conjunction	4601 May 18 21:10	29° <b>8</b> 09'22	-0°11'48	morning rise	4605 Oct 19 22:11	12° <b>≏</b> 43'19	
minimum elong	4601 May 18 22:20	29° <b>8</b> 11'36	0°11'47		4605 Nov 16 05:53	$0^{\circ}$ M.	
behind sun begin	4601 May 18 02:07	28° <b>8</b> 32'40			4606 Jan 03 04:28	0°⊀	
behind sun end	4601 May 19 18:32	29° <b>8</b> 50'30			4606 Feb 21 00:07	0°ರ	
	4601 May 19 23:28	$\Pi^{\circ}0$		desc. node	4606 Mar 18 10:56	15° <b>る</b> 12'42	
asc. node	4601 Jun 05 02:00	12° <b>Ⅱ</b> 18'33			4606 Apr 13 03:07	0° <b>≈</b>	
	4601 Jun 28 17:15	0ංම			4606 Jun 13 10:54	0° <b>∀</b>	
max. Earth dist.	4601 Jul 09 15:01	8°900'11	2.43091 AU	retrograde	4606 Jul 24 02:28	8° <b>)</b> 34'57	
morning rise	4601 Jul 24 08:08	18°937'31	2.15071710	opposition	4606 Aug 24 08:42	3° <b>)</b> €04'59	6°21'44
morning risc					-	2° <b>H</b> 37'57	
	4601 Aug 09 09:39	0° <b>N</b>		greatest brilliancy	4606 Aug 25 21:28		
	4601 Sep 22 11:09	0° <b>m</b> )		min. Earth dist.	4606 Aug 31 04:29	1° <b>∺</b> 05'07	0.40693 AU
	4601 Nov 08 08:15	0∘ <b>⊽</b>			4606 Sep 04 02:23	30° <b>R</b> ≈	
	4601 Dec 29 11:10	0° <b>M</b>		direct	4606 Sep 26 17:45	26° <b>≈</b> 40'53	
	4602 Mar 04 22:23	0° <b>∡</b> ¹			4606 Oct 19 01:04	0° <b>ℋ</b>	
retrograde	4602 Apr 08 07:22	6° <b>∡</b> ¹03'48			4606 Dec 17 22:00	$0$ ° $\mathbf{\Upsilon}$	
	4602 May 09 16:49	30°RM₊		asc. node	4607 Jan 25 23:38	26° <b>Ƴ</b> 12'28	
opposition	4602 May 17 03:36	27°ML12'13	1°01'08		4607 Jan 31 10:31	$6^{\circ}B$	
greatest brilliancy	4602 May 17 08:15	27° <b>M</b> L07'44	-1.5m		4607 Mar 15 04:23	$\Pi$ $^{\circ}$ 0	
min. Earth dist.	4602 May 21 20:08	25°M23'17	0.63950 AU		4607 Apr 27 10:19	0 ಲ	
desc. node	4602 Jun 13 13:24	18°M28'16	0.03730710		4607 Jun 10 22:50	$0^{\circ}\Omega$	
direct	4602 Jun 27 14:18	17°M 10'56			4607 Jul 26 20:23	0° <b>m</b>	
	4602 Aug 17 10:21	0° <b>∡</b> ¹		evening set	4607 Aug 25 20:56	19° <b>m</b> 15'41	
	4602 Oct 11 10:50	0°ಕ			4607 Sep 11 17:22	0₀ <b>ಹ</b>	
	4602 Nov 24 22:59	0° <b>≈</b>		max. Earth dist.	4607 Oct 09 22:35	17° <b>≏</b> 55'59	2.67825 AU
	4603 Jan 04 11:12	0° <b>∀</b>					
	4603 Feb 12 02:49	$0$ ° $\Upsilon$		conjunction	4607 Oct 11 02:01	18° <b>≏</b> 39'33	0°53'34
	4603 Mar 22 06:39	$8^{\circ}$		minimum elong	4607 Oct 11 03:04	18° <b>≏</b> 41'13	0°53'35
asc. node	4603 Apr 23 02:06	24° <b>8</b> 41'54			4607 Oct 28 21:59	0°M,	
	4603 Apr 30 00:23	0° <b>I</b> I		morning rise	4607 Nov 24 05:51	16°M48'19	
evening set	4603 May 21 09:03	16° <b>Ⅱ</b> 07'40			4607 Dec 14 18:55	0° <b>∡</b> 7	
evening set	4603 Jun 09 03:38	0°95			4608 Jan 29 22:56	ੁੱਤ	
	4003 Juli 09 03.36	0 39		J J.		0 3 2° <b>る</b> 55'12	
	4602 1 1 20 15 20	200527105	0050140	desc. node	4608 Feb 03 09:47		
conjunction	4603 Jul 20 15:39	29°537'05	0°50'49		4608 Mar 15 08:37	0° <b>≈</b>	
minimum elong	4603 Jul 20 13:40	29° <b>©</b> 33'38	0°50'48		4608 Apr 29 04:21	0° <b>∀</b>	
	4603 Jul 21 04:49	$0$ $^{\circ}$ $\Omega$			4608 Jun 13 01:23	$0$ ° $\mathbf{\Upsilon}$	
max. Earth dist.	4603 Aug 21 07:06	21° <b>Ω</b> 16′25	2.56117 AU		4608 Jul 30 09:42	$9^{\circ}$ 8	
	4603 Sep 03 08:33	O° <b>m</b> y		retrograde	4608 Oct 11 06:25	27° <b>8</b> 02'03	
morning rise	4603 Sep 12 01:46	5° <b>m</b> 45'48		min. Earth dist.	4608 Nov 06 20:20	22° <b>8</b> 35'49	0.38686 AU
	4603 Oct 19 12:43	0∘ <b>亚</b>		opposition	4608 Nov 12 11:34	20° <b>8</b> 57'12	-2°07'11
	4603 Dec 06 16:35	0° <b>M</b> ₊		greatest brilliancy	4608 Nov 12 03:00	21° <b>8</b> 03'28	-2.9m
	4604 Jan 26 15:16	0° <b>∡</b> ¹		direct	4608 Dec 12 09:43	15° <b>8</b> 41'40	
	4604 Mar 25 09:49	0° <b>ප</b>		asc. node	4608 Dec 12 23:11	15° <b>8</b> 41'47	
desc. node	4604 Apr 30 12:05	12° <b>ට</b> 16'10		ase. node	4609 Feb 02 14:45	0°Ⅱ	
	•						
retrograde	4604 May 21 13:18	14° <b>る</b> 42'29	2025120		4609 Mar 29 20:32	0° <b>©</b>	
opposition	4604 Jun 26 12:36	7° <b>る</b> 07'18			4609 May 18 07:10	$0^{\circ}\Omega$	
greatest brilliancy	4604 Jun 27 04:46	6° <b>る</b> 52'38			4609 Jul 05 19:52	0°Щ	
min. Earth dist.	4604 Jul 04 09:48	4° <b>る</b> 15'51	0.53798 AU		4609 Aug 23 02:30	0₀ <b>ಹ</b>	
	4604 Jul 18 10:40	30°₹ <b>⋌</b> 7		evening set	4609 Oct 01 00:18	24° <b>≏</b> 25'21	
direct	4604 Aug 05 00:49	27° <b>∡</b> ¹52'47			4609 Oct 09 19:30	0°M	
	4604 Aug 23 05:40	0°₹		max. Earth dist.	4609 Nov 01 00:05	14° <b>M</b> 10'44	2.65501 AU
	4604 Oct 27 00:27	0° <b>≈</b>					
	4604 Dec 10 02:35	0° <b>\</b>		conjunction	4609 Nov 15 02:18	23°M17'06	0°19'30
	4605 Jan 19 07:07	$0^{\circ}\Upsilon$		minimum elong	4609 Nov 15 02:54	23°M18'04	
	4605 Feb 27 11:31	0.8 0.1		minimum ciong	4609 Nov 25 09:41	0° <b>√</b>	0 1750
				11.			
asc. node	4605 Mar 10 01:24	8° <b>8</b> 04'27		desc. node	4609 Dec 21 08:56	17°× <b>7</b> 09'09	
	4605 Apr 08 03:08	0°II		morning rise	4609 Dec 29 21:37	22° <b>₹</b> 51'49	
	4605 May 19 03:38	0°€			4610 Jan 09 11:21	0°ಕ	
	4605 Jul 01 00:01	$0^{\circ}\Omega$			4610 Feb 21 21:51	0° <b>≈</b>	
evening set	4605 Jul 14 13:04	9° <b>Ω</b> 12'40			4610 Apr 04 19:53	0° <b>)</b> €	
	4605 Aug 14 17:23	0° <b>m</b> y			4610 May 15 13:34	$0$ ° $\Upsilon$	
					4610 Jun 24 18:05	0°8	
conjunction	4605 Sep 03 05:58	12° Mp 46'01	1°07'58		4610 Aug 04 14:44	$\Pi^{\circ}0$	
minimum elong	4605 Sep 03 06:01	12° m) 46'07	1°07'59		4610 Sep 17 20:11	0°9	
max. Earth dist.	4605 Sep 16 15:59	21° m/26'55		asc. node	4610 Oct 30 23:05	23° <b>©</b> 01'48	
uibt.	4605 Sep 29 23:24	0° <b>ರ</b>			4610 Nov 22 14:30	0°Ω	
	1000 bep 27 23.24	· —			10101101 22 14.30	· 06	

retrograde	4610 Dec 06 13:21	1° <b>Ω</b> 20'45		evening set	4616 Feb 12 07:54	7° <b>)</b> €21'34	
i patra	4610 Dec 20 00:18	30°R≌	0.51014.433		4616 Mar 12 05:10	$0^{\circ}$ $\Upsilon$	
min. Earth dist.	4611 Jan 05 11:42	25°908'45		. ,.	4616 A 10 04 26	00 0 1152	0041107
greatest brilliancy	4611 Jan 12 06:47 4611 Jan 13 08:41	22°536'39		conjunction minimum elong	4616 Apr 19 04:26	0° <b>と</b> 01'53 0° <b>と</b> 08'34	
opposition direct	4611 Feb 16 23:02	22°©12'20 14°©41'00	3°36'53	minimum elong	4616 Apr 19 07:49 4616 Apr 19 03:29	0°8	0 41 00
direct	4611 Apr 15 00:03	14 ⋑41 00 0° <b>Ω</b>			4616 May 27 12:28	0°II	
	4611 Jun 12 10:30	0° <b>m</b> )		max. Earth dist.	4616 May 31 10:05		2.37969 AU
	4611 Aug 03 03:34	0∘ <b>ত</b> رااا		asc. node	4616 Jun 21 19:59	19° <b>Ⅱ</b> 17'53	2.37909 AU
	4611 Sep 21 05:58	0° <b>M</b>		morning rise	4616 Jun 29 05:27	24° <b>∏</b> 50′22	
evening set	4611 Nov 07 01:31	29°M56'06		morning risc	4616 Jul 06 04:06	0°9	
evening set	4611 Nov 07 03:54	0° <b>⊼</b> ¹			4616 Aug 16 18:46	$0 {\circ} \Omega$	
desc. node	4611 Nov 08 07:49	0° <b>∡</b> 745'45			4616 Sep 29 22:31	0° <b>m</b> )	
max. Earth dist.	4611 Nov 26 22:00		2.57895 AU		4616 Nov 16 11:06	0∘ <u>ಹ</u>	
max. Lartii tist.	4611 Dec 21 20:03	0°ਰ 0°ਰ	2.37073710		4617 Jan 09 08:00	0° <b>™</b>	
	1011 200 21 20.03	v <b>G</b>		retrograde	4617 Mar 24 16:51	22°M57'52	
conjunction	4611 Dec 24 02:42	1° <b>る</b> 34'11	-0°25'11	opposition	4617 May 03 04:44	13°M46'00	2°01'24
minimum elong	4611 Dec 24 01:47	1°る32'35		greatest brilliancy	4617 May 03 10:48	13°M40'03	-1.4m
g	4612 Feb 02 08:34	0°≈	0 20 11	min. Earth dist.	4617 May 06 10:15	12°M29'59	0.66273 AU
morning rise	4612 Feb 11 19:52	6°≈52'37		direct	4617 Jun 13 17:13	3°ML43'17	0.00275110
	4612 Mar 14 00:52	0° <b>)</b> €		desc. node	4617 Jun 30 04:03	5° <b>M</b> ₁7'22	
	4612 Apr 22 09:31	$0^{\circ}\Upsilon$			4617 Sep 01 01:27	0° <b>∡</b> ¹	
	4612 May 31 03:08	0°8			4617 Oct 21 00:22	0°ਰ	
	4612 Jul 09 03:11	0°II			4617 Dec 03 10:05	0° <b>≈</b>	
	4612 Aug 18 13:29	0°ಅ			4618 Jan 12 13:21	0° <b>\</b>	
asc. node	4612 Sep 16 20:40	20°529'35			4618 Feb 20 00:46	$_0$ ° $\boldsymbol{\gamma}$	
	4612 Oct 01 05:13	$0^{\circ}\Omega$			4618 Mar 30 01:10	0°8	
	4612 Nov 22 12:32	0° <b>m</b> )		evening set	4618 Apr 24 15:00	19° <b>8</b> 59'08	
retrograde	4613 Jan 14 23:43	14° <b>m</b> ) 51'44		Č	4618 May 07 14:43	$\mathbf{u}^{\circ}$	
min. Earth dist.	4613 Feb 19 10:34	6° Mp 41'14	0.62469 AU	asc. node	4618 May 09 18:42	1° <b>Ⅱ</b> 39'31	
opposition	4613 Feb 23 21:47	4° Mp 54'21	4°43'10		4618 Jun 16 13:01	0°99	
greatest brilliancy	4613 Feb 23 03:42	5° Mp 12'23	-1.5m				
	4613 Mar 09 06:11	30°R <b>Ω</b>		conjunction	4618 Jun 28 17:53	8° <b>©</b> 54'17	0°31'54
direct	4613 Apr 03 04:40	25° <b>Ω</b> 57'05		minimum elong	4618 Jun 28 15:49	8°950'33	0°31'52
	4613 Apr 30 16:10	O° <b>m</b> y			4618 Jul 28 09:18	$0^{\circ}\Omega$	
	4613 Jul 09 07:40	0∘ <b>亚</b>		max. Earth dist.	4618 Aug 07 23:01	7° <b>£</b> 20′36	2.51409 AU
	4613 Aug 31 04:57	0° <b>M</b> ₊		morning rise	4618 Aug 25 13:15	19° <b>Ω</b> 21'49	
desc. node	4613 Sep 25 06:21	15° <b>M</b> ₊19'56			4618 Sep 10 10:06	0° <b>m</b> y	
	4613 Oct 18 08:04	0° <b>∡</b> ¹			4618 Oct 26 17:14	0∘ <b>ত</b>	
	4613 Dec 02 04:03	0° <b>ප</b>			4618 Dec 14 14:34	0°M₊	
evening set	4613 Dec 18 09:35	11° <b>る</b> 21'01			4619 Feb 06 03:08	0° <b>∡</b> ¹	
max. Earth dist.	4614 Jan 01 13:58		2.45856 AU	retrograde	4619 May 03 20:00	28° <b>҂</b> ⁴48'12	
	4614 Jan 13 07:31	0° <b>≈</b>		desc. node	4619 May 18 02:31	27° <b>₹</b> 31'14	
				opposition	4619 Jun 10 03:39	20° <b>₹</b> 37'48	
conjunction	4614 Feb 10 06:50	20° <b>≈</b> 48'45		greatest brilliancy	4619 Jun 10 09:03	20° <b>∡</b> ³32'44	-1.7m
minimum elong	4614 Feb 10 05:38	20°≈46'30	1°02'13	min. Earth dist.	4619 Jun 16 22:32	18° <b>∡</b> *04'53	0.58429 AU
	4614 Feb 22 08:53	0° <b>∀</b>		direct	4619 Jul 20 18:38	10° <b>∡</b> 754'45	
	4614 Apr 02 01:38	0° <b>Υ</b> 9° <b>Υ</b> 25'19			4619 Sep 20 20:44	ව°0 •••0	
morning rise	4614 Apr 14 01:36				4619 Nov 09 04:30	0° <b>≈</b>	
	4614 May 10 05:14	0°H 0°S			4619 Dec 21 02:42	0° <b>ℋ</b> 0° <b>Ƴ</b>	
	4614 Jun 17 16:44				4620 Jan 29 10:04		
asc. node	4614 Jul 27 09:51 4614 Aug 04 19:50	0°ତ 6°ତ୍ତ10'44		asc. node	4620 Mar 08 00:58 4620 Mar 26 17:09	0° <b>8</b> 14° <b>8</b> 24'06	
asc. node	-			asc. node			
	4614 Sep 07 07:20 4614 Oct 22 17:13	0° <b>Ω</b> 0° <b>m</b>			4620 Apr 16 05:03 4620 May 26 18:53	0° <b>©</b>	
	4614 Dec 14 11:11	0° <del>ت</del>		avaning sat	4620 Jun 25 02:52	20°952'33	
retrograde	4615 Feb 18 20:20	0 <b>≗</b> 19° <b>£</b> 55'59		evening set	4620 Jul 08 05:52	20 <b>2</b> 52 33	
opposition	4615 Mar 31 03:40	19 <b>⊆</b> 3339	3°54'46		1020 341 00 03.32	V 0 L	
greatest brilliancy	4615 Mar 31 01:37	10° <b>⊆</b> 0833	-1.3m	conjunction	4620 Aug 17 20:17	27° <b>Ω</b> 27'42	1°05'57
min. Earth dist.	4615 Mar 30 13:08	10° <b>⊆</b> 23'06	0.67673 AU	minimum elong	4620 Aug 17 20:17 4620 Aug 17 19:33	27° <b>Ω</b> 26'31	1°05'57
direct	4615 May 10 18:00	0° <b>£</b> 25'02	5.07075 AU	minimum ciong	4620 Aug 21 16:14	0° m)	1 0001
	4615 Aug 06 21:05	0° <b>M</b> ₊		max. Earth dist.	4620 Sep 06 16:38	10° <b>m</b> ) 31'39	2.61964 AU
desc. node	4615 Aug 13 05:09	3°M22'58		morning rise	4620 Oct 05 12:38	29° <b>m</b> ) 10'19	
	4615 Sep 27 19:26	0° <b>∡</b> ¹			4620 Oct 06 19:40	0ಂ <del>ರ</del>	
	4615 Nov 12 16:48	0°ප			4620 Nov 23 07:13	0° <b>M</b> ₊	
	4615 Dec 24 23:24	0° <b>≈</b>			4621 Jan 11 00:53	0° <b>∡</b> ¹	
	4616 Feb 02 19:29	0° <b>∀</b>			4621 Mar 02 23:05	0°ರ	

desc. node	4621 Apr 04 01:27	17° <b>る</b> 27'40			4626 Aug 10 20:26	0∘ <b>ত</b>	
dese. node	4621 Apr 30 02:53	0°≈			4626 Sep 28 06:35	0° <b>M</b>	
retrograde	4621 Jun 25 22:06	14° <b>≈</b> 54'22		evening set	4626 Oct 23 08:59	15°ML58'00	
opposition	4621 Jul 29 06:34	8° <b>≈</b> 30'47	-5°01'56	8	4626 Nov 14 00:04	0° <b>∡</b> ¹	
