rise	420 Feb 11 j 05:37	18° ≈ 09'23	
max. Earth dist.	417 Sep 05 j 02:53	12°M)08'35	1.71947 AU	direct	420 Feb 28 j 20:49	12° ≈ 09'00	
				greatest brilliancy	420 Mar 08 j 20:59	13° ≈ 39'32	-4.8m
superior conj	417 Sep 08 j 14:33	16° Mp 30'03	1°22'24		420 Apr 04 j 00:13	0° ∀	
minimum elong	417 Sep 08 j 19:00	16° m 43'58	1°22'21	desc. node	420 Apr 11 j 22:00	6°) 57'43	
	417 Sep 19 j 09:25	0∘ 亚		morning max el	420 Apr 18 j 00:30	12°) (42′22	45°59'51
	417 Oct 13 j 07:44	0° M .			420 May 05 j 02:42	0 ° Υ	
evening rise	417 Oct 17 j 17:14	5°M30'43			420 Jun 01 j 13:09	8°	
desc. node	417 Oct 26 j 03:08	16°ML03'43			420 Jun 27 j 15:46	$\Pi^{\circ}0$	
	417 Nov 06 j 05:58	0° ∡ ¹			420 Jul 22 j 23:43	0ංම	
	417 Nov 30 j 05:13	0°₹		asc. node	420 Aug 03 j 01:15	13° © 20'08	
	417 Dec 24 j 06:59	0° ≈			420 Aug 16 j 17:43	0°N	
	418 Jan 17 j 14:06	0° ∀			420 Sep 10 j 01:05	0° m ⁄	
	418 Feb 11 j 07:39	0° Υ			420 Oct 04 j 01:23	0∘ <mark>ಹ</mark> ಂ.ಗ	
asc. node	418 Feb 16 j 06:05	5° Υ 53'24		morning set	420 Oct 12 j 14:42	0 — 10° ≏ 44'24	
use. Houe	418 Mar 08 j 20:12	0°8		morning sec	420 Oct 27 j 22:07	0°M	
	418 Apr 04 j 21:35	0°II			420 Nov 20 j 17:53	0° ⊼ ¹	
avaning may al			45022112		420 NOV 20 J 17.33	0 🗴	
evening max el	418 Apr 21 j 13:54 418 May 06 j 04:21	16° Ⅱ 54′25 0° ©	73 44 13	superior conj	420 Nov 22 j 01:26	1° ∡ ³39'22	0°01'21
			4.7		-		
greatest brilliancy	418 May 29 j 08:59	14°930'34	-4 ./111	minimum elong	420 Nov 22 j 01:47	1°×740'28	0°01'20
desc. node	418 Jun 07 j 19:40	16°931'48		behind sun begin	420 Nov 20 j 23:20	0° ★ 17'10	
retrograde	418 Jun 09 j 01:36	16°933'35		behind sun end	420 Nov 23 j 04:14	3° х ⁷ 03'44	
evening set	418 Jun 24 j 13:36	12°900'10	5000127	desc. node	420 Nov 22 j 14:51	2° x ⁷ 21'39	1.71020 ***
inferior conj	418 Jun 30 j 13:12	8°525'36		max. Earth dist.	420 Nov 23 j 00:26	2° ₹ 51'46	1.71028 AU
minimum elong	418 Jun 30 j 03:54	8°540'06			420 Dec 14 j 14:10	0°る	
min. Earth dist.	418 Jun 30 j 15:34	8° © 21'56	0.28881 AU	evening rise	421 Jan 02 j 20:12	24° る 09'53	
morning rise	418 Jul 05 j 17:52	5°€16'25			421 Jan 07 j 12:01	0° ≈	
direct	418 Jul 22 j 04:31	0°909'17			421 Jan 31 j 12:51	0° ∀	
greatest brilliancy	418 Aug 01 j 21:36	2° © 12'32	-4.8m		421 Feb 24 j 18:44	$0^{\circ}\mathbf{\Upsilon}$	
	418 Sep 08 j 14:04	0 $^{\circ}$ Ω		asc. node	421 Mar 15 j 18:11	23° Y 13'02	

	421 Mar 21 j 08:16	9° 8			423 Oct 19 j 07:42	0∘ ত	
	421 Apr 15 j 08:38	Π $\circ 0$			423 Nov 12 j 08:02	0° M	
	421 May 11 j 01:03	0			423 Dec 06 j 05:24	0° ∡ 7	
	421 Jun 06 j 21:31	$0 {\circ} \Omega$		desc. node	423 Dec 21 j 02:40	18° ∡ ⁴42'13	
evening max el	421 Jul 01 j 20:28	25° Ω 35'27	45°39'29	morning set	423 Dec 28 j 23:15	28° 渘 ³34′09	
desc. node	421 Jul 05 j 07:28	28° Ω 50′59			423 Dec 30 j 02:37	ರ∘ರ	
	421 Jul 06 j 13:21	O° Mp			424 Jan 23 j 01:08	0° ≈	
greatest brilliancy	421 Aug 10 j 12:16	23° M 56'22	-4.8m				
retrograde	421 Aug 19 j 19:04	25° M 30'07		superior conj	424 Feb 08 j 09:06	20° ≈ 24'10	-1°23'52
evening set	421 Sep 06 j 15:04	19° m 34'19		minimum elong	424 Feb 08 j 04:35	20°≈10′06	1°23'49
inferior conj	421 Sep 09 j 18:25	17° Mp 40'36	-8°34'02	max. Earth dist.	424 Feb 12 j 14:11		1.72002 AU
minimum elong	421 Sep 09 j 23:28	17° m 32'53			424 Feb 16 j 01:53	0° ∀	
min. Earth dist.	421 Sep 10 j 13:29	17° m 11'29	0.27722 AU		424 Mar 11 j 05:47	$_{0}$ $^{\circ}$ Υ	
morning rise	421 Sep 13 j 07:40	15° m/31'56		evening rise	424 Mar 18 j 21:34	9° Y 28'05	
direct	421 Sep 30 j 20:12	9° m 41'39		evening rise	424 Apr 04 j 13:38	0°8	
greatest brilliancy	421 Oct 11 j 22:50	12° Mp 00'24	-4 9m	asc. node	424 Apr 12 j 06:03	9° 8 25'43	
asc. node	421 Oct 26 j 10:40	20° m/25'18	1.7111	use. Houe	424 Apr 29 j 02:02	0°Ⅱ	
use. Hode	421 Nov 07 j 01:31	ე∘ <u>ი</u>			424 May 23 j 19:36	0 . ಹ	
morning max el	421 Nov 20 j 15:00	0 = 13° ⊆ 06'08	16053133		424 Jun 17 j 19:54	0°Ω	
morning max ci	421 Nov 20 j 13:00 421 Dec 06 j 10:58	0°M	40 33 32		424 Jul 13 j 06:25	0° m	
	•	0° ⊼ 1		desc. node	·		
	422 Jan 01 j 15:42			desc. node	424 Aug 01 j 19:22	22° m 30'27	
	422 Jan 26 j 20:36	0°る			424 Aug 08 j 10:38	0∘ 亚	
desc. node	422 Feb 15 j 00:22	23° る 07'42			424 Sep 05 j 03:52	0°M	46051140
	422 Feb 20 j 16:27	0° ≈		evening max el	424 Sep 13 j 06:33	8°M11'00	46°51'40
	422 Mar 17 j 08:44	0°)			424 Oct 08 j 07:36	0° ∡	
	422 Apr 10 j 23:39	0° Υ		greatest brilliancy	424 Oct 23 j 19:42	8° ≯ 31'52	-4.9m
	422 May 05 j 13:46	9° 8		retrograde	424 Nov 02 j 10:28	10° ≯ 16′05	
morning set	422 May 24 j 15:18	23° 8 18'14		evening set	424 Nov 16 j 18:54	6° ≯ 11'55	
	422 May 30 j 02:34	Π $\circ 0$		inferior conj	424 Nov 22 j 22:47	2° ҂ 35'53	0°00'10
asc. node	422 Jun 08 j 03:37	11° Ⅱ 05'17		minimum elong	424 Nov 22 j 22:47	2° ∡ ³35'53	0°00'10
	422 Jun 23 j 13:04	0°€		transit middle	424 Nov 22 j 22:47	2° ∡ ³35'53	0°00'10
max. Earth dist.	422 Jun 27 j 07:27	4° 5 38'09	1.73404 AU	transit begin	424 Nov 22 j 18:43	2° ∡ ¹42'06	
				transit end	424 Nov 23 j 02:51	2° ҂ 29'41	
superior conj	422 Jun 29 j 22:36	7° © 52'38	0°48'34	asc. node	424 Nov 22 j 22:31	2° ∡ ³36′17	
minimum elong	422 Jun 29 j 14:29	7° 5 27'38	0°48'14	min. Earth dist.	424 Nov 22 j 19:23	2° ∡ ¹41′04	0.26353 AU
	422 Jul 17 j 20:45	$0^{\circ}\Omega$			424 Nov 27 j 07:21	30°RM₊	
evening rise	422 Aug 04 j 19:22	22° Ω 12'40		morning rise	424 Nov 29 j 02:44	29°M00'22	
	422 Aug 11 j 02:09	0° m		direct	424 Dec 13 j 06:39	25°M00'43	
	422 Sep 04 j 06:36	0∘ ⊽		greatest brilliancy	424 Dec 23 j 06:25	26°M54'23	-4.9m
desc. node	422 Sep 27 j 17:17	29° ഫ 03'40		· ·	424 Dec 29 j 23:07	0°⊀	
	422 Sep 28 j 11:28	0°M.		morning max el	425 Feb 01 j 12:57	27° ∡ ¹40'45	46°43'07
	422 Oct 22 j 17:57	0° √		Č	425 Feb 03 j 20:15	0°ರ	
	422 Nov 16 j 03:43	0°ප			425 Mar 03 j 18:08	0° ≈	
	422 Dec 10 j 20:56	0° ≈		desc. node	425 Mar 14 j 12:23	12°≈10'05	
	423 Jan 05 j 07:29	0°) €		dese. node	425 Mar 29 j 23:51	0°) €	
asc. node	423 Jan 18 j 20:13	15°) 17'30			425 Apr 24 j 13:16	0° Υ	
use. node	423 Feb 01 j 12:45	0°Υ			425 May 19 j 17:51	0°8	
evening max el	423 Feb 07 j 13:13	6° Υ 07'59	46°20'33		425 Jun 13 j 15:51	0°II	
evening max er	423 Mar 07 j 13:13	0° と	40 20 33	asc. node	425 Jul 05 j 15:30	26° Ⅱ 44'34	
greatest brilliancy	423 Mar 18 j 10:55	5° 8 41'43	-4.8m	asc. node	425 Jul 08 j 07:25	20 ଲ ++3+ 0°9େ	
	-	7° 8 50'53	-4.0111	marning got	-	28°9515'24	
retrograde	423 Mar 29 j 07:03	2° 8 48'41		morning set	425 Jul 31 j 06:43	28 3 13 24 0° Ω	
evening set	423 Apr 14 j 08:27				425 Aug 01 j 16:33		
	423 Apr 18 j 22:46	30°RƳ	4025115	E d F	425 Aug 25 j 20:12	0° m	1 72004 411
inferior conj	423 Apr 19 j 15:24	29° Υ 33'43	4°37'17	max. Earth dist.	425 Sep 02 j 17:50	9° m 51'45	1.72004 AU
minimum elong	423 Apr 20 j 00:01	29° Υ 20'07	4°35'10		10.5.0	1.40 ** 1.510.4	1000106
min. Earth dist.	423 Apr 19 j 18:29	29° Y 28'51	0.28886 AU	superior conj	425 Sep 06 j 06:16	14° m 15'34	
morning rise	423 Apr 25 j 15:54	25° Y 54'40		minimum elong	425 Sep 06 j 09:59	14° m)27'10	1°23'05
desc. node	423 May 10 j 09:42	21° Υ 17'25			425 Sep 18 j 20:14	0∘ ⊽	
direct	423 May 11 j 04:14	21°Υ16'43			425 Oct 12 j 18:41	0°M	
greatest brilliancy	423 May 21 j 06:01	23° Y 07'12	-4.7m	evening rise	425 Oct 15 j 05:15	3°M03'31	
	423 Jun 03 j 13:18	0° 8		desc. node	425 Oct 25 j 05:08	15°M35'21	
morning max el	423 Jun 28 j 23:16	21° 8 03'48	45°45'21		425 Nov 05 j 17:06	0° ∡ ¹	
	423 Jul 08 j 01:26	$\Pi^{\circ}0$			425 Nov 29 j 16:34	0° ප	
	423 Aug 05 j 01:00	0 \circ \odot			425 Dec 23 j 18:34	0° ≈	
	423 Aug 31 j 00:57	$0^{\circ}\Omega$			426 Jan 17 j 02:02	0°) €	
asc. node	423 Aug 31 j 13:15	0° Ω 36′22			426 Feb 10 j 20:15	$0^{\circ}\mathbf{\Upsilon}$	
	423 Sep 24 j 23:41	0° m		asc. node	426 Feb 15 j 08:16	5° Y 21'51	

	426 Mar 08 j 10:13	0°8			428 Oct 03 j 12:14	0∘ ⊽	
	426 Apr 04 j 15:06	$\Pi^{\circ}0$		morning set	428 Oct 10 j 04:04	8° ഫ 21'31	
evening max el	426 Apr 19 j 04:45	14° Ⅱ 41'46	45°23'10		428 Oct 27 j 08:58	0° M	
	426 May 06 j 12:42	0ං ව					
greatest brilliancy	426 May 27 j 00:05	12°520'51	-4.7m	superior conj	428 Nov 19 j 11:31	29°M05'46	0°05'20
retrograde	426 Jun 06 j 17:42	14°925'12		minimum elong	428 Nov 19 j 12:56	29°M10'16	0°05'16
desc. node	426 Jun 06 j 21:42	14°525'11		behind sun begin	428 Nov 18 j 11:38	27°M50'35	
evening set	426 Jun 22 j 03:49	9°953'42	4042157	behind sun end	428 Nov 20 j 14:14	0° х 29'55 0° х	
inferior conj	426 Jun 28 j 05:24 426 Jun 27 j 20:24	6°916'39		may Earth dist	428 Nov 20 j 04:44	0° x ¹ 0° x ¹17'29	1.71026 AU
minimum elong min. Earth dist.	426 Jun 28 j 07:47	6°930'40 6°912'56	4°41'44 0.28896 AU	max. Earth dist. desc. node	428 Nov 20 j 10:17 428 Nov 21 j 16:56	1° x 53'59	1./1020 AU
morning rise	426 Jul 03 j 12:37	3°903'54	0.20090 AU	desc. node	428 Nov 21 j 10:30 428 Dec 14 j 01:02	0°る	
morning rise	426 Jul 09 j 18:33	30°R∏		evening rise	428 Dec 31 j 06:35	0 8 21° る 37'53	
direct	426 Jul 19 j 20:21	27° II 59'50		evening rise	429 Jan 06 j 22:55	21 ⊙ 3733	
direct	426 Jul 30 j 10:13	0°9			429 Jan 30 j 23:50	0° ∺	
greatest brilliancy	426 Jul 30 j 14:16	0°903'41	-4.8m		429 Feb 24 j 05:55	0° Υ	
morning max el	426 Sep 07 j 07:57	28°951'12		asc. node	429 Mar 14 j 20:10	22° Ƴ 44'22	
morning man vi	426 Sep 08 j 11:51	0°Ω	.0 1.00	use. noue	429 Mar 20 j 19:47	0°8	
asc. node	426 Sep 28 j 01:00	20° £ 32′24			429 Apr 14 j 20:49	0°II	
	426 Oct 06 j 12:13	0° m)			429 May 10 j 14:34	0°9	
	426 Nov 01 j 04:10	0∘ <u>⊽</u>			429 Jun 06 j 14:01	$0^{\circ}\Omega$	
	426 Nov 25 j 20:55	0°M		evening max el	429 Jun 29 j 11:42	23° Ω 22'23	45°37'40
	426 Dec 20 j 03:57	0° ∡ ¹		desc. node	429 Jul 04 j 09:38	27° Ω 58′24	
	427 Jan 13 j 07:49	0°రె			429 Jul 06 j 15:17	0° m	
desc. node	427 Jan 17 j 14:36	5° る 19'22		greatest brilliancy	429 Aug 08 j 00:19	21° m 37'09	-4.8m
	427 Feb 06 j 11:28	0° ≈		retrograde	429 Aug 17 j 08:29	23° m 11'33	
	427 Mar 02 j 16:13	0° ∀		evening set	429 Sep 04 j 06:04	17° m 13'41	
morning set	427 Mar 14 j 09:31	14°) 30′01		inferior conj	429 Sep 07 j 08:18	15° m 21'20	-8°38'29
	427 Mar 26 j 22:42	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	429 Sep 07 j 12:32	15° m 14'51	8°38'14
	427 Apr 20 j 07:07	9° 8		min. Earth dist.	429 Sep 08 j 02:36	14° m 53'18	0.27784 AU
				morning rise	429 Sep 10 j 18:49	13° m 16'25	
superior conj	427 Apr 21 j 04:06	1° 8 04'32		direct	429 Sep 28 j 11:22	7° m 21'39	
minimum elong	427 Apr 21 j 12:20	1° 8 29'49		greatest brilliancy	429 Oct 09 j 12:43	9° ™ 39'04	-4.9m
max. Earth dist.	427 Apr 22 j 11:22	2° 8 40'39	1.73419 AU	asc. node	429 Oct 25 j 12:42	19° m 10'37	
asc. node	427 May 10 j 17:50	25° 8 07'33			429 Nov 07 j 06:03	0∘ ⊽	
	427 May 14 j 17:05	0°II		morning max el	429 Nov 18 j 05:28	10° £ 44'05	46°52'52
evening rise	427 May 27 j 21:07	16° Ⅱ 09'30			429 Dec 06 j 04:41	0° M	
	427 Jun 08 j 03:59	0°©			430 Jan 01 j 06:12	0° ∡	
	427 Jul 02 j 15:38	0° N		1 1	430 Jan 26 j 09:34	0°る 220 ろ 27102	
	427 Jul 27 j 04:50	0° m)		desc. node	430 Feb 14 j 02:30	22° る 37'03	
desc. node	427 Aug 20 j 21:15	0∘ ত			430 Feb 20 j 04:31	0° ≈ 0° ∀	
desc. node	427 Aug 30 j 07:25 427 Sep 14 j 19:13	11° ≏ 23'03 0° ™			430 Mar 16 j 20:14 430 Apr 10 j 10:46	0 Υ 0° Υ	
	427 Oct 10 j 02:41	0° ⊼ 7			430 May 05 j 00:37	0° 8	
	427 Nov 05 j 06:05	°ਤ ਨ		morning set	430 May 22 j 09:39	21° 8 14'50	
evening max el	427 Nov 25 j 16:13	21°る57'02	47°21'23	morning set	430 May 29 j 13:13	0°II	
evening max er	427 Dec 03 j 18:47	0°≈	47 21 25	asc. node	430 Jun 07 j 05:45	10° ∏ 39'14	
asc. node	427 Dec 21 j 10:29	15° ≈ 13'24			430 Jun 22 j 23:39	0°ಅ	
greatest brilliancy	428 Jan 05 j 06:58	23° ≈ 47'57	-4.9m	max. Earth dist.	430 Jun 25 j 03:36		1.73431 AU
retrograde	428 Jan 15 j 18:14	25° ≈ 54'30			,		
evening set	428 Feb 02 j 03:52	19° ≈ 58'00		superior conj	430 Jun 27 j 17:06	5°549'09	0°45'59
min. Earth dist.	428 Feb 04 j 20:56	18° ≈ 17′23	0.27718 AU	minimum elong	430 Jun 27 j 09:15	5° © 24'57	0°45'39
inferior conj	428 Feb 05 j 16:58	17° ≈ 45'54	8°29'24		430 Jul 17 j 07:23	$0^{\circ}\Omega$	
minimum elong	428 Feb 05 j 12:18	17° ≈ 53'14	8°29'04	evening rise	430 Aug 02 j 13:01	20° Ω 05'19	
morning rise	428 Feb 08 j 21:00	15° ≈ 48′00			430 Aug 10 j 12:57	O° My	
direct	428 Feb 26 j 10:35	9° ≈ 49'38			430 Sep 03 j 17:40	0° ⊽	
greatest brilliancy	428 Mar 06 j 10:08	11° ≈ 20′05	-4.8m	desc. node	430 Sep 26 j 19:14	28° ≏ 34'27	
	428 Apr 04 j 06:32	0° ∀			430 Sep 27 j 22:53	0° M	
desc. node	428 Apr 10 j 23:58	6° ∺ 03'44			430 Oct 22 j 05:48	0° ∡	
morning max el	428 Apr 15 j 16:02	10° ∺ 29'14	46°01'08		430 Nov 15 j 16:08	0° ප	
	428 May 04 j 20:17	0°Υ			430 Dec 10 j 10:15	0° ≈	
	428 Jun 01 j 03:12	0° B			431 Jan 04 j 22:35	0°) (
	428 Jun 27 j 04:13	0°II		asc. node	431 Jan 17 j 22:25	14°) € 37′21	
1	428 Jul 22 j 11:19	0.2 0.2			431 Feb 01 j 08:33	0° Υ	46022107
asc. node	428 Aug 02 j 03:23	12°952'13		evening max el	431 Feb 05 j 04:37	3° Y 53'12	46°23'07
	428 Aug 16 j 04:52	0° Ω		grantast brill:	431 Mar 08 j 18:56	0°8 2°¥22!25	1000
	428 Sep 09 j 12:01	0° m		greatest brilliancy	431 Mar 16 j 04:32	3° 8 33'25	-4 .0111

retrograde	431 Mar 26 j 23:18	5° 8 41'28		max. Earth dist.	433 Aug 31 j 09:52	7° m 37'49	1.72060 AU
evening set	431 Apr 12 j 03:30	0° 8 35'58			5 3	•	
	431 Apr 13 j 03:53	30° ₹Ƴ		superior conj	433 Sep 03 j 21:54	12°M/00'16	1°23'42
inferior conj	431 Apr 17 j 07:55	27° Y 24'24		minimum elong	433 Sep 04 j 00:52	12° m 09'30	1°23'40
minimum elong	431 Apr 17 j 16:49	27° Y ′10′19	4°51'44		433 Sep 18 j 07:12	0∘ ⊽	
min. Earth dist.	431 Apr 17 j 10:52	27° Y 19'44	0.28870 AU		433 Oct 12 j 05:48	0° M ₅	
morning rise	431 Apr 23 j 06:26	23° Y 47'44		evening rise	433 Oct 12 j 17:15	0°M35'52	
direct	431 May 08 j 20:26	19° 个 07'49 19° ⋎ 08'17		desc. node	433 Oct 24 j 07:11	15°M06'39	
desc. node	431 May 09 j 11:47 431 May 18 j 21:13	19°° Y ′08°17 20° Y ′57'09	-4.7m		433 Nov 05 j 04:24	0°⋜	
greatest brilliancy	431 Jun 04 j 08:34	0° 8	-4. /III		433 Nov 29 j 04:05 433 Dec 23 j 06:20	0°≈	
morning max el	431 Jun 26 j 14:30	18° 8 52'40	45°44'59		434 Jan 16 j 14:12	0° ∺	
morning man er	431 Jul 07 j 20:23	0°II			434 Feb 10 j 09:08	$0^{\circ}\Upsilon$	
	431 Aug 04 j 15:30	0ංම		asc. node	434 Feb 14 j 10:14	4° Υ 48'54	
asc. node	431 Aug 30 j 15:16	0° Ω 04'35			434 Mar 08 j 00:37	8° 0	
	431 Aug 30 j 13:43	$0^{\circ}\Omega$			434 Apr 04 j 09:17	$\Pi^{\circ}0$	
	431 Sep 24 j 11:38	0° m		evening max el	434 Apr 16 j 20:16	12° Ⅱ 30'14	45°24'17
	431 Oct 18 j 19:14	0∘ ত			434 May 07 j 00:23	0 \circ \odot	
	431 Nov 11 j 19:20	0°M₊		greatest brilliancy	434 May 24 j 14:42	10°910'12	-4.7m
	431 Dec 05 j 16:35	0° ∡ ¹		retrograde	434 Jun 04 j 10:11	12° © 16'22	
desc. node	431 Dec 20 j 04:47	18° ∡ 13'52		desc. node	434 Jun 05 j 23:49	12° © 13'29	
morning set	431 Dec 26 j 08:49	25° ∡ 58'43		evening set	434 Jun 19 j 18:14	7°546'32	4005104
	431 Dec 29 j 13:42	5°0		inferior conj	434 Jun 25 j 21:35	4°907'06	
	432 Jan 22 j 12:07	0° ≈		minimum elong min. Earth dist.	434 Jun 25 j 12:56 434 Jun 25 j 23:41	4°\$20'33 4°\$03'50	4°24'50 0.28912 AU
superior conj	432 Feb 05 j 21:02	17° ≈ 57'37	-1°23'02	morning rise	434 Jul 01 j 07:20	0°951'00	0.28912 AO
minimum elong	432 Feb 05 j 15:35	17°≈40'35		morning 1130	434 Jul 02 j 20:15	30°RⅡ	
max. Earth dist.	432 Feb 10 j 02:58		1.71942 AU	direct	434 Jul 17 j 12:47	25° Ⅱ 49'51	
	432 Feb 15 j 12:47	0° ∀		greatest brilliancy	434 Jul 28 j 06:31	27° I 53'55	-4.8m
	432 Mar 10 j 16:37	0° Υ		,	434 Aug 02 j 02:44	0ංම	
evening rise	432 Mar 16 j 12:01	7° Ƴ 10'59		morning max el	434 Sep 05 j 00:10	26°938'56	46°13'27
	432 Apr 04 j 00:31	0° 8			434 Sep 08 j 09:11	$0^{\circ}\Omega$	
asc. node	432 Apr 11 j 08:03	8° 8 58'21		asc. node	434 Sep 27 j 03:02	19° Ω 51'37	
	432 Apr 28 j 13:06	$\Pi^{\circ}0$			434 Oct 06 j 03:53	0° m	
	432 May 23 j 07:05	0 _ං වෙ			434 Oct 31 j 17:48	0∘ ⊽	
	432 Jun 17 j 08:05	$\Omega^{\circ}\Omega$			434 Nov 25 j 09:34	0° M	
1 1	432 Jul 12 j 19:49	0° m/p			434 Dec 19 j 16:04	0° ∡ 7	
desc. node	432 Jul 31 j 21:27	21° Mp 54′06 0° <u> </u>		desc. node	435 Jan 12 j 19:33	0°궁 4°궁49'30	
	432 Aug 08 j 02:20 432 Sep 05 j 01:01	0°M		desc. node	435 Jan 16 j 16:40 435 Feb 05 j 22:55	4 04930 0°≈	
evening max el	432 Sep 10 j 18:38	5°M44'20	46°49'13		435 Mar 02 j 03:27	0° ∺	
evening max er	432 Oct 09 j 11:01	0° ∡ 7	10 17 13	morning set	435 Mar 11 j 23:49	12° ∺ 11'20	
greatest brilliancy	432 Oct 21 j 09:32	6° ∡ ¹03'53	-4.9m	morning sec	435 Mar 26 j 09:46	0°Υ	
retrograde	432 Oct 30 j 21:53	7° ∡ ¹46'17					
evening set	432 Nov 14 j 07:51	3° ∡ ¹40'56		superior conj	435 Apr 18 j 20:55	28° Ƴ 54'52	-0°46'59
inferior conj	432 Nov 20 j 10:52	0° ∡ ¹06'39	-0°24'36	minimum elong	435 Apr 19 j 05:30	29° Ƴ 21'16	0°46'37
minimum elong	432 Nov 20 j 11:48	0° ∡ ¹05'13	0°24'17		435 Apr 19 j 18:06	9° 8	
min. Earth dist.	432 Nov 20 j 09:32	0° ∡ 108'41	0.26358 AU	max. Earth dist.	435 Apr 20 j 07:18	0° 8 40'39	1.73388 AU
	432 Nov 20 j 15:14	30°RM₊		asc. node	435 May 09 j 20:00	24° 8 40'38	
asc. node	432 Nov 22 j 00:40	29°M09'11			435 May 14 j 04:02	0°II	
morning rise	432 Nov 26 j 15:38	26°M29'52		evening rise	435 May 25 j 15:54	14° Ⅱ 06'21	
direct greatest brilliancy	432 Dec 10 j 18:17	22°M30'57 24°M27'14	4.0m		435 Jun 07 j 15:01 435 Jul 02 j 02:53	$0 {\circ} \Omega$	
greatest offinancy	432 Dec 20 j 21:09 432 Dec 31 j 15:06	24 11G2 / 14 0° ₹	-4.9111		435 Jul 26 j 16:30	0° m)	
morning max el	433 Jan 30 j 01:33	25° х 13'44	46°44'27		435 Aug 20 j 09:34	0∘ ত 0 ⊮	
morning max or	433 Feb 03 j 18:18	0°중	10 1127	desc. node	435 Aug 29 j 09:21	0 — 10° ⊆ 50'54	
	433 Mar 03 j 10:16	0° ≈			435 Sep 14 j 08:30	0° M	
desc. node	433 Mar 13 j 14:17	11° ≈ 32'49			435 Oct 09 j 17:31	0° ∡ ¹	
	433 Mar 29 j 13:34	0° ∀			435 Nov 04 j 23:56	8°0	
	433 Apr 24 j 01:42	0° Y		evening max el	435 Nov 23 j 07:50	19° ⋜ 36'36	47°22'06
	433 May 19 j 05:31	0° 8			435 Dec 03 j 21:47	0° ≈	
	433 Jun 13 j 03:04	$\Pi^{\circ}0$		asc. node	435 Dec 20 j 12:37	13° ≈ 54'37	
asc. node	433 Jul 04 j 17:36	26° Ⅱ 17′20		greatest brilliancy	436 Jan 02 j 21:08	21° ≈ 24'23	-4.9m
	433 Jul 07 j 18:24	0°©		retrograde	436 Jan 13 j 09:32	23°≈31'45	
morning set	433 Jul 28 j 23:52	26°906'24		evening set	436 Jan 30 j 15:21	17°≈39'53	0.07/51 :**
	433 Aug 01 j 03:27	0° Ω		min. Earth dist.	436 Feb 02 j 10:02	15°≈56'58	0.27654 AU
	433 Aug 25 j 07:06	0° m)		inferior conj	436 Feb 03 j 07:11	15° ≈ 23'47	8°24'15

minimum elong	436 Feb 03 j 01:47	15° ≈ 32'15	8°23'48	evening rise	438 Jul 31 j 06:52	17° Ω 57'38	
morning rise	436 Feb 06 j 12:31	13° ≈ 24'11			438 Aug 10 j 00:07	0° m	
direct	436 Feb 24 j 00:38	7° ≈ 28'39			438 Sep 03 j 05:03	0∘ ত	
greatest brilliancy	436 Mar 03 j 22:42	8° ≈ 58'25	-4.8m	desc. node	438 Sep 25 j 21:23	28° £ 04'57	
,	436 Apr 04 j 11:21	0° ∀			438 Sep 27 j 10:36	0°M	
desc. node	436 Apr 10 j 02:06	5° ¥ 10′03			438 Oct 21 j 17:56	0° ∡ 7	
morning max el	436 Apr 13 j 07:27	8°) 14'34	46°02'21		438 Nov 15 j 04:54	°ਤ ਹ°ਤ	
morning max er	436 May 04 j 13:55	0° Υ	40 02 21		438 Dec 10 j 00:01	0° ≈	
	• •				·		
	436 May 31 j 17:29	0° B			439 Jan 04 j 14:18	0° ∀	
	436 Jun 26 j 16:58	0°II		asc. node	439 Jan 17 j 00:22	13°) 54'48	
	436 Jul 21 j 23:14	0ංම			439 Feb 01 j 05:33	$0^{\circ}\Upsilon$	
asc. node	436 Aug 01 j 05:24	12° © 22'54		evening max el	439 Feb 02 j 19:04	1° Ƴ 34'27	46°25'41
	436 Aug 15 j 16:20	$0 {\circ} \Omega$			439 Mar 10 j 15:51	$_{0\circ}$ 8	
	436 Sep 08 j 23:17	0° m)		greatest brilliancy	439 Mar 13 j 22:12	1° 8 23'23	-4.8m
	436 Oct 02 j 23:27	0∘ 亚		retrograde	439 Mar 24 j 15:19	3° 8 30'26	
morning set	436 Oct 07 j 17:27	5° £ 57'41			439 Apr 06 j 22:19	30° Ŗ ♈	
Č	436 Oct 26 j 20:13	0° M .		evening set	439 Apr 09 j 22:29	28° Ƴ 21'20	
				inferior conj	439 Apr 15 j 00:19	25° Ƴ 13'30	5°10'03
superior conj	436 Nov 16 j 21:24	26°MJ30'17	0°09'18	minimum elong	439 Apr 15 j 09:27	24° Y 59'01	5°07'54
		26°M38'03	0°09'11	min. Earth dist.	439 Apr 15 j 03:19	25° Υ 08'44	0.28852 AU
minimum elong	436 Nov 16 j 23:52		0 09 11		1 3		0.28832 AU
behind sun begin	436 Nov 16 j 01:45	25°M28'25		morning rise	439 Apr 20 j 20:40	21° Y 39'28	
behind sun end	436 Nov 17 j 22:00	27° M 47'42		direct	439 May 06 j 11:58	16° Y 57'13	
max. Earth dist.	436 Nov 17 j 16:56	27° M 31'47	1.71029 AU	desc. node	439 May 08 j 13:55	17° Y 02′12	
	436 Nov 19 j 16:02	0° ∡ ¹		greatest brilliancy	439 May 16 j 12:44	18° Ƴ 46'08	-4.7m
desc. node	436 Nov 20 j 19:06	1° ∡ ¹25'14			439 Jun 04 j 23:29	$8^{\circ 0}$	
	436 Dec 13 j 12:21	0°ರ		morning max el	439 Jun 24 j 05:23	16° 8 39'39	45°44'43
evening rise	436 Dec 28 j 16:21	19° ට 02'31			439 Jul 07 j 15:11	$\Pi^{\circ}0$	
· ·	437 Jan 06 j 10:16	0° ≈			439 Aug 04 j 06:09	0°©	
	437 Jan 30 j 11:16	0° ∀		asc. node	439 Aug 29 j 17:15	29°532'01	
	437 Feb 23 j 17:31	0° Υ			439 Aug 30 j 02:41	0°N	
asc. node	437 Mar 13 j 22:13	22° Υ 14'38			439 Sep 23 j 23:47	0° m)	
asc. nouc							
	437 Mar 20 j 07:45	0° B			439 Oct 18 j 06:57	0∘ ⊽	
	437 Apr 14 j 09:30	0°Щ			439 Nov 11 j 06:48	0° M ₊	
	437 May 10 j 04:40	0ංම			439 Dec 05 j 03:54	0° ∡	
	437 Jun 06 j 07:17	$0^{\circ}\Omega$		desc. node	439 Dec 19 j 06:51	17° ∡ ⁴44'57	
evening max el	437 Jun 27 j 02:20	21° Ω 06'47	45°35'54	morning set	439 Dec 23 j 18:36	23° ҂ 23′24	
desc. node	437 Jul 03 j 11:43	27° Ω 03'27			439 Dec 29 j 00:55	0°ප	
	437 Jul 06 j 19:16	0° m)			440 Jan 21 j 23:17	0° ≈	
greatest brilliancy	437 Aug 05 j 13:01	19° m)17'58	-4.8m				
retrograde	437 Aug 14 j 21:35	20° m 52'31		superior conj	440 Feb 03 j 08:47	15° ≈ 29'50	-1°22'02
evening set	437 Sep 01 j 20:49	14° m 53'20		minimum elong	440 Feb 03 j 02:26	15° ≈ 10′00	
inferior conj	437 Sep 04 j 22:20	13° m) 01'47	-8°41'59	max. Earth dist.	440 Feb 07 j 12:47	20° ≈ 41'49	1.71887 AU
minimum elong	437 Sep 05 j 01:44	12° m 56'34		max. Earth dist.	440 Feb 14 j 23:53	0°) €	1.71007110
min. Earth dist.	437 Sep 05 j 16:07	12° m/30'34'28	0.27844 AU		440 Mar 10 j 03:42	0° Υ	
			0.27644 AU	avanina riaa		4° Υ 51'42	
morning rise	437 Sep 08 j 06:27	11° Mp 00'05		evening rise	440 Mar 14 j 02:02		
direct	437 Sep 26 j 02:06	5° Mp 01'22			440 Apr 03 j 11:38	0°8	
greatest brilliancy	437 Oct 07 j 03:03	7° m 17'46	-4.9m	asc. node	440 Apr 10 j 10:12	8° 8 30'45	
asc. node	437 Oct 24 j 14:53	17° m 57'39			440 Apr 28 j 00:24	$\Pi^{\circ}0$	
	437 Nov 07 j 09:14	0∘ ಹ			440 May 22 j 18:48	0 \circ \odot	
morning max el	437 Nov 15 j 18:49	8° ≏ 18'09	46°51'58		440 Jun 16 j 20:32	$0 {\circ} \Omega$	
	437 Dec 05 j 22:25	0° M ₊			440 Jul 12 j 09:32	0°Щ	
	437 Dec 31 j 20:59	0° ∡ ¹		desc. node	440 Jul 30 j 23:26	21°M)16'32	
	438 Jan 25 j 22:54	0° ප				0∘ ट	
desc. node	430 Jan 23 J 22.34	0.0			440 Aug 07 j 18:29	· —	
					• •		
	438 Feb 13 j 04:28	22° る 04'34		evening max el	440 Sep 04 j 23:09	0° M	46°46'49
	438 Feb 13 j 04:28 438 Feb 19 j 16:59	22° ට 04'34 0°≈		evening max el	440 Sep 04 j 23:09 440 Sep 08 j 06:56	0° M 3° M 17'55	46°46'49
	438 Feb 13 j 04:28 438 Feb 19 j 16:59 438 Mar 16 j 08:07	22°る04'34 0°≈ 0°⊁			440 Sep 04 j 23:09 440 Sep 08 j 06:56 440 Oct 11 j 01:59	0°M 3°M17'55 0°⊀	
	438 Feb 13 j 04:28 438 Feb 19 j 16:59 438 Mar 16 j 08:07 438 Apr 09 j 22:14	22°る04'34 0°≈ 0°升 0°Υ		greatest brilliancy	440 Sep 04 j 23:09 440 Sep 08 j 06:56 440 Oct 11 j 01:59 440 Oct 18 j 22:55	0°M 3°M17'55 0°√ 3°√35'25	46°46'49 -4.9m
morning sat	438 Feb 13 j 04:28 438 Feb 19 j 16:59 438 Mar 16 j 08:07 438 Apr 09 j 22:14 438 May 04 j 11:47	22°♂04'34 0°≈ 0°光 0°Y 0°℃		greatest brilliancy retrograde	440 Sep 04 j 23:09 440 Sep 08 j 06:56 440 Oct 11 j 01:59 440 Oct 18 j 22:55 440 Oct 28 j 09:47	0°M 3°M17'55 0° ₹ 3° ₹35'25 5° ₹16'52	
morning set	438 Feb 13 j 04:28 438 Feb 19 j 16:59 438 Mar 16 j 08:07 438 Apr 09 j 22:14 438 May 04 j 11:47 438 May 20 j 03:47	22°♂04'34 0°≈ 0°升 0°Y 0°∀ 19°∀09'39		greatest brilliancy	440 Sep 04 j 23:09 440 Sep 08 j 06:56 440 Oct 11 j 01:59 440 Oct 18 j 22:55 440 Oct 28 j 09:47 440 Nov 11 j 21:06	0°M 3°M17'55 0°⊀ 3°⊀35'25 5°⊀16'52 1°⊀09'47	
	438 Feb 13 j 04:28 438 Feb 19 j 16:59 438 Mar 16 j 08:07 438 Apr 09 j 22:14 438 May 04 j 11:47 438 May 20 j 03:47 438 May 29 j 00:14	22°₹04'34 0°≈ 0° ₩ 0° Υ 0° ϒ 0° ႘ 19° ႘ 09'39 0° Ⅱ		greatest brilliancy retrograde evening set	440 Sep 04 j 23:09 440 Sep 08 j 06:56 440 Oct 11 j 01:59 440 Oct 18 j 22:55 440 Oct 28 j 09:47 440 Nov 11 j 21:06 440 Nov 13 j 23:29	0°M 3°M17'55 0°⊀ 3°⊀35'25 5°⊀16'52 1°⊀09'47 30°RM	-4.9m
morning set	438 Feb 13 j 04:28 438 Feb 19 j 16:59 438 Mar 16 j 08:07 438 Apr 09 j 22:14 438 May 04 j 11:47 438 May 20 j 03:47 438 May 29 j 00:14 438 Jun 06 j 07:49	22°♂04'34 0°≈ 0°¥ 0°Y 0°S 19°S09'39 0°II 10°II1'51		greatest brilliancy retrograde evening set inferior conj	440 Sep 04 j 23:09 440 Sep 08 j 06:56 440 Oct 11 j 01:59 440 Oct 18 j 22:55 440 Oct 28 j 09:47 440 Nov 11 j 21:06 440 Nov 13 j 23:29 440 Nov 17 j 23:00	0°M 3°M17'55 0° ₹ 3° ₹35'25 5° ₹16'52 1° ₹09'47 30°RM 27°M37'35	-4.9m -0°49'14
asc. node	438 Feb 13 j 04:28 438 Feb 19 j 16:59 438 Mar 16 j 08:07 438 Apr 09 j 22:14 438 May 04 j 11:47 438 May 20 j 03:47 438 May 29 j 00:14 438 Jun 06 j 07:49 438 Jun 22 j 10:36	22°♂04'34 0°≈ 0°¥ 0°Y 0°8 19°809'39 0°II 10°II1'51 0°©		greatest brilliancy retrograde evening set inferior conj minimum elong	440 Sep 04 j 23:09 440 Sep 08 j 06:56 440 Oct 11 j 01:59 440 Oct 18 j 22:55 440 Oct 28 j 09:47 440 Nov 11 j 21:06 440 Nov 13 j 23:29 440 Nov 17 j 23:00 440 Nov 18 j 00:53	0°M 3°M17'55 0° ₹ 3° ₹35'25 5° ₹16'52 1° ₹09'47 30°RM 27°M37'35 27°M34'44	-4.9m -0°49'14 0°48'37
	438 Feb 13 j 04:28 438 Feb 19 j 16:59 438 Mar 16 j 08:07 438 Apr 09 j 22:14 438 May 04 j 11:47 438 May 20 j 03:47 438 May 29 j 00:14 438 Jun 06 j 07:49	22°♂04'34 0°≈ 0°¥ 0°Y 0°S 19°S09'39 0°II 10°II1'51	1.73458 AU	greatest brilliancy retrograde evening set inferior conj	440 Sep 04 j 23:09 440 Sep 08 j 06:56 440 Oct 11 j 01:59 440 Oct 18 j 22:55 440 Oct 28 j 09:47 440 Nov 11 j 21:06 440 Nov 13 j 23:29 440 Nov 17 j 23:00	0°M 3°M17'55 0° ₹ 3° ₹35'25 5° ₹16'52 1° ₹09'47 30°RM 27°M37'35	-4.9m -0°49'14
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asc. node	438 Feb 13 j 04:28 438 Feb 19 j 16:59 438 Mar 16 j 08:07 438 Apr 09 j 22:14 438 May 04 j 11:47 438 May 20 j 03:47 438 May 29 j 00:14 438 Jun 06 j 07:49 438 Jun 22 j 10:36	22°♂04'34 0°≈ 0°¥ 0°Y 0°8 19°809'39 0°II 10°II1'51 0°©	1.73458 AU 0°43'19	greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	440 Sep 04 j 23:09 440 Sep 08 j 06:56 440 Oct 11 j 01:59 440 Oct 18 j 22:55 440 Oct 28 j 09:47 440 Nov 11 j 21:06 440 Nov 13 j 23:29 440 Nov 17 j 23:00 440 Nov 18 j 00:53 440 Nov 17 j 23:25	0°M 3°M17'55 0° ₹ 3° ₹35'25 5° ₹16'52 1° ₹09'47 30°RM 27°M37'35 27°M34'44 27°M36'56	-4.9m -0°49'14 0°48'37
asc. node max. Earth dist.	438 Feb 13 j 04:28 438 Feb 19 j 16:59 438 Mar 16 j 08:07 438 Apr 09 j 22:14 438 May 04 j 11:47 438 May 20 j 03:47 438 May 29 j 00:14 438 Jun 06 j 07:49 438 Jun 22 j 10:36 438 Jun 22 j 22:14	22°♂04'34 0°≈ 0° ℋ 0° ℋ 0° ϒ 19°႘09'39 0° Ⅱ 10° Ⅲ11'51 0° © 0° ©35'46		greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. asc. node	440 Sep 04 j 23:09 440 Sep 08 j 06:56 440 Oct 11 j 01:59 440 Oct 18 j 22:55 440 Oct 28 j 09:47 440 Nov 11 j 21:06 440 Nov 13 j 23:29 440 Nov 17 j 23:00 440 Nov 18 j 00:53 440 Nov 17 j 23:25 440 Nov 21 j 02:42	0°M 3°M17'55 0° ¾ 3°¾35'25 5°¾16'52 1°¾09'47 30°RM 27°M37'35 27°M34'44 27°M36'56 25°M43'45	-4.9m -0°49'14 0°48'37
asc. node max. Earth dist. superior conj	438 Feb 13 j 04:28 438 Feb 19 j 16:59 438 Mar 16 j 08:07 438 Apr 09 j 22:14 438 May 04 j 11:47 438 May 20 j 03:47 438 May 29 j 00:14 438 Jun 06 j 07:49 438 Jun 22 j 10:36 438 Jun 22 j 22:14	22° ♂ 04'34 0°≈ 0° 光 0° Y 0° Y 0° B 19° B 09'39 0° I 10° I 11'51 0° 9 0° 9 35'46	0°43'19	greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise	440 Sep 04 j 23:09 440 Sep 08 j 06:56 440 Oct 11 j 01:59 440 Oct 18 j 22:55 440 Oct 28 j 09:47 440 Nov 11 j 21:06 440 Nov 13 j 23:29 440 Nov 17 j 23:00 440 Nov 17 j 23:25 440 Nov 21 j 02:42 440 Nov 24 j 04:27	0°M. 3°M.17'55 0° ¾ 3° ¾35'25 5° ¾16'52 1° ¾09'47 30° RM. 27° M.37'35 27° M.34'44 27° M.36'56 25° M.43'45 24° M.00'10	-4.9m -0°49'14 0°48'37 0.26363 AU