greatest brilliancy	4621 Jul 30 17:33	8° <b>≈</b> 02'02	-2.4m	max. Earth dist.	4626 Nov 16 08:42	1° <b>∡</b> ³32'52	2.61492 AU
min. Earth dist.	4621 Aug 06 16:20	5°≈46'20	0.45633 AU	desc. node	4626 Nov 24 22:25	7° <b>҂</b> 12'01	
direct	4621 Sep 03 15:08	0° <b>≈</b> 42'54					
	4621 Nov 18 14:44	0° <b>)</b> €		conjunction	4626 Dec 08 05:01	16° <b>∡</b> ¹02'50	-0°07'23
	4622 Jan 01 19:46	$0^{\circ}$ $\Upsilon$		minimum elong	4626 Dec 08 04:44	16° <b>∡</b> 02'23	0°07'23
asc. node	4622 Feb 11 16:46	29° <b>Ƴ</b> 49'18		behind sun begin	4626 Dec 07 11:11	15° <b>∡</b> ³32'57	
	4622 Feb 11 22:35	0°8		behind sun end	4626 Dec 08 22:18	16° <b>∡</b> ³31'49	
	4622 Mar 24 21:52	$\Pi$ $^{\circ}0$			4626 Dec 28 18:58	0°ರ	
	4622 May 05 23:22	0ංම		morning rise	4627 Jan 24 06:48	18° <b>る</b> 24'04	
	4622 Jun 18 15:44	$0$ $^{\circ}$ $\Omega$			4627 Feb 09 14:54	0° <b>≈</b>	
	4622 Aug 02 23:32	0° <b>m</b> )			4627 Mar 22 17:05	0° <b>∀</b>	
evening set	4622 Aug 10 09:04	4° <b>m</b> ) 48'38			4627 May 01 12:04	0° <b>Υ</b>	
	4622 Sep 18 12:52	0∘ <b>⊽</b>			4627 Jun 09 15:33	0°B	
					4627 Jul 19 01:56	0°П	
conjunction	4622 Sep 26 20:40	5° <b>£</b> 18'41	1°02'00		4627 Aug 29 05:17	0°9	
minimum elong	4622 Sep 26 21:31	5° <b>£</b> 20'02	1°02'00	asc. node	4627 Oct 04 14:34	24°9517'46	
max. Earth dist.	4622 Oct 01 05:09	8° <b>Ω</b> 05'04	2.67255 AU		4627 Oct 13 22:03	0° <b>Ω</b>	
	4622 Nov 04 16:34	0°M		retrograde	4628 Jan 01 08:04	29° <b>£</b> 38′02	0.50676.444
morning rise	4622 Nov 10 14:25	3°M45'17		min. Earth dist.	4628 Feb 03 18:14		0.58676 AU
	4622 Dec 21 20:37 4623 Feb 06 18:41	7×°0 7°0 7°0		opposition	4628 Feb 09 16:50 4628 Feb 08 17:01	19° <b>Ω</b> 48'54	
JJ.		8° <b>ろ</b> 30'20		greatest brilliancy		20° <b>Ω</b> 12'23	-1.7m
desc. node	4623 Feb 20 01:10 4623 Mar 25 14:24	8° <b>⊘</b> 30′20		direct	4628 Mar 17 16:43	11° <b>Ω</b> 19'15	
	4623 May 11 23:38	0 <b>≈</b> 0° <b>∀</b>			4628 May 22 10:14 4628 Jul 19 01:09	0 <b>்⊽</b> 0°™	
	4623 Jul 01 10:11	0° <b>Υ</b>			4628 Sep 07 23:18	0 <b>==</b> 0° <b>M</b>	
retrograde	4623 Sep 12 12:55	25° <b>Y</b> 20'46		desc. node	4628 Oct 11 20:52	21°ML12'23	
opposition	4623 Oct 12 15:38	20°Υ18'35	-5°13'49	dese. Hode	4628 Oct 25 11:56	0°×7	
min. Earth dist.	4623 Oct 11 23:19	20° <b>Υ</b> 29'22		evening set	4628 Nov 30 21:33	24° <b>х</b> 17'02	
greatest brilliancy	4623 Oct 12 17:32	20° <b>Υ</b> 17'20		evening sec	4628 Dec 09 05:11	0°ਰ	
direct	4623 Nov 11 02:24	15° <b>Y</b> ′24'50		max. Earth dist.	4628 Dec 15 22:16		2.50963 AU
asc. node	4623 Dec 30 15:18	28° <b>Ƴ</b> 59'40					
	4624 Jan 01 17:37	0°8		conjunction	4629 Jan 20 07:15	29° <b>る</b> 52'26	-0°51'03
	4624 Feb 23 10:55	$\mathfrak{I}$		minimum elong	4629 Jan 20 05:38	29° <b>る</b> 49'28	0°51'02
	4624 Apr 10 15:36	0°ഇ			4629 Jan 20 11:25	0° <b>≈</b>	
	4624 May 27 08:29	$0^{\circ}\Omega$			4629 Mar 01 17:49	0° <b>₩</b>	
	4624 Jul 13 13:07	0° <b>m</b> ∕		morning rise	4629 Mar 17 18:05	12° <b>)</b> 14′50	
	4624 Aug 30 03:21	0∘ <b>⊽</b>			4629 Apr 09 15:51	$0^{\circ}$ Y	
evening set	4624 Sep 16 20:07	11° <b>≙</b> 09'26			4629 May 17 23:55	$0^{\circ}S$	
	4624 Oct 16 13:55	0° <b>M</b> .			4629 Jun 25 14:44	$\Pi^{\circ}0$	
max. Earth dist.	4624 Oct 22 20:21	3°M59'41	2.67078 AU		4629 Aug 04 11:28	0ංම	
				asc. node	4629 Aug 21 13:16	12° <b>©</b> 23'04	
conjunction	4624 Nov 01 00:07	9° <b>M</b> 50′50			4629 Sep 15 17:45	$0$ $^{\circ}$ $\Omega$	
minimum elong	4624 Nov 01 01:03	9° <b>M</b> ₅52'19	0°34'28		4629 Nov 01 09:48	0° <b>m</b> )	
	4624 Dec 02 05:24	0° ⊀ <sup>7</sup> 8° ⋅ <b>7</b> 126152		notno a J -	4629 Dec 31 20:19	0° <b>⊽</b>	
morning rise	4624 Dec 15 03:35	8° ₹26'53		retrograde	4630 Feb 05 13:31	6° <b>£</b> 59'05	
desc. node	4625 Jan 06 24:00	23° <b>メ</b> 33'18 0°る		min Forth dist	4630 Mar 10 10:25	30°RMp 27°m 55'10	0.66200 ATT
	4625 Jan 16 15:21 4625 Mar 01 16:23	0° <b>⊗</b>		min. Earth dist. opposition	4630 Mar 15 17:24 4630 Mar 17 20:30	27° Mp 55'10 27° Mp 03'59	0.66398 AU 4°22'25
	4625 Apr 13 10:05	0 <b>≈</b> 0° <b>∺</b>		greatest brilliancy	4630 Mar 17 12:32	27° mp 11'58	-1.3m
	4625 May 25 03:45	0° <b>Υ</b>		direct	4630 Apr 26 16:46	17° <b>m</b> ) 35'15	-1.3111
	4625 Jul 05 14:47	0° <b>8</b>		uncet	4630 Jun 17 16:41	0₀ <b>ʊ</b>	
	4625 Aug 17 16:00	0°II			4630 Aug 16 22:14	0° <b>m</b> .	
	4625 Oct 08 18:01	0°9		desc. node	4630 Aug 29 19:54	7°M25'06	
asc. node	4625 Nov 16 14:30	9°951'00			4630 Oct 05 20:01	0° <b>∡¹</b>	
retrograde	4625 Nov 17 09:51	9° <b>9</b> 51'17			4630 Nov 20 04:18	0°ප	
min. Earth dist.	4625 Dec 15 03:11	4°932'44	0.45829 AU		4631 Jan 01 08:28	0° <b>≈</b>	
opposition	4625 Dec 23 13:14	1°536'48		evening set	4631 Jan 19 06:23	13° <b>≈</b> 18′00	
greatest brilliancy	4625 Dec 22 19:41	1°952'10		-	4631 Feb 10 05:47	0° <b>\</b>	
	4625 Dec 28 06:34	30° <b>Ŗ</b> Ⅱ		max. Earth dist.	4631 Feb 17 05:40	5° <b>)</b> 23′34	2.38156 AU
direct	4626 Jan 25 06:39	24° <b>Ⅱ</b> 55'27			4631 Mar 20 17:22	$0^{\circ}$ Y	
	4626 Feb 24 01:24	0ංම					
	4626 Apr 30 10:22	$0^{\circ}\Omega$		conjunction	4631 Mar 21 22:48	0° <b>Ƴ</b> 57'58	
	4626 Jun 21 21:37	0° <b>m</b> ∕		minimum elong	4631 Mar 22 00:58	1° <b>Y</b> 02'14	1°00'17

	4621 A 27 16 52	000		1 1	4626 4 20 16 44	170710111	
	4631 Apr 27 16:53	0°8		desc. node	4636 Apr 20 16:44	16°る10'11	
morning rise	4631 Jun 01 06:14	27° <b>8</b> 02'55		retrograde	4636 Jun 02 07:09	25° <b>පි</b> 06'06	
	4631 Jun 05 01:50	$\Pi^{\circ}0$		opposition	4636 Jul 07 09:57	17° <b>る</b> 53'46	
asc. node	4631 Jul 09 11:37	26° <b>Ⅱ</b> 07'49		greatest brilliancy	4636 Jul 08 09:22	17° <b>る</b> 33'04	-2.1m
	4631 Jul 14 16:37	0		min. Earth dist.	4636 Jul 15 17:19	14° <b>る</b> 58'11	0.50964 AU
	4631 Aug 25 07:39	$0 {\circ} \Omega$		direct	4636 Aug 15 00:09	9° <b>る</b> 03'10	
	4631 Oct 08 17:32	0° <b>m</b> p			4636 Oct 17 05:08	0° <b>≈</b>	
	4631 Nov 26 08:52	0∘ <b>⊽</b>			4636 Dec 03 00:43	0° <b>∀</b>	
	4632 Jan 25 05:00	0°M			4637 Jan 13 02:08	$0^{\circ}\mathbf{\Upsilon}$	
retrograde	4632 Mar 10 20:40	10°M14'45			4637 Feb 21 17:55	0°8	
opposition	4632 Apr 19 19:21	0°M46'24	2°52'15	asc. node	4637 Feb 28 08:15	4° <b>8</b> 59'26	
greatest brilliancy	4632 Apr 19 23:49		-1.3m		4637 Apr 02 17:43	0°II	
<i>B. v</i> v	4632 Apr 21 18:13	30° <b>Ŗ</b> Ω			4637 May 14 00:50	0°©	
min. Earth dist.	4632 Apr 21 12:48	0°M05'21	0.67605 AU		4637 Jun 26 02:47	$0 {\circ} \Omega$	
direct	4632 May 31 03:10	20° <b>£</b> 47'58	0.07003710	evening set	4637 Jul 24 17:47	19° <b>Ω</b> 15'33	
uncet	4632 Jul 13 08:24	0°M		evening set	4637 Aug 10 00:02	0°m)	
daga mada					403 / Aug 10 00.02	עוויט	
desc. node	4632 Jul 16 18:50	1°ML19'10			1627.6 12.02.00	2107 20104	1006157
	4632 Sep 11 22:33	0° <b>∡</b> 7		conjunction	4637 Sep 12 02:08	21° To 30'04	1°06'57
	4632 Oct 29 15:07	0°る		minimum elong	4637 Sep 12 02:33	21°Mp30'45	1°06'57
	4632 Dec 11 10:20	0° <b>≈</b>		max. Earth dist.	4637 Sep 22 02:35	27° Mp 56'18	2.65841 AU
	4633 Jan 20 09:13	0° <b>₩</b>			4637 Sep 25 07:47	0∘ <b>⊽</b>	
	4633 Feb 27 18:50	$0$ ° $\mathbf{\Upsilon}$		morning rise	4637 Oct 27 21:42	20° <b>≏</b> 44'58	
evening set	4633 Mar 26 18:22	21° <b>Y</b> 20'43			4637 Nov 11 12:24	0° <b>M</b>	
	4633 Apr 06 17:22	$6^{\circ}B$			4637 Dec 29 02:54	0° <b>∡</b> ¹	
	4633 May 15 03:55	$\Pi^{\circ}0$			4638 Feb 15 02:50	0°రె	
asc. node	4633 May 26 11:45	8° <b>Ⅱ</b> 40′18		desc. node	4638 Mar 08 15:34	13° <b>る</b> 17'18	
	,				4638 Apr 05 05:12	0° <b>≈</b>	
conjunction	4633 Jun 03 12:48	14° <b>Ⅱ</b> 46'16	0°05'31		4638 May 28 04:22	0° <b>)</b> €	
minimum elong	4633 Jun 03 12:17	14° <b>I</b> I45'18	0°05'30	retrograde	4638 Aug 10 16:23	24° <b>¥</b> 27'02	
behind sun begin	4633 Jun 02 09:33	13° <b>∏</b> 54'49	0 03 30	•	•	19° <b>¥</b> 20'15	6924144
Č				opposition	4638 Sep 10 01:47		
behind sun end	4633 Jun 04 15:02	15° <b>Ⅱ</b> 35'44		greatest brilliancy	4638 Sep 11 06:23	19° <b>)</b> €00'21	-2.8m
	4633 Jun 23 22:11	0°©		min. Earth dist.	4638 Sep 14 19:58	18° <b>米</b> 01′03	0.38613 AU
max. Earth dist.	4633 Jul 22 04:00	20° <b>©</b> 29'39	2.46117 AU	direct	4638 Oct 11 18:01	13° <b>)</b> 40′52	
	4633 Aug 04 14:42	$0 {\circ} \Omega$			4638 Dec 04 07:41	0° <b>Υ</b>	
morning rise	4633 Aug 05 19:13	0° <b>Ω</b> 49'57		asc. node	4639 Jan 16 08:24	25° <b>Y</b> 43'04	
	4633 Sep 17 14:16	0° <b>m</b>			4639 Jan 22 21:29	$9^{\circ}$ 8	
	4633 Nov 03 04:00	0∘ <b>⊽</b>			4639 Mar 08 09:34	$\Pi$ $^{\circ}0$	
	4633 Dec 23 05:09	$0^{\circ}$ M.			4639 Apr 21 13:55	$0$ $\circ$ $\odot$	
	4634 Feb 19 19:34	0° <b>∡</b> ¹			4639 Jun 05 16:28	$0^{\circ}\Omega$	
retrograde	4634 Apr 17 04:14	14° <b>∡</b> ¹21'07			4639 Jul 21 22:46	0° m/y	
opposition	4634 May 25 12:49	5° <b>∡</b> ¹42'44	0°21'14	evening set	4639 Sep 03 09:43	27° <b>m</b> ) 41'42	
greatest brilliancy	4634 May 25 14:48	5° <b>х</b> 40′50	-1.6m	8	4639 Sep 07 00:54	0∘ <u>⊽</u>	
min. Earth dist.	4634 May 30 23:49	3° <b>∡</b> 1050	0.62222 AU	max. Earth dist.	4639 Oct 15 01:40	ა <b>—</b> 24° <b>ჲ</b> 07'44	2.67797 AU
desc. node	4634 Jun 03 17:49	2° <b>₹</b> 12'49	0.02222 710	max. Earth dist.	4037 001 13 01.40	24 = 07 44	2.07777710
uese. Houe	4634 Jun 10 04:32	30°RM		conjunction	4639 Oct 19 02:40	26° <b>≏</b> 41'52	0047!16
J:							
direct	4634 Jul 05 18:35	25°M45'18		minimum elong	4639 Oct 19 03:44	26° <b>Ω</b> 43'34	0°47'16
	4634 Aug 02 01:35	0° <b>∡</b>			4639 Oct 24 07:13	0°M	
	4634 Oct 04 11:26	5°0		morning rise	4639 Dec 02 02:56	24°M51'50	
	4634 Nov 19 03:46	0° <b>≈</b>			4639 Dec 10 01:46	0° <b>⊼</b>	
	4634 Dec 30 01:39	0° <b>∀</b>		desc. node	4640 Jan 24 14:29	29° <b>∡</b> ¹46′26	
	4635 Feb 06 21:51	0°Υ			4640 Jan 24 22:41	0°₹	
	4635 Mar 17 04:55	0°8			4640 Mar 09 18:57	0° <b>≈</b>	
asc. node	4635 Apr 13 10:14	21° <b>8</b> 06'17			4640 Apr 22 17:04	0° <b>∀</b>	
	4635 Apr 25 01:27	$\Pi$ $^{\circ}0$			4640 Jun 05 02:29	$0^{\circ}$ Y	
evening set	4635 Jun 04 03:12	29° <b>Ⅱ</b> 52'22			4640 Jul 19 05:09	0° <b>႘</b>	
	4635 Jun 04 07:23	0°ಲಾ			4640 Sep 07 10:01	$\Pi^{\circ}0$	
	4635 Jul 16 10:56	$0^{\circ}\Omega$		retrograde	4640 Oct 25 19:19	13° <b>Ⅲ</b> 59'35	
				min. Earth dist.	4640 Nov 21 05:48	9° <b>Ⅱ</b> 23'26	0.40820 AU
conjunction	4635 Jul 31 19:29	10° <b>Ω</b> 34'51	0°58'14	opposition	4640 Nov 28 13:54	7° <b>I</b> 105'35	
minimum elong	4635 Jul 31 17:54	10° <b>Ω</b> 32'09	0°58'14	greatest brilliancy	4640 Nov 28 12:02	7° <b>П</b> 07'03	
max. Earth dist.	4635 Aug 28 00:10	28° <b>Ω</b> 54'22		asc. node	4640 Dec 03 08:22	5° <b>П</b> 38'05	2.0111
man. Darui dist.	•	0° M)	2.30712 AU			1° <b>∏</b> 21′20	
manufacture	4635 Aug 29 15:42			direct	4640 Dec 29 07:01		
morning rise	4635 Sep 21 06:28	14° <b>m</b> 51'37			4641 Mar 20 17:03	0° <b>⊙</b>	
	4635 Oct 14 18:16	0∘ <b>亚</b>			4641 May 11 21:03	0° <b>N</b>	
	4635 Dec 01 14:17	0° <b>M</b> .			4641 Jun 30 10:45	0° m/y	
	4636 Jan 20 12:38	0° <b>∡</b> ″			4641 Aug 18 05:19	0∘ <b>⊽</b>	
	4636 Mar 15 05:08	0°₹			4641 Oct 05 03:51	0° <b>M</b>	

evening set	4641 Oct 09 02:46	2°M30'28			4646 Jun 12 17:56	0° <b>I</b> I	
max. Earth dist.	4641 Nov 06 11:56		2.64303 AU		4646 Jul 22 09:13	0°9	
	4641 Nov 20 19:12	0° <b>∡</b> 7		asc. node	4646 Jul 26 04:58	2°549'21	
					4646 Sep 02 02:39	$0^{\circ}\Omega$	
conjunction	4641 Nov 23 07:53	1° <b>₹</b> 39'21	0°09'58		4646 Oct 16 23:53	0° <b>m</b>	
minimum elong	4641 Nov 23 08:12	1° <b>₹</b> 39'52	0°09'59		4646 Dec 06 14:39	0∘ <u>⊽</u>	
behind sun begin	4641 Nov 22 17:06	1° <b>√</b> 15'09		retrograde	4647 Feb 26 10:51	27° <b>£</b> 38'52	
behind sun end	4641 Nov 23 23:18	2° <b>҂</b> 04'35		opposition	4647 Apr 07 15:59		3°34'16
desc. node	4641 Dec 11 12:57	13° <b>∡</b> 741'16		greatest brilliancy	4647 Apr 07 16:42	17° <b>£</b> 56'29	-1.3m
	4642 Jan 04 18:40	ರ°0		min. Earth dist.	4647 Apr 07 21:10	17° <b>≙</b> 52'02	0.67931 AU
morning rise	4642 Jan 07 17:27	2°る00'35		direct	4647 May 18 13:49	8° <b>≏</b> 07'18	
8	4642 Feb 16 23:49	0° <b>≈</b>			4647 Jul 30 05:41	0°M	
	4642 Mar 30 14:16	0° <b>∀</b>		desc. node	4647 Aug 03 10:05	2°M04'23	
	4642 May 09 22:36	$_0$ ° $\gamma$			4647 Sep 22 05:19	0° <b>∡</b> ¹	
	4642 Jun 18 16:09	0°8			4647 Nov 07 16:00	ರ°೦	
	4642 Jul 28 20:08	0° <b>I</b> I			4647 Dec 20 02:49	0° <b>≈</b>	
	4642 Sep 09 10:00	0ංම			4648 Jan 28 23:52	0° <b>∀</b>	
asc. node	4642 Oct 21 06:35	25°©17'31		evening set	4648 Feb 27 08:33	22° <b>升</b> 52'53	
	4642 Oct 30 17:30	$0^{\circ}\Omega$		C	4648 Mar 07 09:14	$0$ $^{\circ}$ $\mathbf{\Upsilon}$	
retrograde	4642 Dec 16 09:42	12° <b>Ω</b> 34'55			4648 Apr 14 07:10	0°8	
min. Earth dist.	4643 Jan 16 15:12	5° <b>Ω</b> 53'37	0.54065 AU		•		
opposition	4643 Jan 23 21:23	3° <b>Ω</b> 06'45	4°08'13	conjunction	4648 May 06 02:32	17° <b>8</b> 08'16	-0°25'02
greatest brilliancy	4643 Jan 22 18:39	3° <b>Ω</b> 32'28	-1.9m	minimum elong	4648 May 06 04:58	17° <b>8</b> 13'01	0°25'01
· ·	4643 Feb 01 09:53	30°Rூ		C	4648 May 22 16:07	$\Pi^{\circ}0$	
direct	4643 Feb 28 09:21	25°©12'01		asc. node	4648 Jun 12 03:01	15° <b>Ⅱ</b> 37'50	
	4643 Mar 29 22:18	$0^{\circ}\Omega$		max. Earth dist.	4648 Jun 27 00:12	26° <b>Ⅱ</b> 47'50	2.40663 AU
	4643 Jun 05 10:52	0° <b>m</b>			4648 Jul 01 07:46	0ಂತಾ	
	4643 Jul 28 16:57	0∘ <b>⊽</b>		morning rise	4648 Jul 13 22:25	9° <b>©</b> 15'43	
	4643 Sep 16 08:53	0°M,		C	4648 Aug 11 22:02	$0^{\circ}\Omega$	
desc. node	4643 Oct 29 11:27	27°M22'59			4648 Sep 24 22:35	0° <b>m</b> )	
	4643 Nov 02 11:48	0° <b>∡</b> ¹			4648 Nov 10 23:41	0° <del>ق</del>	
evening set	4643 Nov 15 19:17	8° <b>∡</b> ¹46′00			4649 Jan 01 22:48	0° <b>M</b> ,	
max. Earth dist.	4643 Dec 03 18:17	20° <b>∡</b> ¹48'51	2.55616 AU		4649 Mar 20 17:00	0° <b>∡</b> ¹	
	4643 Dec 17 04:48	0°రె		retrograde	4649 Apr 01 22:53	0° <b>∡</b> ¹51'51	
					4649 Apr 13 15:43	30°₽ <b>M</b> J	
conjunction	4644 Jan 02 19:22	11° <b>ප</b> 33'31	-0°35'17	opposition	4649 May 11 02:18	21°M50'38	1°27'20
minimum elong	4644 Jan 02 18:06	11° <b>ප</b> 31'16	0°35'16	greatest brilliancy	4649 May 11 07:52	21°M45'12	-1.4m
	4644 Jan 28 15:31	0° <b>≈</b>		min. Earth dist.	4649 May 15 02:47	20°M16'33	0.65117 AU
morning rise	4644 Feb 23 11:29	18° <b>≈</b> 58'22		desc. node	4649 Jun 20 08:30	11°ML48'30	
	4644 Mar 09 04:40	0° <b>)</b> €		direct	4649 Jun 21 14:15	11° <b>M</b> 47'55	
	4644 Apr 17 09:26	$0$ ° $\mathbf{\gamma}$			4649 Aug 23 12:34	0° <b>∡</b> ¹	
	4644 May 25 23:14	$9^{\circ}$ 8			4649 Oct 15 00:52	0°ರ	
	4644 Jul 03 18:56	$\mathfrak{I}$ 0°			4649 Nov 28 02:03	0° <b>≈</b>	
	4644 Aug 12 22:01	$0$ $\circ$ $\odot$			4650 Jan 07 11:04	0° <b>)</b> €	
asc. node	4644 Sep 07 05:41	18° <b>©</b> 01'21			4650 Feb 15 00:54	$0$ $^{\circ}$ $\Upsilon$	
	4644 Sep 24 20:25	$0^{\circ}\Omega$			4650 Mar 25 02:49	0°8	
	4644 Nov 13 00:57	O° My		asc. node	4650 Apr 30 02:46	27° <b>8</b> 59'16	
retrograde	4645 Jan 23 00:02	23° <b>m</b> 27'52			4650 May 02 17:47	$\Pi$ $^{\circ}0$	
min. Earth dist.	4645 Feb 28 11:19	14° <b>m</b> 56'57	0.64140 AU	evening set	4650 May 10 01:50	5° <b>Ⅱ</b> 35'50	
opposition	4645 Mar 04 02:49	13° <b>m</b> 29'24	4°39'27		4650 Jun 11 17:27	0°€	
greatest brilliancy	4645 Mar 03 12:19	13° <b>m</b> 43'55	-1.4m				
direct	4645 Apr 12 00:22	4° <b>m</b> 19′36		conjunction	4650 Jul 11 13:11	21° <b>5</b> 30'22	0°43'43
	4645 Jul 01 23:41	0∘ <b>ত</b>		minimum elong	4650 Jul 11 11:01	21° <b>5</b> 26'31	0°43'42
	4645 Aug 25 17:34	0° <b>M</b>			4650 Jul 23 15:03	$0 {\circ} \Omega$	
desc. node	4645 Sep 15 10:37	12°M26'20		max. Earth dist.	4650 Aug 16 01:13	16° <b>Ω</b> 08'26	2.54098 AU
	4645 Oct 13 10:00	0° <b>∡</b> ¹		morning rise	4650 Sep 04 18:42	29° <b>Ω</b> 24'44	
		5°0			4650 Sep 05 15:54	0° <b>m</b>	
evening set	4645 Nov 27 10:21					00.0	
-	4645 Nov 27 10:21 4645 Dec 29 06:16	22° <b>る</b> 28'57			4650 Oct 21 19:54	0∘ <b>ত</b>	
					4650 Oct 21 19:54 4650 Dec 09 05:10	$0^{\circ}$ M	
max. Earth dist.	4645 Dec 29 06:16	22° <b>ප</b> 28'57 0°≈ 4°≈05'25	2.42938 AU			0° <b>M</b> 0° <b>⊀</b>	
max. Earth dist.	4645 Dec 29 06:16 4646 Jan 08 14:20	22°る28'57 0°≈	2.42938 AU		4650 Dec 09 05:10	$0^{\circ}$ M	
max. Earth dist.	4645 Dec 29 06:16 4646 Jan 08 14:20 4646 Jan 14 03:57	22° <b>ප</b> 28'57 0°≈ 4°≈05'25	2.42938 AU	desc. node	4650 Dec 09 05:10 4651 Jan 30 00:17	0° <b>ル</b> 0°ダ 0°उ 7°उ54'40	
max. Earth dist.	4645 Dec 29 06:16 4646 Jan 08 14:20 4646 Jan 14 03:57	22° <b>ප</b> 28'57 0°≈ 4°≈05'25		desc. node retrograde	4650 Dec 09 05:10 4651 Jan 30 00:17 4651 Apr 03 14:58	0°™ 0°♂ 0°♂	
	4645 Dec 29 06:16 4646 Jan 08 14:20 4646 Jan 14 03:57 4646 Feb 17 14:37 4646 Feb 23 15:08 4646 Feb 23 14:48	22° <b>♂</b> 28'57 0°≈ 4°≈05'25 0° <b>ℋ</b> 4° <b>ℋ</b> 37'24 4° <b>ℋ</b> 36'47	-1°05'03		4650 Dec 09 05:10 4651 Jan 30 00:17 4651 Apr 03 14:58 4651 May 08 06:57	0°肌 0°ダ 0°उ 7°उ54'40 8°उ06'59 0°उ14'56	
conjunction	4645 Dec 29 06:16 4646 Jan 08 14:20 4646 Jan 14 03:57 4646 Feb 17 14:37 4646 Feb 23 15:08	22° <b>♂</b> 28'57 0°≈ 4°≈05'25 0° <b>光</b> 4° <b>升</b> 37'24 4° <b>升</b> 36'47 0° <b>⋎</b>	-1°05'03	retrograde	4650 Dec 09 05:10 4651 Jan 30 00:17 4651 Apr 03 14:58 4651 May 08 06:57 4651 May 14 04:18	0°肌 0°ダ 0°℧ 7°℧54'40 8°℧06'59	
conjunction	4645 Dec 29 06:16 4646 Jan 08 14:20 4646 Jan 14 03:57 4646 Feb 17 14:37 4646 Feb 23 15:08 4646 Feb 23 14:48	22°♂28'57 0°≈ 4°≈05'25 0°ℋ 4°ℋ37'24 4°ℋ36'47 0°Ƴ 26°Ƴ41'09	-1°05'03	retrograde opposition	4650 Dec 09 05:10 4651 Jan 30 00:17 4651 Apr 03 14:58 4651 May 08 06:57 4651 May 14 04:18 4651 Jun 19 18:45	0°M 0°조 0°उ 7°उ54'40 8°उ06'59 0°उ14'56 0°उ04'40 30°Rズ	-1.8m
conjunction minimum elong	4645 Dec 29 06:16 4646 Jan 08 14:20 4646 Jan 14 03:57 4646 Feb 17 14:37 4646 Feb 23 15:08 4646 Feb 23 14:48 4646 Mar 28 05:37	22° <b>♂</b> 28'57 0°≈ 4°≈05'25 0° <b>光</b> 4° <b>升</b> 37'24 4° <b>升</b> 36'47 0° <b>⋎</b>	-1°05'03	retrograde opposition	4650 Dec 09 05:10 4651 Jan 30 00:17 4651 Apr 03 14:58 4651 May 08 06:57 4651 May 14 04:18 4651 Jun 19 18:45 4651 Jun 20 05:52	0°M 0°조 0°उ 7°उ54'40 8°उ06'59 0°उ14'56 0°उ04'40 30°Rズ	

direct	4651 Jul 29 20:05	20° <b>∡</b> ⁴45'40		minimum elong	4656 Nov 09 01:45	17° <b>M</b> 59'47	0°25'57
	4651 Sep 08 07:22	0° <b>ප</b>			4656 Nov 27 13:58	0° <b>∡</b> ¹	
	4651 Nov 02 00:03	0° <b>≈</b>		morning rise	4656 Dec 23 11:30	17° <b>∡</b> °02'47	
	4651 Dec 15 00:51	0° <b>∀</b>		desc. node	4656 Dec 28 03:57	20° <b>₹</b> 09'55	
	4652 Jan 23 19:09	0° <b>Υ</b>			4657 Jan 11 20:01	0°ಕ	
	4652 Mar 02 16:41	0°8			4657 Feb 24 13:20	0° <b>≈</b>	
asc. node	4652 Mar 17 02:17	11° <b>8</b> 03'11			4657 Apr 07 20:20	0° <b>∀</b>	
	4652 Apr 11 02:00	0° <b>Ⅱ</b>			4657 May 18 23:59	0° <b>Υ</b>	
	4652 May 21 20:08	0° <b>©</b>			4657 Jun 28 16:07	8°0	
. ,	4652 Jul 03 10:50	0°N			4657 Aug 09 05:38	U°0 T°0	
evening set	4652 Jul 06 10:13	2° <b>Ω</b> 02'39 0° <b>m</b>		asc. node	4657 Sep 24 09:10 4657 Nov 06 23:59	0° <b>©</b> 19° <b>©</b> 45'24	
	4652 Aug 16 23:34	עוו ט		retrograde	4657 Nov 28 14:57	19 <b>34</b> 3 24 22° <b>9</b> 55'27	
conjunction	4652 Aug 27 09:06	6° m 50'20	1°07'44	min. Earth dist.	4657 Dec 27 12:47	17° <b>©</b> 07'08	0.48817 AU
minimum elong	4652 Aug 27 08:52	6° Mp 49'57	1°07'44	opposition	4658 Jan 04 17:53	17 <b>3</b> 07 08	3°05'35
max. Earth dist.	4652 Sep 12 13:19			greatest brilliancy	4658 Jan 03 18:10	14°529'32	-2.2m
max. Dartii dist.	4652 Oct 02 03:26	0° <b>©</b>	2.03303710	direct	4658 Feb 07 12:45	6°957'33	2.2111
morning rise	4652 Oct 13 20:42	ა — 7° <b>ჲ</b> 29'20		4.1.000	4658 Apr 21 11:56	0° <b>N</b>	
	4652 Nov 18 11:13	0°M			4658 Jun 15 19:23	0° my	
	4653 Jan 05 16:55	0° <b>∡</b> 7			4658 Aug 05 16:48	0∘ <b>⊽</b>	
	4653 Feb 24 07:09	6°0			4658 Sep 23 12:23	0°M	
desc. node	4653 Mar 25 06:05	16° <b>පි</b> 44'48		evening set	4658 Oct 31 16:23	24° <b>M</b> 19'47	
	4653 Apr 18 14:15	0°≈		C	4658 Nov 09 09:09	0°⊀	
retrograde	4653 Jul 11 04:30	28° <b>≈</b> 09'38		desc. node	4658 Nov 15 02:57	3° <b>∡</b> ¹46′06	
opposition	4653 Aug 12 09:02	22° <b>≈</b> 16′14	-5°52'29	max. Earth dist.	4658 Nov 22 08:38	8° <b>₹</b> ³33'00	2.59596 AU
greatest brilliancy	4653 Aug 13 23:21	21° <b>≈</b> 46'33	-2.5m				
min. Earth dist.	4653 Aug 20 05:22	19° <b>≈</b> 51'17	0.42776 AU	conjunction	4658 Dec 17 02:47	25° <b>⊀</b> 11′22	-0°17'42
direct	4653 Sep 16 04:18	15° <b>≈</b> 13'12		minimum elong	4658 Dec 17 02:09	25° <b>х</b> 10′17	0°17'41
	4653 Nov 05 11:37	0° <b>ℋ</b>			4658 Dec 24 03:39	0°ಕ	
	4653 Dec 24 11:34	$0$ ° $\mathbf{\Upsilon}$		morning rise	4659 Feb 03 12:29	29° <b>る</b> 02'54	
asc. node	4654 Feb 02 00:44	27° <b>Ƴ</b> 47'44			4659 Feb 04 20:16	0° <b>≈</b>	
	4654 Feb 05 02:30	0°B			4659 Mar 17 17:40	0° <b>∀</b>	
	4654 Mar 18 21:47	0°Ⅲ			4659 Apr 26 07:04	0° <b>Υ</b>	
	4654 Apr 30 12:31	0°©			4659 Jun 04 04:47	0° <b>8</b>	
	4654 Jun 13 14:21	0° <b>N</b>			4659 Jul 13 08:27	0°∏	
. ,	4654 Jul 29 04:22	0°M)			4659 Aug 22 23:36	0°95	
evening set	4654 Aug 19 08:28	13° <b>™</b> 39'54 0° <b>₽</b>		asc. node	4659 Sep 24 21:47	22° <b>©</b> 41'15 0° <b>Ω</b>	
	4654 Sep 13 21:12	0-22			4659 Oct 06 05:29 4659 Dec 01 03:01	0° <b>m</b> p	
conjunction	4654 Oct 05 01:38	13° <b>≏</b> 29'09	0°57'27	retrograde	4660 Jan 09 19:54	8° Mp 58'13	
minimum elong	4654 Oct 05 02:38	13° <b>⊆</b> 2009	0°57'27	min. Earth dist.	4660 Feb 13 09:43	1°M <sub>2</sub> 05'37	0.60894 AU
max. Earth dist.	4654 Oct 06 10:00		2.67672 AU	mm. Darm dist.	4660 Feb 16 03:56	30°RΩ	0.00071710
max. Dartii dist.	4654 Oct 31 01:03	0°M	2.07072110	opposition	4660 Feb 18 13:02	29° <b>Ω</b> 03'10	4°43'06
morning rise	4654 Nov 18 10:04	11°M42'03		greatest brilliancy	4660 Feb 17 16:09	29° <b>Ω</b> 23'55	-1.6m
C	4654 Dec 17 01:00	0° <b>⊼</b>		direct	4660 Mar 27 06:40	20° <b>Ω</b> 17'35	
	4655 Feb 01 12:52	8°0			4660 May 10 23:19	O° Mp	
desc. node	4655 Feb 10 04:59	5°る38'12			4660 Jul 12 18:56	0∘ <b>ত</b>	
	4655 Mar 19 12:20	0° <b>≈</b>			4660 Sep 02 19:23	$0^{\circ}$ M	
	4655 May 04 07:11	0° <b>)</b> €		desc. node	4660 Oct 02 01:39	18° <b>M</b> 04'18	
	4655 Jun 19 22:16	$0^{\circ}\Upsilon$			4660 Oct 20 17:15	0° <b>∡</b>	
	4655 Aug 11 10:43	$9^{\circ}$ 8			4660 Dec 04 13:31	0°₹	
retrograde	4655 Sep 29 20:47	13° <b>8</b> 48'22		evening set	4660 Dec 10 14:30	4° <b>る</b> 11'16	
min. Earth dist.	4655 Oct 27 06:20		0.37520 AU	max. Earth dist.	4660 Dec 24 20:39	14° <b>る</b> 12'21	2.48192 AU
opposition	4655 Oct 30 21:50	8° <b>8</b> 18'32			4661 Jan 15 19:21	0° <b>≈</b>	
greatest brilliancy	4655 Oct 30 14:20	8° <b>8</b> 23'44	-3.0m		4661 1 21 10 40	110 46107	0050115
direct	4655 Nov 29 09:57	3° <b>8</b> 19'39		conjunction	4661 Jan 31 18:48	11°≈46'07	
asc. node	4655 Dec 21 00:00	6° <b>႘</b> 16'14 0°Ⅱ		minimum elong	4661 Jan 31 17:18	11° <b>≈</b> 43'18	U-38.14
	4656 Feb 12 23:53	0ಂਣ ೧⊾π		morning rice	4661 Feb 24 23:53	0° <b>米</b> 27° <b>米</b> 29'50	
	4656 Apr 03 12:35 4656 May 21 13:07	0°€		morning rise	4661 Apr 01 14:23 4661 Apr 04 19:16	2/°π29'30 0° <b>Υ</b>	
	4656 Jul 08 09:44	0° <b>m</b>			4661 May 13 00:37	0° <b>8</b>	