	441 Jan 01 j 18:53	0° ⊼			443 Jul 26 j 03:58	0° m ∕	
morning max el	441 Jan 27 j 15:05	22° ∡ ¹49'12	46°45'42		443 Aug 19 j 21:41	0∘ ⊽	
	441 Feb 03 j 15:28	0°ප		desc. node	443 Aug 28 j 11:30	10° ≙ 20'01	
	441 Mar 03 j 02:07	0° ≈			443 Sep 13 j 21:37	0° M -	
desc. node	441 Mar 12 j 16:27	10°≈56'36			443 Oct 09 j 08:14	0° ∡ ¹	
	441 Mar 29 j 03:13	0° ∀			443 Nov 04 j 17:53	0° ਰ	
	441 Apr 23 j 14:08	0° Y		evening max el	443 Nov 20 j 23:50	17° る 17'48	47°22'36
	441 May 18 j 17:13	0° 8		_	443 Dec 04 j 02:06	0° ≈	
	441 Jun 12 j 14:19	0°Щ		asc. node	443 Dec 19 j 14:38	12° ≈ 33'50	
asc. node	441 Jul 03 j 19:36	25° Ⅱ 49'46		greatest brilliancy	443 Dec 31 j 11:44	19° ≈ 02'02	-4.9m
_	441 Jul 07 j 05:23	0°5		retrograde	444 Jan 11 j 00:42	21° ≈ 09'31	
morning set	441 Jul 26 j 17:01	23°957'28		evening set	444 Jan 28 j 02:38	15° ≈ 23'02	
	441 Jul 31 j 14:20	0 $^{\circ}\Omega$		min. Earth dist.	444 Jan 30 j 23:17	13° ≈ 37'09	0.27584 AU
	441 Aug 24 j 18:01	0° m)		inferior conj	444 Jan 31 j 21:23	13° ≈ 02'30	8°18'14
max. Earth dist.	441 Aug 29 j 02:27	5° Mp 25'42	1.72116 AU	minimum elong	444 Jan 31 j 15:17	13°≈12'05	8°17'40
				morning rise	444 Feb 04 j 04:17	11° ≈ 00'41	
superior conj	441 Sep 01 j 13:36	9° m 45'14		direct	444 Feb 21 j 14:49	5° ≈ 08'47	
minimum elong	441 Sep 01 j 15:47	9° m 52′02	1°24'07	greatest brilliancy	444 Mar 01 j 11:16	6° ≈ 37'35	-4.8m
	441 Sep 17 j 18:12	0∘ ⊽			444 Apr 04 j 13:55	0° ∀	
evening rise	441 Oct 10 j 05:28	28° ≏ 08'55		desc. node	444 Apr 09 j 04:14	4° ∺ 18'39	
	441 Oct 11 j 16:56	0° M		morning max el	444 Apr 10 j 22:01	5° ¥ 59'01	46°03'38
desc. node	441 Oct 23 j 09:21	14°M38'18			444 May 04 j 06:42	0° Y	
	441 Nov 04 j 15:42	0° ⊼			444 May 31 j 07:13	0°8	
	441 Nov 28 j 15:33	ა∘გ			444 Jun 26 j 05:16	$\Pi^{\circ}0$	
	441 Dec 22 j 18:00	0° ≈			444 Jul 21 j 10:47	0ංම	
	442 Jan 16 j 02:14	0° ∀		asc. node	444 Jul 31 j 07:29	11°954'44	
	442 Feb 09 j 21:56	0 ° Υ			444 Aug 15 j 03:29	$0^{\circ}\Omega$	
asc. node	442 Feb 13 j 12:18	4° Ƴ 16'37			444 Sep 08 j 10:14	0° m)	
	442 Mar 07 j 15:01	0°8			444 Oct 02 j 10:21	0∘ ಹ	
	442 Apr 04 j 03:48	Π \circ 0		morning set	444 Oct 05 j 06:57	3° ≙ 35'14	
evening max el	442 Apr 14 j 12:43	10° Ⅲ 21'14	45°25'20		444 Oct 26 j 07:07	0° M	
	442 May 07 j 15:56	0 \circ					
greatest brilliancy	442 May 22 j 05:33	8° © 00'10	-4.7m	superior conj	444 Nov 14 j 07:29	23°M56'32	0°13'14
retrograde	442 Jun 02 j 02:55	10° © 07'45		minimum elong	444 Nov 14 j 10:58	24°ML07'28	0°13'03
desc. node	442 Jun 05 j 01:52	9° © 57'25		behind sun begin	444 Nov 13 j 18:55	23°M16'58	
evening set	442 Jun 17 j 08:56	5° © 39'43		behind sun end	444 Nov 15 j 03:00	24°M57'57	
inferior conj	442 Jun 23 j 13:49	1° © 57'53		max. Earth dist.	444 Nov 14 j 21:15	24°M39'53	1.71035 AU
minimum elong	442 Jun 23 j 05:34	2° © 10'41	4°07'33		444 Nov 19 j 02:58	0° ∡ ¹	
min. Earth dist.	442 Jun 23 j 15:24		0.28926 AU	desc. node	444 Nov 19 j 21:05	0° ∡ 757′02	
	442 Jun 26 j 18:25	30°Ŗ Ⅱ			444 Dec 12 j 23:20	0°ಕ	
morning rise	442 Jun 29 j 02:00	28° Ⅱ 38'34		evening rise	444 Dec 26 j 02:07	16° る 28'02	
direct	442 Jul 15 j 05:40	23° Ⅱ 40'31			445 Jan 05 j 21:18	0° ≈	
greatest brilliancy	442 Jul 25 j 22:11	25° Ⅱ 43'57	-4.7m		445 Jan 29 j 22:23	0° ∀	
	442 Aug 03 j 18:16	0 \circ			445 Feb 23 j 04:47	0° Ƴ	
morning max el	442 Sep 02 j 16:31	24° 5 27'38	46°11'52	asc. node	445 Mar 13 j 00:24	21° Y 46'27	
	442 Sep 08 j 05:36	$0^{\circ}\Omega$			445 Mar 19 j 19:21	0°B	
asc. node	442 Sep 26 j 05:16	19° Ω 12'18			445 Apr 13 j 21:47	$\Pi^{\circ}0$	
	442 Oct 05 j 19:09	0° m y			445 May 09 j 18:25	0ංම	
	442 Oct 31 j 07:10	0∘ ⊽			445 Jun 06 j 00:26	0°N	
	442 Nov 24 j 22:01	0° M -		evening max el	445 Jun 24 j 16:10	18° Ω 50'34	45°34'02
	442 Dec 19 j 03:58	0° ∡ ¹		desc. node	445 Jul 02 j 13:42	26° Ω 08'19	
	443 Jan 12 j 07:05	0° ろ			445 Jul 07 j 00:34	0° m ∕	
desc. node	443 Jan 15 j 18:41	4° る 20'04		greatest brilliancy	445 Aug 03 j 02:10	17° m) 00'35	-4.8m
	443 Feb 05 j 10:07	0° ≈		retrograde	445 Aug 12 j 10:31	18° m 35'09	
	443 Mar 01 j 14:24	0° ∺		evening set	445 Aug 30 j 11:13	12° m 35'09	
morning set	443 Mar 09 j 14:22	9° ¥ 54'12		inferior conj	445 Sep 02 j 12:30	10° m 43'51	
	443 Mar 25 j 20:33	0° Υ		minimum elong	445 Sep 02 j 15:02	10° m 39'57	
				min. Earth dist.	445 Sep 03 j 06:03		0.27905 AU
superior conj	443 Apr 16 j 13:51	26° Y 46′21		morning rise	445 Sep 05 j 18:39	8° m 44'50	
minimum elong	443 Apr 16 j 22:45	27° Υ 13'44		direct	445 Sep 23 j 16:32	2° m/42'27	
max. Earth dist.	443 Apr 18 j 05:14		1.73359 AU	greatest brilliancy	445 Oct 04 j 18:10	4° m 58'45	-4.9m
_	443 Apr 19 j 04:47	0°8		asc. node	445 Oct 23 j 16:53	16° Mp 47'26	
asc. node	443 May 08 j 22:04	24° 8 14'10		_	445 Nov 07 j 10:33	0° ⊽	
	443 May 13 j 14:45	0°П		morning max el	445 Nov 13 j 07:38	5° ≙ 51'58	46°51'08
evening rise	443 May 23 j 10:44	12° Ⅱ 04'01			445 Dec 05 j 15:25	0° M -	
	443 Jun 07 j 01:50	0°99			445 Dec 31 j 11:13	0° ⊼	
	443 Jul 01 j 13:56	0 ° Ω			446 Jan 25 j 11:46	0°₹	

	desc. node	446 Feb 12 j 06:37	21° る 33'50			448 Sep 04 j 21:45	0°M	
46 Apr May 15 9.77 6°H cented beliancy of 48 Apr May 19 9°H cented beliancy of 48 Apr May 19 1°P60052 cented beliancy of 48 Apr May 19 1°P60052 cented moning act 46 Apr May 19 1°P60053 cented moning	desc. node				evening may el			46°44'17
464 Mg of j of		,			evening max er	1 3		40 44 17
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con. conder 448 Jun 90 js 105 9 TH 758 Jun 19 jun	morning set				renograde	5		
ass. nethed 444 (no. 08) 9651 9°H36978 (1788) AU minrammelong 448 No. 15 11-08 25°H3078 of 19°1294 19°1294 sama. Earth May 446 Jun 21 21 (21) 7°95 17885 AU min. Farth Get 448 No. 15 11-08 22°H3078 O 0.26179 AU soperior corij 446 Jun 21 21 (21) 16°92240 0'4020 diece 448 No. 20 10-18 1798 L170 N evening rice 446 Jul 21 (0) (30) 0°Q describert Humber 449 Jun 02 11-18 0°P describert All 16 (0) (30) 0°Q morning max 449 Jun 02 11-18 0°P describert All 16 (0) (30) 0°Q morning max 449 Jun 02 11-18 0°P describer All 16 (0) (30) 0°Q describer Humber 449 Jun 12 10-18 0°P describer All 16 (0) (30) 0°Q describer Humber 449 Min 11 11-18 0°P describer All 17 (1) (31) 0°Q describer Humber 449 Min 11 11-18 0°P excing act 447 Jun 11 10-12 0°P 449 Jun 12 10-12 0°P excing act 447 Jun 11 10-12<	morning set				evening set	•		
rays Fact Bank 445 Jun 20 jul 20 6 75 most 1738 Aut 10 jul 20 0 02539 Aut 20	asc node				•			-1°13'48
specimen conjama 446 Jun 2 j j club 0°9 mm. Earth dist 448 Nov 5 j j club 221 millors 448 Sep di 21 millors 221 millors 221 millors 448 Sep di 21 millors 221 millors 221 millors 448 Sep di 21 millors 221 millors 221 millors 449 Millors 231 millors 221 millors 449 millors 249 millors 221 mi		-		1 73485 AU	=			
specimen of the properties of the properti	max. Earth dist.	·		1.75405710	•			
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minimum clong 446 Jul 19 jol 1050 of 1920 Jol 1500 of 46 Jul 19 jol 1050 of 30 Jul 1050 of 40 Jul 1050	superior coni	446 Jun 23 i 06:30	1.005/12/40	0040138		•		
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446 Sep 0.1045 0°Ps 49 moning maxe 449 Feb 0.10520 20°2.2082 46°4852 466 Sep 2.412330 2°P* 2.4181 49 moning maxe 449 Feb 0.1154 0°E 466 Sep 2.412330 0°R 49 Mon 0.11737 0°Ps 466 Sep 2.412330 0°R 49 Mon 0.11737 0°Ps 468 Sep 2.412330 0°R 49 Mon 0.11737 0°Ps 468 Sep 2.412330 0°R 49 Mon 0.11737 0°Ps 468 Sep 2.412330 0°R 49 Mon 0.11730 0°R 468 Sep 2.412330 0°R 49 Mon 0.11730 0°R 468 Sep 2.412330 0°R 49 Mon 0.11730 0°R 468 Sep 2.412310 0°R 49 Mon 0.1170 0°R 478 Sep 2.412310 0°R 49 Mon 0.1170 0°R 478 Mon 1.11533 0°Ph 1.41 0°R 49 Mon 0.1170 0°R 478 Feb 1.11533 0°Ph 1.41 0°R 49 Mon 0.1170 0°R 478 Mon 1.11533 0°Ph 1.41 0°R 49 Mon 0.1170 0°R 478 Mon 1.11533 0°Ph 1.41 0°R 0°R 479 Mon 1.11533 0°Ph 1.41 0°R 0°R 479 Mon 1.11533 0°Ph 1.41 0°R 0°R 470 Mon 1.11533 0°Ph 1.41 0°R 0°R 0°R 0°R 470 Mon 1.11533 0°R 0°		3			greatest brilliancy	-		-4.9111
desc. nade 446 Sep 23 [1607] 0°A 449 Sep 0 5] 1150 0°R 400 Sep 12300 0°R 400 Sep 12300 0°R 400 Sep 12300 0°R 400 Sep 12300 0°R 400 Sep 11303 0°R 400 Mar 11 [1836] 0°R 100 Sep 12000 0°R 400 Mar 11 [1836] 0°R 100 Sep 12000 0°R 449 Mar 12 [1002] 0°R 100 Sep 12000 0°R 449 Mar 12 [1002] 0°R 100 Sep 12000 0°R 449 Mar 12 [1002] 0°R 0°R 449 Mar 12 [1002] 0°R 0°R <td>evening rise</td> <td></td> <td></td> <td></td> <td>marning may al</td> <td></td> <td></td> <td>16016150</td>	evening rise				marning may al			16016150
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446 Not 2 1 j 15-48 0°-2" 449 Mar 1 j 18-36 0°-2" 449 Mar 2 3 j 10-22 0°-1" 446 Not 1 j 17-24 0°-3" 449 Mar 2 3 j 10-22 0°-1" 449 Mar 1 j 18-32 0°-2" 449 Mar 1 j 18-32 0°-2" 449 Mar 1 j 18-32 0°-2" 449 Mar 1 j 10-22 0°-2" 447 Feb 0 i j 02-54 0°-2" 447 Mar 1 j 15-33 2°-2" 13-45 448 Mar 1 j 18-33 2°-2" 13-45 449 Mar 2 j 10-33 2°-2" 13-45 449 Mar 2 j 10-34 2°-2" 13-45								
446 Nor 14 j 10.548 0°\$ 449 Nor 25 j 16.36 0°\$ 446 Nor 07 j 13.33 0°\$ 446 Nor 07 j 13.33 0°\$ 446 Nor 07 j 13.33 0°\$ 449 Nor 23 j 10.22 0°\$ 0°\$ 0°\$ 449 Nor 23 j 10.22 0°\$ 0°	desc. node					5		
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greatest brillianey 447 Feb 0 j 02.54 0°P° wmming set 449 Jul 3 j 0.03 21°©50°16 0°R retrograde 447 Mar 1 j 15.33 29°P(1345 4.8m wmx. Earth dist 449 Aug 24 j 0.44 0°B evening set 447 Mar 22 j 07.31 1°8200°5 superior conj 449 Aug 26 j 18:50 3°B1333 1.72166 AU evening set 447 Apr 12 j 16:43 23°°N0729 5°2346 minimum elong 449 Aug 30 j 07:40 7°B3650 1°2426 minimum elong 447 Apr 12 j 16:43 23°°N0329 5°2349 minimum elong 449 Sep 17 j 16:50 0°24 direct 447 Apr 12 j 19:45 22°°P5841 0°2834 AU evening rise 449 Oct 10 j 18:10 25°24:379 direct 447 May 04 j 03:18 14°°P3233 0°28 449 Oct 12 j 18:10 0°E desc. node 447 May 04 j 03:18 16°°P3228 4.7m 449 Nov 29 j 15:10 0°E greatest brilliane 447 May 14 j 03:44 16°°P3228 4.7m 449 Nov 29 j 02:22 0°E asc. node 447 Lug 1, 20:47 448 Sug 1, 20:42 449 Nov 29 j 02:22 <td< td=""><td></td><td>-</td><td></td><td></td><td>asc. node</td><td>-</td><td></td><td></td></td<>		-			asc. node	-		
greatest brillianey 447 Mar 13 j 21.22 0°W -48 May 449 Jug 24 j 04.44 0°W -18 May 24 j 04.44 0°W 0°W <t< td=""><td>evening max el</td><td>447 Jan 31 j 08:51</td><td></td><td>46°28'16</td><td></td><td>449 Jul 06 j 16:15</td><td></td><td></td></t<>	evening max el	447 Jan 31 j 08:51		46°28'16		449 Jul 06 j 16:15		
retrograde		447 Feb 01 j 02:54			morning set	449 Jul 24 j 10:33		
retrograde	greatest brilliancy	447 Mar 11 j 15:33		-4.8m		449 Jul 31 j 01:05	$0 {\circ} \Omega$	
evening set 447 Aur 30 j 10.56 30°R°		447 Mar 13 j 21:22	9° 8			449 Aug 24 j 04:44	0° m y	
evening set inferior conj 447 Apr 15 17:28 26°90720 32°90720 5°25′46 minimum long inferior conj minimum long 447 Apr 15 10:202 22°90′48′43 5°23′39 449 Aug 30 00°14 7°19/36′50 1°24′26 1°24°26 1	retrograde	447 Mar 22 j 07:31	1° 8 20'26		max. Earth dist.	449 Aug 26 j 18:50	3° m 13'33	1.72166 AU
inferior conj 447 Apr 12 j 16:43 23°V03'29 5°25'46 minimum elong 449 Aug 30 j 07:14 7°₹936'50 124'26 minimum elong 447 Apr 13 j 10:20 22°V1'84'3 5°23'39 evening rise 449 Sep 17 j 105:00 0°£ 1 morning rise 447 Apr 18 j 10:46 19°V32'33 22°8'38'4 AU evening rise 449 Oct 11 j 30:54 0°fL 1 désc. node 447 May 04 j 03:31 14°V1'72'1 desc. node 449 Nov 28 j 02:57 0°fZ 1 desc. node 447 May 04 j 04:34 16°V36'28 4.7m 449 Nov 28 j 02:57 0°fZ		447 Mar 30 j 10:56	30° ₹Ƴ					
minimum clong max Earth dist. 447 Apr 12 j 19-45 22°°74841 0.28834 AU cvening rise 449 Not clong 13:55 0°°24 447 Not clong 13:55 15°°7012° 449 Not clong 13:55 0°°26 447 Not clong 13:55 15°°7012° 45° Not clong 13:55 15° Not clong 13:55	evening set	447 Apr 07 j 17:28	26° Ƴ 07'20		superior conj	449 Aug 30 j 05:49	7° m 32'26	1°24'26
min. Earth dist. 447 Apr 12 j 19:45 22°P5841 0.28834 AU evening rise 449 Oct 07 j 18:10 25°B43'59	inferior conj	447 Apr 12 j 16:43	23° Y 03'29	5°25'46	minimum elong	449 Aug 30 j 07:14	7° m 36'50	1°24'26
moming rise direct 447 Apr 18 j 10:46 19°Y3233 14°Y4721 desc. node 449 Oct 11 j 03:54 14°H0954 14°H0956 1	minimum elong	447 Apr 13 j 02:02	22° Y 48'43	5°23'39		449 Sep 17 j 05:01	0∘ ⊽	
direct 447 May 04 j 03:18 14°P(4721) desc. node 449 Nov 04 j 02:33 0° ₹ desc. node 447 May 07 j 15:55 15°P(0129) 449 Nov 04 j 02:33 0° ₹ greatest brilliancy 447 May 14 j 04:34 16°P(3628 - 4.7m) 449 Nov 04 j 02:53 0° ₹ morning max el 447 Jun 05 j 10:05 0° ₹ 449 Dec 22 j 05:42 0° ₹ 447 Jun 07 j 09:02 0° ¶ 45° 44/43 450 Im 15 j 14:22 0° ₹ 447 Aug 03 j 20:12 0° ¶ asc. node 450 Feb 12 j 14:29 3° P(4420) asc. node 447 Aug 28 j 19:29 29° № asc. node 450 Mar 07 j 05:39 0° ₹ 447 Aug 28 j 19:29 29° № evening max el 450 Apr 12 j 05:18 8° ¶ 112'19 45° 26′29 447 Aug 29 j 15:11 0° № evening max el 450 Apr 12 j 05:18 8° ¶ 8° ¶ 12'19 45° 26′29 desc. node 447 Dec 04 j 15:00 0° № greatest brilliancy 450 May 08 j 13:08 0° № 450 May 08 j 13:08 0° № 0° № 0° № 450 Jun 20 j 22:23 30° RI	min. Earth dist.	447 Apr 12 j 19:45	22° Y 58'41	0.28834 AU	evening rise	449 Oct 07 j 18:10	25° ≏ 43'59	
direct desc. node 447 May 04 j 03:18 14°47'47'21 desc. node 449 Nov 04 j 02:33 0° 2° 2° 1.21 14° 1009'54 02:33 0° 2° 2° 2° 2° 2° 2° 2° 2° 2° 2° 2° 2° 2°	morning rise	447 Apr 18 j 10:46	19° Ƴ 32'33		-	449 Oct 11 j 03:54	0°M	
greatest brillianey		447 May 04 j 03:18	14° Ƴ 47'21		desc. node	449 Oct 22 j 11:21	14° M 09'54	
Morning max el	desc. node	447 May 07 j 15:55	15° Ƴ 01'29			449 Nov 04 j 02:53	0° ∡ ″	
Morning max el	greatest brilliancy	447 May 14 i 04:34	16° Ƴ 36'28	-4.7m		449 Nov 28 i 02:57	გ∘ი	
momning max ell 447 Jun 2 j j 20:47 14°82901 45°44'43 450 Jan 15 j 14:22 0°% 47 Jul 07 j 09:02 0°Π 450 Feb 09 j 10:52 0°% 460 Feb 12 j 14:29 3°°¼420 470 Feb 12 j 14:29 3°¼4420 470 Feb 12 j 14:29 3°¼4420 470 Feb 12 j 14:29 3°¼4420 480 Apr 03 j 22:54 0°I 450 Apr 03 j 22:54 0°I 470 Per 04 j 15:01 450 Apr 03 j 22:54 0°I 470 Per 04 j 15:11 45°26'29 450 Apr 03 j 22:54 0°I 470 Per 04 j 15:11 45°26'29 450 Apr 03 j 22:54 0°I 470 Per 04 j 15:11 470 Per 04 j 15:10 0°I 470 Per 04 j 15:11 <th< td=""><td>2</td><td>, ,</td><td></td><td></td><td></td><td>•</td><td></td><td></td></th<>	2	, ,				•		
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448 Aug U/j 10:31 U*** desc. node 451 Jan 14 j 20:50 3°550'58	desc. node	3				-		
		448 Aug 0/ j 10:31	0.77		desc. node	451 Jan 14 J 20:50	3°D30'58	

	451 Feb 04 j 21:25	0° ≈		inferior conj	453 Aug 31 j 02:37	8° Mp 24'50	
	451 Mar 01 j 01:28	0°) (minimum elong	453 Aug 31 j 04:15	8°m/22'19	
morning set	451 Mar 07 j 04:20	7°)(34'42		min. Earth dist.	453 Aug 31 j 19:56	7° m 58'12	0.27966 AU
	451 Mar 25 j 07:29	$0^{\circ}\mathbf{\Upsilon}$		morning rise	453 Sep 03 j 07:09	6°Mp28′10	
				direct	453 Sep 21 j 06:42	0° т 22'16	
superior conj	451 Apr 14 j 06:14	24° Y 35'39		greatest brilliancy	453 Oct 02 j 09:32	2° m/39'08	-4.9m
minimum elong	451 Apr 14 j 15:25	25° Y 03'53		asc. node	453 Oct 22 j 18:57	15° m 38'09	
max. Earth dist.	451 Apr 16 j 03:29	26° Y 54'55	1.73324 AU		453 Nov 07 j 11:02	0∘ ⊽	46050100
	451 Apr 18 j 15:38	0° 8		morning max el	453 Nov 10 j 21:04	3° £ 26′23	46°50'29
asc. node	451 May 08 j 00:04	23° 8 47'03			453 Dec 05 j 08:22	0°M.	
	451 May 13 j 01:35	0°II			453 Dec 31 j 01:32	0° ∡	
evening rise	451 May 21 j 05:09	9° Ⅱ 59'58		1 1	454 Jan 25 j 00:46	0°る	
	451 Jun 06 j 12:47	0°©		desc. node	454 Feb 11 j 08:44	21° る 02'32	
	451 Jul 01 j 01:10	0° N			454 Feb 18 j 17:14	0° ≈ 0° ∀	
	451 Jul 25 j 15:37	0 ் ⊽ 0° M			454 Mar 15 j 07:18	0° Υ	
desc. node	451 Aug 19 j 10:00	0° 22 9° 2 48'37			454 Apr 08 j 20:39	0° ∀	
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	451 Sep 13 j 10:54	0°11℃		morning set	454 May 15 j 16:20 454 May 27 j 21:46	0° Ⅱ	
	451 Oct 08 j 23:09	0°중		asc. node	, ,	0 H 9°∏18'45	
evening max el	451 Nov 04 j 12:13 451 Nov 18 j 15:09	0 3 14° る 57'16	47022155	max. Earth dist.	454 Jun 04 j 12:01 454 Jun 18 j 14:48	9 П 1843 26° П 39'25	1.73512 AU
evening max er		0°≈	47 22 33	max. Earth dist.	434 Juli 10 J 14.40	20 113923	1.73312 AU
asc. node	451 Dec 04 j 08:22 451 Dec 18 j 16:43	0 ≈ 11°≈10'21		gunariar agni	454 Jun 21 j 01:02	29° ∏ 38'30	0°37'53
	·		4.0	superior conj minimum elong	·	29 Ⅲ 3830 29° Ⅲ 17'21	0°37'34
greatest brilliancy	451 Dec 29 j 02:41	16°≈39'51	-4.9m	minimum eiong	454 Jun 20 j 18:10 454 Jun 21 j 08:02	29 ப 1721	0 3/34
retrograde	452 Jan 08 j 15:20 452 Jan 25 j 13:43	18°≈46'40				0° U	
evening set min. Earth dist.	-	13°≈06'01	0.27520 AU	arranina riaa	454 Jul 15 j 15:58	0 δ ε 13° Ω 45'45	
	452 Jan 28 j 12:52	11°≈16'19	8°11'20	evening rise	454 Jul 26 j 19:10		
inferior conj minimum elong	452 Jan 29 j 11:35 452 Jan 29 j 04:48	10°≈40'40 10°≈51'18	8°10'36		454 Aug 08 j 22:03 454 Sep 02 j 03:33	0 ் ऌ 0° மி	
•		8°≈36'05	8 10 30	desc. node		0 = 27° ⊆ 06'03	
morning rise direct	452 Feb 01 j 20:17 452 Feb 19 j 04:44	8 ≈3603 2°≈48'17		desc. node	454 Sep 24 j 01:27 454 Sep 26 j 09:48	0°M	
greatest brilliancy	452 Feb 28 j 00:24	2 ≈46 17 4°≈16'23	-4.8m		454 Oct 20 j 18:04	0° ⊼ 1	
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desc. node		3° ∺ 26'50			454 Dec 09 j 03:32	0°≈	
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morning max el	452 Apr 08 j 11:41	5 χ 4006	40 04 30	asc. node	455 Jan 03 j 22:01 455 Jan 15 j 04:39	12° ∺ 30'32	
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	452 Jun 25 j 17:48	0°II		evening max ci	455 Feb 01 j 01:18	20 γ (33 40	40 31 03
	452 Jul 20 j 22:33	0ಂ ತಾ		greatest brilliancy	455 Mar 09 j 08:15	27° Υ 02'55	-4.8m
asc. node	452 Jul 30 j 09:37	11° 5 26'05		retrograde	455 Mar 20 j 00:12	29° Υ 10'10	-4.0111
asc. node	452 Aug 14 j 14:51	0°Ω		evening set	455 Apr 05 j 12:34	23° Y 52'43	
	452 Sep 07 j 21:25	0°m)		inferior conj	455 Apr 10 j 09:12	20°Υ52'54	5°40'58
	452 Oct 01 j 21:28	0∘ ত راال		minimum elong	455 Apr 10 j 18:39	20°Y37'56	5°38'54
morning set	452 Oct 01 j 21:28 452 Oct 02 j 20:35	0 == 1° £ 12'31		min. Earth dist.	455 Apr 10 j 11:53	20° Υ 48'38	0.28819 AU
morning set	452 Oct 25 j 18:14	0° M		morning rise	455 Apr 16 j 00:53	17° Υ 25'29	0.20017710
	452 Oct 25 j 10.14	0 110		direct	455 May 01 j 19:00	12° Y 36'52	
superior conj	452 Nov 11 j 18:02	21°M23'44	0°17'06	desc. node	455 May 06 j 18:01	13° Υ 04'36	
minimum elong	452 Nov 11 j 22:28	21°M37'41		greatest brilliancy	455 May 11 j 20:13	14° Υ 26'06	-4.7m
max. Earth dist.	452 Nov 12 j 00:06	21°M42'48	1.71038 AU	Jy	455 Jun 05 j 18:16	0°8	
desc. node	452 Nov 18 j 23:11	0° ₹ 28'38		morning max el	455 Jun 19 j 13:08	12° 8 19'41	45°44'34
	452 Nov 18 j 14:05	0° ∡ 7			455 Jul 07 j 02:55	0°П	
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	453 Jan 05 j 08:29	0° ≈			455 Aug 29 j 04:02	0°N	
	453 Jan 29 j 09:41	0° ∀			455 Sep 22 j 23:40	0° m/	
	453 Feb 22 j 16:17	o°Υ			455 Oct 17 j 06:06	0∘ ⊽	
asc. node	453 Mar 12 j 02:23	21° Υ 16'45			455 Nov 10 j 05:33	0°M	
	453 Mar 19 j 07:16	0°8			455 Dec 04 j 02:24	0° ∡ 7	
	453 Apr 13 j 10:30	0°II		desc. node	455 Dec 17 j 11:01	16° ∡ 747'38	
	453 May 09 j 08:42	0°9		morning set	455 Dec 18 j 13:31	18° ≯ 10'54	
	453 Jun 05 j 18:25	$0^{\circ}\Omega$		<i>5</i> ,	455 Dec 27 j 23:15	0°る	
evening max el	453 Jun 22 j 05:14	16° Ω 31′28	45°32'23		456 Jan 20 j 21:26	0° ≈	
desc. node	453 Jul 01 j 15:53	25° Ω 11'13	-		. <i>y</i> =		
	453 Jul 07 j 08:42	0° m/y		superior conj	456 Jan 29 j 07:27	10° ≈ 31'55	-1°19'32
greatest brilliancy	453 Jul 31 j 15:05	14° Mp 41'50	-4.8m	minimum elong	456 Jan 28 j 23:24	10° ≈ 06'44	
retrograde	453 Aug 09 j 23:37	16° Mp 16'57		max. Earth dist.	456 Feb 02 j 05:28		1.71777 AU
evening set	453 Aug 28 j 01:08	10° m/ 16'22			456 Feb 13 j 21:52	0°) €	
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evening rise	456 Mar 09 j 05:52	0° Y 13′12			458 Aug 05 j 17:50	0 \circ	
	456 Mar 09 j 01:36	0° Y		morning max el	458 Aug 28 j 23:25	20° © 00'53	46°08'50
	456 Apr 02 j 09:39	9° 8			458 Sep 07 j 20:41	$0^{\circ}\Omega$	
asc. node	456 Apr 08 j 14:18	7° 8 35'37		asc. node	458 Sep 24 j 09:18	17° Ω 53'24	
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	456 Jul 11 j 13:01	0° Mp			458 Dec 18 j 03:51	0° ∡	
desc. node	456 Jul 29 j 03:40	20° m/02'15			459 Jan 11 j 06:16	0° ろ	
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evening max el	456 Sep 03 j 09:30	28° ₽ 31'35	46°41'48		459 Feb 04 j 08:47	0° ≈	
	456 Sep 04 j 21:50	0° M			459 Feb 28 j 12:38	0° ℋ	
greatest brilliancy	456 Oct 13 j 23:48	28°M37'02	-4.9m	morning set	459 Mar 04 j 18:10	5°) 14′30	
	456 Oct 19 j 13:13	0° ∡ ¹			459 Mar 24 j 18:30	0 ° Υ	
retrograde	456 Oct 23 j 10:37	0° ∡ 17'54					
	456 Oct 27 j 06:16	30°RML		superior conj	459 Apr 11 j 22:45	22° Y 25'02	-0°54'57
evening set	456 Nov 07 j 00:05	26°M06'34		minimum elong	459 Apr 12 j 08:07	22° Ƴ 53'55	0°54'35
inferior conj	456 Nov 12 j 22:59	22°M38'34	-1°38'14	max. Earth dist.	459 Apr 14 j 00:51		1.73283 AU
minimum elong	456 Nov 13 j 02:42	22°M32'55		max. Larm dist.	459 Apr 18 j 02:33	0°8	1.75205710
min. Earth dist.	•		0.26395 AU	aga mada		23° 8 20'24	
	456 Nov 13 j 02:00		0.20393 AU	asc. node	459 May 07 j 02:15		
morning rise	456 Nov 19 j 05:11	19°ML01'03			459 May 12 j 12:28	0°II	
asc. node	456 Nov 19 j 06:54	18° M 58'47		evening rise	459 May 18 j 23:43	7° Ⅱ 56'16	
direct	456 Dec 03 j 07:47	15° M 01'38			459 Jun 05 j 23:45	0 \circ \odot	
greatest brilliancy	456 Dec 13 j 14:46	17° M 03'05	-4.9m		459 Jun 30 j 12:22	$0 {\circ} \Omega$	
	457 Jan 03 j 06:47	0° ∡ ¹			459 Jul 25 j 03:17	0° m)	
morning max el	457 Jan 22 j 19:42	18° ₹ '03'16	46°47'57		459 Aug 18 j 22:22	0∘ ত	
	457 Feb 03 j 08:00	8°0		desc. node	459 Aug 26 j 15:33	9° ≙ 16'30	
	457 Mar 02 j 09:10	0° ≈			459 Sep 13 j 00:22	0°M	
desc. node	457 Mar 10 j 20:31	9° ≈ 43'56			459 Oct 08 j 14:26	0° ∡ ¹	
	457 Mar 28 j 06:06	0° \			459 Nov 04 j 07:16	0°ප	
	457 Apr 22 j 14:43	0° Υ		evening max el	459 Nov 16 j 05:28	12° る 33'19	47°23'03
		%8 0 1		evening max ci		0° ≈	47 23 03
	457 May 17 j 16:25	0°II			459 Dec 04 j 17:26		
	457 Jun 11 j 12:41			asc. node	459 Dec 17 j 18:51	9°≈43'08	4.0
asc. node	457 Jul 01 j 23:51	24° Ⅱ 55'34		greatest brilliancy	459 Dec 26 j 18:06	14°≈17'01	-4.9m
_	457 Jul 06 j 03:19	0°€		retrograde	460 Jan 06 j 05:23	16° ≈ 22'31	
morning set	457 Jul 22 j 04:11	19° © 42'47		evening set	460 Jan 23 j 00:24	10° ≈ 48′06	
	457 Jul 30 j 12:04	0 \circ Ω		min. Earth dist.	460 Jan 26 j 02:40	8° ≈ 53'46	0.27452 AU
	457 Aug 23 j 15:45	0° m y		inferior conj	460 Jan 27 j 01:33	8° ≈ 17'50	8°03'29
max. Earth dist.	457 Aug 24 j 08:46	0° m 53'00	1.72222 AU	minimum elong	460 Jan 26 j 18:09	8° ≈ 29'27	8°02'35
				morning rise	460 Jan 30 j 12:17	6° ≈ 10'07	
superior conj	457 Aug 27 j 22:01	5° m 18'48	1°24'36	direct	460 Feb 16 j 17:46	0° ≈ 26'40	
minimum elong	457 Aug 27 j 22:41	5° m/20'50	1°24'36	greatest brilliancy	460 Feb 25 j 13:54	1°≈54'47	-4.8m
Č	457 Sep 16 j 16:07	0∘ <u>⊽</u>		,	460 Apr 04 j 15:47	0° ∀	
evening rise	457 Oct 05 j 06:39	23° ♀ 17'32		morning max el	460 Apr 06 j 00:31	1°) 18'55	46°06'13
e vennig 115e	457 Oct 10 j 15:11	0°M		desc. node	460 Apr 07 j 08:22	2°) ₹36′23	.0 00 15
desc. node	457 Oct 21 j 13:26	13°ML40'57		desc. node	460 May 03 j 15:59	0° Υ	
desc. node		13 IIC4037 0° ⊼ 1			460 May 30 j 10:50	0° 8	
	457 Nov 03 j 14:20						
	457 Nov 27 j 14:37	5°0			460 Jun 25 j 06:08	0° Ⅱ	
	457 Dec 21 j 17:38	0° ≈		_	460 Jul 20 j 10:09	0°©	
	458 Jan 15 j 02:45	0° ∺		asc. node	460 Jul 29 j 11:38	10°957'30	
	458 Feb 09 j 00:06	0° Ƴ			460 Aug 14 j 02:03	$0^{\circ}\Omega$	
asc. node	458 Feb 11 j 16:27	3° Y 10′37			460 Sep 07 j 08:26	0° m)	
	458 Mar 06 j 20:40	$_{0\circ}$ 8		morning set	460 Sep 30 j 10:29	28° m 51'01	
	458 Apr 03 j 18:41	$\Pi^{\circ}0$			460 Oct 01 j 08:28	0∘ ত	
evening max el	458 Apr 09 j 21:57	6° Ⅱ 03'16	45°27'46		460 Oct 25 j 05:17	0° M ₊	
•	458 May 09 j 18:18	0°©			•		
greatest brilliancy	458 May 17 j 13:15	3°542'14	-4.7m	superior conj	460 Nov 09 j 04:30	18° M 50'44	0°20'56
retrograde	458 May 28 j 11:41	5°950'02		minimum elong	460 Nov 09 j 09:52	19° ML 07'35	0°20'40
desc. node	458 Jun 03 j 06:02	5°9510'45		max. Earth dist.	460 Nov 09 j 03:08	18°M46'26	1.71056 AU
	-	1°925'44			-	0° ₹ 00'29	1./1030 AU
evening set	458 Jun 12 j 15:04			desc. node	460 Nov 18 j 01:20		
	458 Jun 15 j 02:58	30°RⅡ	2024:15		460 Nov 18 j 01:11	0° ∡	
inferior conj	458 Jun 18 j 22:22	27° Ⅱ 39'36			460 Dec 11 j 21:37	0°る	
minimum elong	458 Jun 18 j 15:04	27° Ⅱ 51'00		evening rise	460 Dec 20 j 21:52	11° る 18'43	
min. Earth dist.	458 Jun 18 j 23:26	27° Ⅱ 37'57	0.28941 AU		461 Jan 04 j 19:42	0° ≈	
morning rise	458 Jun 24 j 14:59	24° Ⅱ 13'40			461 Jan 28 j 20:59	0° ∀	
direct	458 Jul 10 j 15:20	19° Ⅱ 22'20			461 Feb 22 j 03:46	$0^{\circ}\mathbf{\Upsilon}$	
greatest brilliancy	458 Jul 21 j 04:46	21° Ⅱ 23′00	-4.7m	asc. node	461 Mar 11 j 04:27	20° Ƴ 47'31	
ŕ	•				•		