	4656 Aug 25 08:34	0∘ <del>ت</del> بالا		greatest brilliancy	4661 Jun 09 16:39		1.2m
evening set	4656 Sep 24 23:18	0 <b>=</b> 19° <b>£</b> 14'50		5. Catest offinality	4661 Jun 20 12:54	0° <b>Ⅱ</b>	1,2111
	4656 Oct 11 22:48	0°M			4661 Jul 30 06:08	0°©	
max. Earth dist.	4656 Oct 28 02:09		2.66306 AU	asc. node	4661 Aug 11 20:47	9° <b>©</b> 13'31	
					4661 Sep 10 05:08	$0^{\circ}\Omega$	
conjunction	4656 Nov 09 01:00	17°M58'34	0°25'57		4661 Oct 25 23:04	0° mp	

	4661 Dec 19 16:08	0∘ <b>⊽</b>			4667 Feb 01 15:00	$0^{\circ}\mathbf{Y}$	
retrograde	4662 Feb 13 05:04	0 — 14° <b>Ω</b> 56'11			4667 Mar 12 01:45	0°8	
min. Earth dist.	4662 Mar 24 05:35	5° <b>Ω</b> 35'51	0.67237 AU	asc. node	4667 Apr 03 18:12	17° <b>8</b> 33'08	
opposition	4662 Mar 25 12:44	5° <b>ഫ</b> 04'41	4°07'28		4667 Apr 20 01:32	0° <b>Ⅱ</b>	
greatest brilliancy	4662 Mar 25 08:10	5° <b>ഫ</b> 09'15	-1.3m		4667 May 30 10:28	0°ಅ	
	4662 Apr 08 02:09	30°₽, <b>Т</b> р		evening set	4667 Jun 16 22:28	12° <b>©</b> 35'50	
direct	4662 May 04 19:42	25° Mp 27'21			4667 Jul 11 16:42	$\mathfrak{O}^{\circ}\mathfrak{O}$	
	4662 Jun 03 07:15	0∘ <b>⊽</b>					
	4662 Aug 10 12:28	$0^{\circ}$ M		conjunction	4667 Aug 11 07:24	20° <b>Ω</b> 53′01	1°03'27
desc. node	4662 Aug 20 00:32	5° <b>™</b> 14'58		minimum elong	4667 Aug 11 06:19	20° <b>Ω</b> 51'12	1°03'27
	4662 Sep 30 13:59	0°⊀			4667 Aug 24 23:12	0° <b>™</b>	
	4662 Nov 15 07:12	0°ප		max. Earth dist.	4667 Sep 03 08:04	~	2.60472 AU
	4662 Dec 27 14:00	0° <b>≈</b>		morning rise	4667 Sep 30 02:44	23°m/37'26	
evening set	4663 Feb 01 09:38	26°≈51'56			4667 Oct 10 01:02	0∘ <b>⊽</b>	
	4663 Feb 05 11:42	0° <b>)</b> €			4667 Nov 26 14:55	0°M 0°. <b>₹</b>	
	4663 Mar 15 22:39	$0$ ° $\mathbf{\Upsilon}$			4668 Jan 14 18:49	0° <b>∡</b> 7	
i	4662 A 07 02:40	17° <b>Ƴ</b> 31'36	0051100	11-	4668 Mar 06 23:25	0°궁 17° <b>궁</b> 46'53	
conjunction	4663 Apr 07 02:49	$17^{\circ}$ <b>Y</b> 31'36 $17^{\circ}$ <b>Y</b> 38'04		desc. node	4668 Apr 10 20:32 4668 May 11 01:49	1/° <b>⊙</b> 46′33	
minimum elong max. Earth dist.	4663 Apr 07 06:05 4663 Apr 11 06:41		2.36835 AU	retrograde	4668 Jun 15 02:37	0 ≈ 6°≈22'28	
max. Earm dist.	4663 Apr 22 21:22	0° <b>8</b>	2.30633 AU	renograde	4668 Jul 18 03:02	0 ≈22 28 30°Rる	
	4663 May 31 05:44	0°II		opposition	4668 Jul 19 07:30	29°る35'54	-4°18'54
morning rise	4663 Jun 17 23:38	13° <b>Ⅲ</b> 36′06		greatest brilliancy	4668 Jul 20 14:00		-2.2m
asc. node	4663 Jun 29 21:10	22° <b>I</b> I35'03		min. Earth dist.	4668 Jul 27 20:00	26° <b>පි</b> 42'46	0.48035 AU
	4663 Jul 09 19:44	0° <b>©</b>		direct	4668 Aug 25 18:33	21° <b>る</b> 16'53	
	4663 Aug 20 08:50	$0^{\circ}\Omega$			4668 Oct 02 16:50	0° <b>≈</b>	
	4663 Oct 03 12:56	0° <b>m</b>			4668 Nov 24 21:57	0° <b>)</b> €	
	4663 Nov 20 08:57	$0$ o $\overline{\mathbf{v}}$			4669 Jan 06 10:19	$0^{\circ}$ Y	
	4664 Jan 14 21:55	$0^{\circ}$ M			4669 Feb 15 18:38	$9^{\circ}$ 8	
retrograde	4664 Mar 18 17:46	17° <b>M</b> 58'42		asc. node	4669 Feb 18 17:47	2° <b>8</b> 12'53	
opposition	4664 Apr 27 10:39	8°M38'52	2°23'31		4669 Mar 28 05:25	$\Pi$ °0	
greatest brilliancy	4664 Apr 27 16:14	8°M33'22	-1.3m		4669 May 08 20:47	0°€	
min. Earth dist.	4664 Apr 29 23:39	7°M38'44	0.67000 AU	_	4669 Jun 21 05:01	0° <b>Ω</b>	
11	4664 May 24 06:55	30° <b>₹</b> Ω		evening set	4669 Aug 03 09:05	28° <b>Ω</b> 45'14	
direct	4664 Jun 07 21:25	28° <b>ჲ</b> 37'30		evening set	4669 Aug 03 09:05 4669 Aug 05 06:45	28°8745'14 0° <b>m</b> )	
	4664 Jun 07 21:25 4664 Jun 23 08:29	28° <b>≏</b> 37'30 0° <b>™</b>		-	4669 Aug 05 06:45	0° <b>m</b>	1°04'31
direct desc. node	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23	28° <b>2</b> 37'30 0°M 3°M09'43		conjunction	4669 Aug 05 06:45 4669 Sep 20 14:52	0° Mp 29° Mp 56'56	1°04'31 1°04'30
	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25	28° <b>2</b> 37'30 0°M 3°M09'43 0°⊀		-	4669 Aug 05 06:45 4669 Sep 20 14:52 4669 Sep 20 15:34	0° m, 29° m, 56′56 29° m, 58′04	1°04'31 1°04'30
	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30	28° <u>\$</u> 37'30 0°M 3°M09'43 0°ダ 0°♂		conjunction minimum elong	4669 Aug 05 06:45 4669 Sep 20 14:52 4669 Sep 20 15:34 4669 Sep 20 16:47	0° m 29° m 56'56 29° m 58'04 0° Ω	1°04'30
	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25	28° <b>£</b> 37'30 0° <b>M</b> 3° <b>M</b> 09'43 0° <b>♂</b> 0° <b>♂</b>		conjunction minimum elong max. Earth dist.	4669 Aug 05 06:45 4669 Sep 20 14:52 4669 Sep 20 15:34	0° m, 29° m, 56′56 29° m, 58′04	
	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52	28° <u>\$</u> 37'30 0°M 3°M09'43 0°ダ 0°♂		conjunction minimum elong	4669 Aug 05 06:45 4669 Sep 20 14:52 4669 Sep 20 15:34 4669 Sep 20 16:47 4669 Sep 27 10:39	0° ነው 29° ነው 56'56 29° ነው 58'04 0° <u>ፍ</u> 4° <u>ፍ</u> 18'39	1°04'30
	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08	28°≗37'30 0°M 3°M09'43 0°♂ 0°♂ 0°≈		conjunction minimum elong max. Earth dist.	4669 Aug 05 06:45 4669 Sep 20 14:52 4669 Sep 20 15:34 4669 Sep 20 16:47 4669 Sep 27 10:39 4669 Nov 04 18:33	0° m 29° m 56'56 29° m 58'04 0° ഇ 4° ഇ 18'39 28° ഇ 41'08	1°04'30
	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03	28° £37'30 0° M. 3° M.09'43 0° ₹ 0° ₹ 0° \$ 0° ¥ 0° ¥		conjunction minimum elong max. Earth dist.	4669 Aug 05 06:45 4669 Sep 20 14:52 4669 Sep 20 15:34 4669 Sep 20 16:47 4669 Sep 27 10:39 4669 Nov 04 18:33 4669 Nov 06 20:18	0° ነው 29° ነው 56'56 29° ነው 58'04 0°	1°04'30
desc. node	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21	28° <u>\$</u> 37'30 0°M 3°M09'43 0°♂ 0°♂ 0°₩ 0°¥ 0°Y 0°Y 8° <b>8</b> 04'31	1.2m	conjunction minimum elong max. Earth dist.	4669 Aug 05 06:45 4669 Sep 20 14:52 4669 Sep 20 15:34 4669 Sep 20 16:47 4669 Sep 27 10:39 4669 Nov 04 18:33 4669 Nov 06 20:18 4669 Dec 24 04:34	0° m 29° m 56'56 29° m 58'04 0° ഇ 4° ഇ 18'39 28° ഇ 41'08 0° M. 0° %	1°04'30
desc. node	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 Apr 13 01:53 4665 May 10 07:57	28°至37'30 0°M 3°M09'43 0°ズ 0°云 0°※ 0°∀ 0°Y 0°Y 8°8'04'31	1.2m	conjunction minimum elong max. Earth dist. morning rise	4669 Aug 05 06:45  4669 Sep 20 14:52 4669 Sep 20 15:34 4669 Sep 20 16:47 4669 Sep 27 10:39 4669 Nov 04 18:33 4669 Nov 06 20:18 4669 Dec 24 04:34 4670 Feb 09 12:59	29° നു 56'56 29° നു 58'04 0° മ 4° മ 18'39 28° മ 41'08 0° സ 0° ഗ് 10° ഗ് 556'22	1°04'30
desc. node	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 Apr 13 01:53	28° <u>\$\times\$37'30</u> 0°M. 3°M.09'43 0°\$\times\$ 0°\$\times\$ 0°\$\times\$ 0°\$\times\$ 0°\$\times\$ 0°\$\times\$ 8°\$\times\$04'31 8°\$\times\$49'35	1.2m	conjunction minimum elong max. Earth dist. morning rise	4669 Aug 05 06:45  4669 Sep 20 14:52  4669 Sep 20 15:34  4669 Sep 20 16:47  4669 Sep 27 10:39  4669 Nov 04 18:33  4669 Nov 06 20:18  4669 Dec 24 04:34  4670 Feb 09 12:59  4670 Feb 26 20:24  4670 Mar 29 05:03  4670 May 17 09:33	0° m 29° m 56'56 29° m 58'04 0° Ω 4° Ω 18'39 28° Ω 41'08 0° M 0° ズ 0° ℧ 10° ℧ 56'22 0° ≈ 0° ℋ	1°04'30
evening set greatest brilliancy asc. node	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 Apr 13 01:53 4665 May 10 07:57 4665 May 16 20:00	28° ♀37'30 0° M 3° M 09'43 0° ゼ 0° 云 0° ★ 0° ϒ 0° ϒ 0° ϒ 0° ϒ 0° ϒ 0° ϒ 0° ϒ 0° ϒ		conjunction minimum elong max. Earth dist. morning rise  desc. node	4669 Aug 05 06:45  4669 Sep 20 14:52  4669 Sep 20 15:34  4669 Sep 20 16:47  4669 Sep 27 10:39  4669 Nov 04 18:33  4669 Nov 06 20:18  4669 Dec 24 04:34  4670 Feb 09 12:59  4670 Feb 26 20:24  4670 Mar 29 05:03  4670 May 17 09:33  4670 Jul 12 21:48	0° m 29° m 56'56 29° m 58'04 0° Ω 4° Ω 18'39 28° Ω 41'08 0° M 0° ズ 0° 줍 10° 줍 56'22 0° ≈ 0° 升 0° Υ	1°04'30
evening set greatest brilliancy asc. node conjunction	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 Apr 13 01:53 4665 May 10 07:57 4665 May 16 20:00	28° ♀37'30 0° M 3° M 09'43 0° ズ 0° 云 0° 云 0° ★ 0° ϒ 0° ϒ 0° ϒ 0° ϒ 0° ϒ 0° ϒ 0° ϒ 0° Ⅱ 4° I 59'01 29° I 17'46	0°21'23	conjunction minimum elong max. Earth dist. morning rise  desc. node	4669 Aug 05 06:45  4669 Sep 20 14:52  4669 Sep 20 15:34  4669 Sep 20 16:47  4669 Sep 27 10:39  4669 Nov 04 18:33  4669 Nov 06 20:18  4669 Dec 24 04:34  4670 Feb 09 12:59  4670 Mar 29 05:03  4670 May 17 09:33  4670 Jul 12 21:48  4670 Aug 29 03:41	0° ነው 29° ነው 56'56 29° ነው 58'04 0° ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡	1°04'30 2.66727 AU
evening set greatest brilliancy asc. node	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 Apr 13 01:53 4665 May 10 07:57 4665 May 16 20:00 4665 Jun 18 04:25 4665 Jun 18 02:46	28° ♀37'30 0° Ⅲ 3° Ⅲ09'43 0° ♐ 0° ♉ 0° ♉ 0° ♉ 0° ♉ 8° ♉04'31 8° ♉49'35 0° Ⅲ 4° Ⅲ59'01 29° Ⅲ17'46 29° Ⅲ14'44	0°21'23	conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition	4669 Aug 05 06:45  4669 Sep 20 14:52  4669 Sep 20 15:34  4669 Sep 20 16:47  4669 Sep 27 10:39  4669 Nov 04 18:33  4669 Nov 06 20:18  4669 Dec 24 04:34  4670 Feb 09 12:59  4670 Mar 29 05:03  4670 May 17 09:33  4670 Jul 12 21:48  4670 Aug 29 03:41  4670 Sep 28 03:30	0° ነው 29° ነው 56'56 29° ነው 58'04 0° ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡	1°04'30 2.66727 AU -6°06'37
evening set greatest brilliancy asc. node conjunction	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 May 10 07:57 4665 May 10 07:57 4665 Jun 18 04:25 4665 Jun 18 02:46 4665 Jun 18 02:46 4665 Jun 19 03:19	28° ♀37'30 0° M 3° M 09'43 0° ズ 0° 云 0° 云 0° ★ 0° Ƴ 0° ϒ 0° ϒ 0° ϒ 0° ϒ 0° ϒ 0° ϒ 0° ϒ 29° M 17'46 29° M 14'44 0° ூ	0°21'23	conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy	4669 Aug 05 06:45  4669 Sep 20 14:52 4669 Sep 20 15:34 4669 Sep 20 16:47 4669 Sep 27 10:39 4669 Nov 04 18:33 4669 Nov 06 20:18 4669 Dec 24 04:34 4670 Feb 09 12:59 4670 Feb 26 20:24 4670 Mar 29 05:03 4670 Jul 12 21:48 4670 Aug 29 03:41 4670 Sep 28 03:30 4670 Sep 28 17:31	0° ነው 29° ነው 56'56 29° ነው 58'04 0° ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡	1°04'30 2.66727 AU -6°06'37 -2.9m
evening set greatest brilliancy asc. node conjunction minimum elong	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 May 10 07:57 4665 May 10 07:57 4665 Jun 18 04:25 4665 Jun 18 02:46 4665 Jun 18 02:46 4665 Jun 19 03:19 4665 Jul 30 20:29	28° 至37'30 0° M 3° M 09'43 0° ズ 0° 云 0° ※ 0° 光 0° Y 0° Y 0° S 8° 804'31 8° 849'35 0° H 4° I 59'01 29° I 17'46 29° I 14'44 0° © 0° Ω	0°21'23 0°21'21	conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist.	4669 Aug 05 06:45  4669 Sep 20 14:52 4669 Sep 20 15:34 4669 Sep 20 16:47 4669 Sep 27 10:39 4669 Nov 04 18:33 4669 Nov 06 20:18 4669 Dec 24 04:34 4670 Feb 09 12:59 4670 Feb 26 20:24 4670 Mar 29 05:03 4670 May 17 09:33 4670 Jul 12 21:48 4670 Aug 29 03:41 4670 Sep 28 03:30 4670 Sep 28 17:31 4670 Sep 30 01:05	0° ነው 29° ነው 56'56 29° ነው 58'04 0° ው 4° ው 18'39 28° ው 41'08 0° ነሌ 0° ነሪ 10° ነሪ 56'22 0° ነሪ 0° ነሪ 0° ነሪ 1° ነሪ 53'22 6° ነሪ 57'14 6° ነሪ 727'00	1°04'30 2.66727 AU -6°06'37
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evening set greatest brilliancy asc. node conjunction minimum elong	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 Apr 13 01:53 4665 May 10 07:57 4665 May 16 20:00  4665 Jun 18 04:25 4665 Jun 18 02:46 4665 Jun 19 03:19 4665 Jul 30 20:29 4665 Aug 01 10:34 4665 Aug 17 07:56	28° \$\times 37'30 0° \$\tilde{\Pi}\$. 3° \$\tilde{\Pi}\$.09'43 0° \$\tilde{\Pi}\$. 0° \$\tilde{\Pi}\$. 0° \$\tilde{\Pi}\$. 0° \$\tilde{\Pi}\$. 0° \$\tilde{\Pi}\$. 0° \$\tilde{\Pi}\$. 8° \$\tilde{\Pi}\$.04'31 8° \$\tilde{\Pi}\$.49'35 0° \$\tilde{\Pi}\$. 4° \$\tilde{\Pi}\$.59'01 29° \$\tilde{\Pi}\$.14'44 0° \$\tilde{\Pi}\$. 0° \$\tilde{\Pi}\$. 1° \$\tilde{\Pi}\$.06'39 12° \$\tilde{\Pi}\$.07'18	0°21'23 0°21'21	conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist.	4669 Aug 05 06:45  4669 Sep 20 14:52  4669 Sep 20 15:34  4669 Sep 20 16:47  4669 Sep 27 10:39  4669 Nov 04 18:33  4669 Nov 06 20:18  4669 Dec 24 04:34  4670 Feb 09 12:59  4670 Feb 26 20:24  4670 Mar 29 05:03  4670 May 17 09:33  4670 Jul 12 21:48  4670 Aug 29 03:41  4670 Sep 28 03:30  4670 Sep 28 17:31  4670 Sep 30 01:05  4670 Oct 28 06:16  4671 Jan 06 16:42	0° ነው  29° ነው 56'56  29° ነው 58'04  0° Ω  4° Ω 18'39  28° Ω 41'08  0° ነሪ  10° ሪ 56'22  0° ≈  0° ነረ  0° ነረ  11° ነር 53'22  6° ነር 57'14  6° ነር 47'56  6° ነር 27'00  1° ነር 52'43	1°04'30 2.66727 AU -6°06'37 -2.9m
evening set greatest brilliancy asc. node conjunction minimum elong max. Earth dist.	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 Apr 13 01:53 4665 May 10 07:57 4665 May 16 20:00  4665 Jun 18 04:25 4665 Jun 18 02:46 4665 Jun 19 03:19 4665 Jul 30 20:29 4665 Aug 01 10:34 4665 Aug 17 07:56 4665 Sep 12 19:07	28° \$\times 37'30 0° \$\times \ 3° \$\times 09'43 0° \$\times \ 4° \$\times 9'01  29° \$\times 114'44 0° \$\times \ 0° \$\times \ 1° \$\times 06'39 12° \$\times 07'18 0° \$\times \ 0° \$\times \	0°21'23 0°21'21	conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct	4669 Aug 05 06:45  4669 Sep 20 14:52  4669 Sep 20 15:34  4669 Sep 20 16:47  4669 Sep 27 10:39  4669 Nov 04 18:33  4669 Nov 06 20:18  4669 Dec 24 04:34  4670 Feb 09 12:59  4670 Feb 26 20:24  4670 Mar 29 05:03  4670 May 17 09:33  4670 Jul 12 21:48  4670 Aug 29 03:41  4670 Sep 28 03:30  4670 Sep 28 17:31  4670 Sep 30 01:05  4670 Oct 28 06:16  4671 Jan 06 16:42  4671 Jan 12 01:58	0° m 29° m 56'56 29° m 58'04 0° Ω 4° Ω 18'39 28° Ω 41'08 0° M 0° % 0° % 10° ♂ 56'22 0° ≈ 0° ¥ 0° Y 11° Y 53'22 6° Y 57'14 6° Y 47'56 6° Y 27'00 1° Y 51'27 26° Y 52'43 0° ႘	1°04'30 2.66727 AU -6°06'37 -2.9m
evening set greatest brilliancy asc. node conjunction minimum elong max. Earth dist.	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 Apr 13 01:53 4665 May 10 07:57 4665 May 16 20:00  4665 Jun 18 04:25 4665 Jun 18 02:46 4665 Jun 19 03:19 4665 Aug 01 10:34 4665 Aug 17 07:56 4665 Sep 12 19:07 4665 Oct 29 03:12	28° 至37'30 0° M 3° M 09'43 0° ズ 0° 云 0° ※ 0° 犬 0° 公 8° 월04'31 8° 월49'35 0° H 4° I 59'01 29° I 17'46 29° I 14'44 0° ⑤ 0° ん 1° ん06'39 12° ん07'18 0° m 0° 요	0°21'23 0°21'21	conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct	4669 Aug 05 06:45  4669 Sep 20 14:52  4669 Sep 20 15:34  4669 Sep 20 16:47  4669 Sep 27 10:39  4669 Nov 04 18:33  4669 Nov 06 20:18  4669 Dec 24 04:34  4670 Feb 09 12:59  4670 Feb 26 20:24  4670 Mar 29 05:03  4670 May 17 09:33  4670 Jul 12 21:48  4670 Aug 29 03:41  4670 Sep 28 03:30  4670 Sep 28 17:31  4670 Sep 30 01:05  4670 Oct 28 06:16  4671 Jan 06 16:42  4671 Feb 28 19:46	0° m 29° m 56'56 29° m 58'04 0° Ω 4° Ω 18'39 28° Ω 41'08 0° π 0° ズ 0° 줍 10° 줍 56'22 0° ≈ 0° ℋ 0° Υ 11° Υ 53'22 6° Υ 57'14 6° Υ 47'56 6° Υ 27'00 1° Υ 51'27 26° Υ 52'43 0° ℋ 0° Π	1°04'30 2.66727 AU -6°06'37 -2.9m
evening set greatest brilliancy asc. node conjunction minimum elong max. Earth dist.	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 Apr 13 01:53 4665 May 10 07:57 4665 May 16 20:00  4665 Jun 18 04:25 4665 Jun 18 02:46 4665 Jun 19 03:19 4665 Jul 30 20:29 4665 Aug 01 10:34 4665 Aug 17 07:56 4665 Sep 12 19:07	28° \$\times 37'30 0° \$\tilde{\Pi}\$. 3° \$\tilde{\Pi}\$.09'43 0° \$\tilde{\Pi}\$. 0° \$\tilde{\Pi}\$. 0° \$\tilde{\Pi}\$. 0° \$\tilde{\Pi}\$. 0° \$\tilde{\Pi}\$. 0° \$\tilde{\Pi}\$. 8° \$\tilde{\Pi}\$.04'31 8° \$\tilde{\Pi}\$.49'35 0° \$\tilde{\Pi}\$. 4° \$\tilde{\Pi}\$.59'01  29° \$\tilde{\Pi}\$.14'44 0° \$\tilde{\Pi}\$. 0° \$\tilde{\Pi}\$. 1° \$\tilde{\Pi}\$.06'39 12° \$\tilde{\Pi}\$.07'18 0° \$\tilde{\Pi}\$.	0°21'23 0°21'21	conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct	4669 Aug 05 06:45  4669 Sep 20 14:52  4669 Sep 20 15:34  4669 Sep 20 16:47  4669 Sep 27 10:39  4669 Nov 04 18:33  4669 Nov 06 20:18  4669 Dec 24 04:34  4670 Feb 09 12:59  4670 Mar 29 05:03  4670 Mar 29 05:03  4670 Jul 12 21:48  4670 Aug 29 03:41  4670 Sep 28 03:30  4670 Sep 28 17:31  4670 Sep 30 01:05  4670 Oct 28 06:16  4671 Jan 06 16:42  4671 Jan 12 01:58  4671 Feb 28 19:46  4671 Apr 15 09:55	0° m 29° m 56'56 29° m 58'04 0° Ω 4° Ω 18'39 28° Ω 41'08 0° M 0° ズ 0° ℧ 10° ℧ 56'22 0° ※ 0° ℋ 0° Ƴ 11° ♈ 53'22 6° ♈ 57'14 6° ♈ 47'56 6° ♈ 27'00 1° ♈ 52'43 0° ੴ 0° ዠ 0° ੴ	1°04'30 2.66727 AU -6°06'37 -2.9m
evening set greatest brilliancy asc. node conjunction minimum elong max. Earth dist.	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 Apr 13 01:53 4665 May 10 07:57 4665 May 16 20:00  4665 Jun 18 04:25 4665 Jun 18 02:46 4665 Jun 19 03:19 4665 Jul 30 20:29 4665 Aug 01 10:34 4665 Aug 17 07:56 4665 Sep 12 19:07 4665 Oct 29 03:12 4665 Dec 17 09:06	28° ♀37'30 0° M 3° M 09'43 0° ズ 0° 云 0° ※ 0° ϒ 0° ϒ 0° ϒ 0° ϒ 0° ϒ 0° ϒ 1° Δ06'39 12° Д07'18 0° M 0° ♀ 0° M 0° ♀	0°21'23 0°21'21	conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct	4669 Aug 05 06:45  4669 Sep 20 14:52  4669 Sep 20 15:34  4669 Sep 20 16:47  4669 Sep 27 10:39  4669 Nov 04 18:33  4669 Nov 06 20:18  4669 Dec 24 04:34  4670 Feb 09 12:59  4670 Feb 26 20:24  4670 Mar 29 05:03  4670 May 17 09:33  4670 Jul 12 21:48  4670 Aug 29 03:41  4670 Sep 28 03:30  4670 Sep 28 17:31  4670 Sep 30 01:05  4670 Oct 28 06:16  4671 Jan 06 16:42  4671 Feb 28 19:46	0° m 29° m 56'56 29° m 58'04 0° Ω 4° Ω 18'39 28° Ω 41'08 0° π 0° ズ 0° 줍 10° 줍 56'22 0° ≈ 0° ℋ 0° Υ 11° Υ 53'22 6° Υ 57'14 6° Υ 47'56 6° Υ 27'00 1° Υ 51'27 26° Υ 52'43 0° ℋ 0° Π	1°04'30 2.66727 AU -6°06'37 -2.9m
evening set greatest brilliancy asc. node conjunction minimum elong max. Earth dist. morning rise	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 Apr 13 01:53 4665 May 10 07:57 4665 May 16 20:00  4665 Jun 18 04:25 4665 Jun 18 02:46 4665 Jun 19 03:19 4665 Jul 30 20:29 4665 Aug 01 10:34 4665 Aug 17 07:56 4665 Sep 12 19:07 4665 Oct 29 03:12 4665 Dec 17 09:06 4666 Feb 10 10:37	28° 五37'30 0° M 3° M 09'43 0° ズ 0° 云 0° ※ 0° 大 0° Y 0° と 8° と 09'35 0° H 4° H 59'01 29° H 17'46 29° H 14'44 0° © 0° ん 1° ん 06'39 12° ん 07'18 0° M 0° 五 0° M	0°21'23 0°21'21	conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct	4669 Aug 05 06:45  4669 Sep 20 14:52  4669 Sep 20 15:34  4669 Sep 20 16:47  4669 Sep 27 10:39  4669 Nov 04 18:33  4669 Nov 06 20:18  4669 Dec 24 04:34  4670 Feb 09 12:59  4670 Mar 29 05:03  4670 May 17 09:33  4670 Aug 29 03:41  4670 Sep 28 03:30  4670 Sep 28 17:31  4670 Sep 28 17:31  4670 Sep 30 01:05  4670 Oct 28 06:16  4671 Jan 06 16:42  4671 Jan 12 01:58  4671 Feb 28 19:46  4671 Apr 15 09:55  4671 May 31 06:54	0° ነው 29° ነው 56'56 29° ነው 58'04 0° ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡	1°04'30 2.66727 AU -6°06'37 -2.9m
evening set greatest brilliancy asc. node conjunction minimum elong max. Earth dist. morning rise	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 Apr 13 01:53 4665 May 10 07:57 4665 May 10 07:57 4665 Jun 18 04:25 4665 Jun 18 02:46 4665 Jun 19 03:19 4665 Jul 30 20:29 4665 Aug 01 10:34 4665 Aug 17 07:56 4665 Sep 12 19:07 4665 Oct 29 03:12 4665 Dec 17 09:06 4666 Feb 10 10:37 4666 Apr 26 11:12	28° \$\textit{\Omega} 37'30 0° \$\textit{\Pi}\$ 3° \$\textit{\Pi} 09'43 0° \$\textit{\Pi}\$ 0° \$\textit{\Pi}\$ 0° \$\textit{\Pi}\$ 0° \$\textit{\Pi}\$ 8° \$\textit{\Pi} 49'35 0° \$\textit{\Pi}\$ 4° \$\textit{\Pi} 59'01  29° \$\textit{\Pi} 17'46 29° \$\textit{\Pi} 14'44 0° \$\textit{\Pi}\$ 0° \$\textit{\Pi}\$ 1° \$\textit{\Pi} 06'39 12° \$\textit{\Pi} 07'18 0° \$\textit{\Pi}\$ 22° \$\textit{\Pi} 55'13	0°21'23 0°21'21 2.49097 AU	conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct	4669 Aug 05 06:45  4669 Sep 20 14:52  4669 Sep 20 15:34  4669 Sep 20 16:47  4669 Sep 27 10:39  4669 Nov 04 18:33  4669 Nov 06 20:18  4669 Dec 24 04:34  4670 Feb 09 12:59  4670 Mar 29 05:03  4670 Mar 17 09:33  4670 Aug 29 03:41  4670 Sep 28 03:30  4670 Sep 28 17:31  4670 Sep 28 17:31  4670 Sep 30 01:05  4670 Oct 28 06:16  4671 Jan 06 16:42  4671 Jan 12 01:58  4671 Feb 28 19:46  4671 Apr 15 09:55  4671 May 31 06:54  4671 Jul 17 00:06	0° ነው 29° ነው 56'56 29° ነው 58'04 0° ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡	1°04'30 2.66727 AU -6°06'37 -2.9m
evening set greatest brilliancy asc. node conjunction minimum elong max. Earth dist. morning rise retrograde desc. node	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 May 10 07:57 4665 May 10 07:57 4665 Jun 18 04:25 4665 Jun 18 02:46 4665 Jun 18 02:46 4665 Jun 19 03:19 4665 Jul 30 20:29 4665 Aug 01 10:34 4665 Aug 17 07:56 4665 Sep 12 19:07 4665 Oct 29 03:12 4665 Dec 17 09:06 4666 Feb 10 10:37 4666 Apr 26 11:12 4666 May 24 21:39	28° 五37'30 0° M 3° M 09'43 0° ズ 0° 云 0° ※ 0° 大 0° Y 0° と 8° と 49'35 0° H 4° 用 59'01 29° 用 14'44 0° ⑤ 0° ん 1° ん 06'39 12° ん 07'18 0° M 0° ズ 22° ズ 55'13 17° ズ 55'13	0°21'23 0°21'21 2.49097 AU	conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct asc. node	4669 Aug 05 06:45  4669 Sep 20 14:52  4669 Sep 20 15:34  4669 Sep 20 16:47  4669 Sep 27 10:39  4669 Nov 04 18:33  4669 Nov 06 20:18  4669 Dec 24 04:34  4670 Feb 09 12:59  4670 Mar 29 05:03  4670 May 17 09:33  4670 Aug 29 03:41  4670 Sep 28 03:30  4670 Sep 28 17:31  4670 Sep 28 17:31  4670 Sep 30 01:05  4670 Oct 28 06:16  4671 Jan 06 16:42  4671 Jan 12 01:58  4671 Feb 28 19:46  4671 Apr 15 09:55  4671 May 31 06:54  4671 Jul 17 00:06  4671 Sep 02 08:19	0° ነው  29° ነው 56'56  29° ነው 58'04  0° ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡ ፡	1°04'30 2.66727 AU -6°06'37 -2.9m
evening set greatest brilliancy asc. node conjunction minimum elong max. Earth dist. morning rise  retrograde desc. node opposition	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 May 10 07:57 4665 May 10 07:57 4665 Jun 18 04:25 4665 Jun 18 02:46 4665 Jun 18 02:46 4665 Jun 19 03:19 4665 Jul 30 20:29 4665 Aug 01 10:34 4665 Aug 17 07:56 4665 Sep 12 19:07 4665 Oct 29 03:12 4666 Dec 17 09:06 4666 Feb 10 10:37 4666 Apr 26 11:12 4666 May 24 21:39 4666 Jun 03 06:18	28° \$\times 37'30 0° \$\times 60'43 0° \$\times 60'45 1° \$	0°21'23 0°21'21 2.49097 AU	conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct asc. node	4669 Aug 05 06:45  4669 Sep 20 14:52  4669 Sep 20 15:34  4669 Sep 20 16:47  4669 Sep 27 10:39  4669 Nov 04 18:33  4669 Nov 06 20:18  4669 Dec 24 04:34  4670 Feb 09 12:59  4670 Feb 26 20:24  4670 Mar 29 05:03  4670 Mug 17 09:33  4670 Aug 29 03:41  4670 Sep 28 03:30  4670 Sep 28 17:31  4670 Sep 28 17:31  4670 Sep 30 01:05  4670 Oct 28 06:16  4671 Jan 06 16:42  4671 Jan 12 01:58  4671 Feb 28 19:46  4671 Apr 15 09:55  4671 May 31 06:54  4671 Jul 17 00:06  4671 Sep 02 08:19  4671 Sep 11 16:49	0° m 29° m 56'56 29° m 58'04 0° 亞 4° 亞 18'39 28° 亞 41'08 0° m 0° ズ 0° ℧ 10° ℧ 56'22 0° ※ 0° ℋ 0° Ύ 11° ♈ 53'22 6° ♈ 57'14 6° ♈ 47'56 6° ♈ 27'00 1° ♈ 51'27 26° ♈ 52'43 0° ℧ 0° 加 0° 亞 0° 矶 0° m 0° 亞 5° 亞 54'48	1°04'30 2.66727 AU -6°06'37 -2.9m