	461 Mar 18 j 19:08	$_{0\circ}$ 8			463 Oct 16 j 17:24	0∘ ত	
	461 Apr 12 j 23:09	$\Pi^{\circ}0$			463 Nov 09 j 16:39	0° M ₊	
	461 May 08 j 22:59	0ංම			463 Dec 03 j 13:24	0° ∡ ¹	
	461 Jun 05 j 12:36	0°N		morning set	463 Dec 15 j 23:31	15° ∡ ³37'06	
evening max el	461 Jun 19 j 18:49	14° Ω 14'34	45°31'02	desc. node	463 Dec 16 j 13:03	16° ≯ 19'38	
desc. node	461 Jun 30 j 17:56	24°Ω13'30	43 31 02	dese. Hode	463 Dec 27 j 10:11	0°る	
desc. Hode	461 Jul 07 j 19:09	0° Mp			464 Jan 20 j 08:18	0°≈	
			4.0		404 Jan 20 J 06.16	0 ~	
greatest brilliancy	461 Jul 29 j 03:46	12° Mp 24'33	-4.8m		464 7 06:10.27	0002150	1010101
retrograde	461 Aug 07 j 13:36	14° Mp 01'00		superior conj	464 Jan 26 j 18:37	8°≈02'50	
evening set	461 Aug 25 j 14:59	8° Mp 00'14		minimum elong	464 Jan 26 j 09:48	7° ≈ 35'14	
inferior conj	461 Aug 28 j 17:05	6° Mp 07′56		max. Earth dist.	464 Jan 30 j 15:26		1.71733 AU
minimum elong	461 Aug 28 j 17:52	6° Mg 06′45			464 Feb 13 j 08:42	0° ∀	
min. Earth dist.	461 Aug 29 j 09:55	5° Mp 42'06	0.28026 AU	evening rise	464 Mar 06 j 19:26	27°) 53′08	
morning rise	461 Aug 31 j 20:30	4° Mp 13′02			464 Mar 08 j 12:26	0 ° $\mathbf{\Upsilon}$	
	461 Sep 09 j 02:46	30° R €			464 Apr 01 j 20:34	9° 8	
direct	461 Sep 18 j 21:24	28° Ω 04'16		asc. node	464 Apr 07 j 16:27	7° 8 08'43	
	461 Sep 29 j 02:01	0° m)			464 Apr 26 j 09:59	$\Pi^{\circ}0$	
greatest brilliancy	461 Sep 30 j 01:01	0° m 21'43	-4.9m		464 May 21 j 05:40	0ಂತಾ	
asc. node	461 Oct 21 j 21:08	14° m/32'16			464 Jun 15 j 09:41	$0^{\circ}\Omega$	
	461 Nov 07 j 10:00	0∘ ⊽			464 Jul 11 j 02:48	o° m	
morning max el	461 Nov 08 j 11:34	1° ≙ 04'48	46°49'30	desc. node	464 Jul 28 j 05:39	19° m 24'36	
	461 Dec 05 j 00:45	0° M			464 Aug 06 j 19:57	0∘ ಹ	
	461 Dec 30 j 15:34	0° ∡ 7		evening max el	464 Aug 31 j 23:57	26° ≏ 12'08	46°39'18
	462 Jan 24 j 13:36	ੁੱਤ		evening max er	464 Sep 04 j 22:35	0°M	40 37 10
desc. node	462 Feb 10 j 10:41	0 ප 20°ප31'02		greatest brilliancy	464 Oct 11 j 12:25	26°M09'25	-4.9m
desc. Hode	·				,		-4.7111
	462 Feb 18 j 05:20	0° ≈		retrograde	464 Oct 20 j 23:10	27°M49'29	
	462 Mar 14 j 18:51	0° ∀		evening set	464 Nov 04 j 14:03	23°M36'11	
	462 Apr 08 j 07:48	0° Υ		inferior conj	464 Nov 10 j 11:05	20°M10'25	
	462 May 02 j 20:31	0° 8		minimum elong	464 Nov 10 j 15:41		2°00'56
morning set	462 May 13 j 10:18	12° 8 56'28		min. Earth dist.	464 Nov 10 j 15:18	20°M04'02	0.26411 AU
	462 May 27 j 08:28	Π $\circ 0$		morning rise	464 Nov 16 j 17:13	16°M33'04	
asc. node	462 Jun 03 j 14:03	8° Ⅱ 52'14		asc. node	464 Nov 18 j 08:55	15°M42'58	
max. Earth dist.	462 Jun 16 j 13:02	24° Ⅱ 47'21	1.73535 AU	direct	464 Nov 30 j 20:48	12°M33'25	
				greatest brilliancy	464 Dec 11 j 03:58	14°M35'14	-4.9m
superior conj	462 Jun 18 j 19:36	27° Ⅲ 35′07	0°35'04		465 Jan 03 j 17:44	0° ∡ ¹	
minimum elong	462 Jun 18 j 13:06	27° Ⅱ 15′10	0°34'46	morning max el	465 Jan 20 j 09:30	15° ∡ ³39'57	46°48'52
	462 Jun 20 j 18:42	0° ©			465 Feb 03 j 02:59	0°ප	
	462 Jul 15 j 02:42	$0^{\circ}\Omega$			465 Mar 02 j 00:04	0° ≈	
evening rise	462 Jul 24 j 13:33	11° Ω 40′52		desc. node	465 Mar 09 j 22:41	9° ≈ 09'08	
3	462 Aug 08 j 08:57	0° mp			465 Mar 27 j 19:09	0°) €	
	462 Sep 01 j 14:40	0∘ ಹ			465 Apr 22 j 02:45	0° Υ	
desc. node	462 Sep 23 j 03:36	26° ₽ 37'27			465 May 17 j 03:49	0°8	
dese. Hode	462 Sep 25 j 21:16	ე∘ ™			465 Jun 10 j 23:41	0°II	
	462 Oct 20 j 06:01	0° ∡ 7		asc. node	465 Jul 01 j 01:50	24° ∏ 28'38	
	462 Nov 13 j 19:00	°ਤ ਹ°ਤ		asc. node	465 Jul 05 j 14:04	0°95	
	462 Dec 08 j 17:22	0° ≫		morning set	465 Jul 19 j 21:33	17° © 35'31	
1	463 Jan 03 j 14:13			F 4 F 4	465 Jul 29 j 22:43	0° Ω	1 72276 ATT
asc. node	463 Jan 14 j 06:36	11°) 47'02	46022120	max. Earth dist.	465 Aug 21 j 21:33	28° Ω 30'07	1.72276 AU
evening max el	463 Jan 26 j 14:07	24°) 38′52	46°33'39		465 Aug 23 j 02:25	0° m	
	463 Feb 01 j 00:35	0° Υ					
greatest brilliancy	463 Mar 07 j 00:26	24° Y 51′05	-4.8m	superior conj	465 Aug 25 j 14:14		1°24'39
retrograde	463 Mar 17 j 17:10	26° Ƴ 59'10		minimum elong	465 Aug 25 j 14:07	3° Mp 06'00	1°24'38
evening set	463 Apr 03 j 07:27	21° Y 37'21			465 Sep 16 j 02:54	0∘ ত	
inferior conj	463 Apr 08 j 01:21	18° Ƴ 41'37	5°55'52	evening rise	465 Oct 02 j 19:20	20° ≏ 52'47	
minimum elong	463 Apr 08 j 10:54	18° Ƴ 26'31	5°53'50		465 Oct 10 j 02:08	0° M	
min. Earth dist.	463 Apr 08 j 03:25	18° Ƴ 38'20	0.28800 AU	desc. node	465 Oct 20 j 15:33	13°ML13'07	
morning rise	463 Apr 13 j 14:33	15° Ƴ 18′06			465 Nov 03 j 01:28	0° ∡ ¹	
direct	463 Apr 29 j 10:44	10° Y 25′53			465 Nov 27 j 01:56	0°ප	
desc. node	463 May 05 j 20:08	11° Y 11'40			465 Dec 21 j 05:12	0° ≈	
	703 May 03 j 20.00		4.7		466 Jan 14 j 14:46	0° ∀	
greatest brilliancy		12° Ƴ 14'41	-4.7m				
greatest brilliancy	463 May 09 j 10:57	12° Ƴ 14'41 0° ႘	-4./m			0° Υ	
	463 May 09 j 10:57 463 Jun 05 j 23:53	$0^{\circ}B$		asc. node	466 Feb 08 j 13:00	0° Y	
morning max el	463 May 09 j 10:57 463 Jun 05 j 23:53 463 Jun 17 j 05:56	0°8 10°812'10		asc. node	466 Feb 08 j 13:00 466 Feb 10 j 18:33	0° Υ 2° Υ 38'22	
	463 May 09 j 10:57 463 Jun 05 j 23:53 463 Jun 17 j 05:56 463 Jul 06 j 20:06	0°8 10°812'10 0°Ⅱ		asc. node	466 Feb 08 j 13:00 466 Feb 10 j 18:33 466 Mar 06 j 11:29	0° Ƴ 2° Ƴ 38'22 0° ႘	
morning max el	463 May 09 j 10:57 463 Jun 05 j 23:53 463 Jun 17 j 05:56 463 Jul 06 j 20:06 463 Aug 03 j 00:22	0°8 10°812'10 0°Ⅱ 0°9			466 Feb 08 j 13:00 466 Feb 10 j 18:33 466 Mar 06 j 11:29 466 Apr 03 j 14:46	0°Y 2°Y38'22 0°႘ 0°Ⅱ	45°28'52
	463 May 09 j 10:57 463 Jun 05 j 23:53 463 Jun 17 j 05:56 463 Jul 06 j 20:06 463 Aug 03 j 00:22 463 Aug 26 j 23:30	0°႘ 10°႘12'10 0°頂 0°孚 27°ᢒ58'01		asc. node	466 Feb 08 j 13:00 466 Feb 10 j 18:33 466 Mar 06 j 11:29 466 Apr 03 j 14:46 466 Apr 07 j 13:48	0°Υ 2°Υ38'22 0°႘ 0°Ⅱ 3°Ⅱ52'54	45°28'52
morning max el	463 May 09 j 10:57 463 Jun 05 j 23:53 463 Jun 17 j 05:56 463 Jul 06 j 20:06 463 Aug 03 j 00:22	0°8 10°812'10 0°Ⅱ 0°9			466 Feb 08 j 13:00 466 Feb 10 j 18:33 466 Mar 06 j 11:29 466 Apr 03 j 14:46	0°Y 2°Y38'22 0°႘ 0°Ⅱ	

retrograde	466 May 26 j 03:20	3° © 41'35		superior conj	468 Nov 06 j 14:57	16° M ₊17'59	
desc. node	466 Jun 02 j 08:04	2° © 40'31		minimum elong	468 Nov 06 j 21:10	16°M37'33	0°24'25
	466 Jun 08 j 23:09	30°RⅡ		max. Earth dist.	468 Nov 06 j 09:50	16°M01'52	1.71072 AU
evening set	466 Jun 10 j 06:20	29° Ⅱ 18'46		desc. node	468 Nov 17 j 03:18	29°M32'05	
inferior conj	466 Jun 16 j 14:39	25° Ⅱ 31′04	-3°15'57		468 Nov 17 j 12:11	0° ∡ ¹	
minimum elong	466 Jun 16 j 07:53	25° Ⅱ 41'39	3°14'06		468 Dec 11 j 08:41	0°ರ	
min. Earth dist.	466 Jun 16 j 16:00	25° Ⅱ 28'56	0.28948 AU	evening rise	468 Dec 18 j 07:34	8° る 43'49	
morning rise	466 Jun 22 j 09:17	22° Ⅱ 01'50			469 Jan 04 j 06:50	0° ≈	
direct	466 Jul 08 j 07:32	17° Ⅱ 13'44			469 Jan 28 j 08:13	0°) €	
greatest brilliancy	466 Jul 18 j 20:40	19° Ⅱ 13'37	-4.7m		469 Feb 21 j 15:12	$0^{\circ}\mathbf{\Upsilon}$	
,	466 Aug 06 j 08:31	0ංම		asc. node	469 Mar 10 j 06:37	20° Ƴ 18'43	
morning max el	466 Aug 26 j 13:44	17° © 45'19	46°07'23		469 Mar 18 j 06:57	0°8	
Č	466 Sep 07 j 15:13	$0^{\circ}\Omega$			469 Apr 12 j 11:47	0°II	
asc. node	466 Sep 23 j 11:30	17° £ 15′33			469 May 08 j 13:21	0°ಅ	
	466 Oct 04 j 15:38	0° m			469 Jun 05 j 07:14	$0^{\circ}\Omega$	
	466 Oct 29 j 22:37	0∘ <mark>ಹ</mark>		evening max el	469 Jun 17 j 09:03	11° £ 59′23	45°29'35
	466 Nov 23 j 11:00	0° M ₊		desc. node	469 Jun 29 j 19:55	23° Ω 14'04	43 27 33
	466 Dec 17 j 15:31	0°×7		desc. node	469 Jul 08 j 09:21	0° m	
		0°る		areatast brillianas	-	10° Mp 05'58	4 9
4 4-	467 Jan 10 j 17:36	0 3 2° る 52'10		greatest brilliancy	469 Jul 26 j 15:36		-4.8m
desc. node	467 Jan 13 j 00:53			retrograde	469 Aug 05 j 03:48	11° m 44'19	
	467 Feb 03 j 19:50	0° ≈		evening set	469 Aug 23 j 04:12	5° Mp 43'56	0046120
	467 Feb 27 j 23:29	0° ∀		inferior conj	469 Aug 26 j 07:21	3° m 50'09	
morning set	467 Mar 02 j 08:02	2° ¥ 55'18		minimum elong	469 Aug 26 j 07:15	3° m 50'17	8°46'29
	467 Mar 24 j 05:11	$\mathbf{\gamma}_{0}$		min. Earth dist.	469 Aug 26 j 23:23	3°m/25'33	0.28088 AU
				morning rise	469 Aug 29 j 10:06	1° My 56'22	
superior conj	467 Apr 09 j 15:16	20° Ƴ 15′21			469 Sep 01 j 19:36	30°R $Ω$	
minimum elong	467 Apr 10 j 00:47	20° Ƴ 44'41	0°57'06	direct	469 Sep 16 j 12:28	25° Ω 45'26	
max. Earth dist.	467 Apr 11 j 21:03	23° Y 01'01	1.73245 AU	greatest brilliancy	469 Sep 27 j 15:56	28° Ω 03'01	-4.9m
	467 Apr 17 j 13:10	9° 8			469 Oct 01 j 23:11	0° m y	
asc. node	467 May 06 j 04:17	22° 8 54'01		asc. node	469 Oct 20 j 23:07	13° m 26'59	
	467 May 11 j 23:07	$\Pi^{\circ}0$		morning max el	469 Nov 06 j 02:49	28° m 44'49	46°48'37
evening rise	467 May 16 j 18:07	5° Ⅱ 52'42			469 Nov 07 j 08:15	0∘ ত	
	467 Jun 05 j 10:33	0° ©			469 Dec 04 j 16:58	0°M	
	467 Jun 29 j 23:27	$0^{\circ}\Omega$			469 Dec 30 j 05:31	0° ∡ ¹	
	467 Jul 24 j 14:50	0°m			470 Jan 24 j 02:23	0°ठ	
	467 Aug 18 j 10:38	0∘ <u>⊽</u>		desc. node	470 Feb 09 j 12:51	20° ප 00'11	
desc. node	467 Aug 25 j 17:43	8° ≏ 45'23			470 Feb 17 j 17:24	0° ≈	
	467 Sep 12 j 13:44	0° M			470 Mar 14 j 06:26	0°) €	
	467 Oct 08 j 05:41	0° ∡ 7			470 Apr 07 j 19:00	0° Υ	
	467 Nov 04 j 02:36	°ਤ ਹ°ਤ			470 May 02 j 07:27	0°8	
evening max el	467 Nov 13 j 18:59	00 10° ろ 07'56	47°23'08	morning set	470 May 11 j 04:25	10° 8 51'44	
evening max er	467 Dec 05 j 05:17	0°≈	47 23 00	morning set	470 May 11 j 04.23	0°II	
asc. node	467 Dec 05 j 05:17 467 Dec 16 j 20:52	0 ≈ 8°≈13'09		asc. node	470 Jun 02 j 16:05	8° Ⅱ 25'29	
			4.0		470 Jun 14 j 12:59	23° II 00'23	1 72556 ATT
greatest brilliancy	467 Dec 24 j 09:38	11°≈54'34	-4.9m	max. Earth dist.	4/0 Juli 14 j 12.39	23 1100 23	1.73556 AU
retrograde	468 Jan 03 j 19:11	13°≈58'51			470 I 16:14 16	050 T 21152	0022112
evening set	468 Jan 20 j 10:51	8°≈30'34	0.07204.411	superior conj	470 Jun 16 j 14:16	25° I I31'53	
min. Earth dist.	468 Jan 23 j 16:39	6°≈31'13	0.27384 AU	minimum elong	470 Jun 16 j 08:12	25° Ⅱ 13'16	0°31′56
inferior conj	468 Jan 24 j 15:28	5°≈55'25	7°54'37		470 Jun 20 j 05:26	0°©	
minimum elong	468 Jan 24 j 07:30	6°≈07'57	7°53'33		470 Jul 14 j 13:32	0° N	
morning rise	468 Jan 28 j 04:29	3°≈44'17		evening rise	470 Jul 22 j 08:04	9° Ω 36′09	
	468 Feb 04 j 13:28	30°Rる			470 Aug 07 j 19:59	0° m)	
direct	468 Feb 14 j 06:24	28° る 05'12			470 Sep 01 j 02:01	0∘ ಹ	
greatest brilliancy	468 Feb 23 j 03:47	29° る 34'03	-4.8m	desc. node	470 Sep 22 j 05:42	26° ≏ 07'50	
	468 Feb 24 j 10:14	0° ≈			470 Sep 25 j 09:00	0° M	
morning max el	468 Apr 03 j 13:33	28° ≈ 58'42	46°07'45		470 Oct 19 j 18:17	0°⊀	
	468 Apr 04 j 14:45	0° ∀			470 Nov 13 j 07:58	0°₹	
desc. node	468 Apr 06 j 10:27	1°) 47′18			470 Dec 08 j 07:32	0° ≈	
	468 May 03 j 07:55	$0^{\circ}\mathbf{\Upsilon}$			471 Jan 03 j 06:53	0°) €	
	468 May 30 j 00:13	9° 8		asc. node	471 Jan 13 j 08:43	11° ∺ 02'57	
	468 Jun 24 j 18:17	$\Pi^{\circ}0$		evening max el	471 Jan 24 j 06:03	22° ∺ 23'40	46°36'21
	468 Jul 19 j 21:38	0ංම			471 Feb 01 j 01:07	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	468 Jul 28 j 13:43	10°529'20		greatest brilliancy	471 Mar 04 j 16:35	22° Y 38'50	-4.8m
	468 Aug 13 j 13:11	$0^{\circ}\Omega$		retrograde	471 Mar 15 j 10:15	24° Ƴ 47'29	
	468 Sep 06 j 19:26	0° m)		evening set	471 Apr 01 j 02:26	19° Ƴ 21'30	
morning set	468 Sep 28 j 00:19	26° m/29'33		inferior conj	471 Apr 05 j 17:32	16° Ƴ 29'44	6°10'14
Z .	468 Sep 30 j 19:25	0∘ ಹ		minimum elong	471 Apr 06 j 03:07	16° Ƴ 14'35	6°08'17
	468 Oct 24 j 16:14	0° M ₊		min. Earth dist.	471 Apr 05 j 18:44	16° Y 27'49	0.28777 AU
	20 20 2. j 10.1 r	- 11V				/ 10	,,,,,,

morning rise	471 Apr 11 j 04:04	13° Ƴ 10′15			473 Nov 02 j 12:57	0° ∡ ¹	
direct	471 Apr 27 j 02:51	8° Ƴ 14'29			473 Nov 26 j 13:40	0°ಕ	
desc. node	471 May 04 j 22:08	9° Ƴ 22'14			473 Dec 20 j 17:15	0° ≈	
greatest brilliancy	471 May 07 j 01:10	10° Y ′02′08	-4.7m		474 Jan 14 j 03:19	0° ∀	
	471 Jun 06 j 03:50	0° 8			474 Feb 08 j 02:29	0° Y	
morning max el	471 Jun 14 j 22:51	8° 8 04'29	45°44'35	asc. node	474 Feb 09 j 20:41	2° Y '04'37	
	471 Jul 06 j 13:06	$\Pi^{\circ}0$			474 Mar 06 j 02:59	9° 8	
	471 Aug 02 j 14:16	0 \circ \odot			474 Apr 03 j 12:02	$\Pi^{\circ}0$	
asc. node	471 Aug 26 j 01:43	27° 5 27'03		evening max el	474 Apr 05 j 04:49	1° Ⅲ 39'15	45°30'16
	471 Aug 28 j 05:01	$0^{\circ}\Omega$		greatest brilliancy	474 May 12 j 22:27	29° Ⅲ 25'45	-4.7m
	471 Sep 21 j 23:17	0° m)			474 May 14 j 13:48	0°€	
	471 Oct 16 j 05:00	0∘ 亚		retrograde	474 May 23 j 19:08	1° 5 32'46	
	471 Nov 09 j 04:05	0° M .		desc. node	474 Jun 01 j 10:08	0° © 05'09	
	471 Dec 03 j 00:44	0° ∡ ¹			474 Jun 01 j 16:09	30° Ŗ Ⅱ	
morning set	471 Dec 13 j 09:12	13° ₹ '01'08		evening set	474 Jun 07 j 21:54	27° Ⅱ 10′50	
desc. node	471 Dec 15 j 15:08	15° ₹ 50'39		inferior conj	474 Jun 14 j 07:06	23° Ⅲ 22'01	-2°57'31
	471 Dec 26 j 21:27	0°⋜		minimum elong	474 Jun 14 j 00:53	23° Ⅲ 31'44	2°55'48
	472 Jan 19 j 19:29	0° ≈		min. Earth dist.	474 Jun 14 j 08:57	23° Ⅱ 19′08	0.28954 AU
	,			morning rise	474 Jun 20 j 03:38	19° Ⅱ 49'45	
superior conj	472 Jan 24 j 05:21	5° ≈ 31'19	-1°16'20	direct	474 Jul 05 j 23:29	15° Ⅱ 04'26	
minimum elong	472 Jan 23 j 19:50	5° ≈ 01'34		greatest brilliancy	474 Jul 16 j 13:21	17° Ⅱ 04'23	-4.7m
max. Earth dist.	472 Jan 28 j 03:31		1.71681 AU	8	474 Aug 06 j 19:51	0°ම	
	472 Feb 12 j 19:48	0° \		morning max el	474 Aug 24 j 04:17	15°9529'35	46°06'07
evening rise	472 Mar 04 j 08:45	25°) 31′27		. 8	474 Sep 07 j 09:36	0°N	
	472 Mar 07 j 23:31	0° Υ		asc. node	474 Sep 22 j 13:27	16° Ω 36'29	
	472 Apr 01 j 07:45	0°8			474 Oct 04 j 06:16	0° m/y	
asc. node	472 Apr 06 j 18:28	6° 8 40'33			474 Oct 29 j 11:45	0∘ <u>v</u>	
use. Houe	472 Apr 25 j 21:25	0°II			474 Nov 22 j 23:24	0° M ₊	
	472 May 20 j 17:32	0°©			474 Dec 17 j 03:29	0° ∡ ¹	
	472 Jun 14 j 22:22	0°N			475 Jan 10 j 05:16	0°ਤ	
	472 Jul 10 j 16:59	0° m)		desc. node	475 Jan 12 j 03:04	2° る 22'42	
desc. node	472 Jul 27 j 07:51	18° m) 46'31		desc. Hode	475 Feb 03 j 07:17	0°≈	
dese. Hode	472 Aug 06 j 13:15	0ಂ ರ			475 Feb 27 j 10:44	0° ₩	
evening max el	472 Aug 29 j 13:55	23° ♀ 50'42	46°36'30	morning set	475 Feb 27 j 21:20	0° ₩ 32'52	
evening max er	472 Sep 05 j 01:02	0°M	40 30 30	morning set	475 Mar 23 j 16:18	0°Υ	
greatest brilliancy	472 Oct 09 j 01:18	23°M-40'58	-4.9m		173 17tai 23 j 10.10	0 1	
retrograde	472 Oct 18 j 10:52	25°M19'29	1.7111	superior conj	475 Apr 07 j 07:22	18° Ƴ 03'09	-0°59'53
evening set	472 Nov 02 j 04:04	21°ML04'04		minimum elong	475 Apr 07 j 17:01	18° Y 32'50	
inferior conj	472 Nov 07 j 23:04	17° M 40'47	-2°26'19	max. Earth dist.	475 Apr 09 j 15:04		1.73202 AU
minimum elong	472 Nov 08 j 04:31	17°M32'31		max. Lartii dist.	475 Apr 17 j 00:11	0°8	1.73202 110
min. Earth dist.	472 Nov 08 j 04:49		0.26435 AU	asc. node	475 May 05 j 06:17	22° 8 26'26	
morning rise	472 Nov 14 j 04:49	14°ML03'36	0.20433710	ase. Hode	475 May 05 j 00:17 475 May 11 j 10:08	0°II	
asc. node	472 Nov 14 j 04.49 472 Nov 17 j 10:58	12°M29'28		evening rise	475 May 11 j 10:08	3° Ⅱ 47'18	
direct	472 Nov 28 j 09:28	10°ML03'30		evening rise	475 Jun 04 j 21:41	0°99	
greatest brilliancy	472 Dec 08 j 17:43	12°ML06'06	-1 9m		475 Jun 29 j 10:53	0°Ω	
greatest oriniancy	473 Jan 04 j 02:32	0° ∡ 7	4.7111		475 Jul 24 j 02:45	0° m y	
morning max el	473 Jan 17 j 22:18		46°49'48		475 Aug 17 j 23:17	0∘ <u>ರ</u>	
morning max ci	473 Feb 02 j 22:02	0°る	40 42 40	desc. node	475 Aug 24 j 19:48	8° ₽ 13'00	
	473 Mar 01 j 15:15	0° ≈		dese. Hode	475 Sep 12 j 03:29	0° ™	
desc. node	473 Mar 09 j 00:49	8° ≈ 33'10			475 Oct 07 j 21:23	0° ⊼ ¹	
dese. Hode	473 Mar 27 j 08:30	0° ∺			475 Nov 03 j 22:42	°ੁੱਤ	
	473 Apr 21 j 15:04	0° Υ		evening max el	475 Nov 11 j 08:23	~ ろ 41'51	47°23'10
	473 May 16 j 15:31	0°8		evening max er	475 Dec 05 j 21:23	0°≈	47 25 10
	473 Jun 10 j 11:00	0°II		asc. node	475 Dec 15 j 22:57	6° ≈ 39'30	
asc. node	473 Jun 30 j 03:58	24° I I01'14		greatest brilliancy	475 Dec 22 j 00:37	9° ≈ 30'44	-4 9m
use. Houe	473 Jul 05 j 01:09	0°9		retrograde	476 Jan 01 j 09:12	11° ≈ 34'38	1.7111
morning set	473 Jul 17 j 15:16	15°528'21		evening set	476 Jan 17 j 21:12	6°≈12'08	
	473 Jul 29 j 09:42	0°Ω		min. Earth dist.	476 Jan 21 j 06:32	4°≈07'56	0.27323 AU
max. Earth dist.	473 Aug 19 j 11:27		1.72331 AU	inferior conj	476 Jan 22 j 05:24	3°≈32'09	
Lartii dist.	473 Aug 22 j 13:24	0° m)	2331.110	minimum elong	476 Jan 21 j 20:53	3°≈45'29	
	.,51146 22 J 15.24	יעיי י		morning rise	476 Jan 25 j 20:55	1°≈17'31	, .550
superior conj	473 Aug 23 j 07:00	0° m 54'50	1°24'32		476 Jan 28 j 02:57	1 ∞1731 30°Rる	
minimum elong	., 5 . 145 25 J 0 / .00			direct	476 Feb 11 j 19:05	25° る 42'38	
	473 Aug 23 i 06:08	0° m ≤2'08					
viong	473 Aug 23 j 06:08 473 Sep. 15 i 14:00	0° Mp 52'08 0° <u>ი</u>	1 24 33		-		-4 8m
_	473 Sep 15 j 14:00	0∘ ⊽	1 2433	greatest brilliancy	476 Feb 20 j 17:48	27° る 12'30	-4.8m
evening rise	473 Sep 15 j 14:00 473 Sep 30 j 08:35	0° ೬ 18° ೬ 28'59	1 24 33	greatest brilliancy	476 Feb 20 j 17:48 476 Feb 27 j 09:23	27° ට 12'30 0°≈	
_	473 Sep 15 j 14:00	0∘ ⊽	1 2433		476 Feb 20 j 17:48	27° る 12'30	-4.8m 46°09'13

						_	
desc. node	476 Apr 05 j 12:26	0°) 57'43			478 Nov 12 j 21:01	0°₹	
	476 May 02 j 23:58	0 ° $\mathbf{\gamma}$			478 Dec 07 j 21:48	0° ≈	
	476 May 29 j 13:49	9° 8			479 Jan 02 j 23:46	0° ℋ	
	476 Jun 24 j 06:40	Π $\circ 0$		asc. node	479 Jan 12 j 10:53	10°) 18′40	
	476 Jul 19 j 09:20	0ಂ ತಾ		evening max el	479 Jan 21 j 22:28	20° ₩ 09'51	46°38'59
asc. node	476 Jul 27 j 15:51	10°500'44			479 Feb 01 j 02:46	0 ° $\mathbf{\Upsilon}$	
	476 Aug 13 j 00:32	$0^{\circ}\Omega$		greatest brilliancy	479 Mar 02 j 09:06	20° Ƴ 27'30	-4.8m
	476 Sep 06 j 06:37	O° Mp		retrograde	479 Mar 13 j 03:06	22° Ƴ 36′10	
morning set	476 Sep 25 j 14:28	24° Mp 08'35		evening set	479 Mar 29 j 21:31	17° Ƴ 06′19	
	476 Sep 30 j 06:34	0∘ ত		inferior conj	479 Apr 03 j 09:47	14° Ƴ 18'26	6°24'02
	476 Oct 24 j 03:23	0°M		minimum elong	479 Apr 03 j 19:21	14° Ƴ 03'19	6°22'10
	· ·			min. Earth dist.	479 Apr 03 j 10:05	14° Ƴ 17'58	0.28753 AU
superior conj	476 Nov 04 j 01:51	13°M46'00	0°28'25	morning rise	479 Apr 08 j 17:30	11° Ƴ 02'59	
minimum elong	476 Nov 04 j 08:52	14°M08'05	0°28'05	direct	479 Apr 24 j 19:13	6° Ƴ 03'49	
max. Earth dist.	476 Nov 03 j 18:42	13°M23'29	1.71087 AU	desc. node	479 May 04 j 00:15	7° Ƴ 37'18	
desc. node	476 Nov 16 j 05:25	29°M03'33		greatest brilliancy	479 May 04 j 15:13	7° Ƴ 49'49	-4.7m
acor. noue	476 Nov 16 j 23:21	0° ∡ 7		greatest orimane)	479 Jun 06 j 06:02	0°8	,
	476 Dec 10 j 19:53	°5		morning max el	479 Jun 12 j 15:14	5° 8 55'49	45°44'30
evening rise	476 Dec 15 j 17:41	° ਠ 6° ਠ 09'46		morning max er	479 Jul 06 j 05:43	0°Ⅱ	45 44 50
evening rise	477 Jan 03 j 18:07	0°≈			479 Aug 02 j 03:59	0°©	
	477 Jan 27 j 19:37	0° ∺		asc. node	479 Aug 02 j 03:39 479 Aug 25 j 03:41	26°955'39	
	,	0° Υ		asc. Houe		20 3 33 39	
	477 Feb 21 j 02:48	0° γ 19° Υ 48'36			479 Aug 27 j 17:26		
asc. node	477 Mar 09 j 08:34				479 Sep 21 j 11:02	0° m/	
	477 Mar 17 j 19:00	0° 8			479 Oct 15 j 16:25	0° ™	
	477 Apr 12 j 00:44	0°II			479 Nov 08 j 15:20	0° M ₊	
	477 May 08 j 04:09	0°©			479 Dec 02 j 11:55	0° ∡	
	477 Jun 05 j 02:37	0 $^{\circ}\Omega$		morning set	479 Dec 10 j 18:54	10° ∡ 25'45	
evening max el	477 Jun 15 j 00:15	9° Ω 46'06	45°28'21	desc. node	479 Dec 14 j 17:15	15° ∡ 22'21	
desc. node	477 Jun 28 j 22:07	22° Ω 13'14			479 Dec 26 j 08:33	0°₹	
	477 Jul 09 j 04:35	O° Mp			480 Jan 19 j 06:31	0° ≈	
greatest brilliancy	477 Jul 24 j 03:19	7° Mp 47′27	-4.7m				
retrograde	477 Aug 02 j 18:19	9° ™ 27'48		superior conj	480 Jan 21 j 16:00	2° ≈ 59'58	
evening set	477 Aug 20 j 17:13	3°₩28'36		minimum elong	480 Jan 21 j 05:53	2° ≈ 28'19	1°14'15
inferior conj	477 Aug 23 j 21:46	1° m 32'38	-8°45'24	max. Earth dist.	480 Jan 25 j 15:22	7° ≈ 58'19	1.71630 AU
minimum elong	477 Aug 23 j 20:49	1° Mp 34'06	8°45'24		480 Feb 12 j 06:45	0° ∀	
min. Earth dist.	477 Aug 24 j 12:38	1° m 09'50	0.28145 AU	evening rise	480 Mar 01 j 22:00	23° ₩ 09'51	
	477 Aug 26 j 10:28	30° R Ω			480 Mar 07 j 10:27	0 ° Υ	
morning rise	477 Aug 27 j 00:15	29° Ω 39'20			480 Mar 31 j 18:45	8°	
direct	477 Sep 14 j 04:07	23° Ω 27′09		asc. node	480 Apr 05 j 20:32	6° 8 13'08	
greatest brilliancy	477 Sep 25 j 06:19	25° Ω 43'55	-4.8m		480 Apr 25 j 08:39	$\Pi^{\circ}0$	
	477 Oct 03 j 16:58	0° m			480 May 20 j 05:15	0°ම	
asc. node	477 Oct 20 j 01:12	12° m 23'24			480 Jun 14 j 10:56	$0^{\circ}\Omega$	
morning max el	477 Nov 03 j 18:30	26° m 26'00	46°47'34		480 Jul 10 j 07:09	0° m)	
Č	477 Nov 07 j 05:45	0 o $\dot{\overline{\mathbf{v}}}$		desc. node	480 Jul 26 j 09:52	18° m) 08'00	
	477 Dec 04 j 08:59	0°M			480 Aug 06 j 06:45	0∘ ⊽	
	477 Dec 29 j 19:24	0° ∡ 7		evening max el	480 Aug 27 j 03:11	21° ≏ 28'14	46°33'48
	478 Jan 23 j 15:09	0°ප		• · • · · · · · · · · · · · · · · · · ·	480 Sep 05 j 04:48	0°M	
desc. node	478 Feb 08 j 14:55	19° る 29'08		greatest brilliancy	480 Oct 06 j 14:47	21° M .14'19	-4 9m
	478 Feb 17 j 05:27	0°≈		retrograde	480 Oct 15 j 22:11	22°M50'57	
	478 Mar 13 j 17:59	0°) €		evening set	480 Oct 30 j 18:24	18°MJ33'05	
	478 Apr 07 j 06:12	0° Υ		inferior conj	480 Nov 05 j 11:16	15°ML12'42	-2°49'40
	478 May 01 j 18:25	0°8		minimum elong	480 Nov 05 j 17:31	15°ML03'13	
morning set	478 May 08 j 22:29	8° 8 46'41		min. Earth dist.	480 Nov 05 j 17:51	15°ML01'21	
morning set	478 May 26 j 06:04	0°II		morning rise	480 Nov 11 j 16:21	11°MJ35'56	0.20401 AC
asc. node	478 Jun 01 j 18:14	7° П 58'56		asc. node	480 Nov 16 j 13:07	9°M22'21	
			1 72572 AII				
max. Earth dist.	478 Jun 12 j 12:09	∠1 Д 10′49	1.73573 AU	direct	480 Nov 25 j 21:48	7° M .34'57 9° M .38'59	4.000
gunorior c	470 Jun 14:00 47	220T20100	0020110	greatest brilliancy	480 Dec 06 j 08:06		-4 .7111
superior conj	478 Jun 14 j 08:47	23° Ⅱ 28'00			481 Jan 04 j 08:30	0° √ 10°. 7 42!52	46050127
minimum elong	478 Jun 14 j 03:12	23° Ⅱ 10′50	0°29'03	morning max el	481 Jan 15 j 10:30	10° ₹ 43'52	46°50'37
	478 Jun 19 j 16:14	0° ©			481 Feb 02 j 16:16	0° ට	
	478 Jul 14 j 00:25	0° Ω			481 Mar 01 j 05:56	0° ≈	
evening rise	478 Jul 20 j 02:30	7° Ω 31'07		desc. node	481 Mar 08 j 02:43	7°≈57'40	
	478 Aug 07 j 07:02	0° Т р			481 Mar 26 j 21:29	0° ∀	
	478 Aug 31 j 13:20	0° ⊽			481 Apr 21 j 03:03	0° Υ	
desc. node	478 Sep 21 j 07:40	25° Ω 37'53			481 May 16 j 02:53	0°8	
	478 Sep 24 j 20:44	0° M			481 Jun 09 j 21:59	0°II	
	478 Oct 19 j 06:33	0°⊀		asc. node	481 Jun 29 j 06:04	23° Ⅱ 34'38	

	481 Jul 04 j 11:55	0 \circ \odot		min. Earth dist.	484 Jan 18 j 19:56	1° ≈ 44'50	0.27259 AU
morning set	481 Jul 15 j 08:59	13°922'04		inferior conj	484 Jan 19 j 19:05	1° ≈ 08'43	7°34'07
	481 Jul 28 j 20:24	0 \circ Ω		minimum elong	484 Jan 19 j 10:06	1° ≈ 22'45	7°32'41
max. Earth dist.	481 Aug 17 j 02:50	23° Ω 54'50	1.72390 AU		484 Jan 21 j 15:20	30°Ŗる	
				morning rise	484 Jan 23 j 13:18	28° る 50'29	
superior conj	481 Aug 20 j 23:44	28° Ω 43'59	1°24'19	direct	484 Feb 09 j 07:57	23° る 20'00	
minimum elong	481 Aug 20 j 22:09	28° £ 39′03	1°24'19	greatest brilliancy	484 Feb 18 j 07:10	24°る50'39	-4.8m
	481 Aug 22 j 00:09	0° m)			484 Feb 29 j 03:49	0° ≈	
	481 Sep 15 j 00:52	0∘ 亚		morning max el	484 Mar 29 j 18:15	24° ≈ 23′05	46°10'40
evening rise	481 Sep 27 j 21:48	16° ≏ 05'54			484 Apr 04 j 10:30	0° ℋ	
	481 Oct 09 j 00:26	0° M		desc. node	484 Apr 04 j 14:37	0° ℋ 10′22	
desc. node	481 Oct 18 j 19:40	12°MJ5'48			484 May 02 j 15:26	0 ° $\mathbf{\Upsilon}$	
	481 Nov 02 j 00:10	0° ∡ ¹			484 May 29 j 03:00	9° 8	
	481 Nov 26 j 01:06	0°ರ			484 Jun 23 j 18:40	Π $^{\circ}0$	
	481 Dec 20 j 05:01	0° ≈			484 Jul 18 j 20:41	0ංම	
	482 Jan 13 j 15:37	0° ∀		asc. node	484 Jul 26 j 17:51	9° © 32'47	
	482 Feb 07 j 15:46	0 ° $\mathbf{\Upsilon}$			484 Aug 12 j 11:32	$0^{\circ}\Omega$	
asc. node	482 Feb 08 j 22:39	1° Y 31'01			484 Sep 05 j 17:29	O° Mp	
	482 Mar 05 j 18:23	$_{0\circ}$ 8		morning set	484 Sep 23 j 04:55	21° m 49'36	
evening max el	482 Apr 02 j 19:30	29° 8 25'40	45°31'47		484 Sep 29 j 17:24	0∘ ত	
	482 Apr 03 j 09:43	$\Pi^{\circ}0$			484 Oct 23 j 14:16	0° M.	
greatest brilliancy	482 May 10 j 14:35	27° Ⅱ 17'30	-4.7m	max. Earth dist.	484 Nov 01 j 04:09	10° M 47′50	1.71108 AU
retrograde	482 May 21 j 11:16	29° Ⅱ 25'09					
desc. node	482 May 31 j 12:15	27° Ⅲ 26′22		superior conj	484 Nov 01 j 12:45	11°ML14'52	0°32'03
evening set	482 Jun 05 j 13:36	25° Ⅱ 03'34		minimum elong	484 Nov 01 j 20:30	11°MJ39'15	0°31'42
inferior conj	482 Jun 11 j 23:32	21° Ⅱ 14'02	-2°38'55	desc. node	484 Nov 15 j 07:34	28°M35'56	
minimum elong	482 Jun 11 j 17:54	21° Ⅱ 22'50	2°37'20		484 Nov 16 j 10:18	0° ∡ ¹	
min. Earth dist.	482 Jun 12 j 01:45	21° Ⅱ 10'34	0.28961 AU		484 Dec 10 j 06:55	0°ठ	
morning rise	482 Jun 17 j 21:55	17° Ⅱ 39'06		evening rise	484 Dec 13 j 03:24	3°₹35'01	
direct	482 Jul 03 j 15:20	12° II 56'06		C	485 Jan 03 j 05:13	0° ≈	
greatest brilliancy	482 Jul 14 j 06:15	14° Ⅱ 56'42	-4.7m		485 Jan 27 j 06:48	0°) €	
,	482 Aug 07 j 03:42	0ංම			485 Feb 20 j 14:13	$_0$ ° $\boldsymbol{\gamma}$	
morning max el	482 Aug 21 j 19:21	13°916'13	46°04'47	asc. node	485 Mar 08 j 10:41	19° Ƴ 19'38	
C	482 Sep 07 j 03:12	$0^{\circ}\Omega$			485 Mar 17 j 06:52	9° 8	
asc. node	482 Sep 21 j 15:33	15° Ω 59'03			485 Apr 11 j 13:32	0°II	
	482 Oct 03 j 20:29	0° m)			485 May 07 j 18:54	0ංම	
	482 Oct 29 j 00:34	0∘ ত			485 Jun 04 j 22:20	$0^{\circ}\Omega$	
	482 Nov 22 j 11:30	0° M ₊		evening max el	485 Jun 12 j 15:57		45°27'09
	482 Dec 16 j 15:07	0° ∡ ¹		desc. node	485 Jun 28 j 00:09	21° £ 11′23	
	483 Jan 09 j 16:35	0°ರ			485 Jul 10 j 06:11	0° m	
desc. node	483 Jan 11 j 05:07	1°る53'55		greatest brilliancy	485 Jul 21 j 15:32	5° m 30'36	-4.7m
	483 Feb 02 j 18:21	0° ≈		retrograde	485 Jul 31 j 08:44	7° m 12'19	
morning set	483 Feb 25 j 10:20	28° ≈ 10'27		evening set	485 Aug 18 j 06:01	1°m)15'12	
S	483 Feb 26 j 21:38	0° ∀		Ü	485 Aug 20 j 07:53	30°R Ω	
	483 Mar 23 j 03:04	$0^{\circ}\mathbf{\Upsilon}$		inferior conj	485 Aug 21 j 12:18	29° Ω 16′25	-8°43'35
	,			minimum elong	485 Aug 21 j 10:30	29° Ω 19'11	
superior conj	483 Apr 04 j 23:23	15° Ƴ 51'35	-1°02'15	min. Earth dist.	485 Aug 22 j 01:59	28° Ω 55'23	0.28196 AU
minimum elong	483 Apr 05 j 09:05	16° Ƴ 21'28	1°01'55	morning rise	485 Aug 24 j 14:50	27° Ω 22'55	
max. Earth dist.	483 Apr 07 j 07:47		1.73161 AU	direct	485 Sep 11 j 19:58	21° Ω 10'27	
	483 Apr 16 j 10:53	0°8		greatest brilliancy	485 Sep 22 j 20:20	23° Ω 25'37	-4.8m
asc. node	483 May 04 j 08:29	22° 8 00'25		· ·	485 Oct 04 j 21:12	0° m	
	483 May 10 j 20:49	0°II		asc. node	485 Oct 19 j 03:23	11° m) 22'35	
evening rise	483 May 12 j 06:24	1° Ⅱ 42'57		morning max el	485 Nov 01 j 09:22	24° m 06'12	46°46'23
C	483 Jun 04 j 08:29	0°©		Ü	485 Nov 07 j 02:09	0∘ <u>⊽</u>	
	483 Jun 28 j 21:59	0°N			485 Dec 04 j 00:29	0° M	
	483 Jul 23 j 14:21	0° m)			485 Dec 29 j 08:59	0° ∡ ¹	
	483 Aug 17 j 11:38	0∘ <u>⊽</u>			486 Jan 23 j 03:42	0°ರ	
desc. node	483 Aug 23 j 21:46	7° £ 41'11		desc. node	486 Feb 07 j 16:55	18° る 58'17	
	483 Sep 11 j 17:02	0°M			486 Feb 16 j 17:20	0° ≈	
	483 Oct 07 j 13:03	0° ∡ 7			486 Mar 13 j 05:23	0°) €	
	483 Nov 03 j 19:13	0°ප			486 Apr 06 j 17:14	$0^{\circ}\Upsilon$	
evening max el	483 Nov 08 j 22:25	5° る 17'59	47°23'08		486 May 01 j 05:12	0°8	
C -	483 Dec 06 j 18:47	0° ≈		morning set	486 May 06 j 16:21	6° 8 41'29	
asc. node	483 Dec 15 j 01:04	5°≈02'43		<i>5</i>	486 May 25 j 16:44	0°II	
greatest brilliancy	483 Dec 19 j 14:53	7°≈06'09	-4.9m	asc. node	486 May 31 j 20:17	7° Ⅱ 32'32	
retrograde	483 Dec 29 j 23:30	9° ≈ 10′23		max. Earth dist.	486 Jun 10 j 10:10	19° Ⅱ 18'16	1.73589 AU
evening set	484 Jan 15 j 07:15	3°≈53'30			. j		
2	<i>J</i> · · · · ·						