evening set greatest brilliancy asc. node conjunction minimum elong max. Earth dist. morning rise  retrograde desc. node opposition greatest brilliancy	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 May 10 07:57 4665 May 16 20:00  4665 Jun 18 04:25 4665 Jun 18 02:46 4665 Jun 18 02:46 4665 Jun 19 03:19 4665 Jul 30 20:29 4665 Aug 01 10:34 4665 Aug 17 07:56 4665 Sep 12 19:07 4665 Oct 29 03:12 4665 Dec 17 09:06 4666 Feb 10 10:37 4666 Apr 26 11:12 4666 May 24 21:39 4666 Jun 03 08:18 4666 Jun 09 10:51 4666 Jul 14 04:42	28° \$\times 37'30 0° \$\times 60'43 0° \$\times 60'45 1° \$	0°21'23 0°21'21 2.49097 AU -0°22'14 -1.6m	conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct asc. node  evening set max. Earth dist.	4669 Aug 05 06:45  4669 Sep 20 14:52  4669 Sep 20 15:34  4669 Sep 20 16:47  4669 Sep 27 10:39  4669 Nov 04 18:33  4669 Nov 06 20:18  4669 Dec 24 04:34  4670 Feb 09 12:59  4670 Feb 26 20:24  4670 Mar 29 05:03  4670 May 17 09:33  4670 Aug 29 03:41  4670 Sep 28 03:30  4670 Sep 28 17:31  4670 Sep 30 01:05  4670 Oct 28 06:16  4671 Jan 06 16:42  4671 Jan 12 01:58  4671 Feb 28 19:46  4671 Apr 15 09:55  4671 May 31 06:54  4671 Sep 02 08:19  4671 Sep 11 16:49  4671 Oct 19 16:51  4671 Oct 20 04:29	0° m 29° m 56'56 29° m 58'04 0° Ω 4° Ω 18'39 28° Ω 41'08 0° M 0° X 0° T 10° T 56'22 0° ≈ 0° Y 11° Y 53'22 6° Y 57'14 6° Y 47'56 6° Y 27'00 1° Y 51'27 26° Y 52'43 0° M 0° Ω 0° M 0° Ω 5° Ω 54'48 0° M 0° M 18'30	1°04'30 2.66727 AU -6°06'37 -2.9m 0.37315 AU 2.67507 AU
evening set greatest brilliancy asc. node conjunction minimum elong max. Earth dist. morning rise  retrograde desc. node opposition greatest brilliancy min. Earth dist.	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 May 10 07:57 4665 May 16 20:00  4665 Jun 18 04:25 4665 Jun 18 02:46 4665 Jun 18 02:46 4665 Jun 18 02:46 4665 Jun 18 02:46 4665 Jun 19 03:19 4665 Aug 01 10:34 4665 Aug 17 07:56 4665 Sep 12 19:07 4665 Oct 29 03:12 4665 Dec 17 09:06 4666 Feb 10 10:37 4666 Apr 26 11:12 4666 May 24 21:39 4666 Jun 03 06:18 4666 Jun 03 06:18 4666 Jun 09 10:51 4666 Sep 26 13:08	28° 五37'30 0° M. 3° M.09'43 0° ズ 0° 云 0° ※ 0° 光 0° Y 0° Y 0° Y 8° Y 8'49'35 0° H 4° H 59'01 29° H 14'44 0° ⑤ 0° 凡 1° Д 06'39 12° Д 07'18 0° M 0° ズ 22° ズ 55'13 17° ズ 54'13 14° ズ 29'30 12° ズ 10'17 4° ズ 40'30 0° 云	0°21'23 0°21'21 2.49097 AU -0°22'14 -1.6m	conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct asc. node  evening set max. Earth dist. conjunction	4669 Aug 05 06:45  4669 Sep 20 14:52  4669 Sep 20 15:34  4669 Sep 20 16:47  4669 Sep 27 10:39  4669 Nov 04 18:33  4669 Nov 06 20:18  4669 Dec 24 04:34  4670 Feb 09 12:59  4670 Feb 26 20:24  4670 Mar 29 05:03  4670 Aug 29 03:41  4670 Sep 28 03:30  4670 Sep 28 17:31  4670 Sep 28 17:31  4670 Sep 30 01:05  4670 Oct 28 06:16  4671 Jan 06 16:42  4671 Jan 12 01:58  4671 Feb 28 19:46  4671 Apr 15 09:55  4671 May 31 06:54  4671 Sep 02 08:19  4671 Cet 19 16:51  4671 Oct 20 04:29	0° m 29° m 56'56 29° m 58'04 0° Ω 4° Ω 18'39 28° Ω 41'08 0° M 0° % 0° % 10° 756'22 0° ≈ 0° ¥ 0° Y 11° Y 53'22 6° Y 57'14 6° Y 47'56 6° Y 27'00 1° Y 51'27 26° Y 52'43 0° M 0° M 0° Ω 0° M 0° Ω 5° Ω 54'48 0° M 0° M 18'30 4° M 40'56	1°04'30 2.66727 AU -6°06'37 -2.9m 0.37315 AU 2.67507 AU 0°40'05
evening set greatest brilliancy asc. node conjunction minimum elong max. Earth dist. morning rise  retrograde desc. node opposition greatest brilliancy min. Earth dist.	4664 Jun 07 21:25 4664 Jun 23 08:29 4664 Jul 06 23:23 4664 Sep 05 04:25 4664 Oct 24 03:30 4664 Dec 06 07:52 4665 Jan 15 10:08 4665 Feb 22 21:03 4665 Apr 01 20:21 4665 Apr 12 02:54 4665 May 10 07:57 4665 May 16 20:00  4665 Jun 18 04:25 4665 Jun 18 02:46 4665 Jun 18 02:46 4665 Jun 19 03:19 4665 Jul 30 20:29 4665 Aug 01 10:34 4665 Aug 17 07:56 4665 Sep 12 19:07 4665 Oct 29 03:12 4665 Dec 17 09:06 4666 Feb 10 10:37 4666 Apr 26 11:12 4666 May 24 21:39 4666 Jun 03 08:18 4666 Jun 09 10:51 4666 Jul 14 04:42	28° \$\times 37'30 0° \$\times 60'43 0° \$\times 60'45 1° \$	0°21'23 0°21'21 2.49097 AU -0°22'14 -1.6m	conjunction minimum elong max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct asc. node  evening set max. Earth dist.	4669 Aug 05 06:45  4669 Sep 20 14:52  4669 Sep 20 15:34  4669 Sep 20 16:47  4669 Sep 27 10:39  4669 Nov 04 18:33  4669 Nov 06 20:18  4669 Dec 24 04:34  4670 Feb 09 12:59  4670 Feb 26 20:24  4670 Mar 29 05:03  4670 May 17 09:33  4670 Aug 29 03:41  4670 Sep 28 03:30  4670 Sep 28 17:31  4670 Sep 30 01:05  4670 Oct 28 06:16  4671 Jan 06 16:42  4671 Jan 12 01:58  4671 Feb 28 19:46  4671 Apr 15 09:55  4671 May 31 06:54  4671 Sep 02 08:19  4671 Sep 11 16:49  4671 Oct 19 16:51  4671 Oct 20 04:29	0° m 29° m 56'56 29° m 58'04 0° Ω 4° Ω 18'39 28° Ω 41'08 0° M 0° X 0° T 10° T 56'22 0° ≈ 0° Y 11° Y 53'22 6° Y 57'14 6° Y 47'56 6° Y 27'00 1° Y 51'27 26° Y 52'43 0° M 0° Ω 0° M 0° Ω 5° Ω 54'48 0° M 0° M 18'30	1°04'30 2.66727 AU -6°06'37 -2.9m 0.37315 AU 2.67507 AU 0°40'05

morning rise desc. node	4671 Dec 10 01:45 4672 Jan 14 19:03 4672 Jan 20 01:21 4672 Mar 04 10:57 4672 Apr 16 16:40	3°水01'27 26°水29'59 0°る 0°≈ 0°米		min. Earth dist. opposition greatest brilliancy direct	4677 Mar 09 05:54 4677 Mar 12 01:44 4677 Mar 11 14:51 4677 Apr 20 12:37 4677 Jun 23 09:35	22° m 57'32 21° m 49'34 22° m 00'28 12° m 28'52 0° •	0.65507 AU 4°31'04 -1.4m
retrograde asc. node	4672 May 29 01:33 4672 Jul 10 10:04 4672 Aug 24 07:17 4672 Nov 08 03:02 4672 Nov 23 15:18	0°Υ 0°Β 0°Π 29°Π38'43 27°П53'18		desc. node	4677 Aug 19 23:13 4677 Sep 05 14:58 4677 Oct 08 09:20 4677 Nov 22 15:45 4678 Jan 03 21:05	0°凧 9°凧45'43 0°♂ 0°♂ 0°≈	
min. Earth dist. opposition greatest brilliancy direct	4672 Dec 05 01:03 4672 Dec 13 06:22 4672 Dec 12 20:12 4673 Jan 14 02:33	24°Д41'52 21°Д57'29 22°Д05'59 15°Д41'20	0.43474 AU 1°13'11 -2.6m	evening set max. Earth dist.	4678 Jan 09 19:01 4678 Jan 29 21:08 4678 Feb 12 20:39	4°≈20'50 19°≈21'20 0°¥	2.40146 AU
	4673 Mar 08 13:00 4673 May 04 19:29 4673 Jun 24 20:20	0° <b>Ю</b> 0°© 0°©		conjunction minimum elong	4678 Mar 09 23:56 4678 Mar 10 00:56 4678 Mar 23 10:11	19°¥28'20 19°¥30'18 0° <b>Y</b>	
evening set max. Earth dist.	4673 Aug 13 06:04 4673 Sep 30 11:16 4673 Oct 17 05:40 4673 Nov 12 02:54	0° <b>ቤ</b> 0° <b>ጤ</b> 10° <b>ጤ</b> 38'34 27° <b>ጤ</b> 20'28	2.62856 AU	morning rise asc. node	4678 Apr 30 10:40 4678 May 18 16:01 4678 Jun 07 19:36 4678 Jul 16 12:47	0° <b>8</b> 14° <b>8</b> 19'20 0° <b>П</b> 29° <b>П</b> 21'33	
conjunction minimum elong	4673 Nov 16 04:35 4673 Dec 01 17:19 4673 Dec 01 17:21	0° 🗷 10° 🗷 13'54 10° 🗷 13'56	0°00'00 0°00'01		4678 Jul 17 09:31 4678 Aug 27 23:47 4678 Oct 11 11:55 4678 Nov 29 16:50	0° <b>ರ</b> 0° <b>V</b> 0°©	
behind sun begin behind sun end desc. node	4673 Dec 01 03:20 4673 Dec 02 07:21 4673 Dec 01 17:23	9° <b>尽</b> 50'45 10° <b>尽</b> 37'09 10° <b>尽</b> 14'00		retrograde	4679 Feb 02 11:32 4679 Mar 06 03:02 4679 Apr 04 02:21	0°M 5°M21'28 30°R <b>≏</b>	2010140
morning rise	4673 Dec 31 02:30 4674 Jan 16 22:27 4674 Feb 12 03:22 4674 Mar 25 11:40	0°る 11°る34'56 0°≈ 0°米		opposition greatest brilliancy min. Earth dist. direct	4679 Apr 15 04:51 4679 Apr 15 07:50 4679 Apr 16 05:42 4679 May 26 08:44	25° \( \Omega 46'40 \) 25° \( \Omega 43'42 \) 25° \( \Omega 21'58 \) 15° \( \Omega 51'42 \)	
	4674 May 04 12:48 4674 Jun 12 21:54 4674 Jul 22 14:24	0°♥ 0°¥ 0°Y		desc. node	4679 Jul 20 23:48 4679 Jul 24 13:45 4679 Sep 16 06:34	0°肌 1°肌34'31 0°メ 0°る	
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min. Earth dist. opposition greatest brilliancy direct	4675 Jan 27 03:34 4675 Feb 02 17:02 4675 Feb 01 15:15 4675 Mar 11 01:12	15° <b>Ω</b> 53'56 13° <b>Ω</b> 20'22 13° <b>Ω</b> 45'34 5° <b>Ω</b> 05'28	0.56699 AU 4°28'36 -1.8m	evening set	4680 Mar 14 02:47 4680 Apr 09 11:26 4680 May 17 20:33	9° <b>Y</b> 08'24 0° <b>と</b> 0°II	
	4675 May 28 12:18 4675 Jul 23 00:07 4675 Sep 11 09:16	0° <b>₽</b> 0° <b>₽</b>		conjunction minimum elong behind sun begin	4680 May 22 10:29 4680 May 22 11:13 4680 May 21 09:15	3°Д31'30 3°Д32'55 2°Д43'03	
evening set max. Earth dist.	4675 Oct 19 16:02 4675 Oct 28 18:43 4675 Nov 24 19:40 4675 Dec 11 01:45	24°M.05'45 0° ₹ 17° ₹55'01 28° ₹59'03	2.53121 AU	behind sun end asc. node max. Earth dist.	4680 May 23 13:12 4680 Jun 02 12:21 4680 Jun 26 12:30 4680 Jul 12 20:31	4°∏22'45 11°∏59'24 0°© 11°©58'18	2.43644 AU
conjunction	4675 Dec 12 13:10 4676 Jan 13 00:41	0°る 22°る07'50		morning rise	4680 Jul 27 07:05 4680 Aug 07 02:24 4680 Sep 20 00:42	22°521'13 0° <b>N</b> 0° <b>m</b>	
minimum elong morning rise	4676 Jan 12 23:09 4676 Jan 23 22:27 4676 Mar 04 08:44 4676 Mar 07 03:17	22°₹05'05 0°≈ 0°¥ 2°¥06'04	0*44.42	retrograde	4680 Nov 05 16:52 4680 Dec 26 08:15 4681 Feb 26 15:58 4681 Apr 10 12:47	0° <b>ჲ</b> 0°ጤ 0°⊀ 8°⊀757'58	
-	4676 Apr 12 10:16 4676 May 20 20:46 4676 Jun 28 13:09	0°Υ 0°Υ		opposition greatest brilliancy	4681 May 19 05:58 4681 May 19 09:56 4681 May 19 14:59	0°☎08'43 0°☎04'54 30°₹M	0°50'01 -1.5m
asc. node	4676 Aug 07 11:13 4676 Aug 28 14:37 4676 Sep 18 21:19 4676 Nov 05 06:17	0°ഇ 15°ഇ14'41 0° <b>Л</b> 0° <b>M</b>		min. Earth dist. desc. node direct	4681 May 24 01:18 4681 Jun 10 12:38 4681 Jun 29 14:56 4681 Aug 12 08:40	28°M17'06 22°M31'41 20°M08'06 0°⊀	0.63630 AU
retrograde	4677 Jan 13 18:17 4677 Jan 30 20:03 4677 Feb 15 22:50	0° <b>Ω</b> 1° <b>Ω</b> 46'56 30°R <b>ጥ</b>			4681 Oct 08 12:41 4681 Nov 22 11:46 4682 Jan 02 04:38	0°₹ 0°¥	

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	4682 Feb 09 22:21	$0$ ° $\Upsilon$		desc. node	4687 Jan 31 09:37	2° <b>る</b> 35'15	
	4682 Mar 20 02:48	$9^{\circ}$ 8			4687 Mar 13 18:47	0° <b>≈</b>	
asc. node	4682 Apr 20 11:23	24° <b>8</b> 21'30			4687 Apr 27 10:29	0° <b>∀</b>	
	4682 Apr 27 20:09	$\Pi^{\circ}0$			4687 Jun 10 23:03	$0^{\circ}\mathbf{\Upsilon}$	
evening set	4682 May 24 14:38	20° <b>Ⅱ</b> 10'41			4687 Jul 27 07:20	0°8	
<b>3</b>	4682 Jun 06 22:10	0ಂತಾ			4687 Sep 30 01:30	0°II	
	4682 Jul 18 21:35	$0^{\circ}\Omega$		retrograde	4687 Oct 15 14:39	1° <b>∏</b> 40′53	
	4002 Jul 10 21.33	0 80		retrograde		30°R <b>8</b>	
. ,.	4602 1 1 22 00 27	20 005150	0052157	i matri	4687 Oct 31 06:38		0.20020 441
conjunction	4682 Jul 23 08:27	3° <b>Ω</b> 05'50		min. Earth dist.	4687 Nov 11 02:20	27° <b>8</b> 14'22	
minimum elong	4682 Jul 23 06:32	3° <b>Ω</b> 02'30	0°52'56	opposition	4687 Nov 17 03:31	25° <b>8</b> 27'04	
max. Earth dist.	4682 Aug 23 05:27	24° <b>Ω</b> 09'38	2.56569 AU	greatest brilliancy	4687 Nov 16 19:58	25° <b>8</b> 32'39	-2.9m
	4682 Aug 31 23:14	0° <b>m</b>		asc. node	4687 Dec 11 09:20	20° <b>8</b> 20'07	
morning rise	4682 Sep 14 08:29	8° <b>m</b> 50'54		direct	4687 Dec 17 03:15	20° <b>8</b> 06'39	
	4682 Oct 17 00:55	0∘ <b>ರ</b>			4688 Jan 28 10:27	$\Pi^{\circ}0$	
	4682 Dec 04 00:58	0°M			4688 Mar 26 10:47	0°ಅ	
	4683 Jan 23 14:47	0° <b>∡</b> 7			4688 May 15 10:02	$0^{\circ}\Omega$	
	4683 Mar 21 19:51	°5			4688 Jul 03 03:24	0° m)	
		0 3 14° <b>る</b> 07'42				0∘ <del>ত</del> بالا	
desc. node	4683 Apr 28 11:42				4688 Aug 20 12:33		
retrograde	4683 May 25 04:43	17° <b>ろ</b> 57'13		evening set	4688 Oct 03 01:46	27° <b>≏</b> 18'52	
opposition	4683 Jun 30 00:54	10° <b>る</b> 25'51			4688 Oct 07 07:31	0° <b>M</b> ₊	
greatest brilliancy	4683 Jun 30 18:44	10° <b>る</b> 09'44	-2.0m	max. Earth dist.	4688 Nov 02 11:14	16°M42'15	2.65310 AU
min. Earth dist.	4683 Jul 08 00:12	7° <b>る</b> 33'24	0.53271 AU				
direct	4683 Aug 08 08:24	1° <b>る</b> 15'31		conjunction	4688 Nov 17 03:52	26°M12'31	0°16'49
	4683 Oct 24 15:59	0° <b>≈</b>		minimum elong	4688 Nov 17 04:23	26°M13'22	0°16'49
	4683 Dec 08 11:05	0° <b>)</b> €		Č	4688 Nov 22 23:31	0° <b>√</b>	
	4684 Jan 17 21:05	$0^{\circ}\Upsilon$		desc. node	4688 Dec 18 08:04	16° <b>х</b> 43′09	
	4684 Feb 26 03:27	0°8		morning rise	4689 Jan 01 00:58	25° <b>₹</b> '54'02	