:	496 1 12:02.14	210 1 24/24	0927121		400 I 04 : 12-21	00.7	
superior conj	486 Jun 12 j 03:14	21° II 24'24			489 Jan 04 j 12:31	0°×7	46051120
minimum elong	486 Jun 11 j 22:08	21° I 108'46	0°26'07	morning max el	489 Jan 12 j 22:49	8° ҂ 15'32	46°51'38
	486 Jun 19 j 02:55	0°©			489 Feb 02 j 10:03	0°⋜	
	486 Jul 13 j 11:10	0 \circ Ω			489 Feb 28 j 20:26	0° ≈	
evening rise	486 Jul 17 j 21:00	5° Ω 26'41		desc. node	489 Mar 07 j 04:56	7°≈23'16	
	486 Aug 06 j 17:58	0° m			489 Mar 26 j 10:25	0° ∀	
	486 Aug 31 j 00:33	0∘ ⊽			489 Apr 20 j 15:05	0°Υ	
desc. node	486 Sep 20 j 09:50	25° ≏ 09'02			489 May 15 j 14:22	0°B	
	486 Sep 24 j 08:20	0° M ₊			489 Jun 09 j 09:06	$\Pi^{\circ}0$	
	486 Oct 18 j 18:41	0° ∡ ¹		asc. node	489 Jun 28 j 08:04	23° Ⅱ 07′20	
	486 Nov 12 j 09:55	0° ප			489 Jul 03 j 22:49	0 \circ \odot	
	486 Dec 07 j 12:02	0° ≈		morning set	489 Jul 13 j 02:38	11° © 15'13	
	487 Jan 02 j 16:53	0° ∀			489 Jul 28 j 07:13	$0^{\circ}\Omega$	
asc. node	487 Jan 11 j 12:50	9°) 33′19		max. Earth dist.	489 Aug 14 j 20:50	21° Ω 47'44	1.72448 AU
evening max el	487 Jan 19 j 14:15	17°) 54′13	46°41'23				
	487 Feb 01 j 05:56	0 ° Υ		superior conj	489 Aug 18 j 16:27	26° Ω 32'46	1°23'57
greatest brilliancy	487 Feb 28 j 02:09	18° Ƴ 16′13	-4.8m	minimum elong	489 Aug 18 j 14:09	26° Ω 25'37	1°23'57
retrograde	487 Mar 10 j 19:22	20° Y ′24′04			489 Aug 21 j 11:01	0° m	
evening set	487 Mar 27 j 16:29	14° Y 50'30			489 Sep 14 j 11:54	0∘ ত	
inferior conj	487 Apr 01 j 01:54	12° Y 06'32	6°37'25	evening rise	489 Sep 25 j 11:13	13° ≙ 43'07	
minimum elong	487 Apr 01 j 11:22	11° Y 51'33	6°35'39		489 Oct 08 j 11:39	0°M	
min. Earth dist.	487 Apr 01 j 01:31	12° Y '07'08	0.28726 AU	desc. node	489 Oct 17 j 21:46	11° M 47'04	
morning rise	487 Apr 06 j 06:36	8° Y 55'12			489 Nov 01 j 11:35	0° ∡ ¹	
direct	487 Apr 22 j 11:13	3° Y 52'40			489 Nov 25 j 12:44	0°ठ	
greatest brilliancy	487 May 02 j 05:24	5° Ƴ 37'07	-4.7m		489 Dec 19 j 16:57	0° ≈	
desc. node	487 May 03 j 02:22	5° Y ′55'43			490 Jan 13 j 04:05	0°) €	
acse. noue	487 Jun 06 j 06:55	0°8			490 Feb 07 j 05:13	$0^{\circ}\Upsilon$	
morning max el	487 Jun 10 j 06:31	3° 8 44'23	45°44'30	asc. node	490 Feb 08 j 00:47	0° Υ 57'33	
morning max or	487 Jul 05 j 21:59	0°II	15 1150	use. Houe	490 Mar 05 j 10:07	0° 8	
	487 Aug 01 j 17:32	0°©		evening max el	490 Mar 31 j 10:31	27° 8 12'36	45°33'18
asc. node	487 Aug 24 j 05:45	26° © 24'49		evening max er	490 Apr 03 j 08:25	0°Ⅱ	43 33 16
asc. node	487 Aug 27 j 05:45	0°Ω		greatest brilliancy	490 May 08 j 06:18	25° I 108'17	-4.7m
	487 Sep 20 j 22:44	0° m)		retrograde	490 May 19 j 03:54	27° I 17'09	-4 . / III
		0∘ ⊽ مال		desc. node	490 May 30 j 14:16	24° II 43'07	
	487 Oct 15 j 03:46	0 == 0° M ₊		evening set	490 Jun 03 j 05:33	24 H 4307 22° H 55'34	
	487 Nov 08 j 02:31	0 IIL 0° ∡ 7		inferior conj	490 Jun 09 j 16:01	19° Ⅱ 05'27	2010/50
	487 Dec 01 j 23:00			-		19° Д 0327	
morning set	487 Dec 08 j 05:00	7° 🗷 51'50		minimum elong	490 Jun 09 j 11:00		
desc. node	487 Dec 13 j 19:17	14° ₹ 54'03		min. Earth dist.	490 Jun 09 j 18:20	19° Ⅱ 01'50	0.28970 AU
	487 Dec 25 j 19:34	ව°0 0°3		morning rise	490 Jun 15 j 16:12	15° Ⅱ 28'12	
	488 Jan 18 j 17:28	0° ≈		direct	490 Jul 01 j 07:34	10° Ⅱ 47'10	
				greatest brilliancy	490 Jul 11 j 22:59	12° Ⅱ 48′21	-4.7m
superior conj	488 Jan 19 j 02:48	0° ≈ 29'14			490 Aug 07 j 09:33	0ංම	
minimum elong	488 Jan 18 j 16:09	29° る 55'54		morning max el	490 Aug 19 j 11:23	11°504'44	46°03'29
max. Earth dist.	488 Jan 23 j 02:37	5°≈29'05	1.71582 AU		490 Sep 06 j 20:40	0 \circ Ω	
	488 Feb 11 j 17:41	0° ∀		asc. node	490 Sep 20 j 17:46	15° Ω 21'40	
evening rise	488 Feb 28 j 11:02	20°) 47′30			490 Oct 03 j 10:46	0°Щ	
	488 Mar 06 j 21:24	0° Ƴ			490 Oct 28 j 13:31	0∘ ⊽	
	488 Mar 31 j 05:49	0°8			490 Nov 21 j 23:46	0°M₊	
asc. node	488 Apr 04 j 22:41	5° 8 45'46			490 Dec 16 j 02:58	0° ∡	
	488 Apr 24 j 19:57	$\Pi^{\circ}0$			491 Jan 09 j 04:08	0°ರ	
	488 May 19 j 17:02	0 \circ		desc. node	491 Jan 10 j 07:06	1° る 24'08	
	488 Jun 13 j 23:38	$0 ^{\circ} \Omega$			491 Feb 02 j 05:40	0° ≈	
	488 Jul 09 j 21:32	0° m y		morning set	491 Feb 22 j 23:28	25° ≈ 47'42	
desc. node	488 Jul 25 j 11:53	17° m 28'52			491 Feb 26 j 08:45	0° ℋ	
	488 Aug 06 j 00:45	0∘ ত			491 Mar 22 j 14:02	0 ° Υ	
evening max el	488 Aug 24 j 15:24	19° ഫ 03'02	46°31'03				
	488 Sep 05 j 10:34	0°M₊		superior conj	491 Apr 02 j 15:36	13° Ƴ 39'59	-1°04'30
greatest brilliancy	488 Oct 04 j 04:25	18°ML47'38	-4.9m	minimum elong	491 Apr 03 j 01:17	14° Ƴ 09'51	1°04'11
retrograde	488 Oct 13 j 09:28	20°M22'32		max. Earth dist.	491 Apr 05 j 01:51	16° Ƴ 39'34	1.73119 AU
evening set	488 Oct 28 j 08:51	16°ML01'35			491 Apr 15 j 21:45	9° 8	
inferior conj	488 Nov 02 j 23:28	12°M44'34	-3°12'46	asc. node	491 May 03 j 10:31	21° 8 33'13	
minimum elong	488 Nov 03 j 06:27	12°M33'57		evening rise	491 May 10 j 00:45	29° 8 38'37	
min. Earth dist.	488 Nov 03 j 08:48	12°M30'22	0.26490 AU	-	491 May 10 j 07:43	$\Pi^{\circ}0$	
morning rise	488 Nov 09 j 03:38	9° M 08'41			491 Jun 03 j 19:33	0°ಅ	
asc. node	488 Nov 15 j 15:09	6°M20'32			491 Jun 28 j 09:22	$0^{\circ}\Omega$	
direct	488 Nov 23 j 09:46	5° M ₊06'02			491 Jul 23 j 02:15	0° m)	
greatest brilliancy	488 Dec 03 j 22:48	7°ML12'13	-4.9m		491 Aug 17 j 00:20	0∘ <u>⊽</u>	
,	,				<i>S</i> ,		

desc. node	491 Aug 22 j 23:56	7° ഫ 08'57		desc. node	494 Feb 06 j 19:04	18° පි 27'10	
	491 Sep 11 j 06:59	0° M .			494 Feb 16 j 05:29	0° ≈	
	491 Oct 07 j 05:16	0° ∡ ¹			494 Mar 12 j 17:04	0°) €	
	491 Nov 03 j 16:49	0°ಕ			494 Apr 06 j 04:34	0 $^{\circ}$ $\mathbf{\Upsilon}$	
evening max el	491 Nov 06 j 13:15	2°る55'20	47°22'55		494 Apr 30 j 16:17	9° 8	
<i>3</i>	491 Dec 08 j 00:57	0° ≈		morning set	494 May 04 j 10:19	4° 8 35'44	
asc. node	491 Dec 14 j 03:06	3° ≈ 21'00			494 May 25 j 03:40	0°II	
greatest brilliancy	491 Dec 17 j 04:35	4°≈39'37	-4.9m	asc. node	494 May 30 j 22:19	7° I 105'20	
retrograde	491 Dec 27 j 14:00	6°≈44'32	4.7111	max. Earth dist.	494 Jun 08 j 07:22		1.73598 AU
evening set	492 Jan 12 j 17:10	1°≈33'20		max. Lartii dist.	4)4 Juli 00 j 07.22	17 1122 30	1.73376 AC
evening set	492 Jan 15 j 07:21	1 ≈33 20 30°Rる		superior conj	404 Jun 00 : 21:55	19° Ⅱ 20'57	0022122
i. Danda diad			0.27105 ATT	1 3	494 Jun 09 j 21:55	19 II 2037 19° II 06'56	
min. Earth dist.	492 Jan 16 j 08:58	29° ろ 20'23	0.27195 AU	minimum elong	494 Jun 09 j 17:21		0-23-11
inferior conj	492 Jan 17 j 08:35	28°る43'39	7°22'21		494 Jun 18 j 13:48	0°©	
minimum elong	492 Jan 16 j 23:13		7°20'45		494 Jul 12 j 22:08	$0^{\circ}\Omega$	
morning rise	492 Jan 21 j 05:40	26° る 21'37		evening rise	494 Jul 15 j 15:48	3° Ω 22'37	
direct	492 Feb 06 j 21:18	20°号55'55			494 Aug 06 j 05:08	0° m	
greatest brilliancy	492 Feb 15 j 19:56	22° る 26'43	-4.8m		494 Aug 30 j 12:02	0∘ ⊽	
	492 Mar 01 j 09:39	0° ≈		desc. node	494 Sep 19 j 11:54	24° ≏ 38'52	
morning max el	492 Mar 27 j 09:08	22° ≈ 06′08	46°12'17		494 Sep 23 j 20:16	0° M	
desc. node	492 Apr 03 j 16:40	29° ≈ 22'42			494 Oct 18 j 07:13	0° ∡ ¹	
	492 Apr 04 j 07:21	0°) €			494 Nov 11 j 23:16	0°₹	
	492 May 02 j 06:54	$0^{\circ}\mathbf{\Upsilon}$			494 Dec 07 j 02:46	0° ≈	
	492 May 28 j 16:17	0°8			495 Jan 02 j 10:44	0° ∀	
	492 Jun 23 j 06:51	0°II		asc. node	495 Jan 10 j 14:58	8°) 46′52	
	492 Jul 18 j 08:18	0°9		evening max el	495 Jan 17 j 04:50	15°) (34′24	46°43'49
asc. node	492 Jul 25 j 19:57	9° 5 04'16		evening max or	495 Feb 01 j 11:20	0° Υ	10 13 19
ase. Houe	492 Aug 11 j 22:51	0° Ω		greatest brilliancy	495 Feb 25 j 19:31	16° Ƴ 04'03	-4.8m
	492 Sep 05 j 04:40	0° m)		-	495 Mar 08 j 11:12	18° Y 10'43	-4.0111
				retrograde		18 γ 10 43 12° γ 33'26	
morning set	492 Sep 20 j 19:26	19° m 29'55		evening set	495 Mar 25 j 11:20		6050115
	492 Sep 29 j 04:33	0∘ 亚		inferior conj	495 Mar 29 j 17:56	9° Υ 53'30	6°50'15
	492 Oct 23 j 01:26	0° M ₊		minimum elong	495 Mar 30 j 03:14	9° Ƴ 38'43	6°48'36
				min. Earth dist.	495 Mar 29 j 17:10	9° Y 54'42	0.28696 AU
superior conj	492 Oct 29 j 23:45	8° M .43'13		morning rise	495 Apr 03 j 19:28	6° Ƴ 46'24	
minimum elong	492 Oct 30 j 08:08	9° ™ 09'37	0°35'14	direct	495 Apr 20 j 02:36	1° Y 40′16	
max. Earth dist.	492 Oct 29 j 12:38	8°M08'14	1.71128 AU	greatest brilliancy	495 Apr 29 j 20:01	3° Y 23'46	-4.7m
desc. node	492 Nov 14 j 09:31	28°MJ06'44		desc. node	495 May 02 j 04:21	4° Ƴ 16'34	
	492 Nov 15 j 21:32	0° ∡ ¹			495 Jun 06 j 06:55	9° 8	
	492 Dec 09 j 18:14	0°ರ		morning max el	495 Jun 07 j 21:05	1° 8 30'25	45°44'46
evening rise	492 Dec 10 j 13:04	0° る 59'06			495 Jul 05 j 14:10	$\Pi^{\circ}0$	
	493 Jan 02 j 16:38	0° ≈			495 Aug 01 j 07:06	0 \circ \odot	
	493 Jan 26 j 18:21	0° ∀		asc. node	495 Aug 23 j 07:56	25°954'08	
	493 Feb 20 j 01:58	0° Y			495 Aug 26 j 18:07	$0^{\circ}\Omega$	
asc. node	493 Mar 07 j 12:50	18° Ƴ 49'41			495 Sep 20 j 10:31	0° m)	
	493 Mar 16 j 19:05	0°8			495 Oct 14 j 15:17	0∘ <mark>ಹ</mark>	
	493 Apr 11 j 02:41	0°II			495 Nov 07 j 13:55	0° M	
	493 May 07 j 10:05	0°©			495 Dec 01 j 10:20	0° ∡ 7	
	493 Jun 04 j 18:55	0°Ω		morning set	495 Dec 05 j 14:47	5° ⊀ 16'02	
evening max el	493 Jun 10 j 07:27	5° Ω 22'26	15025151	desc. node	495 Dec 12 j 21:21	14° x 25'04	
Č	-		45 25 54	desc. node	-		
desc. node	493 Jun 27 j 02:09	20° Ω 07'20			495 Dec 25 j 06:50	0°₹	
1 - 1111	493 Jul 11 j 18:48	0° Mp	4.7		1061 16:12.07	270756114	1010100
greatest brilliancy	493 Jul 19 j 04:28	3° Mp 14'10	-4./m	superior conj	496 Jan 16 j 13:07	27° る 56'14	
retrograde	493 Jul 28 j 22:50	4° m/56'30		minimum elong	496 Jan 16 j 02:02	27° る 21'30	1°10'02
	493 Aug 14 j 02:44	30°R Ω			496 Jan 18 j 04:39	0° ≈	
evening set	493 Aug 15 j 18:40	29° Ω 02'10		max. Earth dist.	496 Jan 20 j 10:40	2° ≈ 49'07	1.71532 AU
inferior conj	493 Aug 19 j 03:01	27° Ω 00'00	-8°40'53		496 Feb 11 j 04:49	0° ℋ	
minimum elong	493 Aug 19 j 00:24	27° Ω 04'02	8°40'47	evening rise	496 Feb 25 j 23:37	18°) €23'03	
min. Earth dist.	493 Aug 19 j 15:48	26° Ω 40′18	0.28248 AU		496 Mar 06 j 08:33	0 ° Υ	
morning rise	493 Aug 22 j 06:00	25° Ω 05'34			496 Mar 30 j 17:05	9° 8	
direct	493 Sep 09 j 11:36	18° Ω 53'31		asc. node	496 Apr 04 j 00:41	5° 8 17'19	
			-4 8m		496 Apr 24 j 07:28	$\Pi^{\circ}0$	
greatest brilliancy	493 Sep 20 j 10:47	21° Ω 07'08					
greatest brilliancy		21° {\} 07'08 0° m)			496 May 19 j 05:03	0°ಅ	
greatest brilliancy asc. node	493 Sep 20 j 10:47 493 Oct 05 j 18:11	0° m				0ංම	
asc. node	493 Sep 20 j 10:47 493 Oct 05 j 18:11 493 Oct 18 j 05:21	0° Mp 10° Mp 21'45			496 Jun 13 j 12:32	$0 {\circ} {\mathfrak O}$	
	493 Sep 20 j 10:47 493 Oct 05 j 18:11 493 Oct 18 j 05:21 493 Oct 29 j 23:24	0° My 10° My 21'45 21° My 43'17	46°45'08	desc. node	496 Jun 13 j 12:32 496 Jul 09 j 12:10	0° ™ 0° © 0°©	
asc. node	493 Sep 20 j 10:47 493 Oct 05 j 18:11 493 Oct 18 j 05:21 493 Oct 29 j 23:24 493 Nov 06 j 22:19	0° m 10° m 21'45 21° m 43'17 0° Ω		desc. node	496 Jun 13 j 12:32 496 Jul 09 j 12:10 496 Jul 24 j 14:04	0°© 0°Ω 0°™ 16°™49'48	
asc. node	493 Sep 20 j 10:47 493 Oct 05 j 18:11 493 Oct 18 j 05:21 493 Oct 29 j 23:24 493 Nov 06 j 22:19 493 Dec 03 j 16:07	0° ሙ 10° ሙ 21'45 21°ሙ43'17 0° 으 0° ጤ			496 Jun 13 j 12:32 496 Jul 09 j 12:10 496 Jul 24 j 14:04 496 Aug 05 j 19:12	0°© 0°Ω 0°™ 16°™49'48 0°Ω	46°28'24
asc. node	493 Sep 20 j 10:47 493 Oct 05 j 18:11 493 Oct 18 j 05:21 493 Oct 29 j 23:24 493 Nov 06 j 22:19	0° m 10° m 21'45 21° m 43'17 0° Ω		desc. node evening max el	496 Jun 13 j 12:32 496 Jul 09 j 12:10 496 Jul 24 j 14:04	0°© 0°Ω 0°™ 16°™49'48	46°28'24

	1060 . 01:17.00	1.60% 20111	4.0		10037 21:16.12	1100055150	10000
greatest brilliancy	496 Oct 01 j 17:33	16°M20'41	-4.9m	minimum elong	499 Mar 31 j 16:43	11° Υ 55'58	
retrograde	496 Oct 10 j 21:03	17°M54'35		max. Earth dist.	499 Apr 02 j 20:15	14° Ƴ 34'57	1.73077 AU
evening set	496 Oct 25 j 23:28	13°M29'51	2025110		499 Apr 15 j 08:33	0°8	
inferior conj	496 Oct 31 j 11:43	10°M16'28		asc. node	499 May 02 j 12:31	21° 8 06'14	
minimum elong	496 Oct 31 j 19:24	10°M04'48	3°33'00	evening rise	499 May 07 j 18:28	27° 8 32'40	
min. Earth dist.	496 Oct 31 j 22:42	9°M59'46	0.26530 AU		499 May 09 j 18:31	0° Ⅱ	
morning rise	496 Nov 06 j 14:49	6°M42'00			499 Jun 03 j 06:31	0° ©	
asc. node	496 Nov 14 j 17:12	3°M24'32			499 Jun 27 j 20:40	0° Ω	
direct	496 Nov 20 j 22:03	2°M36'52	4.0		499 Jul 22 j 14:04	0° ™	
greatest brilliancy	496 Dec 01 j 13:37	4° ጤ 45'25 0° <i>ጃ</i>	-4.9111	desc. node	499 Aug 16 j 12:56	0° ჲ 6° ჲ 36'44	
morning max el	497 Jan 04 j 15:11 497 Jan 10 j 12:01	0 x · 5° x 748'45	46°52'26	desc. node	499 Aug 22 j 01:58 499 Sep 10 j 20:51	0°M	
morning max er	497 Feb 02 j 03:41	0°る	40 32 20		499 Oct 06 j 21:28	0° ⊼ 1	
	497 Feb 28 j 11:00	0°≈			499 Nov 03 j 14:46	0° ਠ	
desc. node	497 Mar 06 j 07:00	6°≈48'03		evening max el	499 Nov 04 j 04:40	0° る 35'20	47°22'41
dese. Hode	497 Mar 25 j 23:26	0° ₩		evening max er	499 Dec 09 j 19:46	0°≈	47 22 41
	497 Apr 20 j 03:12	0° Υ		asc. node	499 Dec 13 j 05:10	1°≈36'50	
	497 May 15 j 01:54	0°8		greatest brilliancy	499 Dec 14 j 18:13	2°≈14'21	-4.9m
	497 Jun 08 j 20:16	0°II		retrograde	499 Dec 25 j 04:33	4°≈19'41	1.7111
asc. node	497 Jun 27 j 10:13	22° I I40'16		renograde	500 Jan 08 j 18:56	30°R₹	
ase. node	497 Jul 03 j 09:46	0°9		evening set	500 Jan 10 j 03:12	29°る14'22	
morning set	497 Jul 10 j 20:24	9° 5 08'34		min. Earth dist.	500 Jan 13 j 21:57	26° ප 57'08	0.27132 AU
	497 Jul 27 j 18:04	0°N		inferior conj	500 Jan 14 j 22:06	26° ප 19'38	7°09'46
max. Earth dist.	497 Aug 12 j 16:06	19° Ω 44'39	1.72499 AU	minimum elong	500 Jan 14 j 12:24	26° る 34'42	7°08'01
	e j			morning rise	500 Jan 18 j 22:06	23° る 53'38	
superior conj	497 Aug 16 j 09:28	24° Ω 22'31	1°23'29	direct	500 Feb 04 j 10:56	18° る 33'08	
minimum elong	497 Aug 16 j 06:28	24° Ω 13'12		greatest brilliancy	500 Feb 13 j 08:32	20° る 03'29	-4.8m
Č	497 Aug 20 j 21:53	o° mp		,	500 Mar 02 j 06:50	0° ≈	
	497 Sep 13 j 22:52	0∘ ⊽		morning max el	500 Mar 24 j 23:42	19° ≈ 48'57	46°13'35
evening rise	497 Sep 23 j 01:10	11° ≏ 22'14		desc. node	500 Apr 02 j 18:40	28° ≈ 36'16	
-	497 Oct 07 j 22:47	0° M .			500 Apr 04 j 03:16	0° ℋ	
desc. node	497 Oct 16 j 23:45	11° M L18'13			500 May 01 j 21:57	$0^{\circ}\mathbf{\Upsilon}$	
	497 Oct 31 j 22:56	0° ∡ ¹			500 May 28 j 05:18	$_{0\circ}$ 8	
	497 Nov 25 j 00:21	0°₹			500 Jun 22 j 18:48	$\Pi^{\circ}0$	
	497 Dec 19 j 04:57	0° ≈			500 Jul 17 j 19:39	0 \circ \odot	
	498 Jan 12 j 16:39	0° ∀		asc. node	500 Jul 24 j 22:04	8° © 36'36	
	498 Feb 06 j 18:53	0 ° $\mathbf{\Upsilon}$			500 Aug 11 j 09:53	$0 {\circ} \Omega$	
asc. node	498 Feb 07 j 02:54	0° Y 23'31			500 Sep 04 j 15:34	O° My	
	498 Mar 05 j 02:12	$0^{\circ}S$		morning set	500 Sep 18 j 09:52	17° m 10'56	
evening max el	498 Mar 29 j 02:02	25° 8 00'28	45°35'03		500 Sep 28 j 15:26	0∘ ಹ	
	498 Apr 03 j 08:15	Π $^{\circ}0$			500 Oct 22 j 12:19	0°M₊	
greatest brilliancy	498 May 05 j 21:43	22° II 58'26	-4.7m				
retrograde	498 May 16 j 20:47	25° Ⅱ 08'33		superior conj	500 Oct 27 j 11:05	6°M₁3′32	
desc. node	498 May 29 j 16:20	21° I 55'20		minimum elong	500 Oct 27 j 20:02	6°M41'42	0°38'40
evening set	498 May 31 j 21:31	20° Ⅱ 46'55		max. Earth dist.	500 Oct 26 j 18:00	5°M19'50	1.71145 AU
inferior conj	498 Jun 07 j 08:17	16° Ⅱ 56'15		desc. node	500 Nov 13 j 11:39	27°M39'03	
minimum elong	498 Jun 07 j 03:56	17° Ⅱ 03'03		avaniei	500 Nov 15 j 08:28	0°⊀ ⁷ 28°∗ 7 25'02	
min. Earth dist.	498 Jun 07 j 10:27		0.28975 AU	evening rise	500 Dec 07 j 22:58	28°⊀25'02 0°₹	
morning rise	498 Jun 13 j 10:10 498 Jun 29 j 00:03	13° Ⅱ 16'57 8° Ⅱ 37'46			500 Dec 09 j 05:13 501 Jan 02 j 03:40	0°る 0°≈	
direct greatest brilliancy	498 Jul 29 j 00:03 498 Jul 09 j 14:55	8°Д3/'46 10°Д38'55	-4.7m		501 Jan 02 j 03:40 501 Jan 26 j 05:29	0° ₩	
greatest Diffilaticy	498 Jul 09 j 14:55 498 Aug 07 j 13:29	0ல் மூல்	-4. /111		501 Jan 26 J 05:29 501 Feb 19 j 13:22	0° Υ	
morning max el	498 Aug 17 j 03:57	8°954'57	46°02'19	asc. node	501 Mar 06 j 14:47	18° Y 20′09	
morning max ci	498 Sep 06 j 13:41	0° Ω	40 02 17	asc. node	501 Mar 16 j 07:00	0° 8	
asc. node	498 Sep 19 j 19:40	14° Ω 44'09			501 Apr 10 j 15:38	0°II	
ase. Houe	498 Oct 03 j 00:45	0° m			501 May 07 j 01:13	0 . ಹ	
	498 Oct 28 j 02:11	0∘ ʊ			501 Jun 04 j 15:59	$0 {\circ} {\mathfrak O}$	
	498 Nov 21 j 11:46	0° ™		evening max el	501 Jun 07 j 22:08	3° Ω 08'41	45°24'44
	498 Dec 15 j 14:34	0° ∡ 7		desc. node	501 Jun 26 j 04:20	19° Ω 02'38	
	499 Jan 08 j 15:28	° ਨ ਹ			501 Jul 14 j 03:00	0°m	
desc. node	499 Jan 09 j 09:17	0° る 55'34		greatest brilliancy	501 Jul 16 j 17:57	0° m/ 58'55	-4.7m
	499 Feb 01 j 16:49	0° ≈		retrograde	501 Jul 26 j 12:30	2° m/41'25	
morning set	499 Feb 20 j 12:03	23° ≈ 23'25		J	501 Aug 07 j 07:13	30°R Ω	
J	499 Feb 25 j 19:45	0° ₩		evening set	501 Aug 13 j 06:53	26° £ 50′26	
	499 Mar 22 j 00:54	0° Υ		inferior conj	501 Aug 16 j 17:40	24° Ω 44'27	-8°37'18
				minimum elong	501 Aug 16 j 14:15	24° Ω 49'45	
superior conj	499 Mar 31 j 07:06	11° Y 26'17	-1°06'41	min. Earth dist.	501 Aug 17 j 05:54	24° Ω 25'34	0.28297 AU

	501 A 10:21 27	220 (240)22			504 F 1 22 : 12 17	1501/50140	
morning rise	501 Aug 19 j 21:27	22° Ω 48'32		evening rise	504 Feb 23 j 12:17	15°) 59'49	
direct	501 Sep 07 j 02:33	16° Ω 37'17			504 Mar 05 j 19:23	0°Υ	
greatest brilliancy	501 Sep 18 j 01:37	18° Ω 49'57	-4.8m		504 Mar 30 j 03:59	0°8	
	501 Oct 06 j 09:25	0° m p		asc. node	504 Apr 03 j 02:46	4° 8 50'13	
asc. node	501 Oct 17 j 07:28	9° m ,23′28			504 Apr 23 j 18:38	Π $^{\circ}0$	
morning max el	501 Oct 27 j 12:42	19° m) 19'27	46°43'58		504 May 18 j 16:44	$0 \circ \mathfrak{S}$	
	501 Nov 06 j 17:33	0∘ 亚			504 Jun 13 j 01:13	$0^{\circ}\Omega$	
	501 Dec 03 j 07:11	0° M .			504 Jul 09 j 02:43	0° m)	
	501 Dec 28 j 12:04	0° ∡ ¹		desc. node	504 Jul 23 j 16:05	16° m) 10'26	
	502 Jan 22 j 04:48	0°ප			504 Aug 05 j 13:56	0∘ ⊽	
desc. node	502 Feb 05 j 21:08	0 0 17° る 57'10		evening max el	504 Aug 19 j 15:31	0 – 14° ⊆ 13'18	46°25'43
desc. node	•			evening max er		0°M	40 23 43
	502 Feb 15 j 17:09	0° ≈		1 911	504 Sep 06 j 05:08		4.0
	502 Mar 12 j 04:15	0° ∺		greatest brilliancy	504 Sep 29 j 06:04	13°M53'33	-4.9m
	502 Apr 05 j 15:26	0° Y		retrograde	504 Oct 08 j 09:06	15° M ₊27'09	
	502 Apr 30 j 02:57	9° 8		evening set	504 Oct 23 j 14:08	10°M58'16	
morning set	502 May 02 j 04:11	2° 8 30'47		inferior conj	504 Oct 28 j 23:51	7° M 48′38	-3°57'16
	502 May 24 j 14:15	Π \circ 0		minimum elong	504 Oct 29 j 08:10	7° M 36'01	3°54'51
asc. node	502 May 30 j 00:28	6° Ⅱ 39'32		min. Earth dist.	504 Oct 29 j 12:09	7° M 29'59	0.26572 AU
max. Earth dist.	502 Jun 06 j 02:54	15° Ⅱ 22'41	1.73612 AU	morning rise	504 Nov 04 i 01:41	4° M L16'10	
				asc. node	504 Nov 13 j 19:20	0°M34'52	
superior conj	502 Jun 07 j 16:26	17° I 17'56	0°20'22	direct	504 Nov 18 j 10:43	0°ML08'04	
minimum elong	502 Jun 07 j 10:25	17° I 17'30	0°20'11	greatest brilliancy	504 Nov 29 j 03:47	2°ML18'27	-4.9m
minimum elong	3		0 2011	greatest brilliancy	2		-4.9111
	502 Jun 18 j 00:23	0°©			505 Jan 04 j 16:13	0° ∡ ¹	
	502 Jul 12 j 08:48	0 \circ Ω		morning max el	505 Jan 08 j 02:10	3° ∡ ¹25'00	46°53'14
evening rise	502 Jul 13 j 10:22	1° Ω 18'49			505 Feb 01 j 20:43	0°ಕ	
	502 Aug 05 j 16:00	0° m p			505 Feb 28 j 01:10	0° ≈	
	502 Aug 29 j 23:14	0∘ ⊽		desc. node	505 Mar 05 j 08:56	6°≈13'26	
desc. node	502 Sep 18 j 13:52	24° ₽ 09'20			505 Mar 25 j 12:08	0° ∀	
	502 Sep 23 j 07:56	0° M .			505 Apr 19 j 15:02	$0^{\circ}\mathbf{\Upsilon}$	
	502 Oct 17 j 19:28	0° ≯ 7			505 May 14 j 13:09	0° ႘	
	502 Nov 11 j 12:21	0°₹			505 Jun 08 j 07:08	0°II	
	502 Dec 06 j 17:17	0° ≈		asc. node	505 Jun 26 j 12:17	22° Ⅱ 13'49	
	-	0° ∺		asc. node	-	0°9	
	503 Jan 02 j 04:31				505 Jul 02 j 20:27		
asc. node	503 Jan 09 j 17:07	8° ₩ 01'07		morning set	505 Jul 08 j 14:26	7° 5 03'39	
evening max el	503 Jan 14 j 18:50	13° ¥ 14'16	46°46'24		505 Jul 27 j 04:44	$0^{\circ}\Omega$	
	503 Feb 01 j 18:13	0 ° Υ		max. Earth dist.	505 Aug 10 j 10:56	17° Ω 40'44	1.72555 AU
greatest brilliancy	503 Feb 23 j 12:56	13° Ƴ 53'33	-4.8m				
retrograde	503 Mar 06 j 03:10	15° Ƴ 59'27		superior conj	505 Aug 14 j 02:34	22° Ω 13′05	1°22'52
evening set	503 Mar 23 j 06:18	10° Ƴ 18'15		minimum elong	505 Aug 13 j 22:56	22° Ω 01'45	1°22'50
inferior conj	503 Mar 27 j 10:11	7° Ƴ 42'28	7°02'19	•	505 Aug 20 j 08:38	0° m)	
minimum elong	-				303 Aug 20 00.30		
•	503 Mar 27 i 19:16	7° 'Y' 28'01	7°00'48				
	503 Mar 27 j 19:16 503 Mar 27 j 09:03	7° Y 28'01 7° Y 44'16	7°00'48	evening rise	505 Sep 13 j 09:46	0∘ ⊽	
min. Earth dist.	503 Mar 27 j 09:03	7° Ƴ 44'16	7°00'48 0.28666 AU	evening rise	505 Sep 13 j 09:46 505 Sep 20 j 15:05	0° ರಾ 01'29	
morning rise	503 Mar 27 j 09:03 503 Apr 01 j 08:30	7° Ƴ 44'16 4° Ƴ 39'49		J	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52	0° 亞 9° 亞 01'29 0° ጤ	
morning rise	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40	7° Ƴ 44'16 4° Ƴ 39'49 30° ₹ ₩		evening rise desc. node	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53	0° 亞 9° 亞 01'29 0° ጤ 10° ጤ 49'57	
	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45	7° Y 44'16 4° Y 39'49 30° R X 29° X 29'42		J	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13	0° 쇼 9° 쇼 01'29 0°ጤ 10°ጤ49'57	
morning rise	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03	7° Υ 44'16 4° Υ 39'49 30° ₹Η 29° Η 29'42 0° Υ	0.28666 AU	J	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55	0°요 9°요01'29 0°M 10°M49'57 0°♂ 0°♂	
morning rise direct greatest brilliancy	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09	7°Υ44'16 4°Υ39'49 30°R X 29° X 29'42 0°Υ 1°Υ12'49		J	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53	0° Ω 9° Ω01'29 0° M 10° M49'57 0° Ґ 0° ద 0° ≪	
morning rise direct greatest brilliancy desc. node	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28	7°Υ44'16 4°Υ39'49 30°R X 29° X 29'42 0°Υ 1°Υ12'49 2°Υ42'50	0.28666 AU -4.7m	J	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12	0° Ω 9° Ω01'29 0° M 10° M49'57 0° ౘ 0° ౘ 0° ‰ 0° 升	
morning rise direct greatest brilliancy	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09	7°Υ44'16 4°Υ39'49 30°R X 29° X 29'42 0°Υ 1°Υ12'49	0.28666 AU	J	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53	0° Ω 9° Ω01'29 0° M 10° M49'57 0° ౘ 0° ౘ 0° ‰ 0° ¥ 29° ¥49'09	
morning rise direct greatest brilliancy desc. node	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28	7°Υ44'16 4°Υ39'49 30°R X 29° X 29'42 0°Υ 1°Υ12'49 2°Υ42'50	0.28666 AU -4.7m	desc. node	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12	0° Ω 9° Ω01'29 0° M 10° M49'57 0° ౘ 0° ౘ 0° ‰ 0° 升	
morning rise direct greatest brilliancy desc. node	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28 503 Jun 05 j 11:57	7°Υ44'16 4°Υ39'49 30°R X 29° X 29'42 0°Υ 1°Υ12'49 2°Υ42'50 29°Υ18'25	0.28666 AU -4.7m	desc. node	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12 506 Feb 06 j 04:51	0° Ω 9° Ω01'29 0° M 10° M49'57 0° ౘ 0° ౘ 0° ‰ 0° ¥ 29° ¥49'09	
morning rise direct greatest brilliancy desc. node	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28 503 Jun 05 j 11:57 503 Jun 06 j 05:21 503 Jul 05 j 05:42	7°Y44'16 4°Y39'49 30°R X 29° X 29'42 0°Υ 1°Y12'49 2°Y42'50 29°Y18'25 0° X	0.28666 AU -4.7m	desc. node	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12 506 Feb 06 j 04:51 506 Feb 06 j 08:33 506 Mar 04 j 18:26	0° Ω 9° Ω 01'29 0° M 10° M 49'57 0° ズ 0° ズ 0° ※ 0° 米 29° ¥ 49'09 0° Υ 0° ϒ	45°36'56
morning rise direct greatest brilliancy desc. node morning max el	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28 503 Jun 05 j 11:57 503 Jun 06 j 05:21 503 Jul 05 j 05:42 503 Jul 31 j 20:16	7°Υ44'16 4°Υ39'49 30°RH 29°H29'42 0°Υ 1°Υ12'49 2°Υ42'50 29°Υ18'25 0°Β 0°Π 0°©	0.28666 AU -4.7m	desc. node	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12 506 Feb 06 j 04:51 506 Feb 06 j 08:33 506 Mar 04 j 18:26 506 Mar 26 j 18:41	0° Ω 9° Ω 01'29 0° M 10° M 49'57 0° ズ 0° ズ 0° ズ 0° ズ 0° ϒ 29° 升 49'09 0° ϒ 0° ϒ 0° ϒ 22° ℧ 51'31	45°36'56
morning rise direct greatest brilliancy desc. node	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28 503 Jun 05 j 11:57 503 Jun 06 j 05:21 503 Jul 05 j 05:42 503 Jul 31 j 20:16 503 Aug 22 j 09:54	7°Y44'16 4°Y39'49 30°RH 29°H29'42 0°Y 1°Y12'49 2°Y42'50 29°Y18'25 0°B 0°B 25°S23'39	0.28666 AU -4.7m	desc. node asc. node evening max el	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12 506 Feb 06 j 08:33 506 Mar 04 j 18:26 506 Mar 26 j 18:41 506 Apr 03 j 09:01	0°亞 9°亞01'29 0°肌 10°肌49'57 0°ズ 0°ጜ 0°※ 0°米 29°升49'09 0°Υ 0°႘ 22°႘51'31	
morning rise direct greatest brilliancy desc. node morning max el	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28 503 Jun 05 j 11:57 503 Jul 05 j 05:42 503 Jul 31 j 20:16 503 Aug 22 j 09:54 503 Aug 26 j 06:11	7°Υ44'16 4°Υ39'49 30°RH 29°H29'42 0°Υ 1°Υ12'49 2°Υ42'50 29°Υ18'25 0°Β 0°Β 25°©23'39 0°Ω	0.28666 AU -4.7m	desc. node asc. node evening max el greatest brilliancy	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12 506 Feb 06 j 04:51 506 Feb 06 j 08:33 506 Mar 04 j 18:26 506 Mar 26 j 18:41 506 Apr 03 j 09:01 506 May 03 j 13:41	0°亞 9°亞01'29 0°肌 10°肌49'57 0°ズ 0°ጜ 0°※ 0°米 29°光49'09 0°ϒ 0°႘ 22°႘51'31 0°肌 20°肌50'15	45°36'56 -4.7m
morning rise direct greatest brilliancy desc. node morning max el	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28 503 Jun 05 j 11:57 503 Jun 06 j 05:21 503 Jul 05 j 05:42 503 Jul 31 j 20:16 503 Aug 22 j 09:54 503 Aug 26 j 06:11 503 Sep 19 j 22:00	7°Υ44'16 4°Υ39'49 30°RH 29°H29'42 0°Υ 1°Υ12'49 2°Υ42'50 29°Υ18'25 0°H 0°S 25°S23'39 0°Ω 0°M	0.28666 AU -4.7m	desc. node asc. node evening max el greatest brilliancy retrograde	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12 506 Feb 06 j 04:51 506 Feb 06 j 08:33 506 Mar 04 j 18:26 506 Mar 26 j 18:41 506 Apr 03 j 09:01 506 May 03 j 13:41 506 May 14 j 13:59	0°至 9°至01'29 0°肌 10°肌49'57 0°ズ 0°云 0°※ 0°光 29°光49'09 0°Y 0°呂 22°呂51'31 0°Ⅱ 20°Ⅱ50'15	
morning rise direct greatest brilliancy desc. node morning max el	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28 503 Jun 05 j 11:57 503 Jun 06 j 05:21 503 Jul 05 j 05:42 503 Jul 31 j 20:16 503 Aug 22 j 09:54 503 Aug 26 j 06:11 503 Sep 19 j 22:00 503 Oct 14 j 02:30	7°Υ44'16 4°Υ39'49 30°R H 29° H 29'42 0°Υ 1°Υ12'49 2°Υ42'50 29°Υ18'25 0° H 0° © 25° © 23'39 0° Ω 0° ႃϦ 0° Ω	0.28666 AU -4.7m	desc. node asc. node evening max el greatest brilliancy retrograde desc. node	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12 506 Feb 06 j 04:51 506 Feb 06 j 08:33 506 Mar 04 j 18:26 506 Mar 26 j 18:41 506 Apr 03 j 09:01 506 May 03 j 13:41 506 May 14 j 13:59 506 May 28 j 18:27	0°至 9°至01'29 0°肌 10°肌49'57 0°ズ 0°云 0°※ 0°光 29°光49'09 0°Y 0°と 22°と51'31 0°耳 20°耳50'15 23°耳01'04 19°耳05'39	
morning rise direct greatest brilliancy desc. node morning max el	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28 503 Jun 05 j 11:57 503 Jun 06 j 05:21 503 Jul 05 j 05:42 503 Jul 31 j 20:16 503 Aug 22 j 09:54 503 Aug 26 j 06:11 503 Sep 19 j 22:00 503 Oct 14 j 02:30 503 Nov 07 j 01:00	7°Υ44'16 4°Υ39'49 30°R H 29° H 29'42 0°Υ 1°Υ12'49 2°Υ42'50 29°Υ18'25 0° H 0° © 25° © 23'39 0° Ω 0° M 0° Ω 0° M	0.28666 AU -4.7m	desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12 506 Feb 06 j 04:51 506 Feb 06 j 08:33 506 Mar 04 j 18:26 506 Mar 26 j 18:41 506 Apr 03 j 09:01 506 May 03 j 13:41 506 May 14 j 13:59 506 May 28 j 18:27 506 May 29 j 14:00	0° ♀ 9° ♀01'29 0° M 10° M49'57 0° ズ 0° 云 0° ※ 0° ႘ 29° ႘49'09 0° ϒ 0° ϒ 22° ႘51'31 0° Ⅱ 20° Ⅱ50'15 23° Ⅱ01'04 19° Ⅱ05'39 18° Ⅱ39'31	-4.7m
morning rise direct greatest brilliancy desc. node morning max el asc. node	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28 503 Jun 05 j 11:57 503 Jun 06 j 05:21 503 Jul 05 j 05:42 503 Jul 31 j 20:16 503 Aug 22 j 09:54 503 Aug 26 j 06:11 503 Sep 19 j 22:00 503 Nov 07 j 01:00 503 Nov 30 j 21:21	7°Y44'16 4°Y39'49 30°R} 29°H29'42 0°Y 1°Y12'49 2°Y42'50 29°Y18'25 0°B 0°B 25°\$23'39 0°A 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$	0.28666 AU -4.7m	desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set inferior conj	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12 506 Feb 06 j 04:51 506 Feb 06 j 08:33 506 Mar 04 j 18:26 506 Mar 26 j 18:41 506 Apr 03 j 09:01 506 May 03 j 13:41 506 May 14 j 13:59 506 May 28 j 18:27 506 May 29 j 14:00 506 Jun 05 j 00:50	0° 至 9° 至01'29 0° 肌 10° 肌49'57 0° ズ 0° 云 0° ※ 0° 光 29° 光49'09 0° Y 0° と 22° と51'31 0° Ⅱ 20° Ⅱ 50'15 23° Ⅱ 01'04 19° Ⅱ 05'39 18° Ⅱ 39'31 14° Ⅱ 48'21	-4.7m -1°41'38
morning rise direct greatest brilliancy desc. node morning max el asc. node	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28 503 Jun 05 j 11:57 503 Jun 06 j 05:21 503 Jul 05 j 05:42 503 Jul 31 j 20:16 503 Aug 22 j 09:54 503 Aug 26 j 06:11 503 Sep 19 j 22:00 503 Oct 14 j 02:30 503 Nov 07 j 01:00 503 Nov 30 j 21:21 503 Dec 03 j 00:34	7°Y44'16 4°Y39'49 30°R; 29° H 29'42 0°Y 1°Y12'49 2°Y42'50 29°Y18'25 0°B	0.28666 AU -4.7m	desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12 506 Feb 06 j 04:51 506 Feb 06 j 08:33 506 Mar 04 j 18:26 506 Mar 26 j 18:41 506 Apr 03 j 09:01 506 May 03 j 13:41 506 May 14 j 13:59 506 May 28 j 18:27 506 May 29 j 14:00 506 Jun 05 j 00:50 506 Jun 04 j 21:09	0° 至 9° 至01'29 0° 肌 10° 肌49'57 0° ズ 0° 云 0° ※ 0° 光 29° 光49'09 0° Y 0° と 22° と51'31 0° Ⅱ 20° Ⅱ50'15 23° Ⅱ01'04 19° Ⅱ05'39 18° Ⅱ39'31 14° Ⅱ48'21 14° Ⅱ54'06	-4.7m -1°41'38 1°40'34
morning rise direct greatest brilliancy desc. node morning max el asc. node	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28 503 Jun 05 j 11:57 503 Jun 06 j 05:21 503 Jul 05 j 05:42 503 Jul 31 j 20:16 503 Aug 22 j 09:54 503 Aug 26 j 06:11 503 Sep 19 j 22:00 503 Nov 07 j 01:00 503 Nov 30 j 21:21 503 Dec 03 j 00:34 503 Dec 11 j 23:28	7°Y44'16 4°Y39'49 30°RX 29°X29'42 0°Y 1°Y12'49 2°Y42'50 29°Y18'25 0°B 0°B 0°B 0°B 0°B 0°B 0°B 0°B 1°A 1°A 1°A 1°B	0.28666 AU -4.7m	desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong min. Earth dist.	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12 506 Feb 06 j 04:51 506 Feb 06 j 08:33 506 Mar 04 j 18:26 506 Mar 26 j 18:41 506 Apr 03 j 09:01 506 May 03 j 13:41 506 May 14 j 13:59 506 May 28 j 18:27 506 May 29 j 14:00 506 Jun 05 j 00:50 506 Jun 04 j 21:09 506 Jun 05 j 02:41	0° 至 9° 至01'29 0° M 10° M49'57 0° ズ 0° 云 0° ※ 0° 光 29° 光49'09 0° Y 0° と 22° と51'31 0° II 20° II 50'15 23° II 01'04 19° II 05'39 18° II 39'31 14° II 48'21 14° II 54'06 14° II 45'28	-4.7m -1°41'38
morning rise direct greatest brilliancy desc. node morning max el asc. node	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28 503 Jun 05 j 11:57 503 Jun 06 j 05:21 503 Jul 05 j 05:42 503 Jul 31 j 20:16 503 Aug 22 j 09:54 503 Aug 26 j 06:11 503 Sep 19 j 22:00 503 Oct 14 j 02:30 503 Nov 07 j 01:00 503 Nov 30 j 21:21 503 Dec 03 j 00:34	7°Y44'16 4°Y39'49 30°R; 29° H 29'42 0°Y 1°Y12'49 2°Y42'50 29°Y18'25 0°B	0.28666 AU -4.7m	desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12 506 Feb 06 j 04:51 506 Feb 06 j 08:33 506 Mar 04 j 18:26 506 Mar 26 j 18:41 506 Apr 03 j 09:01 506 May 03 j 13:41 506 May 14 j 13:59 506 May 28 j 18:27 506 May 29 j 14:00 506 Jun 05 j 00:50 506 Jun 04 j 21:09	0° 至 9° 至01'29 0° 肌 10° 肌49'57 0° ズ 0° 云 0° ※ 0° 光 29° 光49'09 0° Y 0° と 22° と51'31 0° Ⅱ 20° Ⅱ50'15 23° Ⅱ01'04 19° Ⅱ05'39 18° Ⅱ39'31 14° Ⅱ48'21 14° Ⅱ54'06	-4.7m -1°41'38 1°40'34
morning rise direct greatest brilliancy desc. node morning max el asc. node	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28 503 Jun 05 j 11:57 503 Jun 06 j 05:21 503 Jul 05 j 05:42 503 Jul 31 j 20:16 503 Aug 22 j 09:54 503 Aug 26 j 06:11 503 Sep 19 j 22:00 503 Nov 07 j 01:00 503 Nov 30 j 21:21 503 Dec 03 j 00:34 503 Dec 11 j 23:28	7°Y44'16 4°Y39'49 30°RX 29°X29'42 0°Y 1°Y12'49 2°Y42'50 29°Y18'25 0°B 0°B 0°B 0°B 0°B 0°B 0°B 0°B 1°A 1°A 1°A 1°B	0.28666 AU -4.7m	desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong min. Earth dist.	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12 506 Feb 06 j 04:51 506 Feb 06 j 08:33 506 Mar 04 j 18:26 506 Mar 26 j 18:41 506 Apr 03 j 09:01 506 May 03 j 13:41 506 May 14 j 13:59 506 May 28 j 18:27 506 May 29 j 14:00 506 Jun 05 j 00:50 506 Jun 04 j 21:09 506 Jun 05 j 02:41	0° 至 9° 至01'29 0° M 10° M49'57 0° ズ 0° 云 0° ※ 0° 光 29° 光49'09 0° Y 0° と 22° と51'31 0° II 20° II 50'15 23° II 01'04 19° II 05'39 18° II 39'31 14° II 48'21 14° II 54'06 14° II 45'28	-4.7m -1°41'38 1°40'34
morning rise direct greatest brilliancy desc. node morning max el asc. node	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28 503 Jun 05 j 11:57 503 Jun 06 j 05:21 503 Jul 05 j 05:42 503 Jul 31 j 20:16 503 Aug 22 j 09:54 503 Aug 26 j 06:11 503 Sep 19 j 22:00 503 Nov 07 j 01:00 503 Nov 30 j 21:21 503 Dec 03 j 00:34 503 Dec 11 j 23:28	7°Y44'16 4°Y39'49 30°RX 29°X29'42 0°Y 1°Y12'49 2°Y42'50 29°Y18'25 0°B 0°B 0°B 0°B 0°B 0°B 0°B 0°B 1°A 1°A 1°A 1°B	0.28666 AU -4.7m 45°44'56	desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12 506 Feb 06 j 04:51 506 Feb 06 j 08:33 506 Mar 04 j 18:26 506 Mar 26 j 18:41 506 Apr 03 j 09:01 506 May 03 j 13:41 506 May 14 j 13:59 506 May 28 j 18:27 506 May 29 j 14:00 506 Jun 05 j 00:50 506 Jun 05 j 02:41 506 Jun 11 j 04:14	0° 至 9° 至01'29 0° M 10° M49'57 0° ズ 0° 云 0° ※ 0° 光 29° 光49'09 0° Y 0° と 22° と51'31 0° 用 20° I 50'15 23° I 01'04 19° I 05'39 18° I 39'31 14° I 48'21 14° I 54'06 14° I 45'28 11° I 07'06	-4.7m -1°41'38 1°40'34
morning rise direct greatest brilliancy desc. node morning max el asc. node morning set desc. node	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28 503 Jun 05 j 11:57 503 Jun 06 j 05:21 503 Jul 05 j 05:42 503 Jul 31 j 20:16 503 Aug 22 j 09:54 503 Aug 26 j 06:11 503 Sep 19 j 22:00 503 Oct 14 j 02:30 503 Nov 07 j 01:00 503 Nov 30 j 21:21 503 Dec 03 j 00:34 503 Dec 24 j 17:47	7°Y44'16 4°Y39'49 30°R	-4.7m 45°44'56	desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12 506 Feb 06 j 04:51 506 Feb 06 j 08:33 506 Mar 04 j 18:26 506 Mar 26 j 18:41 506 Apr 03 j 09:01 506 May 03 j 13:41 506 May 14 j 13:59 506 May 28 j 18:27 506 May 29 j 14:00 506 Jun 05 j 00:50 506 Jun 05 j 00:41 506 Jun 05 j 02:41 506 Jun 11 j 04:14 506 Jun 26 j 17:04	0° ♀ 9° ♀01'29 0° M 10° M49'57 0° ♂ 0° ♂ 0° ♂ 0° ♂ 0° ♂ 29° 升49'09 0° ♂ 0° ♂ 22° ♂ 51'31 0° Ⅱ 20° Ⅱ 50'15 23° Ⅱ 01'04 19° Ⅱ 05'39 18° Ⅱ 39'31 14° Ⅱ 48'21 14° Ⅱ 54'06 14° Ⅱ 45'28 11° Ⅱ 07'06 6° Ⅱ 29'56	-4.7m -1°41'38 1°40'34 0.28977 AU
morning rise direct greatest brilliancy desc. node morning max el asc. node morning set desc. node	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28 503 Jun 05 j 11:57 503 Jun 06 j 05:21 503 Jul 05 j 05:42 503 Jul 31 j 20:16 503 Aug 22 j 09:54 503 Aug 22 j 09:54 503 Aug 26 j 06:11 503 Sep 19 j 22:00 503 Oct 14 j 02:30 503 Nov 07 j 01:00 503 Nov 30 j 21:21 503 Dec 03 j 00:34 503 Dec 11 j 23:28 503 Dec 24 j 17:47	7°Y44'16 4°Y39'49 30°R \times 29° \times 29'42 0°Y 1°Y12'49 2°Y42'50 29°Y18'25 0°\times 0°\times 25°\times 23'39 0°\times 0°\times 0°\times 2°\times 4'109 13°\times 57'12 0°\times 25°\times 23'59 24°\times 48'08	-4.7m 45°44'56	desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12 506 Feb 06 j 04:51 506 Feb 06 j 08:33 506 Mar 04 j 18:26 506 Mar 26 j 18:41 506 Apr 03 j 09:01 506 May 03 j 13:41 506 May 14 j 13:59 506 May 28 j 18:27 506 May 29 j 14:00 506 Jun 05 j 00:50 506 Jun 04 j 21:09 506 Jun 05 j 02:41 506 Jun 11 j 04:14 506 Jun 26 j 17:04 506 Jul 07 j 06:23 506 Aug 07 j 15:30	0° ♀ 9° ♀01'29 0° M 10° M49'57 0° ♂ 0° ♂ 0° ☆ 0° ★ 29° ★49'09 0° ϒ 0° ℧ 22° ℧ 51'31 0° Ⅱ 20° Ⅱ 50'15 23° Ⅱ 01'04 19° Ⅱ 05'39 18° Ⅱ 39'31 14° Ⅱ 48'21 14° Ⅱ 54'06 14° Ⅱ 45'28 11° Ⅱ 07'06 6° Ⅱ 29'56 8° Ⅱ 30'05	-4.7m -1°41'38 1°40'34 0.28977 AU -4.7m
morning rise direct greatest brilliancy desc. node morning max el asc. node morning set desc. node superior conj minimum elong	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28 503 Jun 05 j 11:57 503 Jun 06 j 05:21 503 Jul 05 j 05:42 503 Jul 31 j 20:16 503 Aug 22 j 09:54 503 Aug 22 j 09:54 503 Aug 26 j 06:11 503 Sep 19 j 22:00 503 Oct 14 j 02:30 503 Nov 07 j 01:00 503 Nov 30 j 21:21 503 Dec 03 j 00:34 503 Dec 11 j 23:28 503 Dec 24 j 17:47 504 Jan 13 j 23:25 504 Jan 13 j 11:58 504 Jan 17 j 15:25	7°Y44'16 4°Y39'49 30°R\ 29°\H29'42 0°\Y 1°\Y12'49 2°\Y42'50 29°\Y18'25 0°\B 0°\B 0°\B 0°\B 0°\B 0°\B 0°\B 0°\B	-4.7m 45°44'56 -1°08'02 1°07'41	desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12 506 Feb 06 j 04:51 506 Feb 06 j 08:33 506 Mar 04 j 18:26 506 Mar 26 j 18:41 506 Apr 03 j 09:01 506 May 03 j 13:41 506 May 14 j 13:59 506 May 28 j 18:27 506 May 29 j 14:00 506 Jun 05 j 00:50 506 Jun 05 j 00:50 506 Jun 05 j 02:41 506 Jun 11 j 04:14 506 Jun 26 j 17:04 506 Jul 07 j 06:23 506 Aug 07 j 15:30 506 Aug 14 j 20:32	0° 至 9° 至01'29 0° 肌 10° 肌49'57 0° ズ 0° ズ 0° ズ 0° ズ 0° ズ 0° ズ 29° 犬49'09 0° Y 0° ℧ 22° ℧51'31 0° 肌 20° 肌50'15 23° 肌01'04 19° 肌05'39 18° 肌39'31 14° 肌48'21 14° 肌54'06 14° 肌45'28 11° 肌07'06 6° 肌29'56 8° 肌30'05 0° ⑤	-4.7m -1°41'38 1°40'34 0.28977 AU -4.7m
morning rise direct greatest brilliancy desc. node morning max el asc. node morning set desc. node superior conj minimum elong	503 Mar 27 j 09:03 503 Apr 01 j 08:30 503 Apr 12 j 16:40 503 Apr 17 j 17:45 503 Apr 22 j 22:03 503 Apr 27 j 11:09 503 May 01 j 06:28 503 Jun 05 j 11:57 503 Jun 06 j 05:21 503 Jul 05 j 05:42 503 Jul 31 j 20:16 503 Aug 22 j 09:54 503 Aug 22 j 09:54 503 Aug 26 j 06:11 503 Sep 19 j 22:00 503 Oct 14 j 02:30 503 Nov 07 j 01:00 503 Nov 30 j 21:21 503 Dec 03 j 00:34 503 Dec 11 j 23:28 503 Dec 24 j 17:47	7°Y44'16 4°Y39'49 30°R \times 29° \times 29'42 0°Y 1°Y12'49 2°Y42'50 29°Y18'25 0°\times 0°\times 25°\times 23'39 0°\times 0°\times 0°\times 2°\times 4'109 13°\times 57'12 0°\times 25°\times 23'59 24°\times 48'08	-4.7m 45°44'56 -1°08'02 1°07'41	desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	505 Sep 13 j 09:46 505 Sep 20 j 15:05 505 Oct 07 j 09:52 505 Oct 16 j 01:53 505 Oct 31 j 10:13 505 Nov 24 j 11:55 505 Dec 18 j 16:53 506 Jan 12 j 05:12 506 Feb 06 j 04:51 506 Feb 06 j 08:33 506 Mar 04 j 18:26 506 Mar 26 j 18:41 506 Apr 03 j 09:01 506 May 03 j 13:41 506 May 14 j 13:59 506 May 28 j 18:27 506 May 29 j 14:00 506 Jun 05 j 00:50 506 Jun 04 j 21:09 506 Jun 05 j 02:41 506 Jun 11 j 04:14 506 Jun 26 j 17:04 506 Jul 07 j 06:23 506 Aug 07 j 15:30	0° 至 9° 至01'29 0° 肌 10° 肌49'57 0° ズ 0° ズ 0° ズ 0° ズ 0° ズ 0° ズ 29° 光49'09 0° Y 0° と 22° と51'31 0° 肌 20° 肌50'15 23° 肌01'04 19° 肌05'39 18° 肌39'31 14° 肌48'21 14° 肌54'06 14° 肌45'28 11° 肌07'06 6° 肌29'56 8° 肌30'05 0° ⑤	-4.7m -1°41'38 1°40'34 0.28977 AU -4.7m

	506 Oct 02 j 14:35	0° m			509 May 06 j 16:55	0ංම	
	506 Oct 27 j 14:52	0∘ ⊽			509 Jun 04 j 14:09	$0^{\circ}\Omega$	
	506 Nov 20 j 23:49	0° M		evening max el	509 Jun 05 j 12:22	0° £ 53′12	45°23'46
	506 Dec 15 j 02:15	0° ∡ ¹		desc. node	509 Jun 25 j 06:21	17° Ω 55'27	
desc. node	507 Jan 08 j 11:19	0° ಕ 26'21		greatest brilliancy	509 Jul 14 j 07:51	28° Ω 44'00	-4.7m
	507 Jan 08 j 02:52	0°ಕ			509 Jul 19 j 04:29	0° m ∕	
	507 Feb 01 j 04:01	0° ≈		retrograde	509 Jul 24 j 02:26	0° Mp 26'58	
morning set	507 Feb 18 j 00:26	20°≈58'22		_	509 Jul 28 j 21:47	30°R Ω	
	507 Feb 25 j 06:47	0° ∺		evening set	509 Aug 10 j 19:08	24° Ω 39'28	
	507 Mar 21 j 11:48	0 ° Υ		inferior conj	509 Aug 14 j 08:41	22° Ω 29'27	
				minimum elong	509 Aug 14 j 04:27	22° Ω 35'59	
superior conj	507 Mar 28 j 22:33	9° Y 12'14		min. Earth dist.	509 Aug 14 j 20:34		0.28343 AU
minimum elong	507 Mar 29 j 08:03	9° Y 41'33		morning rise	509 Aug 17 j 13:33	20° Ω 31'43	
max. Earth dist.	507 Mar 31 j 16:01	12° Y 34'18	1.73033 AU	direct	509 Sep 04 j 17:30	14° Ω 21'27	4.0
	507 Apr 14 j 19:22	0°8		greatest brilliancy	509 Sep 15 j 17:15	16° Ω 34'05	-4.8m
asc. node	507 May 01 j 14:42	20° 8 39'38		1	509 Oct 06 j 20:49	0° M)	
evening rise	507 May 05 j 12:19	25° 8 26'53		asc. node	509 Oct 16 j 09:35	8° Mp 26'20	16010115
	507 May 09 j 05:23	0°II		morning max el	509 Oct 25 j 02:05	16° m 55'39	46°42'45
	507 Jun 02 j 17:31	0°99			509 Nov 06 j 12:25	0∘ 亚	
	507 Jun 27 j 07:58	0° N			509 Dec 02 j 22:18	0°M 0°. 7	
	507 Jul 22 j 01:54	0° m)			509 Dec 28 j 01:35	0° ∡ ¹	
1 1	507 Aug 16 j 01:37	0° ⊽			510 Jan 21 j 17:27	0°る	
desc. node	507 Aug 21 j 03:58	6° Ω 04'13		desc. node	510 Feb 04 j 23:07	17° る 25'41	
	507 Sep 10 j 10:56	0°M 0°. 7			510 Feb 15 j 05:12	0° ≈	
·	507 Oct 06 j 14:08	0° ⊀ 7	47022101		510 Mar 11 j 15:53	0° ∀	
evening max el	507 Nov 01 j 20:02	28° ⊀ 14'15	4/°22'01	. ,	510 Apr 05 j 02:44	0° Υ	
1	507 Nov 03 j 14:00	0°る 200 ろ 4710.4		morning set	510 Apr 29 j 21:41	0° 8 23'28	
asc. node	507 Dec 12 j 07:16	29° る 47'04	4.0		510 Apr 29 j 14:01	8°0	
greatest brilliancy	507 Dec 12 j 08:23	29° る 48'07	-4.9m	1	510 May 24 j 01:12	0°II	
	507 Dec 12 j 21:10	0°≈ 1°≈ ≈53143		asc. node	510 May 29 j 02:29	6° Ⅱ 12'10	1 72/22 AII
retrograde	507 Dec 22 j 18:38	1°≈52'42		max. Earth dist.	510 Jun 03 j 22:49	13° Ⅱ 22'56	1.73623 AU
	508 Jan 01 j 05:59	30°Rる			510 Jun 05 : 10.51	150∏12125	0917120
evening set	508 Jan 07 j 13:03	26° る 53'38	0.27067 ATT	superior conj	510 Jun 05 j 10:51	15° I 13'35	0°17'20 0°17'09
min. Earth dist.	508 Jan 11 j 11:09	24° る 31'29		minimum elong	510 Jun 05 j 07:24	15° Ⅱ 03'00	0°17'09
inferior conj	508 Jan 12 j 11:21	23°る53'52 24°る09'19			510 Jun 17 j 11:19	0°ତ 29° ତ 14'44	
minimum elong	508 Jan 12 j 01:25	24 809 19 21° る 23'37	0 34 21	evening rise	510 Jul 11 j 05:09 510 Jul 11 j 19:50	29 3 14 44 0° Ω	
morning rise direct	508 Jan 16 j 14:19 508 Feb 02 j 00:05	21 3 2337 16° る 08'44			510 Jul 11 j 19.30 510 Aug 05 j 03:13	0° m)	
greatest brilliancy	508 Feb 02 j 00.03 508 Feb 10 j 21:16	16 808 44 17° る 38'46	1 9m		510 Aug 03 j 03:13 510 Aug 29 j 10:46	0∘ ⊽	
greatest offinancy	508 Mar 02 j 23:04	0°≈	-4.0111	desc. node	510 Aug 29 j 10.40 510 Sep 17 j 16:03	0 == 23° ₽ 39'35	
morning max el	508 Mar 22 j 13:07	0 ≈ 17°≈28'05	46°15'01	desc. node	510 Sep 17 j 10:03 510 Sep 22 j 19:53	23 = 3933	
desc. node	508 Apr 01 j 20:52	27°≈50'28	40 1301		510 Oct 17 j 08:00	0° ⊼	
desc. node	508 Apr 01 j 20:52 508 Apr 03 j 22:50	27 ≈ 30 28			510 Oct 17 j 08:00 510 Nov 11 j 01:46	0°る	
	508 Apr 03 j 22:50 508 May 01 j 12:59	0° Υ			510 Nov 11 j 01.40 510 Dec 06 j 08:17	0°≈	
	508 May 27 j 18:23	%8 0 1			510 Dec 00 j 08:17 511 Jan 01 j 23:12	0° ∺	
	508 Jun 22 j 06:51	0°II		asc. node	511 Jan 08 j 19:02	7° ∺ 12'47	
	508 Jul 17 j 07:07	0ಂ ತಾ		evening max el	511 Jan 12 j 08:36	10° H 52'07	46°48'41
asc. node	508 Jul 24 j 00:03	8°208'06		evening max cr	511 Feb 02 j 04:38	0° Υ	40 48 41
ase. node	508 Aug 10 j 21:03	0° U		greatest brilliancy	511 Feb 21 j 05:44	11° Ƴ 39'54	-4.8m
	508 Sep 04 j 02:36	0° m)		retrograde	511 Mar 03 j 19:07	13° Y 45'40	4.0111
morning set	508 Sep 16 j 00:53	14° m 53'21		evening set	511 Mar 21 j 00:55	8° Υ 00'18	
morning set	508 Sep 28 j 02:26	0° ರ		inferior conj	511 Mar 25 j 02:07	5° Υ 28'46	7°13'54
	508 Oct 21 j 23:23	0° ™		minimum elong	511 Mar 25 j 10:56	5° Υ 14'46	7°12'30
max. Earth dist.	508 Oct 23 j 22:48	2°M29'05	1.71175 AU	min. Earth dist.	511 Mar 25 j 00:34	5° Υ 31'13	0.28639 AU
max. Larm dist.	300 OCT 25 J 22.40	2 1102703	1./11/5/10	morning rise	511 Mar 29 j 21:10	2° Υ 30'56	0.20037710
superior conj	508 Oct 24 j 22:50	3° M .44'41	0°42'24	morning rise	511 Apr 03 j 15:41	30° ₹	
minimum elong	508 Oct 25 j 08:16	4° M ₁4'21	0°42'00	direct	511 Apr 15 j 08:31	27° ₩ 16'19	
desc. node	508 Nov 12 j 13:47	27°M10'36		greatest brilliancy	511 Apr 25 j 02:07	28° H 59'30	-4.7m
2000. 11000	508 Nov 14 j 19:39	0° ⊼ ¹		5. Carost Orimune y	511 Apr 27 j 18:11	20 γ (3)30	, 111
evening rise	508 Dec 05 j 08:41	25° ∡ ¹49'22		desc. node	511 Apr 30 j 08:34	1° Υ 10'12	
3.0	508 Dec 08 j 16:30	0°る		morning max el	511 Jun 03 j 03:23	27° Υ 06'09	45°45'18
	509 Jan 01 j 15:03	0° ≈			511 Jun 06 j 03:32	0°8	
	509 Jan 25 j 17:00	0° ∺			511 Jul 04 j 21:29	0°II	
	509 Feb 19 j 01:08	0° Υ			511 Jul 31 j 09:43	0°e	
asc. node	509 Mar 05 j 16:54	17° Y 50′06		asc. node	511 Aug 21 j 11:58	24°952'32	
	509 Mar 15 j 19:18	0°8			511 Aug 25 j 18:32	0° Ω	
	509 Apr 10 j 05:01	0°П			511 Sep 19 j 09:48	0° m)	
					р ј ол. 10	~ ·×	

	511 Oct 13 j 14:01	0∘ ⊽		greatest brilliancy	514 May 01 j 06:03	18° Ⅱ 41'30	-4.7m
	511 Nov 06 j 12:23	0°M√		retrograde	514 May 12 j 06:37	20° Ⅱ 52'11	
morning set	511 Nov 30 j 11:00	0° ∡ 107'27		evening set	514 May 27 j 06:31	16° Ⅱ 30'46	
	511 Nov 30 j 08:38	0° ∡ ¹		desc. node	514 May 27 j 20:28	16° Ⅱ 11'31	
desc. node	511 Dec 11 j 01:29	13° ∡ ′28′13		inferior conj	514 Jun 02 j 17:15	12° ∏ 39'13	
	511 Dec 24 j 05:00	0°ಕ		minimum elong	514 Jun 02 j 14:15	12° Ⅱ 43'54	
	510 X 11:00 51	222	1005125	min. Earth dist.	514 Jun 02 j 19:00	12° Ⅱ 36′28	0.28980 AU
superior conj	512 Jan 11 j 09:51	22°る51'14		morning rise	514 Jun 08 j 22:00	8°II55'56	
minimum elong	512 Jan 10 j 22:09	22°る14'31		direct	514 Jun 24 j 09:57	4° Ⅱ 20'56	4.7
max. Earth dist.	512 Jan 14 j 21:07	2/° 6 12′09 0° ≈	1.71443 AU	greatest brilliancy	514 Jul 04 j 21:38	6°Ⅱ19'43 0°©	-4./m
	512 Jan 17 j 02:42	0° ∺			514 Aug 07 j 16:37	0°≌ 4°≌34'24	45950126
	512 Feb 10 j 02:49			morning max el	514 Aug 12 j 12:26	4°€3424 0°Ω	45-59-30
evening rise	512 Feb 21 j 00:51	13° ¥ 35'05 0° Ƴ			514 Sep 05 j 22:46	0°8ℓ 13° Ω 31'15	
	512 Mar 05 j 06:36	0° 8		asc. node	514 Sep 17 j 23:59		
asc. node	512 Mar 29 j 15:21 512 Apr 02 j 04:53	4° 8 21'53			514 Oct 02 j 04:30	0 ்⊽ 0∘∭	
asc. Houe		4 O 21 33			514 Oct 27 j 03:36 514 Nov 20 j 11:57	0° m	
	512 Apr 23 j 06:16 512 May 18 j 04:55	0°©			514 Nov 20 j 11.37 514 Dec 14 j 14:00	0° ⊼	
	512 Jun 12 j 14:25	0° U		desc. node	514 Dec 14 j 14:00 515 Jan 07 j 13:19	0 x ⁴ 29° x ¹56'45	
	512 Jul	0° m y		desc. node	515 Jan 07 j 14:22	29 x 30 43	
desc. node	512 Jul 08 j 17.34 512 Jul 22 j 18:05	15° m) 29'34			515 Jan 31 j 15:17	0°≈	
desc. Hode	512 Jul 22 j 18:03 512 Aug 05 j 09:38	0° ⊽		morning set	515 Feb 15 j 12:58	0 ≈ 18° ≈ 33'31	
evening max el	512 Aug 03 j 04:57	0 = 11° £ 51'20	46°23'09	morning set	515 Feb 24 j 17:52	18 ≈ 33 31	
evening max er	512 Aug 17 j 04.57 512 Sep 06 j 19:46	0°ML	40 23 09		515 Feb 24 j 17.32 515 Mar 20 j 22:44	0° Υ	
greatest brilliancy	512 Sep 00 j 19.40 512 Sep 26 j 18:14	11°ML25'34	4 0m		313 Wai 20 J 22.44	0 1	
retrograde	512 Oct 05 j 21:43	12°M59'12	-4.9111	superior conj	515 Mar 26 j 14:09	6° Y 58′29	1°10'46
evening set	512 Oct 03 j 21.43 512 Oct 21 j 05:04	8°M26'12		minimum elong	515 Mar 26 j 23:27	7° Υ 27'12	
inferior conj	512 Oct 26 j 12:04	5°M20'16	1018116	max. Earth dist.	515 Mar 29 j 13:00		1.72986 AU
minimum elong	512 Oct 26 j 20:57	5°M06'49		max. Earth dist.	515 Apr 14 j 06:14	0° 8	1.72980 AU
min. Earth dist.	512 Oct 20 j 20:37 512 Oct 27 j 01:19	5°ML00'12		asc. node	515 Apr 30 j 16:44	20° 8 12'23	
morning rise	512 Nov 01 j 12:22	1°M50'12	0.20013 AU	evening rise	515 Apr 30 j 10.44 515 May 03 j 06:11	23° 8 20'58	
morning risc	512 Nov 01 j 12:22 512 Nov 05 j 07:19	30°R ≏		evening rise	515 May 08 j 16:18	0°II	
asc. node	512 Nov 12 j 21:21	27° £ 51'01			515 Jun 02 j 04:38	0°9	
direct	512 Nov 15 j 23:55	27° ⊆ 39'01			515 Jun 26 j 19:26	$0 {\circ} \Omega$	
greatest brilliancy	512 Nov 15 j 23:35 512 Nov 26 j 17:25	27 ⊆ 5901 29° ⊆ 50'21	-4.9m		515 Jul 21 j 13:55	0° m p	
greatest orimancy	512 Nov 20 j 17:23 512 Nov 27 j 03:11	0° ™	-4.9111		515 Aug 15 j 14:30	0∘ ত مالا	
	513 Jan 04 j 16:15	0° ∡ ⊓		desc. node	515 Aug 20 j 06:08	o — 5° ≏ 31'41	
morning max el	513 Jan 05 j 16:57	1° ∡ 02′22	46°54'00	dese. Hode	515 Nag 20 j 00:00 515 Sep 10 j 01:15	ე° ™	
morning max cr	513 Feb 01 j 13:35	0°පි	40 54 00		515 Oct 06 j 07:11	0° ∡ 7	
	513 Feb 27 j 15:23	0° ≈		evening max el	515 Oct 30 j 10:38	25° ₹ 751'10	47°21'19
desc. node	513 Mar 04 j 11:10	5° ≈ 39'15		evening max er	515 Nov 03 j 14:17	0°궁	1, 211)
dese. Hode	513 Mar 25 j 01:01	0° ₩		greatest brilliancy	515 Dec 09 j 23:06	27° る 22'30	-4.9m
	513 Apr 19 j 03:06	0° Υ		asc. node	515 Dec 11 j 09:17	27° る 52'55	1.5111
	513 May 14 j 00:43	0°8		retrograde	515 Dec 20 j 08:10	29° る 25'37	
	513 Jun 07 j 18:22	0°II		evening set	516 Jan 04 j 23:01	24° る 32'45	
asc. node	513 Jun 25 j 14:18	21° Ⅱ 46′06		min. Earth dist.	516 Jan 09 j 00:50	22° る 05'14	0.27002 AU
use. Houe	513 Jul 02 j 07:29	0°95		inferior conj	516 Jan 10 j 00:37	21°る28'13	6°41'55
morning set	513 Jul 06 j 08:17	4°957'10		minimum elong	516 Jan 09 j 14:32	21° る 43'56	
Ç	513 Jul 26 j 15:42	0°N		morning rise	516 Jan 14 j 06:35	18° そ 53'31	
max. Earth dist.	513 Aug 08 j 04:15		1.72606 AU	direct	516 Jan 30 j 12:45	13° ⋜ 44'17	
	<i>5 3</i> ,	= = '		greatest brilliancy	516 Feb 08 j 10:42	15° る 14'38	-4.9m
superior conj	513 Aug 11 j 19:34	20° Ω 02'31	1°22'08	· ·	516 Mar 03 j 11:09	0° ≈	
minimum elong	513 Aug 11 j 15:18	19° Ω 49'17		morning max el	516 Mar 20 j 01:51	15° ≈ 05'28	46°16'35
C	513 Aug 19 j 19:39	0° m)		desc. node	516 Mar 31 j 22:54	27° ≈ 05'13	
	513 Sep 12 j 20:55	0∘ <u>v</u>			516 Apr 03 j 17:45	0° ∀	
evening rise	513 Sep 18 j 05:03	6° ₽ 40′10			516 May 01 j 03:42	0°Υ	
-	513 Oct 06 j 21:13	0° M ₊			516 May 27 j 07:16	0°8	
desc. node	513 Oct 15 j 03:58	10°M20'46			516 Jun 21 j 18:47	Π°	
	513 Oct 30 j 21:47	0° ∡ ¹			516 Jul 16 j 18:32	0ංම	
	513 Nov 23 j 23:43	8°0		asc. node	516 Jul 23 j 02:12	7° 5 40'15	
	513 Dec 18 j 05:03	0° ≈			516 Aug 10 j 08:12	$0^{\circ}\Omega$	
	514 Jan 11 j 17:57	0° ∀			516 Sep 03 j 13:37	0° m	
asc. node	514 Feb 05 j 07:01	29°) 14′53		morning set	516 Sep 13 j 15:37	12° m 34'59	
	514 Feb 05 j 22:28	0° Υ			516 Sep 27 j 13:25	0∘ ⊽	
	514 Mar 04 j 11:06	9° 8		max. Earth dist.	516 Oct 21 j 03:55	29° ≙ 39'35	1.71203 AU
evening max el	514 Mar 24 j 11:27	20° 8 42'14	45°38'35		516 Oct 21 j 10:25	0° M ₊	
	514 Apr 03 j 11:27	Π°					

superior conj	516 Oct 22 j 10:28	1°ML15'38			519 Mar 28 j 01:47	30° ₹ ₩	
minimum elong	516 Oct 22 j 20:19	1°M46'35	0°45'16	direct	519 Apr 12 j 23:37	25° ₩ 03'51	
desc. node	516 Nov 11 j 15:45	26°M41'53		greatest brilliancy	519 Apr 22 j 16:44	26°) 46′54	-4.7m
	516 Nov 14 j 06:44	0° ≯ 7		desc. node	519 Apr 29 j 10:35	29° ℋ 41'46	
evening rise	516 Dec 02 j 18:19	23° ҂ 13'51			519 Apr 30 j 00:28	0° Y	
	516 Dec 08 j 03:41	0°₹		morning max el	519 May 31 j 19:48	24° Ƴ 57′22	45°45'46
	517 Jan 01 j 02:19	0° ≈			519 Jun 06 j 00:27	9° 8	
	517 Jan 25 j 04:24	0° ∀			519 Jul 04 j 12:35	Π $^{\circ}0$	
	517 Feb 18 j 12:48	0 ° Υ			519 Jul 30 j 22:40	0ංම	
asc. node	517 Mar 04 j 19:02	17° Ƴ 20′26		asc. node	519 Aug 20 j 14:10	24°523'02	
	517 Mar 15 j 07:31	9° 8			519 Aug 25 j 06:28	$0^{\circ}\Omega$	
	517 Apr 09 j 18:18	Π $^{\circ}0$			519 Sep 18 j 21:14	0° m y	
	517 May 06 j 08:36	0°€			519 Oct 13 j 01:14	0∘ ত	
evening max el	517 Jun 03 j 02:13	28° © 37'34	45°22'49		519 Nov 05 j 23:30	0° M	
	517 Jun 04 j 12:57	$0^{\circ}\Omega$		morning set	519 Nov 27 j 21:06	27°MJ33'24	
desc. node	517 Jun 24 j 08:23	16° Ω 47'00			519 Nov 29 j 19:42	0° ∡ 7	
greatest brilliancy	517 Jul 11 j 20:56	26° Ω 28'42	-4.7m	desc. node	519 Dec 10 j 03:35	13° ₰ 00'05	
retrograde	517 Jul 21 j 16:34	28° Ω 13'02			519 Dec 23 j 15:59	0°ರ	
evening set	517 Aug 08 j 07:00	22° Ω 28'58					
inferior conj	517 Aug 11 j 23:35	20° Ω 14'40	-8°27'49	superior conj	520 Jan 08 j 19:39	20° る 17'04	-1°02'56
minimum elong	517 Aug 11 j 18:36	20° £ 22′20	8°27'27	minimum elong	520 Jan 08 j 07:46	19° る 39'48	1°02'32
min. Earth dist.	517 Aug 12 j 11:04	19° Ω 56'55	0.28394 AU	max. Earth dist.	520 Jan 12 j 03:54	24° る 28'43	1.71401 AU
morning rise	517 Aug 15 j 05:58	18° Ω 14'42			520 Jan 16 j 13:38	0° ≈	
direct	517 Sep 02 j 08:26	12° Ω 05'38			520 Feb 09 j 13:43	0° ∀	
greatest brilliancy	517 Sep 13 j 09:14	14° Ω 18'52	-4.8m	evening rise	520 Feb 18 j 13:03	11°) 10′06	
	517 Oct 07 j 05:14	o° m y			520 Mar 04 j 17:30	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	517 Oct 15 j 11:36	7° m 30'12			520 Mar 29 j 02:21	0° ႘	
morning max el	517 Oct 22 j 16:15	14° m/ 34'02	46°41'36	asc. node	520 Apr 01 j 06:54	3° 8 54'15	
S	517 Nov 06 j 06:46	0∘ <u>⊽</u>			520 Apr 22 j 17:33	0°II	
	517 Dec 02 j 13:07	0° M			520 May 17 j 16:46	0ංම	
	517 Dec 27 j 14:51	0° ∡ ¹			520 Jun 12 j 03:19	$0^{\circ}\Omega$	
	518 Jan 21 j 05:48	0°ರ			520 Jul 08 j 08:50	0° mp	
desc. node	518 Feb 04 j 01:19	16° ප 55'45		desc. node	520 Jul 21 j 20:19	14° m 50'15	
	518 Feb 14 j 16:57	0° ≈			520 Aug 05 j 05:23	0∘ ⊽	
	518 Mar 11 j 03:12	0° ∀		evening max el	520 Aug 14 j 19:11	9° ഫ 33'00	46°20'31
	518 Apr 04 j 13:45	0 $^{\circ}$ Υ		C	520 Sep 07 j 14:22	0° M	
morning set	518 Apr 27 j 15:17	28° Ƴ 17'10		greatest brilliancy	520 Sep 24 j 06:10	8° M 59'14	-4.9m
S	518 Apr 29 j 00:50	0°8		retrograde	520 Oct 03 j 10:12	10°MJ32'42	
	518 May 23 j 11:53	0° I I		evening set	520 Oct 18 j 20:15	5°M55'42	
asc. node	518 May 28 j 04:33	5° Ⅱ 45'47		inferior conj	520 Oct 24 j 00:22	2°M53'24	-4°39'39
max. Earth dist.	518 Jun 01 j 20:17	11° Ⅱ 28'48	1.73631 AU	minimum elong	520 Oct 24 j 09:46	2°M39'11	
	,			min. Earth dist.	520 Oct 24 j 14:24		0.26661 AU
superior conj	518 Jun 03 j 05:28	13° Ⅱ 10'43	0°14'16		520 Oct 28 j 21:54	30° ₽ Ω	
minimum elong	518 Jun 03 j 02:36	13° Ⅱ 01'55		morning rise	520 Oct 29 j 22:52	29° ≏ 25'48	
behind sun begin	518 Jun 02 j 16:28	12° Ⅱ 30'47		asc. node	520 Nov 11 j 23:26	25° ≏ 14'38	
behind sun end	518 Jun 03 j 12:45	13° II 33'03		direct	520 Nov 13 j 13:34	25° ₽ 11'30	
	518 Jun 16 j 21:58	0°©		greatest brilliancy	520 Nov 24 j 06:55	27° £ 23'05	-4.9m
evening rise	518 Jul 09 j 00:14	27°©12'33		,	520 Nov 29 j 20:28	0° M	
•	518 Jul 11 j 06:34	$0^{\circ}\Omega$		morning max el	521 Jan 03 j 07:25	28°M39'28	46°54'28
	518 Aug 04 j 14:11	0°m		C	521 Jan 04 j 15:02	0° ∡ 7	
	518 Aug 28 j 22:06	0∘ <u>⊽</u>			521 Feb 01 j 05:57	0°ರ	
desc. node	518 Sep 16 j 18:06	23° ഫ 09'58			521 Feb 27 j 05:15	0° ≈	
	518 Sep 22 j 07:42	0° M ₊		desc. node	521 Mar 03 j 13:12	5° ≈ 05'20	
	518 Oct 16 j 20:26	0° ∡ ¹			521 Mar 24 j 13:33	0° \	
	518 Nov 10 j 15:07	0°ठ			521 Apr 18 j 14:49	0° Υ	
	518 Dec 05 j 23:16	0° ≈			521 May 13 j 11:54	0°8	
	519 Jan 01 j 18:04	0° ∀			521 Jun 07 j 05:12	0°II	
asc. node	519 Jan 07 j 21:13	6° ¥ 25'13		asc. node	521 Jun 24 j 16:27	21° Ⅱ 19'53	
evening max el	519 Jan 09 j 23:06	8°) €32'34	46°51'15		521 Jul 01 j 18:09	0°9	
2	519 Feb 02 j 18:04	0°Υ		morning set	521 Jul 04 j 02:24	2° 9 52'41	
greatest brilliancy	519 Feb 18 j 21:55	9° Y 26'31	-4.8m	<i>5</i> ·	521 Jul 26 j 02:18	0° Ω	
retrograde	519 Mar 01 j 11:35	11° Υ 32'57		max. Earth dist.	521 Aug 05 j 20:12	13° Ω 18'55	1.72655 AU
evening set	519 Mar 18 j 19:31	5° Y 43'15			<i>S</i> ,		-
inferior conj	519 Mar 22 j 18:04	3° Υ 15'57	7°24'53	superior conj	521 Aug 09 j 13:03	17° Ω 54'42	1°21'18
minimum elong	519 Mar 23 j 02:35	3° Υ 02'28	7°23'36	minimum elong	521 Aug 09 j 08:12	17° Ω 39'38	
min. Earth dist.	519 Mar 22 j 15:48	3° Υ 19'32	0.28609 AU	3	521 Aug 19 j 06:19	0° m/y	
morning rise	519 Mar 27 j 09:51	0° Υ 23'11			521 Sep 12 j 07:42	0∘ ⊽	
<i>U</i> -	J ·				1 J · · · ·		

evening rise	521 Sep 15 j 19:34	4° ≏ 21'50			524 Apr 30 j 18:11	$0^{\circ}\Upsilon$	
	521 Oct 06 j 08:10	0° M			524 May 26 j 20:00	9° 8	
desc. node	521 Oct 14 j 05:58	9° ™ 52'32			524 Jun 21 j 06:35	Π $^{\circ}0$	
	521 Oct 30 j 08:59	0° ∡ ¹			524 Jul 16 j 05:48	0ංම	
	521 Nov 23 j 11:15	8°0		asc. node	524 Jul 22 j 04:17	7° © 12'38	
	521 Dec 17 j 17:00	0° ≈			524 Aug 09 j 19:12	0°N	
	522 Jan 11 j 06:33	0° ₩			524 Nag 03 j 19:12 524 Sep 03 j 00:30	0° m)	
aga mada		28°) 40'47		marning act		-	
asc. node	522 Feb 04 j 09:07			morning set	524 Sep 11 j 06:31	10° m 17'34	
	522 Feb 05 j 12:18	0° Υ			524 Sep 27 j 00:17	0∘ ⊽	
	522 Mar 04 j 03:53	0°8		max. Earth dist.	524 Oct 18 j 11:13	26° £ 57'14	1.71235 AU
evening max el	522 Mar 22 j 03:41	18° 8 32'06	45°40'27				
	522 Apr 03 j 15:09	Π $\circ 0$		superior conj	524 Oct 19 j 22:24	28° ≏ 47'52	0°48'50
greatest brilliancy	522 Apr 28 j 23:04	16° Ⅲ 34′24	-4.7m	minimum elong	524 Oct 20 j 08:35	29° ₽ 19'51	0°48'24
retrograde	522 May 09 j 22:49	18° Ⅱ 44'20			524 Oct 20 j 21:21	0° M ₊	
evening set	522 May 24 j 23:17	14° Ⅲ 22'53		desc. node	524 Nov 10 j 17:52	26°ML13'57	
desc. node	522 May 26 j 22:32	13° Ⅱ 15'49			524 Nov 13 j 17:45	0° ∡ ¹	
inferior conj	522 May 31 j 09:45	10° Ⅲ 31'18	-1°02'41	evening rise	524 Nov 30 j 04:18	20° ∡ ³39'48	
minimum elong	522 May 31 j 07:27	10° Ⅲ 34'54		evening 1150	524 Dec 07 j 14:45	0°ਰ ਹਾ	
min. Earth dist.	522 May 31 j 11:42	10° Ⅲ 28'15			524 Dec 31 j 13:27	0°≈	
		6° Ц 46'00	0.28977 AU		-	0 ≈ 0° ∺	
morning rise	522 Jun 06 j 15:40				525 Jan 24 j 15:41		
direct	522 Jun 22 j 02:36	2° Ⅱ 13'08			525 Feb 18 j 00:24	0°Υ	
greatest brilliancy	522 Jul 02 j 13:19	4° Ⅱ 10'50	-4.7m	asc. node	525 Mar 03 j 21:00	16° Y 50′26	
	522 Aug 07 j 16:08	0 \circ			525 Mar 14 j 19:43	$0^{\circ}S$	
morning max el	522 Aug 10 j 03:35	2° 5 22'08	45°58'23		525 Apr 09 j 07:41	Π $^{\circ}0$	
	522 Sep 05 j 14:39	$0^{\circ}\Omega$			525 May 06 j 00:34	0ಂಣ	
asc. node	522 Sep 17 j 01:53	12° Ω 55'14		evening max el	525 May 31 j 16:38	26°523'21	45°22'08
	522 Oct 01 j 17:56	0° m y		-	525 Jun 04 j 12:49	$0^{\circ}\Omega$	
	522 Oct 26 j 15:56	0∘ <u>v</u>		desc. node	525 Jun 23 j 10:33	15° Ω 36'58	
	522 Nov 19 j 23:42	0° M		greatest brilliancy	525 Jul 09 j 09:40	24° Ω 13'21	-4.7m
	522 Dec 14 j 01:24	0°× ت ا		retrograde	525 Jul 19 j 07:28	25° Ω 59'43	1.7111
desc. node	,	29° ∡ ⁷ 28'33		-	-	20° Ω 19'12	
desc. node	523 Jan 06 j 15:29			evening set	525 Aug 05 j 18:51		0021140
	523 Jan 07 j 01:33	600 ප		inferior conj	525 Aug 09 j 14:38	18° Ω 00'22	
	523 Jan 31 j 02:19	0° ≈		minimum elong	525 Aug 09 j 08:57	18° Ω 09'06	
morning set	523 Feb 13 j 01:04	16° ≈ 07'51		min. Earth dist.	525 Aug 10 j 01:21		0.28441 AU
	523 Feb 24 j 04:45	0° ∀		morning rise	525 Aug 12 j 22:48	15° Ω 57'52	
	523 Mar 20 j 09:29	0 ° Υ		direct	525 Aug 30 j 23:50	9° Ω 50′28	
				greatest brilliancy	525 Sep 11 j 00:56	12° Ω 04'03	-4.8m
superior conj	523 Mar 24 j 05:17	4° Y 43'43	-1°12'39		525 Oct 07 j 11:08	0° m)	
minimum elong	523 Mar 24 j 14:18	5° Y 11'35	1°12'25	asc. node	525 Oct 14 j 13:43	6° Mp 35′47	
max. Earth dist.	523 Mar 27 j 08:14	8° Y 35'17	1.72935 AU	morning max el	525 Oct 20 j 07:23	12° Mp 15'20	46°40'18
	523 Apr 13 j 16:56	0°B			525 Nov 06 j 00:38	0∘ ⊽	
asc. node	523 Apr 29 j 18:46	19° 8 45'43			525 Dec 02 j 03:46	0° M .	
evening rise	523 Apr 30 j 23:32	21° 8 14'02			525 Dec 27 j 04:01	0° ∡ ¹	
o ronning rise	523 May 08 j 03:01	0°Ⅱ			526 Jan 20 j 18:07	0° ਰ	
	523 Jun 01 j 15:32	0°æ		desc. node	526 Feb 03 j 03:18	16° る 25'09	
		0° U		desc. Hode	-		
	523 Jun 26 j 06:42				526 Feb 14 j 04:41	0° ≈	
	523 Jul 21 j 01:45	0° m/			526 Mar 10 j 14:31	0°) €	
	523 Aug 15 j 03:13	0∘ ⊽			526 Apr 04 j 00:47	0°Υ	
desc. node	523 Aug 19 j 08:09	4° ≙ 59'20		morning set	526 Apr 25 j 08:50	26° Y 10′27	
	523 Sep 09 j 15:28	0° M			526 Apr 28 j 11:42	9° 8	
	523 Oct 06 j 00:17	0° ∡			526 May 22 j 22:39	Π $^{\circ}0$	
evening max el	523 Oct 28 j 00:21	23° х 26′44	47°20'34	asc. node	526 May 27 j 06:43	5° Ⅱ 19'22	
	523 Nov 03 j 15:23	ರ∘ರ		max. Earth dist.	526 May 30 j 18:40	9° Ⅱ 37'06	1.73641 AU
greatest brilliancy	523 Dec 07 j 14:06	24° る 58'06	-4.9m				
asc. node	523 Dec 10 j 11:24	25° る 55'16		superior conj	526 May 31 j 23:55	11° Ⅱ 06'55	0°11'11
retrograde	523 Dec 17 j 21:17	26° る 59'38		minimum elong	526 May 31 j 21:39	10° I 59'59	
evening set	524 Jan 02 j 09:07	22° る 12'29		behind sun begin	526 May 31 j 05:28	10° Ⅱ 10'18	
min. Earth dist.	524 Jan 06 j 14:54	19° る 39'30	0.26943 AU	behind sun end	526 Jun 01 j 13:50	11° II 49'40	
	524 Jan 07 j 13:58	19 3 3930		ociniiu suli ciiu	-	11 ப 4940 0°9	
inferior conj			6°26'41	ovenina rias	526 Jun 16 j 08:44		
minimum elong	524 Jan 07 j 03:47	19° ろ 19'28	6°24'29	evening rise	526 Jul 06 j 19:10	25° © 09'35	
morning rise	524 Jan 11 j 22:57	16°る24'29			526 Jul 10 j 17:26	0° N	
direct	524 Jan 28 j 01:07	11° ろ 20'31			526 Aug 04 j 01:17	0° m	
greatest brilliancy	524 Feb 06 j 00:52		-4.9m		526 Aug 28 j 09:32	0∘ ⊽	
	524 Mar 03 j 19:50	0° ≈		desc. node	526 Sep 15 j 20:05	22° ≏ 39'49	
morning max el	524 Mar 17 j 14:28	12° ≈ 42'47	46°18'03		526 Sep 21 j 19:38	0°M₊	
desc. node	524 Mar 31 j 00:54	26° ≈ 20'51			526 Oct 16 j 09:02	0° ∡ ¹	
	524 Apr 03 j 12:04	0° ∀			526 Nov 10 j 04:42	0°ರ	
	- 2				ž.		