asc. node	4684 Mar 07 09:08	7° <b>8</b> 48'24			4689 Jan 07 02:38	0°る	
	4684 Apr 05 19:25	$\Pi^{\circ}0$			4689 Feb 19 13:52	0° <b>≈</b>	
	4684 May 16 19:23	0°€			4689 Apr 02 11:51	0° <b>∀</b>	
	4684 Jun 28 14:49	$0^{\circ}\Omega$			4689 May 13 04:34	$0$ ° $\Upsilon$	
evening set	4684 Jul 17 02:05	12° <b>Ω</b> 32'42			4689 Jun 22 06:43	$8^{\circ}$	
	4684 Aug 12 07:08	0° <b>m</b> ⊅			4689 Aug 01 21:58	$\Pi^{\circ}0$	
	•				4689 Sep 14 12:03	0° <b>©</b>	
conjunction	4684 Sep 05 11:44	15° <b>m</b> 48'29	1°07'49	asc. node	4689 Oct 28 07:40	24° <b>©</b> 27'19	
	4004 Бер 05 11.44		1 07 42	ase. Houe	4007 OCL 20 07.40	27 32/17	
	4684 San O5 11.55	15° m / 2'//6	1007140		4680 Nov. 11, 11:00	0∘ 0	
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max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct	4684 Sep 18 02:32 4684 Sep 27 12:11 4684 Oct 21 23:05 4684 Nov 13 17:29 4684 Dec 31 13:54 4685 Feb 18 04:22 4685 Mar 15 10:42 4685 Apr 09 17:13 4685 Jun 06 21:09 4685 Jul 27 19:52 4685 Aug 27 21:29 4685 Aug 29 09:29 4685 Sep 03 09:05 4685 Sep 29 23:46 4685 Dec 14 02:58 4686 Jan 23 08:59 4686 Jan 28 11:55 4686 Mar 12 12:24 4686 Apr 24 20:54 4686 Jun 08 10:17	23° № 57'37 0° 요 15° 요35'46 0° M 0° % 0° % 0° % 15° ♂ 13'50 0° ≈ 0° 光 12° 光 46'37 7° 光 21'26 6° 光 55'10 5° 光 28'23 1° 光 05'43 0° Y 26° Y 28'31 0° と 0° 用 0° の	2.64935 AU -6°27'00 -2.7m	min. Earth dist. opposition greatest brilliancy direct  desc. node evening set max. Earth dist.	4689 Dec 09 00:08 4690 Jan 04 08:18 4690 Jan 08 05:19 4690 Jan 15 23:02 4690 Jan 14 20:25 4690 Feb 19 16:44 4690 Apr 09 20:31 4690 Jun 09 05:32 4690 Jul 31 08:50 4690 Sep 18 16:05 4690 Nov 04 17:21 4690 Nov 05 06:41 4690 Nov 09 05:18 4690 Nov 28 19:55 4690 Dec 19 12:10  4690 Dec 26 10:17 4690 Dec 26 09:16 4691 Jan 31 02:42 4691 Feb 14 11:16	4° \$\alpha 55'42 30° \$\infty\$ 28° \$\infty 37'15 25° \$\infty 42'32 26° \$\infty 07'40 18° \$\infty 06'25 0° \$\alpha\$ 0° \$\mathrm{n}\$ 0° \$\mathrm{n}\$ 0° \$\mathrm{n}\$ 0° \$\mathrm{n}\$ 21'46 2° \$\mathrm{n}\$ 56'46 15° \$\mathrm{n}\$ 57'34 0° \$\mathrm{n}\$ 4° \$\mathrm{n}\$ 46'25 4° \$\mathrm{n}\$ 44'40 0° \$\infty\$ 10° \$\infty 26'05	3°46'56 -2.1m 2.57497 AU -0°27'59
max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct asc. node	4684 Sep 18 02:32 4684 Sep 27 12:11 4684 Oct 21 23:05 4684 Nov 13 17:29 4684 Dec 31 13:54 4685 Feb 18 04:22 4685 Mar 15 10:42 4685 Apr 09 17:13 4685 Jun 06 21:09 4685 Jul 27 19:52 4685 Aug 27 21:29 4685 Aug 29 09:29 4685 Sep 03 09:05 4685 Sep 29 23:46 4685 Dec 14 02:58 4686 Jan 23 08:59 4686 Jan 28 11:55 4686 Mar 12 12:24 4686 Apr 24 20:54 4686 Jun 08 10:17 4686 Jul 24 08:08	23° で57'37 0° 点 15° 点35'46 0° 肌 0° ズ 0° 式 15° 式13'50 0° ※ 0° 光 12° 光46'37 7° 光21'26 6° 光55'10 5° 光28'23 1° 光05'43 0° Y 26° Y28'31 0° 公 0° 肌 0° の 0° の	2.64935 AU -6°27'00 -2.7m	min. Earth dist. opposition greatest brilliancy direct  desc. node evening set max. Earth dist.  conjunction minimum elong	4689 Dec 09 00:08 4690 Jan 04 08:18 4690 Jan 08 05:19 4690 Jan 15 23:02 4690 Jan 14 20:25 4690 Feb 19 16:44 4690 Apr 09 20:31 4690 Jun 09 05:32 4690 Jul 31 08:50 4690 Sep 18 16:05 4690 Nov 04 17:21 4690 Nov 05 06:41 4690 Nov 09 05:18 4690 Nov 28 19:55 4690 Dec 19 12:10 4690 Dec 26 10:17 4690 Dec 26 09:16 4691 Jan 31 02:42 4691 Feb 14 11:16 4691 Mar 12 20:17	4° \$\alpha 55'42 30° \$\infty\$ 28° \$\infty 37'15 25° \$\infty 42'32 26° \$\infty 07'40 18° \$\infty 06'25 0° \$\alpha\$ 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 15° \$\mathred{m}\$ 57'34 0° \$\mathred{m}\$ 4° \$\mathred{m}\$ 46'25 4° \$\mathred{m}\$ 44'40 0° \$\infty\$ 10° \$\infty 26'05 0° \$\mathred{m}\$	3°46'56 -2.1m 2.57497 AU -0°27'59
max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct	4684 Sep 18 02:32 4684 Sep 27 12:11 4684 Oct 21 23:05 4684 Nov 13 17:29 4684 Dec 31 13:54 4685 Feb 18 04:22 4685 Mar 15 10:42 4685 Apr 09 17:13 4685 Jun 06 21:09 4685 Jul 27 19:52 4685 Aug 27 21:29 4685 Aug 29 09:29 4685 Sep 03 09:05 4685 Sep 29 23:46 4685 Dec 14 02:58 4686 Jan 23 08:59 4686 Jan 28 11:55 4686 Mar 12 12:24 4686 Apr 24 20:54 4686 Jun 08 10:17 4686 Jul 24 08:08 4686 Aug 28 01:44	23° \$\mu 57'37 0° \omega 15° \omega 35'46 0° \$\mu\$ 0° \$\napprox 7 0° \$\omega\$ 15° \$\omega 13'50 0° \$\infty\$ 12° \$\omega 46'37 7° \$\omega 21'26 6° \$\omega 55'10 5° \$\omega 28'23 1° \$\omega 05'43 0° \$\omega\$ 0° \$\omega\$ 0° \$\omega\$ 0° \$\omega\$ 22° \$\mu 15'43	2.64935 AU -6°27'00 -2.7m	min. Earth dist. opposition greatest brilliancy direct  desc. node evening set max. Earth dist.  conjunction minimum elong	4689 Dec 09 00:08 4690 Jan 04 08:18 4690 Jan 08 05:19 4690 Jan 15 23:02 4690 Jan 14 20:25 4690 Feb 19 16:44 4690 Apr 09 20:31 4690 Jun 09 05:32 4690 Jul 31 08:50 4690 Sep 18 16:05 4690 Nov 04 17:21 4690 Nov 05 06:41 4690 Nov 09 05:18 4690 Nov 28 19:55 4690 Dec 19 12:10 4690 Dec 26 10:17 4690 Dec 26 09:16 4691 Jan 31 02:42 4691 Feb 14 11:16 4691 Mar 12 20:17 4691 Apr 21 05:23	4° \$\alpha 55'42 30° \$\infty\$ 28° \$\infty 37'15 25° \$\infty 42'32 26° \$\infty 07'40 18° \$\infty 06'25 0° \$\alpha\$ 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 15° \$\mathred{m}\$ 56'46 15° \$\mathred{m}\$ 57'34 0° \$\mathred{m}\$ 4° \$\mathred{m}\$ 46'25 4° \$\mathred{m}\$ 44'40 0° \$\infty\$ 10° \$\infty 26'05 0° \$\mathred{m}\$ 0° \$\mathred{m}\$	3°46'56 -2.1m 2.57497 AU -0°27'59
max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct asc. node	4684 Sep 18 02:32 4684 Sep 27 12:11 4684 Oct 21 23:05 4684 Nov 13 17:29 4684 Dec 31 13:54 4685 Feb 18 04:22 4685 Mar 15 10:42 4685 Apr 09 17:13 4685 Jun 06 21:09 4685 Jul 27 19:52 4685 Aug 27 21:29 4685 Aug 27 21:29 4685 Sep 03 09:05 4685 Sep 29 23:46 4685 Dec 14 02:58 4686 Jan 28 11:55 4686 Mar 12 12:24 4686 Apr 24 20:54 4686 Jun 08 10:17 4686 Jul 24 08:08 4686 Aug 28 01:44 4686 Sep 09 05:26	23° m 57'37 0° 으 15° 으 35'46 0° m 0° ズ 0° G 15° G 13'50 0° ※ 0° H 12° H 46'37 7° H 21'26 6° H 55'10 5° H 28'23 1° H 05'43 0° Y 26° Y 28'31 0° B 0° M 0° m 22° m 15'43 0° 으	2.64935 AU -6°27'00 -2.7m 0.40250 AU	min. Earth dist. opposition greatest brilliancy direct  desc. node evening set max. Earth dist.  conjunction minimum elong	4689 Dec 09 00:08 4690 Jan 04 08:18 4690 Jan 08 05:19 4690 Jan 15 23:02 4690 Jan 14 20:25 4690 Feb 19 16:44 4690 Apr 09 20:31 4690 Jun 09 05:32 4690 Jul 31 08:50 4690 Sep 18 16:05 4690 Nov 04 17:21 4690 Nov 05 06:41 4690 Nov 09 05:18 4690 Nov 28 19:55 4690 Dec 19 12:10 4690 Dec 26 10:17 4690 Dec 26 09:16 4691 Jan 31 02:42 4691 Feb 14 11:16 4691 Mar 12 20:17 4691 Apr 21 05:23 4691 May 29 22:28	4° \$\alpha 55'42 30° \$\mathref{S}\$ 28° \$\mathref{S}\$37'15 25° \$\mathref{S}\$42'32 26° \$\mathref{S}\$07'40 18° \$\mathref{S}\$06'25 0° \$\alpha\$ 0° \$\mathref{N}\$ 0° \$\mathref{N}\$21'46 2° \$\mathref{N}\$56'46 15° \$\mathref{N}\$57'34 0° \$\mathref{S}\$ 4° \$\mathref{S}\$46'25 4° \$\mathref{S}\$44'40 0° \$\mathref{S}\$ 10° \$\mathref{S}\$26'05 0° \$\mathref{H}\$ 0° \$\mathref{V}\$ 0° \$\mathref{S}\$	3°46'56 -2.1m 2.57497 AU -0°27'59
max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct asc. node	4684 Sep 18 02:32 4684 Sep 27 12:11 4684 Oct 21 23:05 4684 Nov 13 17:29 4684 Dec 31 13:54 4685 Feb 18 04:22 4685 Mar 15 10:42 4685 Apr 09 17:13 4685 Jun 06 21:09 4685 Jul 27 19:52 4685 Aug 27 21:29 4685 Aug 29 09:29 4685 Sep 03 09:05 4685 Sep 29 23:46 4685 Dec 14 02:58 4686 Jan 23 08:59 4686 Jan 28 11:55 4686 Mar 12 12:24 4686 Apr 24 20:54 4686 Jun 08 10:17 4686 Jul 24 08:08 4686 Aug 28 01:44	23° \$\mu 57'37 0° \omega 15° \omega 35'46 0° \$\mu\$ 0° \$\napprox 7 0° \$\omega\$ 15° \$\omega 13'50 0° \$\infty\$ 12° \$\omega 46'37 7° \$\omega 21'26 6° \$\omega 55'10 5° \$\omega 28'23 1° \$\omega 05'43 0° \$\omega\$ 0° \$\omega\$ 0° \$\omega\$ 0° \$\omega\$ 22° \$\mu 15'43	2.64935 AU -6°27'00 -2.7m	min. Earth dist. opposition greatest brilliancy direct  desc. node evening set max. Earth dist.  conjunction minimum elong	4689 Dec 09 00:08 4690 Jan 04 08:18 4690 Jan 08 05:19 4690 Jan 15 23:02 4690 Jan 14 20:25 4690 Feb 19 16:44 4690 Apr 09 20:31 4690 Jun 09 05:32 4690 Jul 31 08:50 4690 Sep 18 16:05 4690 Nov 04 17:21 4690 Nov 05 06:41 4690 Nov 09 05:18 4690 Nov 28 19:55 4690 Dec 19 12:10 4690 Dec 26 10:17 4690 Dec 26 09:16 4691 Jan 31 02:42 4691 Feb 14 11:16 4691 Mar 12 20:17 4691 Apr 21 05:23	4° \$\alpha 55'42 30° \$\mathbb{C}\$ 28° \$\mathbb{G}\$37'15 25° \$\mathbb{G}\$42'32 26° \$\mathbb{G}\$07'40 18° \$\mathbb{G}\$06'25 0° \$\alpha\$ 0° \$\mathbb{C}\$ 0° \$\mathbb{C}\$ 0° \$\mathbb{C}\$ 10° \$\mathbb{C}\$ 10° \$\mathbb{C}\$ 10° \$\mathbb{C}\$ 0° \$\mathbb{C}\$ 10° \$\mathbb{C}\$ 0°	3°46'56 -2.1m 2.57497 AU -0°27'59
max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct asc. node	4684 Sep 18 02:32 4684 Sep 27 12:11 4684 Oct 21 23:05 4684 Nov 13 17:29 4684 Dec 31 13:54 4685 Feb 18 04:22 4685 Mar 15 10:42 4685 Apr 09 17:13 4685 Jun 06 21:09 4685 Jul 27 19:52 4685 Aug 27 21:29 4685 Aug 27 21:29 4685 Sep 03 09:05 4685 Sep 29 23:46 4685 Dec 14 02:58 4686 Jan 28 11:55 4686 Mar 12 12:24 4686 Apr 24 20:54 4686 Jun 08 10:17 4686 Jul 24 08:08 4686 Aug 28 01:44 4686 Sep 09 05:26	23° m 57'37 0° 으 15° 으 35'46 0° m 0° ズ 0° G 15° G 13'50 0° ※ 0° H 12° H 46'37 7° H 21'26 6° H 55'10 5° H 28'23 1° H 05'43 0° Y 26° Y 28'31 0° B 0° M 0° m 22° m 15'43 0° 으	2.64935 AU -6°27'00 -2.7m 0.40250 AU	min. Earth dist. opposition greatest brilliancy direct  desc. node evening set max. Earth dist.  conjunction minimum elong	4689 Dec 09 00:08 4690 Jan 04 08:18 4690 Jan 08 05:19 4690 Jan 15 23:02 4690 Jan 14 20:25 4690 Feb 19 16:44 4690 Apr 09 20:31 4690 Jun 09 05:32 4690 Jul 31 08:50 4690 Sep 18 16:05 4690 Nov 04 17:21 4690 Nov 05 06:41 4690 Nov 09 05:18 4690 Nov 28 19:55 4690 Dec 19 12:10 4690 Dec 26 10:17 4690 Dec 26 09:16 4691 Jan 31 02:42 4691 Feb 14 11:16 4691 Mar 12 20:17 4691 Apr 21 05:23 4691 May 29 22:28	4° \$\alpha 55'42 30° \$\mathref{S}\$ 28° \$\mathref{S}\$37'15 25° \$\mathref{S}\$42'32 26° \$\mathref{S}\$07'40 18° \$\mathref{S}\$06'25 0° \$\alpha\$ 0° \$\mathref{N}\$ 0° \$\mathref{N}\$21'46 2° \$\mathref{N}\$56'46 15° \$\mathref{N}\$57'34 0° \$\mathref{S}\$ 4° \$\mathref{S}\$46'25 4° \$\mathref{S}\$44'40 0° \$\mathref{S}\$ 10° \$\mathref{S}\$26'05 0° \$\mathref{H}\$ 0° \$\mathref{V}\$ 0° \$\mathref{S}\$	3°46'56 -2.1m 2.57497 AU -0°27'59
max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct asc. node	4684 Sep 18 02:32 4684 Sep 27 12:11 4684 Oct 21 23:05 4684 Nov 13 17:29 4684 Dec 31 13:54 4685 Feb 18 04:22 4685 Mar 15 10:42 4685 Apr 09 17:13 4685 Jun 06 21:09 4685 Jul 27 19:52 4685 Aug 27 21:29 4685 Aug 27 21:29 4685 Sep 03 09:05 4685 Sep 29 23:46 4685 Dec 14 02:58 4686 Jan 28 11:55 4686 Mar 12 12:24 4686 Apr 24 20:54 4686 Jun 08 10:17 4686 Jul 24 08:08 4686 Aug 28 01:44 4686 Sep 09 05:26	23° m 57'37 0° 으 15° 으 35'46 0° m 0° ズ 0° G 15° G 13'50 0° ※ 0° H 12° H 46'37 7° H 21'26 6° H 55'10 5° H 28'23 1° H 05'43 0° Y 26° Y 28'31 0° B 0° M 0° m 22° m 15'43 0° 으	2.64935 AU -6°27'00 -2.7m 0.40250 AU	min. Earth dist. opposition greatest brilliancy direct  desc. node evening set max. Earth dist.  conjunction minimum elong	4689 Dec 09 00:08 4690 Jan 04 08:18 4690 Jan 08 05:19 4690 Jan 15 23:02 4690 Jan 14 20:25 4690 Feb 19 16:44 4690 Apr 09 20:31 4690 Jun 09 05:32 4690 Jul 31 08:50 4690 Sep 18 16:05 4690 Nov 04 17:21 4690 Nov 05 06:41 4690 Nov 09 05:18 4690 Nov 28 19:55 4690 Dec 19 12:10 4690 Dec 26 10:17 4690 Dec 26 09:16 4691 Jan 31 02:42 4691 Feb 14 11:16 4691 Mar 12 20:17 4691 Apr 21 05:23 4691 May 29 22:28 4691 Jul 07 20:43	4° \$\alpha 55'42 30° \$\mathbb{C}\$ 28° \$\mathbb{G}\$37'15 25° \$\mathbb{G}\$42'32 26° \$\mathbb{G}\$07'40 18° \$\mathbb{G}\$06'25 0° \$\alpha\$ 0° \$\mathbb{C}\$ 0° \$\mathbb{C}\$ 0° \$\mathbb{C}\$ 10° \$\mathbb{C}\$ 10° \$\mathbb{C}\$ 10° \$\mathbb{C}\$ 0° \$\mathbb{C}\$ 10° \$\mathbb{C}\$ 0°	3°46'56 -2.1m 2.57497 AU -0°27'59