	526 D 05 : 14.27	00			500 M 10 : 02 02	۰٠	
	526 Dec 05 j 14:37	0° ≈ 0° ∀			529 May 12 j 23:23	0° Ⅱ	
asc. node	527 Jan 01 j 13:42 527 Jan 06 j 23:20	0° X 5° ¥ 36'09		asc. node	529 Jun 06 j 16:21 529 Jun 23 j 18:31	0°П 20°П52'27	
evening max el	527 Jan 00 j 23:20 527 Jan 07 j 14:40	6° ₩ 15'07	16053113	asc. node	529 Jul	20 11 3227	
evening max er	527 Feb 03 j 12:30	0° Υ	40 33 43	morning set	529 Jul 01 j 20:32	0° 9 47'19	
greatest brilliancy	527 Feb 16 j 13:34	7° Υ 11'52	-4.8m	morning set	529 Jul 25 j 13:16	0°Ω	
retrograde	527 Feb 27 j 04:19	9° Υ 19'22	-4.0111	max. Earth dist.	529 Aug 03 j 11:41	11° Ω 04'05	1.72710 AU
evening set	527 Mar 16 j 13:58	3°Υ25'36		max. Earth dist.	32) Aug 03 j 11.41	11 860403	1.72/10 AC
inferior conj	527 Mar 20 j 09:55	1° Υ '02'17	7°35'07	superior conj	529 Aug 07 j 06:33	15° Ω 45'56	1°20'20
minimum elong	527 Mar 20 j 18:04	0° Y 49'23	7°33'59	minimum elong	529 Aug 07 j 01:08	15° Ω 29'09	1°20'16
min. Earth dist.	527 Mar 20 j 06:33	1° Υ '07'37	0.28575 AU	minimum crong	529 Aug 18 j 17:21	0° m)	1 20 10
min. Barur dige.	527 Mar 22 j 01:26	30° Ŗ ₩	0.20070110		529 Sep 11 j 18:53	0∘ ⊽	
morning rise	527 Mar 24 j 22:24	28°) 14'41		evening rise	529 Sep 13 j 10:01	2° ჲ 02'06	
direct	527 Apr 10 j 15:07	22°) 50'46		<i>y</i>	529 Oct 05 j 19:33	0° M	
greatest brilliancy	527 Apr 20 j 06:38	24°) 32′58	-4.7m	desc. node	529 Oct 13 j 08:06	9° M ₊23′24	
desc. node	527 Apr 28 j 12:41	28° ¥ 15'55			529 Oct 29 j 20:36	0° ∡ ¹	
	527 May 01 j 11:58	0° Υ			529 Nov 22 j 23:10	0°ಕ	
morning max el	527 May 29 j 12:33	22° Ƴ 48'55	45°46'08		529 Dec 17 j 05:19	0° ≈	
C	527 Jun 05 j 20:53	0°8			530 Jan 10 j 19:33	0° ∀	
	527 Jul 04 j 03:44	$\Pi^{\circ}0$		asc. node	530 Feb 03 j 11:03	28° ₩ 04'56	
	527 Jul 30 j 11:47	0°99			530 Feb 05 j 02:39	0° Υ	
asc. node	527 Aug 19 j 16:06	23°952'03			530 Mar 03 j 21:26	0° ႘	
	527 Aug 24 j 18:36	$0^{\circ}\Omega$		evening max el	530 Mar 19 j 19:04	16° 8 18'34	45°42'19
	527 Sep 18 j 08:53	0° m)			530 Apr 03 j 21:22	Π $^{\circ}0$	
	527 Oct 12 j 12:37	0∘ 亚		greatest brilliancy	530 Apr 26 j 16:22	14° Ⅲ 26′18	-4.7m
	527 Nov 05 j 10:46	0° M .		retrograde	530 May 07 j 14:46	16° Ⅲ 35′26	
morning set	527 Nov 25 j 07:24	24°M59'26		evening set	530 May 22 j 16:10	12° Ⅱ 13'34	
	527 Nov 29 j 06:55	0° ∡ ¹		desc. node	530 May 26 j 00:39	10° Ⅱ 16'44	
desc. node	527 Dec 09 j 05:41	12° ∡ ³31′22		inferior conj	530 May 29 j 02:16	8° Ⅲ 22'22	-0°43'09
	527 Dec 23 j 03:11	0°ರ		minimum elong	530 May 29 j 00:41	8° Ⅲ 24'51	0°42'41
				min. Earth dist.	530 May 29 j 04:40	8° Ⅱ 18'37	0.28975 AU
superior conj	528 Jan 06 j 05:22	17° ට 41'52	-1°00'09	morning rise	530 Jun 04 j 09:10	4° Ⅲ 35'15	
minimum elong	528 Jan 05 j 17:27	17° る 04'29	0°59'44	direct	530 Jun 19 j 18:47	0° Ⅱ 04'16	
max. Earth dist.	528 Jan 09 j 13:07	21° る 52'03	1.71364 AU	greatest brilliancy	530 Jun 30 j 05:29	2° 耳 01'31	-4.7m
	528 Jan 16 j 00:48	0° ≈			530 Aug 07 j 15:02	0ಂಣ	
	528 Feb 09 j 00:52	0° ∀		morning max el	530 Aug 07 j 18:01	0° © 07'12	45°57'13
evening rise	528 Feb 16 j 01:09	8°) 43′53			530 Sep 05 j 06:39	$0 {\circ} \Omega$	
	528 Mar 04 j 04:40	0° Y		asc. node	530 Sep 16 j 04:03	12° Ω 19′08	
	528 Mar 28 j 13:38	9° 8			530 Oct 01 j 07:39	0° m y	
asc. node	528 Mar 31 j 09:00	3° 8 26'05			530 Oct 26 j 04:38	0∘ 亚	
	528 Apr 22 j 05:07	Π $^{\circ}0$			530 Nov 19 j 11:50	0° M	
	528 May 17 j 04:56	0 \circ \odot			530 Dec 13 j 13:13	0° ∡ ¹	
	528 Jun 11 j 16:37	$0 {\circ} \Omega$		desc. node	531 Jan 05 j 17:31	28° ₹ 58'44	
	528 Jul 08 j 00:21	0° т р			531 Jan 06 j 13:08	0°ರ	
desc. node	528 Jul 20 j 22:16	14° m 08'39			531 Jan 30 j 13:42	0° ≈	
	528 Aug 05 j 02:14	0∘ ಹ		morning set	531 Feb 10 j 12:47	13° ≈ 39'50	
evening max el	528 Aug 12 j 09:30	7° ≏ 13'44	46°17'47		531 Feb 23 j 15:57	0° ∀	
	528 Sep 08 j 16:20	0° M ₊			531 Mar 19 j 20:35	0° Y	
greatest brilliancy	528 Sep 21 j 18:29	6°M32′22	-4.9m			••	
retrograde	528 Sep 30 j 22:12	8°M05'05		superior conj	531 Mar 21 j 20:14	2° Y 27'21	
evening set	528 Oct 16 j 11:32	3°M24'14		minimum elong	531 Mar 22 j 04:56	2° Y 54'14	
inferior conj	528 Oct 21 j 12:42	0°M25'42		max. Earth dist.	531 Mar 25 j 01:55		1.72884 AU
minimum elong	528 Oct 21 j 22:30	0°M10'49			531 Apr 13 j 03:59	0° 8	
min. Earth dist.	528 Oct 22 j 03:33		0.26707 AU	evening rise	531 Apr 28 j 16:45	19° 8 05'33	
	528 Oct 22 j 05:38	30° ₹ Ω		asc. node	531 Apr 28 j 20:56	19° 8 18'21	
morning rise	528 Oct 27 j 09:04	27° £ 00'40			531 May 07 j 14:08	0°II	
direct	528 Nov 11 j 03:00	22° £ 43'17			531 Jun 01 j 02:50	0° ೦	
asc. node	528 Nov 11 j 01:33	22° ♀ 43'18 24° ♀ 54'54	-4.9m		531 Jun 25 j 18:18	0° Ω 0° m)	
greatest brilliancy	528 Nov 21 j 20:25	24° ≥≥ 54°54 0° M ₅	-4.7111		531 Jul 20 j 13:55	0 ்⊽ ∩ூilì	
morning max el	528 Dec 01 j 13:26	0°11น 26°11น12'48	46°54'50	desc. node	531 Aug 14 j 16:20	0° 22 4° Ω 25'53	
morning max er	528 Dec 31 j 20:45	26°11612'48 0° √	1 0 54 50	uese. Houe	531 Aug 18 j 10:10	4° ≥≥ 23°33	
	529 Jan 04 j 13:15 529 Jan 31 j 22:21	0°X' 0° ろ			531 Sep 09 j 06:12 531 Oct 05 j 18:11	0°แน 0° ҂ 7	
	529 Jan 31 J 22:21 529 Feb 26 j 19:19	0° ©		evening max el	531 Oct 05 j 18:11 531 Oct 25 j 13:15	0° x ′ 20° x 758′54	47°19'34
desc. node	529 Feb 26 j 19:19 529 Mar 02 j 15:09	0°≈ 4°≈30'27		evening max ei	531 Oct 25 j 15:15 531 Nov 03 j 18:31	20° メ ′58'54	1/ 1734
dese. Houe	529 Mar 24 j 02:22	4 ≈3027 0° ∺		greatest brilliancy	531 Nov 03 j 18.31 531 Dec 05 j 04:43	0 8 22° る 30'59	-4.9m
	529 Mai 24 J 02:22 529 Apr 18 j 02:50	0 Υ 0° Υ		asc. node	531 Dec 03 j 04.43 531 Dec 09 j 13:29	22 3 3039 23° る 50'30	·¬./III
	527 ripi 10 J 02.50	V 1		ubc. 11000	551 DOC 07 J 15.29	25 05050	

retrograde	531 Dec 15 j 10:08	24° る 31'21		minimum elong	534 May 29 j 16:24	8° II 56'55	0°07'58
evening set	531 Dec 30 j 18:56	19°る49'24		behind sun begin	534 May 28 j 20:50	7° П 56'48	0 07 30
min. Earth dist.	532 Jan 04 j 04:43	17°る11'10	0.26885 AU	behind sun end	534 May 30 j 11:59	9° I 57'03	
inferior conj	532 Jan 05 j 02:59	16° පි 36'36	6°10'29	o o mina o am o ma	534 Jun 15 j 19:34	0°e	
minimum elong	532 Jan 04 j 16:46	16° る 52'29	6°08'10	evening rise	534 Jul 04 j 14:02	23° © 06'12	
morning rise	532 Jan 09 j 15:02	13° る 53'10			534 Jul 10 j 04:23	0°N	
direct	532 Jan 25 j 13:00	8° る 54'09			534 Aug 03 j 12:28	0° m/y	
greatest brilliancy	532 Feb 03 j 14:57	10°る27'20	-4.9m		534 Aug 27 j 21:04	0∘ <u>⊽</u>	
· ·	532 Mar 04 j 02:40	0° ≈		desc. node	534 Sep 14 j 22:15	22° ₽ 10′09	
morning max el	532 Mar 15 j 03:15	10° ≈ 19'10	46°19'41		534 Sep 21 j 07:37	0° M	
desc. node	532 Mar 30 j 03:06	25° ≈ 36'36			534 Oct 15 j 21:39	0° ∡ ¹	
	532 Apr 03 j 06:18	0° ∀			534 Nov 09 j 18:18	ರ°0	
	532 Apr 30 j 08:48	0° Υ			534 Dec 05 j 06:06	0° ≈	
	532 May 26 j 08:58	0°8			535 Jan 01 j 09:51	0° ∀	
	532 Jun 20 j 18:38	$\Pi^{\circ}0$		evening max el	535 Jan 05 j 06:43	3°) 58′54	46°55'56
	532 Jul 15 j 17:20	0° ©		asc. node	535 Jan 06 j 01:15	4°) 45′51	
asc. node	532 Jul 21 j 06:17	6°\$43'54			535 Feb 04 j 13:46	0° Υ	
	532 Aug 09 j 06:25	$0^{\circ}\Omega$		greatest brilliancy	535 Feb 14 j 05:13	4° Ƴ 56'51	-4.8m
	532 Sep 02 j 11:35	0° m)		retrograde	535 Feb 24 j 20:55	7° Ƴ 04'57	
morning set	532 Sep 08 j 21:47	8° Mp 00'43		evening set	535 Mar 14 j 08:14	1° Y 07'31	
	532 Sep 26 j 11:22	0∘ 亚			535 Mar 16 j 03:57	30° ₹	
max. Earth dist.	532 Oct 15 j 22:13	24° ≙ 25'51	1.71272 AU	inferior conj	535 Mar 18 j 01:38	28°) 47′57	7°44'47
				minimum elong	535 Mar 18 j 09:22	28°) 35′45	7°43'48
superior conj	532 Oct 17 j 10:36	26° ≙ 20'16	0°51'51	min. Earth dist.	535 Mar 17 j 20:59	28° ¥ 55′19	0.28541 AU
minimum elong	532 Oct 17 j 21:01	26° ≙ 52'59	0°51'26	morning rise	535 Mar 22 j 10:46	26°) €05'30	
	532 Oct 20 j 08:30	0° M .		direct	535 Apr 08 j 06:50	20°) 37′16	
desc. node	532 Nov 09 j 19:59	25°M45'16		greatest brilliancy	535 Apr 17 j 20:04	22°) 18′03	-4.7m
	532 Nov 13 j 05:01	0° ∡ ¹		desc. node	535 Apr 27 j 14:47	26°) 52'34	
evening rise	532 Nov 27 j 14:15	18° ∡ ¹04'50			535 May 02 j 13:16	0° Υ	
	532 Dec 07 j 02:06	8°0		morning max el	535 May 27 j 04:48	20° Y 39'14	45°46'29
	532 Dec 31 j 00:54	0° ≈			535 Jun 05 j 16:40	9° 8	
	533 Jan 24 j 03:18	0°) €			535 Jul 03 j 18:36	$\Pi^{\circ}0$	
	533 Feb 17 j 12:19	0° Y			535 Jul 30 j 00:42	0 \circ \odot	
asc. node	533 Mar 02 j 23:07	16° Ƴ 20′05		asc. node	535 Aug 18 j 18:12	23° 5 21'58	
	533 Mar 14 j 08:13	9° 8			535 Aug 24 j 06:36	$0^{\circ}\Omega$	
	533 Apr 08 j 21:26	Π $^{\circ}0$			535 Sep 17 j 20:24	0° m)	
	533 May 05 j 17:05	$0 \circ \mathfrak{S}$			535 Oct 11 j 23:55	0∘ ⊽	
evening max el	533 May 29 j 07:48	24° © 10'20	45°21'32		535 Nov 04 j 21:56	0° M	
	533 Jun 04 j 14:11	$0^{\circ}\Omega$		morning set	535 Nov 22 j 18:12	22°M27'31	
desc. node	533 Jun 22 j 12:33	14° Ω 23'54			535 Nov 28 j 17:58	0°⊀	
greatest brilliancy	533 Jul 06 j 22:05	21° Q 57'13	-4.7m	desc. node	535 Dec 08 j 07:42	12° ∡ 02'57	
retrograde	533 Jul 16 j 22:42	23° Ω 45'47			535 Dec 22 j 14:10	0°ರ	
evening set	533 Aug 03 j 06:32	18° Ω 09'13					
inferior conj	533 Aug 07 j 05:37	15° Ω 45'31	-8°15'04	superior conj	536 Jan 03 j 15:26	15° る 08'25	-0°57'16
minimum elong	533 Aug 06 j 23:17	15° Ω 55'17	8°14'29	minimum elong	536 Jan 03 j 03:36	14° පි 31'16	0°56'50
min. Earth dist.	533 Aug 07 j 15:15	15° Ω 30'41	0.28483 AU	max. Earth dist.	536 Jan 07 j 00:41	19° る 23'22	1.71325 AU
morning rise	533 Aug 10 j 15:48	13° Q 40'10			536 Jan 15 j 11:45	0° ≈	
direct	533 Aug 28 j 15:41	7° Ω 34'59			536 Feb 08 j 11:48	0° ℋ	
greatest brilliancy	533 Sep 08 j 15:53	9° Ω 48'09	-4.8m	evening rise	536 Feb 13 j 13:21	6° ∺ 18'31	
	533 Oct 07 j 15:13	0° m y			536 Mar 03 j 15:39	0° Y	
asc. node	533 Oct 13 j 15:50	5° m 42'13			536 Mar 28 j 00:45	0°B	
morning max el	533 Oct 17 j 22:55	9° m ,57'42	46°39'03	asc. node	536 Mar 30 j 11:06	2° 8 58'29	
	533 Nov 05 j 18:11	0∘ ಹ			536 Apr 21 j 16:33	Π°	
	533 Dec 01 j 18:18	0° M .			536 May 16 j 16:59	0ං ව	
	533 Dec 26 j 17:12	0° ∡ ¹			536 Jun 11 j 05:50	$0 {\circ} \Omega$	
	534 Jan 20 j 06:30	0° ප			536 Jul 07 j 15:53	0° m)	
desc. node	534 Feb 02 j 05:20	15° る 54'14		desc. node	536 Jul 20 j 00:19	13° m 27'29	
	534 Feb 13 j 16:33	0° ≈			536 Aug 04 j 23:34	0∘ ⊽	
	534 Mar 10 j 01:59	0° ∀		evening max el	536 Aug 09 j 22:53	4° £ 52'56	46°15'00
	534 Apr 03 j 11:57	0° Υ			536 Sep 10 j 04:10	0° M	
morning set	534 Apr 23 j 02:00	24° Y ′02'11		greatest brilliancy	536 Sep 19 j 07:22	4° IL 07'04	-4.8m
	534 Apr 27 j 22:39	0°₽		retrograde	536 Sep 28 j 09:46	5°M38′28	
	534 May 22 j 09:29	0°II		evening set	536 Oct 14 j 02:58	0°M53'39	
asc. node	534 May 26 j 08:42	4° Ⅱ 52'12			536 Oct 15 j 16:31	30° ₹ Ω	
max. Earth dist.	534 May 28 j 18:06	7° Ⅱ 48'25	1.73646 AU	inferior conj	536 Oct 19 j 01:05	27° ≙ 59'04	
				minimum elong	536 Oct 19 j 11:12	27° ≏ 43'40	
superior conj	534 May 29 j 18:03	9° Ⅱ 01'58	0°08'03	min. Earth dist.	536 Oct 19 j 17:03	27° ≏ 34'47	0.26755 AU

morning rise	536 Oct 24 j 19:03	24° ₽ 36'49		evening rise	539 Apr 26 j 10:12	16° 8 59'11	
direct	536 Nov 08 j 15:55	20° ♀ 15'57		asc. node	539 Apr 27 j 22:56	18° 8 51'55	
asc. node	536 Nov 10 j 03:34	20° ₽ 18'37			539 May 07 j 00:48	$\Pi^{\circ}0$	
greatest brilliancy	536 Nov 19 j 10:28	22° ≏ 28'08	-4.9m		539 May 31 j 13:41	0ಂತಾ	
greatest oriniancy	536 Dec 02 j 17:34	0° M	1.7111		539 Jun 25 j 05:32	$0^{\circ}\Omega$	
	J		16055125				
morning max el	536 Dec 29 j 09:13	23°M44'38	46°55'25		539 Jul 20 j 01:46	0° m	
	537 Jan 04 j 10:18	0° ∡ ¹			539 Aug 14 j 05:10	0₀ ಹ	
	537 Jan 31 j 14:07	0°ಕ		desc. node	539 Aug 17 j 12:20	3° ≏ 53'51	
	537 Feb 26 j 08:53	0° ≈			539 Sep 08 j 20:43	0° M $_{\circ}$	
desc. node	537 Mar 01 j 17:22	3° ≈ 57'36			539 Oct 05 j 12:04	0° ∡ ¹	
	537 Mar 23 j 14:44	0° ∀		evening max el	539 Oct 23 j 02:16	18° ∡ ³32'44	47°18'34
	537 Apr 17 j 14:29	0° Υ		Č	539 Nov 03 j 22:48	0°⋜	
	537 May 12 j 10:32	0°8		greatest brilliancy	539 Dec 02 j 18:40	20° る 04'07	-4.9m
		0°II		asc. node		20 3 0407 21° 3 41'35	4.7111
1	537 Jun 06 j 03:12				539 Dec 08 j 15:28		
asc. node	537 Jun 22 j 20:31	20° I I25'43		retrograde	539 Dec 12 j 23:19	22°る04'12	
morning set	537 Jun 29 j 14:36	28° Ⅱ 42'37		evening set	539 Dec 28 j 04:49	17° る 26'46	
	537 Jun 30 j 15:49	0 \circ		min. Earth dist.	540 Jan 01 j 18:13	14° る 43'54	0.26832 AU
	537 Jul 24 j 23:55	$0^{\circ}\Omega$		inferior conj	540 Jan 02 j 15:55	14° る 10'21	5°53'29
max. Earth dist.	537 Aug 01 j 04:23	8° Ω 54'05	1.72764 AU	minimum elong	540 Jan 02 j 05:45	14° る 26'05	5°51'03
				morning rise	540 Jan 07 j 07:06	11° ට 22'50	
superior conj	537 Aug 05 j 00:03	13° Ω 38'17	1°19'15	direct	540 Jan 23 j 01:08	6° る 28'24	
minimum elong	537 Aug 04 j 18:08	13° Ω 19'55		greatest brilliancy	540 Feb 01 i 04:40	8° ප 03'09	-4.9m
minimum clong	537 Aug 18 j 04:04		1 1710	greatest orimancy	,	0°≈	-4.7111
	• •	0° Mp			540 Mar 04 j 06:58		46001107
evening rise	537 Sep 11 j 00:40	29° m 44'08		morning max el	540 Mar 12 j 17:04	7°≈59'02	46°21'27
	537 Sep 11 j 05:45	0∘ ⊽		desc. node	540 Mar 29 j 05:05	24°≈53'28	
	537 Oct 05 j 06:37	0° M ₊			540 Apr 02 j 23:41	0° ℋ	
desc. node	537 Oct 12 j 10:09	8°M55'01			540 Apr 29 j 22:48	0 ° Υ	
	537 Oct 29 j 07:56	0° ∡ ¹			540 May 25 j 21:23	8°	
	537 Nov 22 j 10:48	5°0			540 Jun 20 j 06:12	$\Pi^{\circ}0$	
	537 Dec 16 j 17:22	0° ≈			540 Jul 15 j 04:26	0ಂತಾ	
	538 Jan 10 j 08:14	0° ₩		asc. node	540 Jul 20 j 08:25	6°9316'51	
aga mada		27° ∺ 30'58		asc. node		0°Ω	
asc. node	538 Feb 02 j 13:14				540 Aug 08 j 17:16		
	538 Feb 04 j 16:40	0° Ƴ			540 Sep 01 j 22:21	0° т р	
	538 Mar 03 j 14:49	0° 8		morning set	540 Sep 06 j 13:10	5° ™ 45'21	
evening max el	538 Mar 17 j 09:38	14° 8 04'29	45°44'14		540 Sep 25 j 22:09	0∘ ত	
	538 Apr 04 j 05:12	Π $^{\circ}0$		max. Earth dist.	540 Oct 13 j 09:47	21° ≏ 57'17	1.71306 AU
greatest brilliancy	538 Apr 24 j 09:31	12° Ⅲ 19'33	-4.7m				
retrograde	538 May 05 j 07:01	14° Ⅲ 28′27		superior conj	540 Oct 14 j 22:52	23° ჲ 53'52	0°54'46
evening set	538 May 20 j 09:19	10° 耳 05'33		minimum elong	540 Oct 15 j 09:26	24° ≏ 27'04	0°54'22
desc. node	538 May 25 j 02:39	7° Ⅱ 18'14		8	540 Oct 19 j 19:21	0°M	
inferior conj	538 May 26 j 18:58	6° Ⅱ 15'09	0023138	desc. node	540 Nov 08 j 21:58	25° M 17'09	
-				desc. Hode			
minimum elong	538 May 26 j 18:05	6°Ⅱ16'30			540 Nov 12 j 15:56	0° ∡ 7	
min. Earth dist.	538 May 26 j 21:52	6° Ⅱ 10'34	0.28977 AU	evening rise	540 Nov 25 j 00:11	15° ∡ 30'50	
morning rise	538 Jun 02 j 02:45	2° Ⅱ 26'30			540 Dec 06 j 13:08	0°₹	
	538 Jun 07 j 05:01	30° ₹8			540 Dec 30 j 12:03	0° ≈	
direct	538 Jun 17 j 10:48	27° 8 56'52			541 Jan 23 j 14:38	0° ∀	
greatest brilliancy	538 Jun 27 j 22:23	29° 8 54'26	-4.7m		541 Feb 16 j 23:58	0 ° $\mathbf{\Upsilon}$	
	538 Jun 28 j 04:32	$\Pi^{\circ}0$		asc. node	541 Mar 02 j 01:13	15° Ƴ 50′28	
morning max el	538 Aug 05 j 09:00		45°56'06		541 Mar 13 j 20:29	0°8	
Ü	538 Aug 07 j 12:36	0°9			541 Apr 08 j 10:56	0°II	
	538 Sep 04 j 22:00	$0^{\circ}\Omega$			541 May 05 j 09:27	0°©	
aga mada		11° Ω 44'20		avanina may al		22°500'42	45921102
asc. node	538 Sep 15 j 06:11			evening max el	541 May 26 j 23:47		43 21 03
	538 Sep 30 j 20:52	0° m ∕			541 Jun 04 j 16:21	$0^{\circ}\Omega$	
	538 Oct 25 j 16:51	0∘ 亚		desc. node	541 Jun 21 j 14:35	13° Ω 10′09	
	538 Nov 18 j 23:32	0° M ,		greatest brilliancy	541 Jul 04 j 10:48	19° Ω 43'10	-4.7m
	538 Dec 13 j 00:37	0° ∡ 7		retrograde	541 Jul 14 j 14:03	21° Ω 33'32	
desc. node	539 Jan 04 j 19:31	28° ₹ ¹29'58		evening set	541 Jul 31 j 18:24	16° Ω 01'15	
	539 Jan 06 j 00:19	0°రె		inferior conj	541 Aug 04 j 20:49	13° Ω 32′23	-8°07'42
	539 Jan 30 j 00:41	0° ≈		minimum elong	541 Aug 04 j 13:52		8°06'58
morning set	539 Feb 08 j 00:28	0 ~ 11° ≈ 12'48		min. Earth dist.	541 Aug 05 j 05:11	13° £1 3′03	0.28525 AU
morning set	-						0.20 <i>323 A</i> U
	539 Feb 23 j 02:45	0° ∀		morning rise	541 Aug 08 j 09:11	11° Ω 23'48	
		0.500		direct	541 Aug 26 j 08:02	5° Ω 21'25	
superior conj	539 Mar 19 j 11:23	0° Y 12'53		greatest brilliancy	541 Sep 06 j 06:27	7° Ω 33'09	-4.8m
minimum elong	539 Mar 19 j 19:42	0° Ƴ 38'33	1°15'54		541 Oct 07 j 17:23	O° Mp	
	539 Mar 19 j 07:14	0° Y		asc. node	541 Oct 12 j 17:48	4° ጦ 50'01	
max. Earth dist.	539 Mar 22 j 18:25	4° Υ 17'13	1.72829 AU	morning max el	541 Oct 15 j 14:34	7° m 41'12	46°37'34
				-		-	
	539 Apr 12 j 14:34	9° 8			541 Nov 05 j 11:11	0∘ ⊽	

	541 Dec 01 j 08:32	0° M			544 May 16 j 05:13	0ංම	
	541 Dec 26 j 06:06	0° ∡ ¹			544 Jun 10 j 19:17	$0^{\circ}\Omega$	
	542 Jan 19 j 18:38	0° ප			544 Jul 07 j 07:44	0° m ∕	
desc. node	542 Feb 01 j 07:32	15° る 24'35		desc. node	544 Jul 19 j 02:31	12° Mp 46'06	
	542 Feb 13 j 04:09	0° ≈			544 Aug 04 j 21:42	0∘ 亚	
	542 Mar 09 j 13:13	0° ∀		evening max el	544 Aug 07 j 11:27	2° ≏ 30'18	46°12'23
	542 Apr 02 j 22:55	$0^{\circ}\Upsilon$			544 Sep 12 j 10:18	0° M	
morning set	542 Apr 20 j 19:14	21° Y 54'39		greatest brilliancy	544 Sep 16 j 20:38	1° M 42'49	-4.8m
	542 Apr 27 j 09:25	9° 8		retrograde	544 Sep 25 j 21:18	3°M₁2'53	
	542 May 21 j 20:08	Π $^{\circ}0$			544 Oct 08 j 16:57	30° ₹ Ω	
asc. node	542 May 25 j 10:46	4° Ⅱ 25'54		evening set	544 Oct 11 j 18:37	28° ≙ 23'39	
max. Earth dist.	542 May 26 j 17:38	6° Ⅱ 00'38	1.73644 AU	inferior conj	544 Oct 16 j 13:44	25° ≏ 33'18	-5°37'57
				minimum elong	544 Oct 17 j 00:06	25° ≙ 17'31	5°35'23
superior conj	542 May 27 j 12:23	6° Ⅱ 58'14	0°04'56	min. Earth dist.	544 Oct 17 j 06:55	25° ≏ 07'07	0.26809 AU
minimum elong	542 May 27 j 11:23	6° Ⅱ 55'09	0°04'53	morning rise	544 Oct 22 j 05:05	22° ≏ 14'08	
behind sun begin	542 May 26 j 13:52	5° Ⅱ 49'04		direct	544 Nov 06 j 04:38	17° ≏ 49'08	
behind sun end	542 May 28 j 08:54	8° Ⅱ 01'15		asc. node	544 Nov 09 j 05:38	18° ≏ 00'10	
	542 Jun 15 j 06:11	$0 \circ \mathfrak{S}$		greatest brilliancy	544 Nov 17 j 01:12	20° ≏ 02'34	-4.9m
evening rise	542 Jul 02 j 09:12	21° © 04'31			544 Dec 03 j 14:07	0° M ₊	
	542 Jul 09 j 15:07	$0^{\circ}\Omega$		morning max el	544 Dec 26 j 21:35	21°M15'33	46°55'44
	542 Aug 02 j 23:27	0° m)			545 Jan 04 j 06:52	0°⊀	
	542 Aug 27 j 08:26	0∘ 亚			545 Jan 31 j 05:54	5°0	
desc. node	542 Sep 14 j 00:18	21° ≏ 40'30			545 Feb 25 j 22:37	0° ≈	
	542 Sep 20 j 19:30	0° M .		desc. node	545 Feb 28 j 19:23	3° ≈ 23′28	
	542 Oct 15 j 10:15	0° ∡ ¹			545 Mar 23 j 03:18	0°) €	
	542 Nov 09 j 07:59	0°ಕ			545 Apr 17 j 02:19	0 ° Υ	
	542 Dec 04 j 21:46	0° ≈			545 May 11 j 21:53	9° 8	
	543 Jan 01 j 06:39	0°) €			545 Jun 05 j 14:16	$\Pi^{\circ}0$	
evening max el	543 Jan 02 j 22:37	1°) 42′10	46°58'07	asc. node	545 Jun 21 j 22:40	19° Ⅱ 58'43	
asc. node	543 Jan 05 j 03:27	3° ¥ 55′26		morning set	545 Jun 27 j 08:34	26° Ⅱ 36'57	
	543 Feb 06 j 01:38	0° Y			545 Jun 30 j 02:44	0 \circ \odot	
greatest brilliancy	543 Feb 11 j 21:20	2° Ƴ 42'17	-4.8m		545 Jul 24 j 10:48	$0^{\circ}\Omega$	
retrograde	543 Feb 22 j 13:07	4° Ƴ 50′10		max. Earth dist.	545 Jul 29 j 22:38	6° Ω 48'08	1.72814 AU
	543 Mar 10 j 02:48	30° ₹ ₩					
evening set	543 Mar 12 j 02:22	28°) 49′28		superior conj	545 Aug 02 j 17:44	11° Ω 30'30	1°18'05
inferior conj	543 Mar 15 j 17:17	26°) 33′27	7°53'53	minimum elong	545 Aug 02 j 11:20	11° Ω 10′38	1°17'57
minimum elong	543 Mar 16 j 00:31	26° ∺ 21'59	7°53'01		545 Aug 17 j 15:00	0° m)	
min. Earth dist.	543 Mar 15 j 11:28	26° ¥ 42'38	0.28502 AU	evening rise	545 Sep 08 j 15:47	27° m 27'11	
morning rise	543 Mar 19 j 22:59	23° ¥ 56′00			545 Sep 10 j 16:48	0∘ ⊽	
direct	543 Apr 05 j 22:32	18° ¥ 23'42			545 Oct 04 j 17:52	0°M₊	
greatest brilliancy	543 Apr 15 j 09:26	20° ∺ 02'48	-4.7m	desc. node	545 Oct 11 j 12:09	8°M25'59	
desc. node	543 Apr 26 j 16:48	25° ∺ 31'42			545 Oct 28 j 19:26	0° ∡ ¹	
	543 May 03 j 07:52	0° Y			545 Nov 21 j 22:39	0°ರ	
morning max el	543 May 24 j 20:13	18° Y 27'32	45°46'59		545 Dec 16 j 05:40	0° ≈	
	543 Jun 05 j 11:49	0 \circ 8			546 Jan 09 j 21:18	0° ∀	
	543 Jul 03 j 09:13	$\Pi^{\circ}0$		asc. node	546 Feb 01 j 15:18	26° ¥ 55'14	
	543 Jul 29 j 13:28	0ංම			546 Feb 04 j 07:13	0° Υ	
asc. node	543 Aug 17 j 20:21	22° © 52'21			546 Mar 03 j 09:07	0° 8	
	543 Aug 23 j 18:27	0 $^{\circ}$ Ω		evening max el	546 Mar 14 j 23:54	11° 8 48'12	45°46'20
	543 Sep 17 j 07:49	0° m y			546 Apr 04 j 16:47	Π $^{\circ}$ 0	
	543 Oct 11 j 11:08	0∘ 亚		greatest brilliancy	546 Apr 22 j 02:04	10° Ⅱ 10′24	-4.7m
	543 Nov 04 j 09:04	0° M ₊		retrograde	546 May 02 j 23:26	12° Ⅱ 19'43	
morning set	543 Nov 20 j 04:50	19° M 54'57		evening set	546 May 18 j 02:24	7° Ⅱ 55'20	
	543 Nov 28 j 05:05	0° ∡ ¹		inferior conj	546 May 24 j 11:25	4° Ⅱ 06'01	
desc. node	543 Dec 07 j 09:48	11° ∡ ³34'37		minimum elong	546 May 24 j 11:16	4° Ⅱ 06'14	
	543 Dec 22 j 01:15	0° ප		transit middle	546 May 24 j 11:16	4° Ⅱ 06'14	0°03'52
	544.7 01:01.01	10070000	005444	transit begin	546 May 24 j 07:20	4° Ⅱ 12'25	
superior conj	544 Jan 01 j 01:01	12° る 33'03		transit end	546 May 24 j 15:13	4° Ⅱ 00'04	
minimum elong	543 Dec 31 j 13:21	11° る 56'27		desc. node	546 May 24 j 04:44	4° Ⅱ 16′29	0.20070 411
max. Earth dist.	544 Jan 04 j 09:02		1.71287 AU	min. Earth dist.	546 May 24 j 14:43	4° Ⅱ 00'50	0.28978 AU
	544 Jan 14 j 22:49	0° ≈		morning rise	546 May 30 j 20:00	0° Ⅱ 16'16	
	544 Feb 07 j 22:51	0° \ 3° \ 50140		4:	546 May 31 j 07:56	30°R 8	
evening rise	544 Feb 11 j 00:54	3° ¥ 50'40		direct	546 Jun 15 j 02:34	25° 8 47'27	4.7
	544 Mar 03 j 02:44	0°Υ •••		greatest brilliancy	546 Jun 25 j 15:02	27° 8 45'39	-4.7m
1	544 Mar 27 j 11:59	0°8			546 Jun 30 j 20:05	0°Ⅱ 25°Ⅱ42/51	45055100
asc. node	544 Mar 29 j 13:06	2° ႘ 30'09		morning max el	546 Aug 03 j 00:39	25° Ⅱ 42'51	45~55'09
	544 Apr 21 j 04:07	\mathfrak{I} 0°			546 Aug 07 j 09:51	0ං ව	

	546 S 04 : 12.21	0.0			540 M 05 : 02-27	000	
,	546 Sep 04 j 13:31	0° N			549 May 05 j 02:37	0°©	45020120
asc. node	546 Sep 14 j 08:06	11° Ω 08'08		evening max el	549 May 24 j 15:59	19° © 50'12	45°20'28
	546 Sep 30 j 10:18	0° m)			549 Jun 04 j 20:47	$0^{\circ}\Omega$	
	546 Oct 25 j 05:18	0∘ ⊽		desc. node	549 Jun 20 j 16:47	11° Ω 52'53	
	546 Nov 18 j 11:28	0° M -		greatest brilliancy	549 Jul 02 j 00:14	17° Ω 28'30	-4.7m
	546 Dec 12 j 12:14	0° ∡ ¹		retrograde	549 Jul 12 j 05:03	19° Ω 19'43	
desc. node	547 Jan 03 j 21:42	28° ₹ 01'03		evening set	549 Jul 29 j 06:10	13° Ω 52′13	
	547 Jan 05 j 11:44	0° ප		inferior conj	549 Aug 02 j 11:59	11° Ω 18′02	
	547 Jan 29 j 11:57	0° ≈		minimum elong	549 Aug 02 j 04:30	11° Ω 29'36	
morning set	547 Feb 05 j 11:55	8° ≈ 43'53		min. Earth dist.	549 Aug 02 j 19:24	11° Ω 06'34	0.28563 AU
	547 Feb 22 j 13:52	0° ∀		morning rise	549 Aug 06 j 02:39	9° Ω 05'47	
				direct	549 Aug 24 j 00:09	3° Ω 06'46	
superior conj	547 Mar 17 j 02:05	27° ¥ 55'41	-1°17'38	greatest brilliancy	549 Sep 03 j 20:48	5° Ω 16'41	-4.8m
minimum elong	547 Mar 17 j 09:55	28° 升 19'56	1°17'28		549 Oct 07 j 18:40	0° m	
	547 Mar 18 j 18:16	0 ° $\mathbf{\Upsilon}$		asc. node	549 Oct 11 j 19:59	3° m 58'08	
max. Earth dist.	547 Mar 20 j 08:59	1° Y 59'43	1.72779 AU	morning max el	549 Oct 13 j 05:20	5° Mp 21'33	46°36'02
	547 Apr 12 j 01:36	0°8			549 Nov 05 j 04:14	0∘ 亚	
evening rise	547 Apr 24 j 03:08	14° 8 49'57			549 Nov 30 j 22:56	0° M.	
asc. node	547 Apr 27 j 00:58	18° 8 24'18			549 Dec 25 j 19:14	0° ∡ ¹	
	547 May 06 j 11:53	$\Pi^{\circ}0$			550 Jan 19 j 06:59	0°ප	
	547 May 31 j 00:58	0°ම		desc. node	550 Jan 31 j 09:30	14° ප 53'32	
	547 Jun 24 j 17:12	$0^{\circ}\Omega$			550 Feb 12 j 15:57	0° ≈	
	547 Jul 19 j 14:05	0° m)			550 Mar 09 j 00:39	0° ∀	
	547 Aug 13 j 18:32	0∘ <u>⊽</u>			550 Apr 02 j 10:04	$_0$ $^{\circ}$ $^{\circ}$	
desc. node	547 Aug 16 j 14:20	3° ₽ 19'56		morning set	550 Apr 18 j 12:39	19° Ƴ 47'02	
	547 Sep 08 j 11:50	0° M		<i>5 8 1 1 1 1 1 1 1 1 1 1</i>	550 Apr 26 j 20:23	0°8	
	547 Oct 05 j 06:47	0° ∡¹			550 May 21 j 07:02	0°II	
evening max el	547 Oct 20 j 16:16	16° ∡ ¹08'26	47°17'44	max. Earth dist.	550 May 24 j 16:11	4° ∏ 09'04	1.73645 AU
e vennig max er	547 Nov 04 j 05:21	0° 궁	1, 1, 11	asc. node	550 May 24 j 12:55	3° ∏ 59'04	1.75015716
greatest brilliancy	547 Nov 30 j 08:15	17° る 36'27	-4.9m	use. Houe	330 May 21 j 12.33	3 12370.	
asc. node	547 Dec 07 j 17:38	17 3 3027	4.7111	superior conj	550 May 25 j 06:46	4° Ⅱ 53'51	0°01'47
retrograde	547 Dec 07 j 17:38 547 Dec 10 j 13:11	19° ප 36'48		minimum elong	550 May 25 j 06:24	4° ∏ 52'42	
evening set	547 Dec 10 j 15:11 547 Dec 25 j 15:04	15° る 03'35		behind sun begin	550 May 24 j 08:04	3° ∏ 44'09	0 01 40
min. Earth dist.	547 Dec 23 j 13:04 547 Dec 30 j 07:33	13 さ 03 33	0.26778 AU	behind sun end	550 May 26 j 04:44	6° Ⅱ 01'16	
		12 3 1043	5°35'43	bennia sun ena		0.20 0.101	
inferior conj	547 Dec 31 j 04:58 547 Dec 30 j 18:56	11° ろ 59'11	5°33'14	avanina risa	550 Jun 14 j 17:06	0 55 19°5501'27	
minimum elong	·		5-35-14	evening rise	550 Jun 30 j 04:14		
morning rise	548 Jan 04 j 23:17	8°る52'20			550 Jul 09 j 02:10	Ω° 0	
direct	548 Jan 20 j 13:56	4°る02'28	4.0		550 Aug 02 j 10:45	0° m	
greatest brilliancy	548 Jan 29 j 17:57	5° る 38'07	-4.9m		550 Aug 26 j 20:07	0° ⊽	
	548 Mar 04 j 09:52	0° ≈	4.600015.4	desc. node	550 Sep 13 j 02:17	21° ≏ 09'48	
morning max el	548 Mar 10 j 07:39	5°≈40'02	46°22'54		550 Sep 20 j 07:42	0°M	
desc. node	548 Mar 28 j 07:09	24°≈10'10			550 Oct 14 j 23:11	0° ⊼	
	548 Apr 02 j 17:03	0° ∀			550 Nov 08 j 22:03	ರ್∘ರ	
	548 Apr 29 j 13:05	0° Υ			550 Dec 04 j 13:58	0° ≈	
	548 May 25 j 10:12	0°B		evening max el	550 Dec 31 j 14:00	29° ≈ 23'15	47°00'18
	548 Jun 19 j 18:11	0°Щ			551 Jan 01 j 04:28	0° ∀	
	548 Jul 14 j 15:55	0ංම		asc. node	551 Jan 04 j 05:33	3°) €03'11	
asc. node	548 Jul 19 j 10:31	5°9548'25			551 Feb 08 j 09:58	0° Υ	
	548 Aug 08 j 04:30	0 $^{\circ}$ Ω		greatest brilliancy	551 Feb 09 j 14:14	0° Υ 28'11	-4.8m
	548 Sep 01 j 09:29	0° m ∕		retrograde	551 Feb 20 j 05:05	2° Y 35'09	
morning set	548 Sep 04 j 04:28	3° m) 28'42			551 Mar 03 j 10:43	30° ₹	
	548 Sep 25 j 09:18	0∘ ত		evening set	551 Mar 09 j 20:30	26° ∺ 31'38	
max. Earth dist.	548 Oct 10 j 19:38	19° ≙ 22'14	1.71339 AU	inferior conj	551 Mar 13 j 09:04	24°) 18′57	
				minimum elong	551 Mar 13 j 15:47	24° ₩ 08'18	8°01'26
superior conj	548 Oct 12 j 11:15	21° ≏ 26'43	0°57'35	min. Earth dist.	551 Mar 13 j 02:21	24° ∺ 29'37	0.28457 AU
minimum elong	548 Oct 12 j 21:53	22° ഫ 00'06	0°57'11	morning rise	551 Mar 17 j 11:22	21°) (46′22	
	548 Oct 19 j 06:34	0° M .		direct	551 Apr 03 j 13:49	16° ₩ 10'16	
desc. node	548 Nov 08 j 00:06	24°M48'25		greatest brilliancy	551 Apr 12 j 23:11	17°) 47'53	-4.8m
	548 Nov 12 j 03:14	0° ∡ ¹		desc. node	551 Apr 25 j 18:55	24° ∺ 13′27	
evening rise	548 Nov 22 j 10:13	12° ∡ 56′04			551 May 03 j 21:43	0 ° $\mathbf{\gamma}$	
	548 Dec 06 j 00:29	5°0		morning max el	551 May 22 j 10:53	16° Ƴ 13'44	45°47'27
	548 Dec 29 j 23:29	0° ≈			551 Jun 05 j 06:31	9° 8	
	549 Jan 23 j 02:14	0° ∀			551 Jul 02 j 23:46	$\Pi^{\circ}0$	
	549 Feb 16 j 11:55	0° Y			551 Jul 29 j 02:20	0°€	
asc. node	549 Mar 01 j 03:12	15° Ƴ 19'36		asc. node	551 Aug 16 j 22:18	22° 5 21'34	
	549 Mar 13 j 09:06	0° 8			551 Aug 23 j 06:29	$0^{\circ}\Omega$	
	549 Apr 08 j 00:55	$\Pi^{\circ}0$			551 Sep 16 j 19:26	0° m	

	551 Oct 10 j 22:32	0∘ 亚			554 Apr 05 j 07:59	0° I I	
greatest brilliancy	551 Oct 22 j 22:41	ა — 15° ჲ 02'44	-3.9m	greatest brilliancy	554 Apr 19 j 18:22	8° Ⅱ 01'45	-4.7m
8	551 Nov 03 j 20:21	0° M		retrograde	554 Apr 30 j 16:31	10° Ⅱ 12'02	,
morning set	551 Nov 17 j 15:24	17° M 21'42		evening set	554 May 15 j 19:48	5° Ⅱ 46'00	
C	551 Nov 27 j 16:18	0° ∡ ¹		inferior conj	554 May 22 j 04:01	1° Ⅱ 57'54	0°15'44
desc. node	551 Dec 06 j 11:54	11° ∡ ¹05'53		minimum elong	554 May 22 j 04:36	1° II 56'59	
	551 Dec 21 j 12:28	ರ∘ರ		transit middle	554 May 22 j 04:36	1° Ⅱ 56'59	0°15'34
	•			transit begin	554 May 22 j 03:28	1° Ⅱ 58'46	
superior conj	551 Dec 29 j 10:31	9° る 57'02	-0°51'03	transit end	554 May 22 j 05:44	1° Ⅱ 55'12	
minimum elong	551 Dec 28 j 23:08	9° ರ 21'19	0°50'36	min. Earth dist.	554 May 22 j 07:24	1° Ⅱ 52'36	0.28975 AU
max. Earth dist.	552 Jan 01 j 14:05	13° る 54'15	1.71251 AU	desc. node	554 May 23 j 06:51	1° Ⅱ 15'54	
	552 Jan 14 j 10:00	0° ≈			554 May 25 j 08:00	30° ₹ 8	
	552 Feb 07 j 10:02	0° ∀		morning rise	554 May 28 j 13:17	28° 8 07'28	
evening rise	552 Feb 08 j 12:23	1° ¥ 22′08		direct	554 Jun 12 j 18:50	23° 8 39'12	
	552 Mar 02 j 13:55	0° Y		greatest brilliancy	554 Jun 23 j 07:17	25° 8 37'41	-4.7m
	552 Mar 26 j 23:16	0°8			554 Jul 02 j 10:49	Π $^{\circ}0$	
asc. node	552 Mar 28 j 15:14	2° 8 02'07		morning max el	554 Jul 31 j 17:19	23° Ⅱ 34'35	45°54'12
	552 Apr 20 j 15:44	Π $^{\circ}0$			554 Aug 07 j 06:01	0°€	
	552 May 15 j 17:30	0 \circ \odot			554 Sep 04 j 04:30	$0^{\circ}\Omega$	
	552 Jun 10 j 08:50	$0^{\circ}\Omega$		asc. node	554 Sep 13 j 10:17	10° £ 33'42	
	552 Jul 06 j 23:54	0° m)			554 Sep 29 j 23:24	0° m)	
desc. node	552 Jul 18 j 04:28	12° m 03'14			554 Oct 24 j 17:32	0∘ ত	
	552 Aug 04 j 20:54	0∘ ಹ			554 Nov 17 j 23:15	0° M	
evening max el	552 Aug 04 j 23:32	0° ჲ 06'21	46°09'38		554 Dec 11 j 23:45	0° ≯ 7	
greatest brilliancy	552 Sep 14 j 09:45	29° ₽ 17'55	-4.8m	desc. node	555 Jan 02 j 23:43	27° ∡ ³31′56	
	552 Sep 16 j 22:03	0° M			555 Jan 04 j 23:02	0°ರ	
retrograde	552 Sep 23 j 08:57	0° M 47′05			555 Jan 28 j 23:03	0° ≈	
	552 Sep 29 j 15:41	30° ₽ Ω		morning set	555 Feb 02 j 22:58	6°≈14'08	
evening set	552 Oct 09 j 10:15	25° ≏ 52'58			555 Feb 22 j 00:49	0° ∺	
inferior conj	552 Oct 14 j 02:20	23° ♀ 07'09					
minimum elong	552 Oct 14 j 12:52	22° £ 51'06		superior conj	555 Mar 14 j 16:32	25°) 38'14	
min. Earth dist.	552 Oct 14 j 20:45	22° ₽ 39'06	0.26866 AU	minimum elong	555 Mar 14 j 23:52	26°₩00'56	
morning rise	552 Oct 19 j 14:56	19° £ 51'35		max. Earth dist.	555 Mar 18 j 00:11	29°) 44'47	1.72728 AU
direct	552 Nov 03 j 17:14	15° £ 21'43			555 Mar 18 j 05:06	0°Υ	
asc. node	552 Nov 08 j 07:46	15° Ω 46'46	4.0		555 Apr 11 j 12:24	0°8	
greatest brilliancy	552 Nov 14 j 16:04 552 Dec 04 j 05:37	17° ≙ 36'59 0° ጤ	-4.9m	evening rise	555 Apr 21 j 20:05	12° 8 41'27 17° 8 57'49	
marning may al	552 Dec 24 j 10:39		16056106	asc. node	555 Apr 26 j 03:10	0° Ⅱ	
morning max el	,	18° ጤ 48'03 0° <i>ጃ</i>	46°56'06		555 May 05 j 22:45	0ಂខ ೧.π	
	553 Jan 04 j 02:52 553 Jan 30 j 21:28	0°る			555 May 30 j 12:01 555 Jun 24 j 04:35	0° U	
	553 Feb 25 j 12:13	0° ≈			555 Jul 19 j 02:05	0° m p	
desc. node	553 Feb 27 j 21:23	0 ~ 2°≈49'29			555 Aug 13 j 07:36	0∘ ত مالا	
desc. node	553 Mar 22 j 15:47	0° \		desc. node	555 Aug 15 j 16:23	o — 2° ≏ 47'06	
	553 Apr 16 j 14:04	0° Υ		dese. Hode	555 Sep 08 j 02:47	0° M	
	553 May 11 j 09:09	0°8			555 Oct 05 j 01:40	0° ∡ 7	
	553 Jun 05 j 01:12	0°II		evening max el	555 Oct 18 j 07:02	13° ∡ ¹46'44	47°16'25
asc. node	553 Jun 21 j 00:44	19° Ⅱ 31'52			555 Nov 04 j 14:12	0° ට	
morning set	553 Jun 25 j 02:59	24° Ⅱ 33'00		greatest brilliancy	555 Nov 27 j 21:23	15° る 07'57	-4.9m
Č	553 Jun 29 j 13:31	0ංම		asc. node	555 Dec 06 j 19:41	17° ⋜ 06'17	
	553 Jul 23 j 21:34	$0^{\circ}\Omega$		retrograde	555 Dec 08 j 02:53	17° පි 08'22	
max. Earth dist.	553 Jul 27 j 19:14	4° Ω 49'54	1.72868 AU	evening set	555 Dec 23 j 01:07	12° る 39'24	
				min. Earth dist.	555 Dec 27 j 20:31	9° ⋜ 48'34	0.26728 AU
superior conj	553 Jul 31 j 11:42	9° £ 23′58	1°16'47	inferior conj	555 Dec 28 j 17:36	9° ට 16'07	5°16'57
minimum elong	553 Jul 31 j 04:51	9° Ω 02'44	1°16'39	minimum elong	555 Dec 28 j 07:48	9° ට 31'12	5°14'27
	553 Aug 17 j 01:52	0° m)		morning rise	556 Jan 02 j 15:02	6° ප 20'48	
evening rise	553 Sep 06 j 07:09	25° Mp 11'11		direct	556 Jan 18 j 02:47	1° る 35'44	
	553 Sep 10 j 03:50	0∘ ⊽		greatest brilliancy	556 Jan 27 j 06:39	3° る 11'45	-4.9m
	553 Oct 04 j 05:07	0° M ,			556 Mar 04 j 11:16	0° ≈	
desc. node	553 Oct 10 j 14:19	7° M 57'25		morning max el	556 Mar 07 j 21:57	3° ≈ 20′31	46°24'27
	553 Oct 28 j 06:58	0° ∡ ¹		desc. node	556 Mar 27 j 09:19	23° ≈ 28'11	
	553 Nov 21 j 10:30	0°ප			556 Apr 02 j 09:52	0° ∀	
	553 Dec 15 j 17:58	0° ≈			556 Apr 29 j 02:57	0° Ƴ	
_	554 Jan 09 j 10:22	0° ∀			556 May 24 j 22:37	0°8	
asc. node	554 Jan 31 j 17:17	26°) 19'17			556 Jun 19 j 05:48	0°Ⅱ	
	554 Feb 03 j 21:52	0° Υ			556 Jul 14 j 03:03	0°©	
	554 Mar 03 j 03:44	0° 8	45040105	asc. node	556 Jul 18 j 12:29	5° © 20'44	
evening max el	554 Mar 12 j 15:05	9° 8 34'38	45°48'35		556 Aug 07 j 15:21	0 $^{\circ}$ Ω	

	556 Aug 21 i 20:12	0° m		ratragrada	550 Fab. 17; 20:26	0° Υ 19'50	
morning set	556 Aug 31 j 20:13 556 Sep 01 j 20:21	0 mg/ 1°mg/15′09		retrograde	559 Feb 17 j 20:26 559 Feb 21 j 20:47	0 1 1930 30° ₹	
morning set	556 Sep 24 j 20:03	0∘ ⊽		evening set	559 Mar 07 j 14:08	24°) 13'43	
max. Earth dist.	556 Oct 08 j 04:44	0 — 16° ≏ 46'08	1.71376 AU	min. Earth dist.	559 Mar 10 j 17:20	22°) 15'45	0.28418 AU
max. Earth dist.	330 OCt 00 J 04.44	10 = 40 00	1.71370710	inferior conj	559 Mar 11 j 00:36	22°)(13'43'	8°09'41
superior conj	556 Oct 10 j 00:16	19° ഫ 02'53	1°00'14	minimum elong	559 Mar 11 j 06:43	21°) 54'29	8°09'07
minimum elong	556 Oct 10 j 10:51	19° £ 36'07	0°59'51	morning rise	559 Mar 14 j 23:33	19°) 36'22	
8	556 Oct 18 j 17:25	0° M		direct	559 Apr 01 j 04:20	13°) € 56'14	
desc. node	556 Nov 07 j 02:12	24°M20'41		greatest brilliancy	559 Apr 10 j 13:25	15°) 33′11	-4.8m
	556 Nov 11 j 14:11	0° ∡ ¹		desc. node	559 Apr 24 j 20:59	22°) 57'26	
evening rise	556 Nov 19 j 20:24	10° х 22′40			559 May 04 j 08:00	$_0$ ° Υ	
Č	556 Dec 05 j 11:34	8°0		morning max el	559 May 20 j 01:04	13° Ƴ 58'54	45°48'06
	556 Dec 29 j 10:42	0° ≈			559 Jun 05 j 00:36	0°8	
	557 Jan 22 j 13:39	0° ∀			559 Jul 02 j 13:57	$\Pi^{\circ}0$	
	557 Feb 15 j 23:41	0 ° $\mathbf{\gamma}$			559 Jul 28 j 14:51	0°€	
asc. node	557 Feb 28 j 05:21	14° Ƴ 49'50		asc. node	559 Aug 16 j 00:27	21° © 52'19	
	557 Mar 12 j 21:33	0°8			559 Aug 22 j 18:11	$0^{\circ}\Omega$	
	557 Apr 07 j 14:45	$0^{\circ}\Pi$			559 Sep 16 j 06:43	O° Mp	
	557 May 04 j 19:47	0 \circ \odot			559 Oct 10 j 09:37	0∘ ত	
evening max el	557 May 22 j 07:48	17° © 39'45	45°20'04	greatest brilliancy	559 Oct 25 j 04:12	18° ≏ 31'31	-3.9m
	557 Jun 05 j 02:40	0 $^{\circ}\Omega$			559 Nov 03 j 07:19	0° M	
desc. node	557 Jun 19 j 18:44	10° Ω 34'03		morning set	559 Nov 15 j 02:29	14°M51'03	
greatest brilliancy	557 Jun 29 j 14:29	15° Ω 16′12	-4.7m		559 Nov 27 j 03:12	0° ∡ ¹	
retrograde	557 Jul 09 j 19:43	17° Ω 07'42		desc. node	559 Dec 05 j 13:54	10° ∡ ³37'56	
evening set	557 Jul 26 j 18:08	11° Ω 45′09			559 Dec 20 j 23:19	0°ප	
inferior conj	557 Jul 31 j 03:22	9° Ω 05'42	-7°50'45				
minimum elong	557 Jul 30 j 19:23	9° Ω 18′05	7°49'45	superior conj	559 Dec 26 j 20:28	7° る 23'30	
min. Earth dist.	557 Jul 31 j 10:12	8° Ω 55'07	0.28594 AU	minimum elong	559 Dec 26 j 09:28	6° る 48'57	0°47'21
morning rise	557 Aug 03 j 20:27	6° Ω 49'34		max. Earth dist.	559 Dec 29 j 18:06	11° る 02'09	1.71218 AU
direct	557 Aug 21 j 15:59	0° Ω 54'07			560 Jan 13 j 20:51	0° ≈	
greatest brilliancy	557 Sep 01 j 11:45	3° Ω 02'39	-4.8m	evening rise	560 Feb 06 j 00:05	28°≈55'11	
	557 Oct 07 j 18:08	0° т р			560 Feb 06 j 20:53	0° ∀	
asc. node	557 Oct 10 j 22:03	3°Mp08′29			560 Mar 02 j 00:50	0°Υ	
morning max el	557 Oct 10 j 19:19	3° mp 01'37	46°34'36	_	560 Mar 26 j 10:22	0° 8	
	557 Nov 04 j 20:26	0∘ ⊽		asc. node	560 Mar 27 j 17:19	1° 8 34'33	
	557 Nov 30 j 12:43	0°M			560 Apr 20 j 03:13	0°II	
	557 Dec 25 j 07:52	0° ∡			560 May 15 j 05:42	0°9	
	558 Jan 18 j 18:56	0°る			560 Jun 09 j 22:22	0° N	
desc. node	558 Jan 30 j 11:32	14° る 23'37		1 1	560 Jul 06 j 16:11	0°M)	
	558 Feb 12 j 03:29	0° ≈		desc. node	560 Jul 17 j 06:33	11° Mp 20'42	46907100
	558 Mar 08 j 11:50	0° ℋ 0° Ƴ		evening max el	560 Aug 02 j 11:46	27° Mp 43'35 0° <u> </u>	46°07'09
marning got	558 Apr 01 j 21:00 558 Apr 16 j 05:30	17° Υ 38'22		areatest brillianav	560 Aug 04 j 20:55	ე° ഫ 53'22	-4.8m
morning set	558 Apr 26 j 07:06	0° 8		greatest brilliancy retrograde	560 Sep 11 j 22:18 560 Sep 20 j 21:05	28° £ 22'25	-4.6111
	558 May 20 j 17:38	0°II		evening set	560 Oct 07 j 01:57	28 = 22 23 23° £ 23'00	
max. Earth dist.	558 May 22 j 13:16		1.73639 AU	inferior conj	560 Oct 11 j 14:57	20° ⊆ 41'47	-6°12'57
max. Lartii dist.	330 Way 22 J 13.10	2 11 13 33	1.75057 AU	minimum elong	560 Oct 12 j 01:35	20° £ 25'36	
superior conj	558 May 23 j 00:47	2° Ⅱ 49'17	-0°01'25	min. Earth dist.	560 Oct 12 j 10:18	20° ⊆ 12'22	0.26926 AU
minimum elong	558 May 23 j 01:04	2° I I50'09		morning rise	560 Oct 17 j 00:38	17° £ 30'21	0.20,20110
behind sun begin	558 May 22 j 02:41	1° ∏ 41′26		direct	560 Nov 01 j 06:19	12° £ 55'01	
behind sun end	558 May 23 j 23:27	3° Ⅱ 58'52		asc. node	560 Nov 07 j 09:48	13° £ 39'20	
asc. node	558 May 23 j 14:55	3° Ⅲ 32'40		greatest brilliancy	560 Nov 12 j 06:44	15° ≏ 12'03	-4.9m
	558 Jun 14 j 03:42	0°ಅ		<i>y</i>	560 Dec 04 j 16:53	0°M	
evening rise	558 Jun 27 j 23:09	16°959'03		morning max el	560 Dec 22 j 00:47	16°M24'08	46°56'34
Č	558 Jul 08 j 12:55	$0^{\circ}\Omega$, and the second	561 Jan 03 j 21:59	0° ⊼	
	558 Aug 01 j 21:46	0° m			561 Jan 30 j 12:32	0°ರ	
	558 Aug 26 j 07:30	0∘ <u>⊽</u>			561 Feb 25 j 01:27	0° ≈	
desc. node	558 Sep 12 j 04:28	20° ≏ 40'44		desc. node	561 Feb 26 j 23:35	2°≈17'07	
	558 Sep 19 j 19:34	0°M₊			561 Mar 22 j 03:58	0°) €	
	558 Oct 14 j 11:45	0°⊀			561 Apr 16 j 01:36	$0^{\circ}\mathbf{\Upsilon}$	
	558 Nov 08 j 11:47	ರ°0			561 May 10 j 20:16	8° 0	
	558 Dec 04 j 05:58	0° ≈			561 Jun 04 j 12:04	$\Pi^{\circ}0$	
evening max el	558 Dec 29 j 04:13	27° ≈ 02'15	47°02'07	asc. node	561 Jun 20 j 02:45	19° Ⅱ 05′04	
	559 Jan 01 j 02:43	0° ∀		morning set	561 Jun 22 j 21:01	22° Ⅱ 28′09	
asc. node	559 Jan 03 j 07:29	2° 升 10′27			561 Jun 29 j 00:15	0 \circ \odot	
greatest brilliancy	559 Feb 07 j 07:10	28°) (14′04	-4.8m		561 Jul 23 j 08:16	$0^{\circ}\Omega$	
	559 Feb 13 j 18:13	$0^{\circ}\mathbf{\Upsilon}$		max. Earth dist.	561 Jul 25 j 15:52	2° Ω 52′02	1.72916 AU

		_					
superior conj	561 Jul 29 j 05:18	7° Ω 16'35			564 Jan 09 j 05:00	30°₽ ⋌ ¹	
minimum elong	561 Jul 28 j 22:03	6° Ω 54'07	1°15'13	direct	564 Jan 15 j 15:37	29° ∡ 08'34	
	561 Aug 16 j 12:37	0° m)			564 Jan 22 j 06:44	0°る	
evening rise	561 Sep 03 j 22:24	22° m 55'11		greatest brilliancy	564 Jan 24 j 19:29	0° る 44'45	-4.9m
	561 Sep 09 j 14:45	ია ო			564 Mar 04 j 11:35	0° ≈	46026100
	561 Oct 03 j 16:17	0°M		morning max el	564 Mar 05 j 11:41	0°≈59'02	46°26'00
desc. node	561 Oct 09 j 16:20	7°M28'46		desc. node	564 Mar 26 j 11:19	22° ≈ 45'47	
	561 Oct 27 j 18:26	ರ°0 ರ°₹			564 Apr 02 j 02:30	0° ℋ 0° Ƴ	
	561 Nov 20 j 22:18	0°≈			564 Apr 28 j 16:50	0°8	
	561 Dec 15 j 06:13 562 Jan 08 j 23:23	0° ∺			564 May 24 j 11:07 564 Jun 18 j 17:31	0° I	
asc. node	562 Jan 30 j 19:28	25°) 44'10			564 Jul 13 j 14:20	0°©	
asc. noue	562 Feb 03 j 12:30	25 γ (44 10		asc. node	564 Jul 17 j 14:39	4°953'03	
	562 Mar 02 j 22:41	0°8		asc. node	564 Aug 07 j 02:26	0°Ω	
evening max el	562 Mar 10 j 07:00	7° 8 23'15	45°50'47	morning set	564 Aug 30 j 11:57	28° Ω 59'54	
evening max er	562 Apr 06 j 04:21	0°Ⅱ	43 30 47	morning set	564 Aug 31 j 07:15	0° my	
greatest brilliancy	562 Apr 17 j 10:17	5° Ⅱ 52'50	-4.7m		564 Sep 24 j 07:08	0° ت	
retrograde	562 Apr 28 j 09:40	8° I 04'03	1.7111	max. Earth dist.	564 Oct 05 j 10:26	° – 13° ≏ 58'33	1.71415 AU
evening set	562 May 13 j 13:17	3° Ⅱ 36'21		man. Bartir dist.	20.000 02,10.20	15 —0005	1.71110110
inferior conj	562 May 19 j 20:30	29° 8 49'23	0°35'22	superior conj	564 Oct 07 j 13:08	16° ≏ 37'43	1°02'46
minimum elong	562 May 19 j 21:48	29° 8 47'21	0°35'00	minimum elong	564 Oct 07 j 23:36	17° ≏ 10'35	1°02'25
8	562 May 19 j 13:43	30° ₹ 8		· ·	564 Oct 18 j 04:33	0° M	
min. Earth dist.	562 May 19 j 23:43		0.28977 AU	desc. node	564 Nov 06 j 04:10	23°M51'42	
desc. node	562 May 22 j 08:50	28° 8 15'28			564 Nov 11 j 01:25	0° ∡ 7	
morning rise	562 May 26 j 06:19	25° 8 58'29		evening rise	564 Nov 17 j 06:18	7° ∡ 747'40	
direct	562 Jun 10 j 11:31	21° 8 30'38			564 Dec 04 j 22:53	0°ರ	
greatest brilliancy	562 Jun 20 j 23:00	23° 8 28'43	-4.7m		564 Dec 28 j 22:10	0° ≈	
	562 Jul 03 j 14:00	Π $^{\circ}0$			565 Jan 22 j 01:20	0° ∀	
morning max el	562 Jul 29 j 10:22	21° Ⅲ 27′03	45°53'10		565 Feb 15 j 11:44	0° Y	
	562 Aug 07 j 01:41	0ಂಣ		asc. node	565 Feb 27 j 07:25	14° Ƴ 18'58	
	562 Sep 03 j 19:23	$0^{\circ}\Omega$			565 Mar 12 j 10:18	9° 8	
asc. node	562 Sep 12 j 12:24	9° Ω 59'03			565 Apr 07 j 04:57	Π°	
	562 Sep 29 j 12:28	0° m)			565 May 04 j 13:35	0 \circ	
	562 Oct 24 j 05:44	0∘ ⊽		evening max el	565 May 19 j 22:50	15° © 26'47	45°19'43
	562 Nov 17 j 11:00	0° M -			565 Jun 05 j 11:15	0 ° Ω	
	562 Dec 11 j 11:15	0° ∡ ¹		desc. node	565 Jun 18 j 20:49	9° Ω 12'15	
desc. node	563 Jan 02 j 01:44	27° ∡ ¹02'52		greatest brilliancy	565 Jun 27 j 04:51	13° Ω 03'27	-4.7m
	563 Jan 04 j 10:20	್ಂ		retrograde	565 Jul 07 j 10:05	14° Ω 55'21	
. ,	563 Jan 28 j 10:09	0° ≈		evening set	565 Jul 24 j 06:05	9° Ω 37'29	704111.5
morning set	563 Jan 31 j 10:02	3° ≈ 44'20 0° ∀		inferior conj	565 Jul 28 j 18:50	6°Ω52'54	
	563 Feb 21 j 11:46	0° X		minimum elong	565 Jul 28 j 10:22	7° Ω 06'01	0.28631 AU
gunariar aani	563 Mar 12 j 06:59	23° ∺ 20'37	1920/20	min. Earth dist. morning rise	565 Jul 29 j 01:20 565 Aug 01 j 14:25	4°Ω32'45	0.28031 AU
superior conj minimum elong	563 Mar 12 j 13:45	23° X 41'34		morning rise	565 Aug 11 j 03:26	4 8 € 32 43	
max. Earth dist.	563 Mar 15 j 17:11		1.72675 AU	direct	565 Aug 19 j 07:31	28°940'43	
max. Latur dist.	563 Mar 17 j 15:57	0° Υ	1.72073710	direct	565 Aug 27 j 18:16	0°Ω	
	563 Apr 10 j 23:13	0°8		greatest brilliancy	565 Aug 30 j 03:30	0° Ω 48'45	-4.8m
evening rise	563 Apr 19 j 13:03	10° 8 32'55		8	565 Oct 07 j 17:07	0° m/y	
asc. node	563 Apr 25 j 05:08	17° 8 30'39		morning max el	565 Oct 08 j 08:55	0° mp 39'31	46°33'05
	563 May 05 j 09:39	Π°		asc. node	565 Oct 10 j 00:03	2° m/ 18'10	
	563 May 29 j 23:08	0ංම			565 Nov 04 j 12:50	0∘ <u>⊽</u>	
	563 Jun 23 j 16:08	$0^{\circ}\Omega$			565 Nov 30 j 02:50	0° M ₊	
	563 Jul 18 j 14:20	0° m)			565 Dec 24 j 20:49	0° ∡	
	563 Aug 12 j 20:59	0∘ 亚			566 Jan 18 j 07:12	5°0	
desc. node	563 Aug 14 j 18:31	2° ₽ 13'43		desc. node	566 Jan 29 j 13:45	13° る 53'19	
	563 Sep 07 j 18:09	0° M			566 Feb 11 j 15:16	0° ≈	
	563 Oct 04 j 21:17	0° ∡ ¹			566 Mar 07 j 23:18	0° ∀	
evening max el	563 Oct 15 j 22:09	11° ∡ ¹25'34	47°15'07		566 Apr 01 j 08:12	0 ° Υ	
	563 Nov 05 j 02:18	0° ප		morning set	566 Apr 13 j 22:21	15° Y 28'41	
greatest brilliancy	563 Nov 25 j 10:45	12° る 39'24	-4.9m		566 Apr 25 j 18:07	0°B	
retrograde	563 Dec 05 j 16:22	14° る 39'11			566 May 20 j 04:33	Π $^{\circ}$ 0	
asc. node	563 Dec 05 j 21:42	14° る 39'08					
evening set	563 Dec 20 j 11:24	10°る14'31		superior conj	566 May 20 j 18:59	0° Ⅱ 44'21	
min. Earth dist.	563 Dec 25 j 09:39		0.26677 AU	minimum elong	566 May 20 j 19:56	0° Ⅱ 47'14	0°04'32
inferior conj	563 Dec 26 j 06:11	6° る 47'57		behind sun begin	566 May 19 j 22:12	29° 8 40'31	
minimum elong	563 Dec 25 j 20:43	7° る 02'32	4°55'05	behind sun end	566 May 21 j 17:40	1° Ⅱ 53'57	1.72/21 411
morning rise	563 Dec 31 j 06:38	3° る 48'38		max. Earth dist.	566 May 20 j 09:15	0° Ⅱ 14′28	1.73631 AU

asc. node	566 May 22 j 16:59	3° Ⅱ 05'33		morning max el	568 Dec 19 j 15:43	14° M .01'19	46°56'39
	566 Jun 13 j 14:37	$0 \circ \mathfrak{S}$			569 Jan 03 j 17:01	0° ∡ ¹	
evening rise	566 Jun 25 j 18:19	14° 9 56'36			569 Jan 30 j 03:51	0°ರ	
	566 Jul 07 j 23:58	$0^{\circ}\Omega$			569 Feb 24 j 15:00	0° ≈	
	566 Aug 01 j 09:05	0° m)		desc. node	569 Feb 26 j 01:33	1° ≈ 42'52	
	566 Aug 25 j 19:14	0∘ <u>⊽</u>			569 Mar 21 j 16:29	0° ∀	
desc. node	566 Sep 11 j 06:29	20° ♀ 09'54			569 Apr 15 j 13:25	$0^{\circ}\Upsilon$	
desc. node	566 Sep 19 j 07:53	0° M			569 May 10 j 07:38	0°8	
		0° ⊼				0°II	
	566 Oct 14 j 00:53			4	569 Jun 03 j 23:11		
	566 Nov 08 j 02:11	0°ප		asc. node	569 Jun 19 j 04:53	18° Ⅱ 37'57	
	566 Dec 03 j 22:49	0° ≈		morning set	569 Jun 20 j 15:13	20° Ⅱ 23'07	
evening max el	566 Dec 26 j 17:58	24° ≈ 38′27	47°04'10		569 Jun 28 j 11:13	0ංම	
	567 Jan 01 j 02:31	0° ∀			569 Jul 22 j 19:13	0 $^{\circ}$ Ω	
asc. node	567 Jan 02 j 09:41	1°) 15′54		max. Earth dist.	569 Jul 23 j 11:58	0° Ω 51'50	1.72960 AU
greatest brilliancy	567 Feb 04 j 23:50	25° ¥ 58′12	-4.9m				
retrograde	567 Feb 15 j 11:47	28° ₩ 03'23		superior conj	569 Jul 26 j 23:12	5° Ω 09'27	1°13'52
evening set	567 Mar 05 j 07:35	21°) 54'38		minimum elong	569 Jul 26 j 15:37	4° Ω 45'57	1°13'41
inferior conj	567 Mar 08 j 16:08	19° ¥ 48'13	8°16'36		569 Aug 15 j 23:37	o° mp	
minimum elong	567 Mar 08 j 21:36	19° ¥ 39'32		evening rise	569 Sep 01 j 14:08	20° m/40'06	
min. Earth dist.	567 Mar 08 j 08:19	20° ₩ 00'38			569 Sep 09 j 01:54	0∘ ಹ	
morning rise	567 Mar 12 j 11:51	17° ¥ 25'13	0.20371110		569 Oct 03 j 03:38	0° M ₊	
direct	567 Mar 29 j 18:34	11° X 40'51		desc. node	569 Oct 08 j 18:22	6°M59'32	
			4.0	desc. Hode	-	0° ⊼	
greatest brilliancy	567 Apr 08 j 03:55	13° ¥ 17'46	-4.8m		569 Oct 27 j 06:04		
desc. node	567 Apr 23 j 23:01	21°) 42'38			569 Nov 20 j 10:18	0° ට	
	567 May 04 j 15:57	0° Υ			569 Dec 14 j 18:43	0° ≈	
morning max el	567 May 17 j 15:46	11° Ƴ 44'16	45°48'53		570 Jan 08 j 12:46	0° ∀	
	567 Jun 04 j 18:35	0°8		asc. node	570 Jan 29 j 21:29	25° ∺ 07'17	
	567 Jul 02 j 04:18	$\Pi^{\circ}0$			570 Feb 03 j 03:40	0° Υ	
	567 Jul 28 j 03:36	0 \circ			570 Mar 02 j 18:36	9° 8	
asc. node	567 Aug 15 j 02:33	21° 5 22'07		evening max el	570 Mar 07 j 23:36	5° 8 12'29	45°53'05
	567 Aug 22 j 06:09	$0^{\circ}\Omega$			570 Apr 07 j 09:12	$\Pi^{\circ}0$	
	567 Sep 15 j 18:18	0° m)		greatest brilliancy	570 Apr 15 j 02:43	3° Ⅱ 43'41	-4.7m
	567 Oct 09 j 21:00	0∘ 亚		retrograde	570 Apr 26 j 02:45	5° Ⅱ 55'09	
greatest brilliancy	567 Oct 26 j 08:28	20° ₽ 40'01	-3.9m	evening set	570 May 11 j 06:59	1° Ⅱ 25'58	
	567 Nov 02 j 18:38	0° M .		-	570 May 13 j 18:31	30° ₹ 8	
morning set	567 Nov 12 j 13:28	12°M18'50		inferior conj	570 May 17 j 13:00	27° 8 40'12	0°54'58
•	567 Nov 26 j 14:31	0° ∡ ¹		minimum elong	570 May 17 j 15:01	27° 8 37'04	0°54'23
desc. node	567 Dec 04 j 16:01	10° ₹ '09'00		min. Earth dist.	570 May 17 j 15:59		0.28971 AU
	567 Dec 20 j 10:38	0°ප		desc. node	570 May 21 j 10:55	25° 8 15'22	
				morning rise	570 May 23 j 23:10	23° 8 48'55	
superior conj	567 Dec 24 j 05:50	4° ට 46'38	-0°44'24	direct	570 Jun 08 j 04:24	19° 8 21'41	
minimum elong	567 Dec 23 j 19:18	4°る13'33		greatest brilliancy	570 Jun 18 j 14:14	21° 8 18'42	-4.7m
max. Earth dist.	567 Dec 26 j 20:32		1.71190 AU	greatest offinality	570 Jul 04 j 10:05	0°II	-4./111
max. Earth dist.	568 Jan 13 j 08:09	0°≈	1./1190 AU	mamina may al	5	0 H 19°H18′08	45°52'09
	3			morning max el	570 Jul 27 j 02:58		43 32 09
evening rise	568 Feb 03 j 11:12	26°≈25'07			570 Aug 06 j 20:56	0ංව ව	
	568 Feb 06 j 08:09	0° ∀			570 Sep 03 j 10:11	0°N	
	568 Mar 01 j 12:08	0° Υ		asc. node	570 Sep 11 j 14:19	9° Ω 23'42	
	568 Mar 25 j 21:50	0° 8			570 Sep 29 j 01:32	0° m/	
asc. node	568 Mar 26 j 19:18	1° 8 05'34			570 Oct 23 j 17:58	0∘ ত	
	568 Apr 19 j 15:05	0°Щ			570 Nov 16 j 22:47	0° M	
	568 May 14 j 18:17	0ංම			570 Dec 10 j 22:46	0° ∡ ¹	
	568 Jun 09 j 12:20	$0^{\circ}\Omega$		desc. node	571 Jan 01 j 03:55	26° ∡ ³34'14	
	568 Jul 06 j 09:03	0° m y			571 Jan 03 j 21:39	0°ಕ	
desc. node	568 Jul 16 j 08:44	10° m 37'08			571 Jan 27 j 21:19	0° ≈	
evening max el	568 Jul 31 j 01:06	25° m 23'06	46°04'46	morning set	571 Jan 28 j 21:07	1° ≈ 14'17	
	568 Aug 04 j 22:23	0∘ ⊽			571 Feb 20 j 22:49	0° ∀	
greatest brilliancy	568 Sep 09 j 10:12	24° ≏ 28'14	-4.8m				
retrograde	568 Sep 18 j 09:52	25° ≏ 57'54		superior conj	571 Mar 09 j 21:06	21°) €01′28	-1°21'30
evening set	568 Oct 04 j 17:50	20° ≙ 53'10		minimum elong	571 Mar 10 j 03:12	21° ∺ 20′25	
inferior conj	568 Oct 09 j 03:44	18° ≏ 16'22	-6°29'06	max. Earth dist.	571 Mar 13 j 10:49	25°) €27'08	1.72624 AU
minimum elong	568 Oct 09 j 14:23	18° ♀ 00'12			571 Mar 17 j 02:56	0° Υ	-
min. Earth dist.	568 Oct 09 j 23:30	17° £ 46'23			571 Apr 10 j 10:11	0°8	
morning rise	568 Oct 14 j 10:24	15° ⊆ 09'24	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	evening rise	571 Apr 17 j 05:33	8° 8 22'29	
direct	568 Oct 29 j 20:11	10° ⊆ 28'30		asc. node	571 Apr 24 j 07:12	17° 8 03'22	
asc. node	568 Nov 06 j 11:51	10 — 26 30 11° — 36′46			571 May 04 j 20:40	0° I	
greatest brilliancy	568 Nov 09 j 20:59	11 = 30 40 12° £ 46′27	-4 9m		571 May 04 j 20.40 571 May 29 j 10:21	0°ಅ	
groundst orinnancy	568 Dec 05 j 01:32	0°M	7.7111		571 Jun 23 j 03:46	0° U	
	300 Dec 03 J 01.32	O IIG			5/1 Juli 25 J 05.40	0 06	

	571 Jul 18 j 02:41	0° m ∕			573 Dec 24 j 09:26	0° ∡ ¹	
	571 Aug 12 j 10:31	0∘ ⊽			574 Jan 17 j 19:09	0° ਰ	
desc. node	571 Aug 13 j 20:30	1° ≏ 39'36		desc. node	574 Jan 28 j 15:42	13° る 23'09	
	571 Sep 07 j 09:45	0°M₊			574 Feb 11 j 02:46	0° ≈	
	571 Oct 04 j 17:27	0° ∡ ¹			574 Mar 07 j 10:26	0° ∺	
evening max el	571 Oct 13 j 13:01	9° ∡ '03'55	47°13'42		574 Mar 31 j 19:04	0° Υ	
	571 Nov 05 j 18:11	0°ಕ		morning set	574 Apr 11 j 15:14	13° Y 19′59	
greatest brilliancy	571 Nov 23 j 00:49	10° る 12'17	-4.9m		574 Apr 25 j 04:48	0° 8	
retrograde	571 Dec 03 j 05:30	12° る 10'38		max. Earth dist.	574 May 18 j 05:15	28° 8 15'57	1.73627 AU
asc. node	571 Dec 04 j 23:50	12° る 06'47					
evening set	571 Dec 17 j 22:06	7° る 50'11		superior conj	574 May 18 j 13:13	28° 8 40'25	-0°07'43
min. Earth dist.	571 Dec 22 j 23:21	4° る 50'56	0.26627 AU	minimum elong	574 May 18 j 14:48	28° 8 45'17	0°07'38
inferior conj	571 Dec 23 j 18:57	4° る 20'44	4°37'41	behind sun begin	574 May 17 j 18:50	27° 8 43'57	
minimum elong	571 Dec 23 j 09:52	4° る 34'43	4°35'11	behind sun end	574 May 19 j 10:47	29° 8 46'36	
morning rise	571 Dec 28 j 22:15	1°る17'21			574 May 19 j 15:09	Π $^{\circ}0$	
	571 Dec 31 j 09:07	30°₹ ⋌ 7		asc. node	574 May 21 j 19:09	2° Ⅱ 39'35	
direct	572 Jan 13 j 04:14	26° ⊀ ¹42'20			574 Jun 13 j 01:17	0ං ව	
greatest brilliancy	572 Jan 22 j 09:00	28° ∡ 19'07	-4.9m	evening rise	574 Jun 23 j 13:29	12° © 55'02	
	572 Jan 26 j 13:35	0°ප			574 Jul 07 j 10:47	$0 ^{\circ} \Omega$	
morning max el	572 Mar 03 j 00:29	28° る 35'28	46°27'23		574 Jul 31 j 20:10	0° m y	
	572 Mar 04 j 10:40	0° ≈			574 Aug 25 j 06:41	0∘ ত	
desc. node	572 Mar 25 j 13:22	22° ≈ 04'21		desc. node	574 Sep 10 j 08:29	19° ≏ 39'56	
	572 Apr 01 j 18:46	0° ∀			574 Sep 18 j 19:54	0° M	
	572 Apr 28 j 06:33	0 ° Υ			574 Oct 13 j 13:43	0°⊀	
	572 May 23 j 23:32	0°8			574 Nov 07 j 16:22	0°ರ	
	572 Jun 18 j 05:11	$\Pi^{\circ}0$			574 Dec 03 j 15:36	0° ≈	
	572 Jul 13 j 01:32	0°©		evening max el	574 Dec 24 j 08:03	22° ≈ 16'30	47°06'09
asc. node	572 Jul 16 j 16:43	4° 5 25'19		asc. node	575 Jan 01 j 11:44	0°) 20′55	
	572 Aug 06 j 13:24	$0^{\circ}\Omega$			575 Jan 01 j 03:01	0° ∀	
morning set	572 Aug 28 j 03:39	26° Ω 45'26		greatest brilliancy	575 Feb 02 j 15:55	23°) 42′28	-4.9m
	572 Aug 30 j 18:09	0° m)		retrograde	575 Feb 13 j 03:30	25°) 48′00	
	572 Sep 23 j 18:03	0° ∿		evening set	575 Mar 03 j 00:44	19° ¥ 36'44	
max. Earth dist.	572 Oct 02 j 17:19	11° ≏ 15'09	1.71459 AU	inferior conj	575 Mar 06 j 07:38	17°) € 33'08	8°22'38
				minimum elong	575 Mar 06 j 12:27	17° ∺ 25'30	8°22'17
superior conj	572 Oct 05 j 02:21	14° £ 14'08	1°05'10	min. Earth dist.	575 Mar 05 j 23:03	17° ¥ 46'44	0.28329 AU
minimum elong	572 Oct 05 j 12:39	14° ≏ 46'27	1°04'51	morning rise	575 Mar 10 j 00:20	15° ¥ 14'52	
Č	572 Oct 17 j 15:34	0° M .		direct	575 Mar 27 j 08:55	9° ∺ 26'20	
desc. node	572 Nov 05 j 06:19	23°M23'41		greatest brilliancy	575 Apr 05 j 18:11	11° ₩ 03'19	-4.8m
	572 Nov 10 j 12:31	0° ∡ ¹		desc. node	575 Apr 23 j 01:07	20° ∺ 31'18	
evening rise	572 Nov 14 j 16:32	5° ҂ 14'08			575 May 04 j 21:03	0° Υ	
C	572 Dec 04 j 10:04	0°ठ		morning max el	575 May 15 j 07:14	9° Ƴ 32'41	45°49'42
	572 Dec 28 j 09:28	0° ≈		•	575 Jun 04 j 11:43	0° ႘	
	573 Jan 21 j 12:49	0° ∀			575 Jul 01 j 18:06	$\Pi^{\circ}0$	
	573 Feb 14 j 23:35	$0^{\circ}\mathbf{\Upsilon}$			575 Jul 27 j 15:58	0ංම	
asc. node	573 Feb 26 j 09:24	13° Ƴ 48'24		asc. node	575 Aug 14 j 04:30	20°952'30	
	573 Mar 11 j 22:53	$0^{\circ}S$			575 Aug 21 j 17:47	$0^{\circ}\Omega$	
	573 Apr 06 j 19:07	$\Pi^{\circ}0$			575 Sep 15 j 05:33	0° m/y	
	573 May 04 j 07:38	0ಂತಾ			575 Oct 09 j 08:03	0∘ 亚	
evening max el	573 May 17 j 13:17	13° © 12'51	45°19'25	greatest brilliancy	575 Oct 26 j 20:17	21° ≏ 58'05	-3.9m
•	573 Jun 05 j 22:40	$0^{\circ}\Omega$			575 Nov 02 j 05:36	0°M₊	
desc. node	573 Jun 17 j 22:58	7° Ω 48'18		morning set	575 Nov 10 j 00:39	9° M 48'27	
greatest brilliancy	573 Jun 24 j 19:10	10° Ω 51'07	-4.7m	•	575 Nov 26 j 01:27	0° ∡ ¹	
retrograde	573 Jul 05 j 00:49	12° Ω 43'56		desc. node	575 Dec 03 j 18:07	9° ∡ '41'12	
evening set	573 Jul 21 j 18:06	7° Ω 30'26			575 Dec 19 j 21:34	0°ರ	
inferior conj	573 Jul 26 j 10:22	4° Ω 40'56	-7°31'06		J		
minimum elong	573 Jul 26 j 01:31	4° Ω 54'41		superior conj	575 Dec 21 j 15:09	2°る10'42	-0°40'54
min. Earth dist.	573 Jul 26 j 16:39	4° Ω 31'11	0.28664 AU	minimum elong	575 Dec 21 j 05:11	1° る 39'22	0°40'27
morning rise	573 Jul 30 j 08:37	2° Ω 16'46		max. Earth dist.	575 Dec 24 j 02:29		1.71167 AU
<u> </u>	573 Aug 03 j 11:39	30° ₹ 5			576 Jan 12 j 19:04	0° ≈	
direct	573 Aug 16 j 22:52	26° © 28'07		evening rise	576 Jan 31 j 22:20	23° ≈ 56'07	
greatest brilliancy	573 Aug 27 j 19:48		-4.8m	U .	576 Feb 05 j 19:05	0° ₩	
<u> </u>	573 Aug 31 j 02:39	0°N			576 Feb 29 j 23:06	0° Υ	
morning max el	573 Oct 05 j 22:45	28° Ω 18'59	46°31'36		576 Mar 25 j 08:58	0°8	
<i>5</i>	573 Oct 07 j 14:53	0° m)		asc. node	576 Mar 25 j 21:27	0° 8 38'04	
asc. node	573 Oct 09 j 02:12	1° m)29'54			576 Apr 19 j 02:36	0°II	
	573 Nov 04 j 04:40	0∘ ಹ			576 May 14 j 06:33	0°9	
	-						
	573 Nov 29 j 16:32	0° M ₊			576 Jun 09 j 02:02	$0^{\circ}\Omega$	

	576 Jul 06 j 01:52	0° m)			579 Jan 03 j 08:49	0° ප	
desc. node	576 Jul 15 j 10:40	9° m 53'13		morning set	579 Jan 26 j 07:45	28° る 43'15	
evening max el	576 Jul 28 j 15:11	23° m 05'29	46°02'14		579 Jan 27 j 08:19	0° ≈	
	576 Aug 05 j 00:53	0∘ ⊽			579 Feb 20 j 09:41	0° ∀	
greatest brilliancy	576 Sep 06 j 21:40	22° ഫ 03'34	-4.8m		•		
retrograde	576 Sep 15 j 22:43	23° ₽ 33'53		superior conj	579 Mar 07 j 10:55	18°) 41′58	-1°22'32
evening set	576 Oct 02 j 09:43	18° ≏ 24'07		minimum elong	579 Mar 07 j 16:19	18°) 58'44	
-	-		6044127	_	-		1.72570 AU
inferior conj	576 Oct 06 j 16:26	15° ≏ 51'37		max. Earth dist.	579 Mar 11 j 05:15		1.72570 AU
minimum elong	576 Oct 07 j 03:01	15° ≏ 35'33			579 Mar 16 j 13:43	0° Υ	
min. Earth dist.	576 Oct 07 j 12:18	15° ≏ 21'28	0.27053 AU		579 Apr 09 j 20:58	9° 8	
morning rise	576 Oct 11 j 19:53	12° ≏ 49'15		evening rise	579 Apr 14 j 21:53	6° 8 11'57	
direct	576 Oct 27 j 10:17	8° ഫ 02'56		asc. node	579 Apr 23 j 09:21	16° 8 36'50	
asc. node	576 Nov 05 j 13:59	9° ₽ 39'45			579 May 04 j 07:32	$\Pi^{\circ}0$	
greatest brilliancy	576 Nov 07 j 10:33	10° ≏ 20'49	-4.9m		579 May 28 j 21:26	0ಂತಾ	
greatest similare)	576 Dec 05 j 07:24	0°M	,		579 Jun 22 j 15:16	$0^{\circ}\Omega$	
marning may al		11° M .39'06	46°56'42		3	0° m	
morning max el	576 Dec 17 j 06:28		40-3042		579 Jul 17 j 14:54	-	
	577 Jan 03 j 11:11	0° ∡ ¹			579 Aug 11 j 23:56	0∘ ত	
	577 Jan 29 j 18:34	0°ಕ		desc. node	579 Aug 12 j 22:36	1° ≏ 06'15	
	577 Feb 24 j 04:04	0° ≈			579 Sep 07 j 01:22	0° M	
desc. node	577 Feb 25 j 03:36	1° ≈ 10′13			579 Oct 04 j 14:06	0° ∡ ¹	
	577 Mar 21 j 04:34	0° ∀		evening max el	579 Oct 11 j 02:39	6° ∡ ³39'28	47°11'57
	577 Apr 15 j 00:52	0° Ƴ		Č	579 Nov 06 j 15:28	0°ರ	
	577 May 09 j 18:40	0°8		greatest brilliancy	579 Nov 20 j 15:26	って 7° 云 44'52	4.0m
		0°II		-	3		-4.9111
	577 Jun 03 j 09:56			retrograde	579 Nov 30 j 17:42	9° る 41'17	
morning set	577 Jun 18 j 09:40	18° Ⅱ 20'00		asc. node	579 Dec 04 j 01:53	9° ප 27'31	
asc. node	577 Jun 18 j 06:56	18° Ⅱ 11'38		evening set	579 Dec 15 j 08:41	5° る 24'37	
	577 Jun 27 j 21:50	0°©		min. Earth dist.	579 Dec 20 j 13:14	2° る 20'52	0.26583 AU
max. Earth dist.	577 Jul 21 j 07:26	28° © 50'48	1.73005 AU	inferior conj	579 Dec 21 j 07:28	1° る 52'46	4°16'50
	577 Jul 22 j 05:48	$0^{\circ}\Omega$		minimum elong	579 Dec 20 j 22:51	2° ろ 06'02	4°14'24
	,			Č	579 Dec 24 j 09:37	30°Ŗ ⋌ 7	
superior conj	577 Jul 24 j 17:19	3° Ω 04'04	1°12'16	morning rise	579 Dec 26 j 13:33	28° ⊀ ¹45'22	
		2° Ω 39'39		direct	-	24° × 15'02	
minimum elong	577 Jul 24 j 09:25		1 12 04		580 Jan 10 j 16:13		4.0
	577 Aug 15 j 10:19	0° m)		greatest brilliancy	580 Jan 19 j 23:00	25° ∡ 53'13	-4.9m
evening rise	577 Aug 30 j 05:59	18° m 26'16			580 Jan 28 j 18:41	0°ಕ	
	577 Sep 08 j 12:47	0∘ 亚		morning max el	580 Feb 29 j 12:23	26° る 09'15	46°28'55
	577 Oct 02 j 14:47	o° m ₊			580 Mar 04 j 08:53	0° ≈	
desc. node	577 Oct 07 j 20:31	6°M31′25		desc. node	580 Mar 24 j 15:33	21° ≈ 23'48	
	577 Oct 26 j 17:30	0° ∡ ″			580 Apr 01 j 10:44	0° ∀	
	577 Nov 19 j 22:05	0°ප			580 Apr 27 j 20:04	$_0$ ° $\boldsymbol{\gamma}$	
	577 Dec 14 j 07:01	0° ≈			580 May 23 j 11:49	0°8	
		0 ∞ 0° ∺				0°II	
	578 Jan 08 j 01:57				580 Jun 17 j 16:44		
asc. node	578 Jan 28 j 23:29	24° ∺ 30′57			580 Jul 12 j 12:40	0ංම	
	578 Feb 02 j 18:44	0 ° Υ		asc. node	580 Jul 15 j 18:42	3° 9 57'34	
	578 Mar 02 j 14:49	$_{0\circ}$ 8			580 Aug 06 j 00:19	$0 {\circ} \Omega$	
evening max el	578 Mar 05 j 16:01	3° 8 01'53	45°55'19	morning set	580 Aug 25 j 19:43	24° Ω 32'19	
	578 Apr 09 j 02:40	Π° 0			580 Aug 30 j 04:59	0° m)	
greatest brilliancy	578 Apr 12 j 19:46	1° Ⅱ 35'57	-4.7m		580 Sep 23 j 04:55	0° ت	
retrograde	578 Apr 23 j 19:23	3° Ⅱ 46'49		max. Earth dist.	580 Sep 30 j 04:04	8° ≏ 44'09	1.71504 AU
	578 May 07 j 16:15	30° ₹ 8				2 — 1107	
					500 O-+ 02 : 16.00	1100 52112	1907126
evening set	578 May 09 j 00:50	29° 8 16'12	1014126	superior conj	580 Oct 02 j 16:00	11° £ 52'13	1°07'26
inferior conj	578 May 15 j 05:30	25° 8 31'48	1°14'36	minimum elong	580 Oct 03 j 02:03	12° ≙ 23'44	1°07'07
minimum elong	578 May 15 j 08:12	25° 8 27'33	1°13'48		580 Oct 17 j 02:30	0°M₊	
min. Earth dist.	578 May 15 j 08:26	25° 8 27'12	0.28963 AU	desc. node	580 Nov 04 j 08:24	22°M55'36	
desc. node	578 May 20 j 13:03	22° 8 17'32			580 Nov 09 j 23:34	0° ∡ ¹	
morning rise	578 May 21 j 15:46	21° 8 40'08		evening rise	580 Nov 12 j 03:03	2° ҂ ¹41'40	
direct	578 Jun 05 j 21:12	17° 8 13'35		Č	580 Dec 03 j 21:15	0°ರ	
greatest brilliancy	578 Jun 16 j 05:23	19° 8 09'16	-4.7m		580 Dec 27 j 20:49	0° ≈	
or carest oriniancy	578 Jul 05 j 00:36	0°Ⅱ	,		581 Jan 21 j 00:25	0° ∺	
	·		45051115		-	0° Υ	
morning max el	578 Jul 24 j 18:38	17° Ⅱ 07'54	45°51'15	Ā	581 Feb 14 j 11:35		
	578 Aug 06 j 15:18	0ංම		asc. node	581 Feb 25 j 11:34	13° Y 17'59	
	578 Sep 03 j 00:30	$0^{\circ}\Omega$			581 Mar 11 j 11:39	$_{0\circ}$ 8	
asc. node	578 Sep 10 j 16:31	8° N 50'18			581 Apr 06 j 09:33	Π $^{\circ}0$	
	578 Sep 28 j 14:15	0° m)			581 May 04 j 02:15	0 \circ \odot	
	578 Oct 23 j 05:57	0∘ ⊽		evening max el	581 May 15 j 03:35	10° © 58'25	45°19'20
	578 Nov 16 j 10:24	0° M .		Č	581 Jun 06 j 14:09	$0^{\circ}\Omega$	
	578 Dec 10 j 10:08	0° ⊼ ¹		desc. node	581 Jun 17 j 00:57	6° Ω 21'05	
desc rodo		0 x ⁴ 26° x ¹05'27			581 Jun 22 j 08:57	8° Ω 38'01	-4.7m
desc. node	578 Dec 31 j 05:55	20 x ·05/2/		greatest brilliancy	301 Juli 22 J U8:3/	0 063801	-4 ./III

retrograde	581 Jul 02 j 16:03	10° Ω 32'29		desc. node	583 Dec 02 j 20:07	9° ∡ 12'22	
evening set	581 Jul 19 j 06:08	5° Ω 22'59					
inferior conj	581 Jul 24 j 01:53	2° Ω 28'42	-7°20'11	superior conj	583 Dec 19 j 00:46	29° ∡ ³34'56	-0°37'19
minimum elong	581 Jul 23 j 16:41	2° Ω 42'58	7°18'44	minimum elong	583 Dec 18 j 15:28	29° ₹ 05'41	0°36'55
min. Earth dist.	581 Jul 24 j 07:45	2° Ω 19'36	0.28696 AU		583 Dec 19 j 08:44	0°⋜	
morning rise	581 Jul 28 j 02:54	0° Ω 00'33		max. Earth dist.	583 Dec 21 j 11:20	2°る39'05	1.71141 AU
	581 Jul 28 j 03:17	30° №			584 Jan 12 j 06:12	0° ≈	
direct	581 Aug 14 j 14:19	24°9515'10		evening rise	584 Jan 29 j 09:45	21° ≈ 27'16	
greatest brilliancy	581 Aug 25 j 12:02	26°524'06	-4.8m	evening rise	584 Feb 05 j 06:12	0° \	
greatest orimaney	581 Sep 02 j 00:27	0°Ω	4.0111		584 Feb 29 j 10:19	0° Υ	
morning max el	581 Oct 03 j 13:26	26° Ω 00'37	46920120	asc. node	584 Mar 24 j 23:32	0° 8 09'34	
morning max er		0°m)	40 30 20	asc. node	584 Mar 24 j 20:24	0°8	
1	581 Oct 07 j 11:56	•			•		
asc. node	581 Oct 08 j 04:17	0° m/42'04			584 Apr 18 j 14:27	0°Ⅱ	
	581 Nov 03 j 20:18	ია ო			584 May 13 j 19:12	0°©	
	581 Nov 29 j 06:08	0° ™			584 Jun 08 j 16:12	0°N	
	581 Dec 23 j 22:02	0° ∡ ¹			584 Jul 05 j 19:23	0° m ∕	
	582 Jan 17 j 07:10	0°ಕ		desc. node	584 Jul 14 j 12:47	9° m)08'17	
desc. node	582 Jan 27 j 17:46	12° る 53'03		evening max el	584 Jul 26 j 05:34	20° m 47'48	45°59'45
	582 Feb 10 j 14:23	0° ≈			584 Aug 05 j 05:26	0∘ 亚	
	582 Mar 06 j 21:44	0° ∀		greatest brilliancy	584 Sep 04 j 09:29	19° ≏ 38'55	-4.8m
	582 Mar 31 j 06:07	0° Y		retrograde	584 Sep 13 j 11:21	21° ഫ 09'20	
morning set	582 Apr 09 j 07:40	11° Y ′09'13		evening set	584 Sep 30 j 01:44	15° ≏ 54'49	
	582 Apr 24 j 15:41	0°B		inferior conj	584 Oct 04 j 05:16	13° ≏ 26'29	-6°59'11
	r ,			minimum elong	584 Oct 04 j 15:42		6°57'09
superior conj	582 May 16 j 07:09	26° 8 34'58	-0°10'52	min. Earth dist.	584 Oct 05 j 01:12	12° ≙ 56'11	
minimum elong	582 May 16 j 09:23	26° 8 41'50		morning rise	584 Oct 09 j 05:17	10° £ 28'42	0.27113710
behind sun begin	582 May 15 j 16:35	25° 8 50'17	0 10 43	direct	584 Oct 25 j 00:30	5° £ 37'02	
behind sun end		27° 8 33'23		asc. node	-	3 = 37 02 7° Ω 46'25	
	582 May 17 j 02:10	_	1.72/20 ATT		584 Nov 04 j 16:01		4.0
max. Earth dist.	582 May 16 j 02:03	26° 8 19'20	1.73620 AU	greatest brilliancy	584 Nov 05 j 00:04	7° £ 54'19	-4.9m
	582 May 19 j 01:56	0°II			584 Dec 05 j 11:45	0°M	
asc. node	582 May 20 j 21:08	2° Ⅱ 12'34		morning max el	584 Dec 14 j 20:35	9° ጤ 14'18	46°56'46
	582 Jun 12 j 12:07	0ංම			585 Jan 03 j 05:15	0° ∡ ¹	
evening rise	582 Jun 21 j 08:35	10°952'49			585 Jan 29 j 09:23	0°ರ	
	582 Jul 06 j 21:47	$0 {\circ} \Omega$			585 Feb 23 j 17:16	0° ≈	
	582 Jul 31 j 07:27	0° m y		desc. node	585 Feb 24 j 05:47	0° ≈ 37'24	
	582 Aug 24 j 18:23	0∘ ত			585 Mar 20 j 16:50	0° ∀	
desc. node	582 Sep 09 j 10:41	19° ഫ 09'49			585 Apr 14 j 12:32	0° Y	
	582 Sep 18 j 08:10	0° M ₊			585 May 09 j 05:57	9° 8	
	582 Oct 13 j 02:49	0° ∡ ¹			585 Jun 02 j 21:00	Π $^{\circ}0$	
	582 Nov 07 j 06:48	ರ∘ರ		morning set	585 Jun 16 j 04:06	16° Ⅱ 15'52	
	582 Dec 03 j 08:48	0° ≈		asc. node	585 Jun 17 j 08:59	17° Ⅱ 44'19	
evening max el	582 Dec 21 j 22:51	19° ≈ 56'05	47°08'02		585 Jun 27 j 08:46	0ංම	
asc. node	582 Dec 31 j 13:44	29° ≈ 24'15	17 00 02	max. Earth dist.	585 Jul 19 j 01:20	26°5944'05	1.73049 AU
use. Hode	583 Jan 01 j 04:56	0° \		max. Earth dist.	585 Jul 21 j 16:43	0°Ω	1.75047710
greatest brilliancy	583 Jan 31 j 07:17	21° X 25'12	-4.9m		363 Jul 21 J 10.43	0 86	
-			-4.9111		505 1 1 22 : 11 25	0° Ω 57'49	1010122
retrograde	583 Feb 10 j 19:39	23°) 31'44		superior conj	585 Jul 22 j 11:25		
evening set	583 Feb 28 j 17:34	17° ¥ 18'11	0007140	minimum elong	585 Jul 22 j 03:16	0° Ω 32'39	1°10'21
inferior conj	583 Mar 03 j 23:04	15° ¥ 16'56			585 Aug 14 j 21:18	0° m)	
minimum elong	583 Mar 04 j 03:12	15° ¥ 10′26		evening rise	585 Aug 27 j 21:53	16° m) 11'47	
min. Earth dist.	583 Mar 03 j 13:21	15°) 32′18	0.28287 AU		585 Sep 07 j 23:58	0∘ ⊽	
morning rise	583 Mar 07 j 13:00	13° ∺ 03'11			585 Oct 02 j 02:15	0° M	
direct	583 Mar 24 j 23:43	7° ∺ 10'45		desc. node	585 Oct 06 j 22:32	6° M ₊01'53	
greatest brilliancy	583 Apr 03 j 08:04	8°) 47′24	-4.8m		585 Oct 26 j 05:17	0° ∡ ¹	
desc. node	583 Apr 22 j 03:12	19° ∺ 21'02			585 Nov 19 j 10:14	ರ∘ರ	
	583 May 05 j 00:45	0° Y			585 Dec 13 j 19:42	0° ≈	
morning max el	583 May 12 j 23:20	7° Ƴ 21'42	45°50'29		586 Jan 07 j 15:34	0°) €	
-	583 Jun 04 j 04:50	0°B		asc. node	586 Jan 28 j 01:42	23° ¥ 54′09	
	583 Jul 01 j 08:04	0°II			586 Feb 02 j 10:18	0° Ƴ	
	583 Jul 27 j 04:31	0°®			586 Mar 02 j 11:59	0°8	
asc. node	583 Aug 13 j 06:41	20°922'55		evening max el	586 Mar 03 j 07:39	0° 8 48'33	45°57'37
450. HOGO	583 Aug 13 j 00:41 583 Aug 21 j 05:38	0°Ω		greatest brilliancy	586 Apr 10 j 13:25	29° 8 28'29	-4.7m
				greatest offilialicy		29° G 2829	-4 ./III
	583 Sep 14 j 17:02	0° m)		notno c J -	586 Apr 12 j 00:50		
,	583 Oct 08 j 19:21	0° 亞	2.0	retrograde	586 Apr 21 j 11:47	1° I 38'18	
greatest brilliancy	583 Oct 26 j 22:55	22° ≏ 46'25	-3.9m		586 Apr 30 j 13:22	30° ₹ 8	
_	583 Nov 01 j 16:49	0° M ₊		evening set	586 May 06 j 18:58	27° 8 06'00	
morning set	583 Nov 07 j 12:12	7° M 18′29		inferior conj	586 May 12 j 22:12	23° 8 23'15	
	583 Nov 25 j 12:39	0° ∡ ¹		minimum elong	586 May 13 j 01:35	23° 8 17'55	1°32'55

min. Earth dist.	586 May 13 j 01:18	23° 8 18'21	0.28957 AU	desc. node	588 Nov 03 j 10:24	22°M26'36	
morning rise	586 May 19 j 08:23	19° 8 31'16			588 Nov 09 j 10:49	0°⊀	
desc. node	586 May 19 j 15:01	19° 8 22'14		evening rise	588 Nov 09 j 13:29	0° ≯ 08'22	
direct	586 Jun 03 j 13:49	15° 8 05'16			588 Dec 03 j 08:38	0°ರ	
greatest brilliancy	586 Jun 13 j 21:11	16° 8 59'57	-4.7m		588 Dec 27 j 08:22	0° ≈	
	586 Jul 05 j 11:46	Π $^{\circ}0$			589 Jan 20 j 12:13	0° ∀	
morning max el	586 Jul 22 j 09:43	14° Ⅱ 55'21	45°50'19		589 Feb 13 j 23:48	$0^{\circ}\mathbf{\Upsilon}$	
	586 Aug 06 j 09:34	0°€		asc. node	589 Feb 24 j 13:37	12° Ƴ 46'32	
	586 Sep 02 j 14:59	$0 {\circ} \Omega$			589 Mar 11 j 00:40	$_{0\circ}$ 8	
asc. node	586 Sep 09 j 18:37	8° Ω 15'47			589 Apr 06 j 00:17	Π $^{\circ}0$	
	586 Sep 28 j 03:13	0° m y			589 May 03 j 21:29	0°€	
	586 Oct 22 j 18:12	0∘ 亚		evening max el	589 May 12 j 18:44	8°5546'02	45°19'31
	586 Nov 15 j 22:16	0° M .			589 Jun 07 j 10:53	$0 {\circ} \Omega$	
	586 Dec 09 j 21:45	0° ∡ ¹		desc. node	589 Jun 16 j 03:02	4° Ω 51'25	
desc. node	586 Dec 30 j 07:57	25° ∡ ³35'59		greatest brilliancy	589 Jun 19 j 22:28	6° Ω 25'06	-4.7m
	587 Jan 02 j 20:16	0°ಕ		retrograde	589 Jun 30 j 08:01	8° Ω 21'43	
morning set	587 Jan 23 j 18:15	26° ප 10'46		evening set	589 Jul 16 j 18:29	3° Ω 16′06	
	587 Jan 26 j 19:36	0° ≈		inferior conj	589 Jul 21 j 17:36	0° Ω 17'05	-7°08'45
	587 Feb 19 j 20:51	0° ∀		minimum elong	589 Jul 21 j 08:06	0° Ω 31'47	7°07'10
				min. Earth dist.	589 Jul 21 j 22:41	0° Ω 09'14	0.28728 AU
superior conj	587 Mar 05 j 00:49	16° ¥ 21'47	-1°23'25		589 Jul 22 j 04:39	30° ₹ 5	
minimum elong	587 Mar 05 j 05:28	16°) 36′15	1°23'22	morning rise	589 Jul 25 j 21:27	27° 5 44'59	
max. Earth dist.	587 Mar 08 j 22:26	21°) 12′11	1.72509 AU	direct	589 Aug 12 j 06:22	22° © 02'59	
	587 Mar 16 j 00:47	0° Υ		greatest brilliancy	589 Aug 23 j 03:49	24°©11'51	-4.8m
	587 Apr 09 j 07:58	0° ႘			589 Sep 03 j 07:13	$0^{\circ}\Omega$	
evening rise	587 Apr 12 j 14:17	4° 8 00'56		morning max el	589 Oct 01 j 05:13	23° Ω 45′09	46°28'47
asc. node	587 Apr 22 j 11:22	16° 8 09'10		asc. node	589 Oct 07 j 06:18	29° Ω 54'42	
	587 May 03 j 18:37	Π°			589 Oct 07 j 08:20	0° m)	
	587 May 28 j 08:45	0° ©			589 Nov 03 j 11:48	0∘ <u>⊽</u>	
	587 Jun 22 j 03:03	$0^{\circ}\Omega$			589 Nov 28 j 19:46	0° M	
	587 Jul 17 j 03:27	0° m/y			589 Dec 23 j 10:42	0° ∡ ¹	
	587 Aug 11 j 13:46	0∘ <u>⊽</u>			590 Jan 16 j 19:14	0°ප	
desc. node	587 Aug 12 j 00:43	0° ≏ 31'56		desc. node	590 Jan 26 j 19:58	12° る 23'14	
	587 Sep 06 j 17:33	0° M .			590 Feb 10 j 02:02	0° ≈	
	587 Oct 04 j 11:47	0° ∡ ¹			590 Mar 06 j 09:05	0°) €	
evening max el	587 Oct 08 j 15:17	4° ∡ 11'53	47°10'15		590 Mar 30 j 17:13	$0^{\circ}\Upsilon$	
<i>3</i>	587 Nov 07 j 21:00	0°ප		morning set	590 Apr 06 j 23:54	8° Y 57'33	
greatest brilliancy	587 Nov 18 j 05:26	5° る 16'48	-4.9m	. <i>8</i>	590 Apr 24 j 02:36	0°8	
retrograde	587 Nov 28 j 05:50	7° る 11'31			1 3		
asc. node	587 Dec 03 j 03:54	6°₹41'36		superior conj	590 May 14 j 01:00	24° 8 29'07	-0°14'01
evening set	587 Dec 12 j 19:28	2° る 57'51		minimum elong	590 May 14 j 03:53	24° 8 37'58	
C	587 Dec 17 j 20:42	30°R <i>⊀</i> 7		behind sun begin	590 May 13 j 16:51	24° 8 04'06	
min. Earth dist.	587 Dec 18 j 03:15	29° ∡ ¹49'56	0.26546 AU	behind sun end	590 May 14 j 14:55	25° 8 11'51	
inferior conj	587 Dec 18 j 20:00	29° ҂ ¹24′08	3°55'30	max. Earth dist.	590 May 13 j 23:43	24° 8 25'10	1.73609 AU
minimum elong	587 Dec 18 j 11:55		3°53'09		590 May 18 j 12:47	0°II	
morning rise	587 Dec 24 j 04:47	26° ҂ 13′00		asc. node	590 May 19 j 23:14	1° Ⅱ 45'46	
direct	588 Jan 08 j 03:54	21° ∡ ¹46'44			590 Jun 11 j 22:58	0°©	
greatest brilliancy	588 Jan 17 j 13:23	23° ∡ ¹26'56	-4.9m	evening rise	590 Jun 19 j 03:48	8° © 50'59	
· ·	588 Jan 30 j 06:05	0°ಕ		Č	590 Jul 06 j 08:46	$0^{\circ}\Omega$	
morning max el	588 Feb 27 j 00:45	23° る 43'07	46°30'32		590 Jul 30 j 18:42	0° m)	
C	588 Mar 04 j 06:34	0° ≈			590 Aug 24 j 06:03	0∘ <u>⊽</u>	
desc. node	588 Mar 23 j 17:31	20° ≈ 42'20		desc. node	590 Sep 08 j 12:41	18° ≏ 39'11	
	588 Apr 01 j 02:42	0° ∀			590 Sep 17 j 20:26	0° M	
	588 Apr 27 j 09:42	$0^{\circ}\Upsilon$			590 Oct 12 j 16:01	0° ∡ ¹	
	588 May 23 j 00:13	0°8			590 Nov 06 j 21:30	0°ප	
	588 Jun 17 j 04:24	0°II			590 Dec 03 j 02:31	0° ≈	
	588 Jul 11 j 23:56	0° ©		evening max el	590 Dec 19 j 14:25	17° ≈ 37'08	47°09'50
asc. node	588 Jul 14 j 20:54	3°530'04		asc. node	590 Dec 30 j 15:55	28°≈26'23	
··-·	588 Aug 05 j 11:24	0° Ω			591 Jan 01 j 08:35	0° ∀	
morning set	588 Aug 23 j 11:51	22° Ω 18'53		greatest brilliancy	591 Jan 28 j 22:09	19° ∺ 06'31	-4.9m
	588 Aug 29 j 16:02	0° m)		retrograde	591 Feb 08 j 11:46	21°) 14'05	
	588 Sep 22 j 16:00	0∘ <u>ರ</u> ೧.11%		evening set	591 Feb 26 j 09:50	14°) 58'54	
max. Earth dist.	588 Sep 27 j 16:26	° - 6° - 17'34	1.71551 AU	min. Earth dist.	591 Mar 01 j 02:59	13°) 17′09	0.28239 AU
	p 2. J 10.20			inferior conj	591 Mar 01 j 14:10	12° ¥ 59'30	8°32'20
superior conj	588 Sep 30 j 05:37	9° ₽ 29'31	1°09'34	minimum elong	591 Mar 01 j 17:33	12° X 54'10	
minimum elong	588 Sep 30 j 15:21	10° ⊆ 00'01	1°09'17	morning rise	591 Mar 05 j 01:29	10°) 49′57	
			1			/ 1/0/	
	588 Oct 16 j 13:40	0° M .		direct	591 Mar 22 j 14:37	4°) 54′13	

						_	
greatest brilliancy	591 Mar 31 j 20:57	6° ∺ 29'46	-4.8m		593 Oct 25 j 16:43	0° ∡	
desc. node	591 Apr 21 j 05:15	18° ¥ 12′22			593 Nov 18 j 22:03	0°ಕ	
	591 May 05 j 02:56	0 ° Υ			593 Dec 13 j 08:05	0° ≈	
morning max el	591 May 10 j 15:20	5° Ƴ 10′24	45°51'19		594 Jan 07 j 04:58	0° ℋ	
	591 Jun 03 j 21:35	$_{0\circ}$ 8		asc. node	594 Jan 27 j 03:42	23° 升 17′08	
	591 Jun 30 j 21:50	$\Pi^{\circ}0$			594 Feb 02 j 01:52	0 ° Υ	
	591 Jul 26 j 16:54	0ං ම		evening max el	594 Feb 28 j 22:18	28° Ƴ 33′03	45°59'52
asc. node	591 Aug 12 j 08:45	19° © 53'32			594 Mar 02 j 09:46	9° 8	
	591 Aug 20 j 17:18	0 $^{\circ}\Omega$		greatest brilliancy	594 Apr 08 j 07:04	27° 8 20'50	-4.7m
	591 Sep 14 j 04:19	0° mp		retrograde	594 Apr 19 j 03:50	29° 8 29'37	
	591 Oct 08 j 06:27	0∘ ত		evening set	594 May 04 j 12:57	24° 8 55'14	
greatest brilliancy	591 Oct 26 j 12:09	22° ≏ 53'12	-3.9m	inferior conj	594 May 10 j 14:40	21° 8 14'33	1°53'12
	591 Nov 01 j 03:53	0°M		minimum elong	594 May 10 j 18:43	21° 8 08'11	1°52'03
morning set	591 Nov 04 j 23:55	4°M49'30		min. Earth dist.	594 May 10 j 18:13	21° 8 08'58	0.28950 AU
	591 Nov 24 j 23:43	0° ∡ 7		morning rise	594 May 17 j 00:35	17° 8 22'30	
desc. node	591 Dec 01 j 22:15	8° ₰ ¹44'16		desc. node	594 May 18 j 17:08	16° 8 29'02	
				direct	594 Jun 01 j 05:38	12° 8 56'40	
superior conj	591 Dec 16 j 10:03	26° ₹ 58'21	-0°33'38	greatest brilliancy	594 Jun 11 j 13:13	14° 8 51'05	-4.7m
minimum elong	591 Dec 16 j 01:31	26° ₮ 31'30	0°33'14		594 Jul 05 j 19:46	$\Pi^{\circ}0$	
_	591 Dec 18 j 19:49	0°రె		morning max el	594 Jul 20 j 00:21	12° ∏ 42'19	45°49'32
max. Earth dist.	591 Dec 18 j 19:36	29° ₹ 59'20	1.71121 AU	-	594 Aug 06 j 03:08	0°ಅ	
	592 Jan 11 j 17:16	0° ≈			594 Sep 02 j 05:02	$0^{\circ}\Omega$	
evening rise	592 Jan 26 j 20:31	18°≈56'26		asc. node	594 Sep 08 j 20:33	7° Ω 41'56	
C	592 Feb 04 j 17:16	0° ∀			594 Sep 27 j 15:48	0° m	
	592 Feb 28 j 21:27	$_0$ ° $\boldsymbol{\gamma}$			594 Oct 22 j 06:03	0∘ <u>⊽</u>	
asc. node	592 Mar 24 j 01:31	29° Ƴ 40'59			594 Nov 15 j 09:43	0°M	
	592 Mar 24 j 07:45	0°8			594 Dec 09 j 08:57	0°×7	
	592 Apr 18 j 02:14	0°II		desc. node	594 Dec 29 j 10:07	25° ₹ 08'11	
	592 May 13 j 07:48	0°e		dose. Hode	595 Jan 02 j 07:16	0°ਰ	
	592 Jun 08 j 06:22	0°N		morning set	595 Jan 21 j 04:51	23° る 39'48	
	592 Jul 05 j 13:05	0° m/p		morning sec	595 Jan 26 j 06:29	0°≈	
desc. node	592 Jul 13 j 14:57	8° m) 23'27			595 Feb 19 j 07:38	0°) €	
evening max el	592 Jul 23 j 19:45	18° m) 30'28	45°57'24		2,2100 1,500	٠,٨	
evening man er	592 Aug 05 j 11:33	0∘ ಹ	.0 0,2.	superior conj	595 Mar 02 j 14:33	14°) €02'06	-1°24'10
greatest brilliancy	592 Sep 01 j 22:02	0 — 17° ≏ 16'37	-4.8m	minimum elong	595 Mar 02 j 14:35	14°) (02'00	
retrograde	592 Sep 10 j 23:43	18° ≏ 46'31	4.0111	max. Earth dist.	595 Mar 06 j 13:15		1.72454 AU
evening set	592 Sep 27 j 17:56	13° ⊆ 27'34		max. Earth dist.	595 Mar 15 j 11:31	0° Υ	1.72434710
inferior conj	592 Oct 01 j 18:22	13° ⊆ 27'34	-7°12'45		595 Apr 08 j 18:42	0° 8	
minimum elong	592 Oct 01 j 18:22 592 Oct 02 j 04:33	10° ⊆ 47'48		evening rise	595 Apr 10 j 06:13	1° 8 49'15	
min. Earth dist.	592 Oct 02 j 04:33		0.27176 AU	asc. node	595 Apr 10 j 00:13	15° 8 42'31	
morning rise	592 Oct 06 j 14:48	8° ⊆ 10'10	0.27170710	ase. Hode	595 May 03 j 05:26	0°Ⅱ	
direct	592 Oct 22 j 14:26	3° £ 13'10			595 May 05 j 05:20 595 May 27 j 19:49	0°©	
greatest brilliancy	592 Nov 02 j 13:58	5° £ 29'53	-4.9m		595 Jun 21 j 14:35	0°Ω	
asc. node	592 Nov 03 j 18:06	5° £ 59'02	4.7111		595 Jul 16 j 15:48	0° m)	
ase. node	592 Dec 05 j 14:02	0° M		desc. node	595 Aug 11 j 02:42	29° m 57'49	
morning max el	592 Dec 12 j 09:49	6°ML48'08	46°56'31	dese. Hode	595 Aug 11 j 03:27	0° ت	
morning max ci	593 Jan 02 j 22:39	0° ∡ 7	40 30 31		595 Sep 06 j 09:41	0°M	
	593 Jan 28 j 23:50	° ਨ ਹ			595 Oct 04 j 09:55	0° ∡ 7	
desc. node	593 Feb 23 j 07:45	0°≈04'29		evening max el	595 Oct 06 j 03:44	1° √ 44'59	47°08'38
dese. Hode	593 Feb 23 j 06:15	0°≈		evening max er	595 Nov 09 j 14:35	0°る	47 00 50
	593 Mar 20 j 04:55	0° ₩		greatest brilliancy	595 Nov 15 j 19:31	2° る 49'34	-4 9m
	593 Apr 14 j 00:02	0° Υ		retrograde	595 Nov 25 j 18:22	4°る43'14	4.7111
	593 May 08 j 17:03	0°8		asc. node	595 Dec 02 j 06:04	3° ප 51'01	
	593 Jun 02 j 07:50	0°II		evening set	595 Dec 10 j 06:28	0° ට 31'51	
morning set	593 Jun 13 j 22:14	14° Ⅱ 11'29		evening set	595 Dec 10 j 00:28	30°R. ✓	
asc. node	593 Jun 16 j 11:07	14 Ⅱ 11 29 17° Ⅱ 17'59		min. Earth dist.	595 Dec 15 j 17:09	27° ₹ 120'25	0.26509 AU
asc. nouc	593 Jun 26 j 19:29	0°9		inferior conj	595 Dec 16 j 08:32	26° ₹ 56'48	3°33'40
max. Earth dist.	593 Jul 16 j 18:32	24° 9 35'56	1.73092 AU	minimum elong	595 Dec 16 j 01:02		3°31'26
maa. Darui uist.	575 Jul 10 J 10.32	00 دونت ۲۰	1.73092 AU	morning rise	595 Dec 21 j 19:56	27 × 08 18 23° × 42'19	3 31 40
superior conj	593 Jul 20 j 05:28	28°952'11	1°08'45	direct	596 Jan 05 j 15:35	23 x 42 19 19° x 19'37	
minimum elong	593 Jul 20 j 03.28 593 Jul 19 j 21:07	28°93211		greatest brilliancy	596 Jan 15 j 03:32	19 x ·1937 21° x ⁷ 01'56	-4.9m
mmmum eiong	593 Jul 19 J 21:07 593 Jul 21 j 03:24	28° 9 2624	1 00 31	greatest oriniancy		0°る	"1 .7111
	593 Jul 21 J 03:24 593 Aug 14 j 08:05	0° m)		morning max el	596 Jan 31 j 06:31 596 Feb 24 j 13:53	0°る 21°る20'20	46°32'06
avaning rise				morning max ei	•	21° 6 20′20 0° ≈	40 32 00
evening rise	593 Aug 25 j 14:00 593 Sep 07 j 10:54	13° Mp 58'52 0° <u> </u>		desc. node	596 Mar 04 j 02:58 596 Mar 22 j 19:36	0°≈ 20°≈03'01	
		0° ™		acsc. Hout	•	20° ≈ 03'01	
desc. node	593 Oct 01 j 13:24 593 Oct 06 j 00:34	0°11น 5°11น33'21			596 Mar 31 j 17:58 596 Apr 26 j 22:52	0° π 0° Υ	
		.) III.33721			220 Apr 20 22:32	UI	

601 Jun 01 j 18:45

601 Jun 11 j 16:45

601 Jun 15 j 13:09

morning set

asc. node

 $0^{\circ}\Pi$

12°**Ⅱ**08'01

16°**I**I51′04

598 Oct 12 j 05:12

598 Nov 06 j 12:14

598 Dec 02 j 20:29

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max. Earth dist.		26 j 06:16 14 j 13:44	0°ණ 22°ණ33'46	1.73137 AU
superior conj minimum elong		17 j 23:56 17 j 15:26	26°9347'40 26°921'22	1°06'53 1°06'37
	601 Jul	20 j 14:11 13 j 18:59	0° N	
evening rise	601 Aug	23 j 06:34 06 j 22:02	11° m 46'59 0° <u>∩</u>	
desc. node	601 Oct	01 j 00:49 05 j 02:44	0° M 5° M 04'24	
		25 j 04:28 18 j 10:12	0°♂ 5°0	
		12 j 20:50 06 j 18:47	0° €	