max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct asc. node  evening set max. Earth dist.	4684 Sep 18 02:32 4684 Sep 27 12:11 4684 Oct 21 23:05 4684 Nov 13 17:29 4684 Dec 31 13:54 4685 Feb 18 04:22 4685 Mar 15 10:42 4685 Apr 09 17:13 4685 Jun 06 21:09 4685 Jul 27 19:52 4685 Aug 27 21:29 4685 Aug 29 09:29 4685 Sep 03 09:05 4685 Sep 29 23:46 4685 Dec 14 02:58 4686 Jan 28 11:55 4686 Mar 12 12:24 4686 Apr 24 20:54 4686 Jun 08 10:17 4686 Jul 24 08:08 4686 Aug 28 01:44 4686 Sep 09 05:26 4686 Oct 11 13:12	23° № 57'37 0° 요 15° 요35'46 0° M 0° % 0° % 0° % 15° % 13'50 0° % 0° ¥ 12° ¥ 46'37 7° ¥ 21'26 6° ¥ 55'10 5° ¥ 28'23 1° ¥ 05'43 0° Ŷ 26° Ŷ 28'31 0° \$ 0° \$ 0° \$ 0° \$ 0° \$ 22° \$ 15'43 0° \$ 20° \$ 23'05	2.64935 AU  -6°27'00 -2.7m 0.40250 AU  2.67854 AU 0°51'50	min. Earth dist. opposition greatest brilliancy direct  desc. node evening set max. Earth dist.  conjunction minimum elong morning rise	4689 Dec 09 00:08 4690 Jan 04 08:18 4690 Jan 08 05:19 4690 Jan 15 23:02 4690 Jan 14 20:25 4690 Feb 19 16:44 4690 Apr 09 20:31 4690 Jun 09 05:32 4690 Jul 31 08:50 4690 Sep 18 16:05 4690 Nov 04 17:21 4690 Nov 05 06:41 4690 Nov 09 05:18 4690 Nov 28 19:55 4690 Dec 19 12:10 4690 Dec 26 10:17 4690 Dec 26 09:16 4691 Jan 31 02:42 4691 Feb 14 11:16 4691 Mar 12 20:17 4691 Apr 21 05:23 4691 May 29 22:28 4691 Jul 07 20:43 4691 Aug 17 03:06	4° \$\alpha 55'42 30° \$\mathbb{S}\$ 28° \$\mathbb{S}\$37'15 25° \$\mathbb{S}\$42'32 26° \$\mathbb{S}\$07'40 18° \$\mathbb{S}\$06'25 0° \$\alpha\$ 0° \$\mathbb{N}\$ 0° \$\mathbb{N}\$ 0° \$\mathbb{N}\$ 20° \$\mathbb{N}\$56'46 15° \$\mathbb{N}\$57'34 0° \$\mathbb{S}\$ 4° \$\mathbb{S}\$46'25 4° \$\mathbb{S}\$44'40 0° \$\mathbb{N}\$ 10° \$\mathbb{S}\$26'05 0° \$\mathbb{N}\$ 0° \$\mathbb	3°46'56 -2.1m 2.57497 AU -0°27'59
max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct asc. node  evening set max. Earth dist. conjunction	4684 Sep 18 02:32 4684 Sep 27 12:11 4684 Oct 21 23:05 4684 Nov 13 17:29 4684 Dec 31 13:54 4685 Feb 18 04:22 4685 Mar 15 10:42 4685 Apr 09 17:13 4685 Jun 06 21:09 4685 Jul 27 19:52 4685 Aug 27 21:29 4685 Aug 29 09:29 4685 Sep 03 09:05 4685 Sep 29 23:46 4685 Dec 14 02:58 4686 Jan 28 11:55 4686 Mar 12 12:24 4686 Apr 24 20:54 4686 Jun 08 10:17 4686 Jul 24 08:08 4686 Sep 09 05:26 4686 Oct 11 13:12	23° № 57'37 0° 요 15° 요35'46 0° M 0° % 0° % 0° % 15° % 13'50 0° % 0° % 12° % 46'37 7° % 21'26 6° % 55'10 5° % 28'23 1° % 05'43 0° % 26° % 28'31 0° \$ 0° \$ 0° \$ 0° \$ 0° \$ 22° \$ 15'43 0° \$ 20° \$ 23'05	2.64935 AU  -6°27'00 -2.7m 0.40250 AU  2.67854 AU 0°51'50	min. Earth dist. opposition greatest brilliancy direct  desc. node evening set max. Earth dist.  conjunction minimum elong morning rise	4689 Dec 09 00:08 4690 Jan 04 08:18 4690 Jan 08 05:19 4690 Jan 15 23:02 4690 Jan 14 20:25 4690 Feb 19 16:44 4690 Apr 09 20:31 4690 Jun 09 05:32 4690 Jul 31 08:50 4690 Sep 18 16:05 4690 Nov 04 17:21 4690 Nov 05 06:41 4690 Nov 09 05:18 4690 Nov 28 19:55 4690 Dec 19 12:10  4690 Dec 26 10:17 4690 Dec 26 09:16 4691 Jan 31 02:42 4691 Feb 14 11:16 4691 Mar 12 20:17 4691 Apr 21 05:23 4691 May 29 22:28 4691 Jul 07 20:43 4691 Aug 17 03:06 4691 Sep 15 06:28 4691 Sep 29 10:00	4° \$\alpha 55'42 30° \$\infty\$ 28° \$\infty 37'15 25° \$\infty 42'32 26° \$\infty 07'40 18° \$\infty 06'25 0° \$\alpha\$ 0° \$\pi\$ 0° \$\pi\$ 0° \$\pi\$ 0° \$\pi\$ 0° \$\pi\$ 20° \$\pi\$ 31'44 0° \$\alpha\$	3°46'56 -2.1m 2.57497 AU -0°27'59
max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct  asc. node  evening set  max. Earth dist.  conjunction minimum elong	4684 Sep 18 02:32 4684 Sep 27 12:11 4684 Oct 21 23:05 4684 Nov 13 17:29 4684 Dec 31 13:54 4685 Feb 18 04:22 4685 Mar 15 10:42 4685 Apr 09 17:13 4685 Jun 06 21:09 4685 Jul 27 19:52 4685 Aug 27 21:29 4685 Aug 29 09:29 4685 Sep 03 09:05 4685 Sep 29 23:46 4685 Dec 14 02:58 4686 Jan 23 08:59 4686 Jan 28 11:55 4686 Mar 12 12:24 4686 Apr 24 20:54 4686 Jun 08 10:17 4686 Jul 24 08:08 4686 Aug 28 01:44 4686 Sep 09 05:26 4686 Oct 13 03:44 4686 Oct 13 03:44 4686 Oct 13 03:44 4686 Oct 26 10:26	23° m 57'37 0° 血 15° 血35'46 0° m 0° ズ 0° 云 15° 石13'50 0° 会 0° 光 12° 光46'37 7° 光21'26 6° 光55'10 5° 光28'23 1° 光05'43 0° Y 26° Y 28'31 0° 公 0° 加 0° の 22° m 15'43 0° 血 20° 血32'05 21° 血33'18 21° 血34'59 0° m	2.64935 AU  -6°27'00 -2.7m 0.40250 AU  2.67854 AU 0°51'50	min. Earth dist. opposition greatest brilliancy direct  desc. node evening set max. Earth dist.  conjunction minimum elong morning rise	4689 Dec 09 00:08 4690 Jan 04 08:18 4690 Jan 08 05:19 4690 Jan 15 23:02 4690 Jan 14 20:25 4690 Feb 19 16:44 4690 Apr 09 20:31 4690 Jun 09 05:32 4690 Jul 31 08:50 4690 Sep 18 16:05 4690 Nov 04 17:21 4690 Nov 05 06:41 4690 Nov 09 05:18 4690 Nov 28 19:55 4690 Dec 19 12:10  4690 Dec 26 09:16 4691 Jan 31 02:42 4691 Feb 14 11:16 4691 Mar 12 20:17 4691 Apr 21 05:23 4691 May 29 22:28 4691 Jul 07 20:43 4691 Sep 15 06:28 4691 Sep 29 10:00 4691 Nov 19 07:29	4° \$\alpha 55'42 30° \$\alpha 28° \alpha 37'15 25° \alpha 42'32 26° \alpha 07'40 18° \alpha 06'25 0° \alpha 0° \alpha 0° \alpha 21'46 2° \alpha 56'46 15° \alpha 57'34 0° \alpha 4° \alpha 46'25 4° \alpha 44'40 0° \alpha 10° \alpha 26'05 0° \alpha	3°46'56 -2.1m 2.57497 AU -0°27'59
max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct asc. node  evening set max. Earth dist. conjunction	4684 Sep 18 02:32 4684 Sep 27 12:11 4684 Oct 21 23:05 4684 Nov 13 17:29 4684 Dec 31 13:54 4685 Feb 18 04:22 4685 Mar 15 10:42 4685 Apr 09 17:13 4685 Jun 06 21:09 4685 Jul 27 19:52 4685 Aug 27 21:29 4685 Aug 29 09:29 4685 Sep 03 09:05 4685 Sep 29 23:46 4685 Dec 14 02:58 4686 Jan 23 08:59 4686 Jan 28 11:55 4686 Mar 12 12:24 4686 Apr 24 20:54 4686 Jun 08 10:17 4686 Jul 24 08:08 4686 Aug 28 01:44 4686 Sep 09 05:26 4686 Oct 13 03:44 4686 Oct 13 03:44 4686 Oct 13 03:44 4686 Oct 26 10:26 4686 Nov 26 05:51	23° m 57'37 0° 血 15° 血35'46 0° m 0° ズ 0° 云 15° 石13'50 0° 会 0° 光 12° 光46'37 7° 光21'26 6° 光55'10 5° 光28'23 1° 光05'43 0° Y 26° Y 28'31 0° 公 0° m 22° m 15'43 0° 血 20° 血32'05 21° 血33'18 21° 血34'59 0° m 19° m 40'20	2.64935 AU  -6°27'00 -2.7m 0.40250 AU  2.67854 AU 0°51'50	min. Earth dist. opposition greatest brilliancy direct  desc. node evening set max. Earth dist.  conjunction minimum elong morning rise  asc. node	4689 Dec 09 00:08 4690 Jan 04 08:18 4690 Jan 08 05:19 4690 Jan 15 23:02 4690 Jan 14 20:25 4690 Feb 19 16:44 4690 Apr 09 20:31 4690 Jun 09 05:32 4690 Jul 31 08:50 4690 Sep 18 16:05 4690 Nov 04 17:21 4690 Nov 05 06:41 4690 Nov 09 05:18 4690 Nov 28 19:55 4690 Dec 19 12:10  4690 Dec 26 10:17 4690 Dec 26 09:16 4691 Jan 31 02:42 4691 Feb 14 11:16 4691 Mar 12 20:17 4691 Apr 21 05:23 4691 May 29 22:28 4691 Jul 07 20:43 4691 Sep 15 06:28 4691 Sep 29 10:00 4691 Nov 19 07:29 4692 Jan 18 00:46	4° \$\alpha 55'42 30° \$\infty 28° \$\infty 37'15 25° \$\infty 42'32 26° \$\infty 07'40 18° \$\infty 06'25 0° \$\alpha\$ 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 15° \$\mathred{m}\$ 57'34 0° \$\mathred{m}\$ 4° \$\mathred{m}\$ 46'25 4° \$\mathred{m}\$ 44'40 0° \$\mathred{m}\$ 10° \$\mathred{m}\$ 26'05 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 10° \$\mathred{m}\$ 31'44 0° \$\alpha\$ 0° \$\mathred{m}\$ 17° \$\mathred{m}\$ 53'04	3°46'56 -2.1m 2.57497 AU -0°27'59 0°27'57
max. Earth dist. morning rise  desc. node  retrograde opposition greatest brilliancy min. Earth dist. direct  asc. node  evening set  max. Earth dist.  conjunction minimum elong	4684 Sep 18 02:32 4684 Sep 27 12:11 4684 Oct 21 23:05 4684 Nov 13 17:29 4684 Dec 31 13:54 4685 Feb 18 04:22 4685 Mar 15 10:42 4685 Apr 09 17:13 4685 Jun 06 21:09 4685 Jul 27 19:52 4685 Aug 27 21:29 4685 Aug 29 09:29 4685 Sep 03 09:05 4685 Sep 29 23:46 4685 Dec 14 02:58 4686 Jan 23 08:59 4686 Jan 28 11:55 4686 Mar 12 12:24 4686 Apr 24 20:54 4686 Jun 08 10:17 4686 Jul 24 08:08 4686 Aug 28 01:44 4686 Sep 09 05:26 4686 Oct 13 03:44 4686 Oct 13 03:44 4686 Oct 13 03:44 4686 Oct 26 10:26	23° m 57'37 0° 血 15° 血35'46 0° m 0° ズ 0° 云 15° 石13'50 0° 会 0° 光 12° 光46'37 7° 光21'26 6° 光55'10 5° 光28'23 1° 光05'43 0° Y 26° Y 28'31 0° 公 0° 加 0° の 22° m 15'43 0° 血 20° 血32'05 21° 血33'18 21° 血34'59 0° m	2.64935 AU  -6°27'00 -2.7m 0.40250 AU  2.67854 AU 0°51'50	min. Earth dist. opposition greatest brilliancy direct  desc. node evening set max. Earth dist.  conjunction minimum elong morning rise	4689 Dec 09 00:08 4690 Jan 04 08:18 4690 Jan 08 05:19 4690 Jan 15 23:02 4690 Jan 14 20:25 4690 Feb 19 16:44 4690 Apr 09 20:31 4690 Jun 09 05:32 4690 Jul 31 08:50 4690 Sep 18 16:05 4690 Nov 04 17:21 4690 Nov 05 06:41 4690 Nov 09 05:18 4690 Nov 28 19:55 4690 Dec 19 12:10  4690 Dec 26 09:16 4691 Jan 31 02:42 4691 Feb 14 11:16 4691 Mar 12 20:17 4691 Apr 21 05:23 4691 May 29 22:28 4691 Jul 07 20:43 4691 Sep 15 06:28 4691 Sep 29 10:00 4691 Nov 19 07:29	4° \$\alpha 55'42 30° \$\alpha 28° \alpha 37'15 25° \alpha 42'32 26° \alpha 07'40 18° \alpha 06'25 0° \alpha 0° \alpha 0° \alpha 21'46 2° \alpha 56'46 15° \alpha 57'34 0° \alpha 4° \alpha 46'25 4° \alpha 44'40 0° \alpha 10° \alpha 26'05 0° \alpha	3°46'56 -2.1m 2.57497 AU -0°27'59

opposition	4602 Fab. 27, 00:17	7° <b>m</b> 55'00	4942107	conjunction	4697 Jul 01 19:59	12° <b>©</b> 46'05	0°35'10
opposition	4692 Feb 27 00:17 4692 Mar 23 13:17	7 IIJ3300 30°RΩ	4 43 07	minimum elong	4697 Jul 01 17:50	12 \$340 03 12°\$42'12	0°35'07
direct	4692 Apr 05 10:10	28° <b>Ω</b> 55'26		minimum ciong	4697 Jul 26 01:46	0°Ω	0 33 07
uncet	4692 Apr 19 01:50	0° m)		max. Earth dist.	4697 Aug 10 08:32		2.51945 AU
	4692 Jul 05 22:07	0∘ <b>⊽</b>		morning rise	4697 Aug 28 02:43	22° <b>Ω</b> 42'03	2.019 10110
	4692 Aug 28 10:25	0° <b>m</b>			4697 Sep 08 00:13	0° m)	
desc. node	4692 Sep 22 05:48	15° <b>™</b> 04'47			4697 Oct 24 04:19	0∘ <u>⊽</u>	
	4692 Oct 15 19:58	0° <b>∡</b> ¹			4697 Dec 11 20:07	0° <b>M</b>	
	4692 Nov 29 19:53	0°ප			4698 Feb 02 16:40	0° <b>∡</b> ¹	
evening set	4692 Dec 20 22:48	14° <b>る</b> 46'44			4698 Apr 17 23:30	0°ರ	
max. Earth dist.	4693 Jan 04 12:12	25° <b>る</b> 13'05	2.45298 AU	retrograde	4698 May 06 06:21	1° <b>る</b> 51'40	
	4693 Jan 11 02:00	0° <b>≈</b>		desc. node	4698 May 15 02:04	1° <b>る</b> 22'18	
					4698 May 23 09:34	30°R <b>✓</b>	
conjunction	4693 Feb 13 06:46	24° <b>≈</b> 43'38	-1°03'16	opposition	4698 Jun 12 10:41	23° <b>∡</b> ⁴44'21	-1°09'17
minimum elong	4693 Feb 13 05:46	24° <b>≈</b> 41'43	1°03'17	greatest brilliancy	4698 Jun 12 17:25	23° <b>₹</b> 38′02	-1.7m
	4693 Feb 20 05:05	0° <b>∀</b>		min. Earth dist.	4698 Jun 19 07:45	21° <b>₹</b> 09'48	0.57995 AU
	4693 Mar 30 22:39	0° <b>Υ</b>		direct	4698 Jul 22 22:36	14° <b>∡</b> 03'46	
morning rise	4693 Apr 17 18:39	14° <b>Y</b> ′00′36			4698 Sep 16 16:59	0°ප	
	4693 May 08 02:12	0° <b>8</b>			4698 Nov 06 10:13	0° <b>≈</b>	
	4693 Jun 15 12:44	0°Ⅱ			4698 Dec 18 17:16	0° <b>∀</b>	
	4693 Jul 25 03:46	0.22 0.22			4699 Jan 27 04:10	0° <b>Υ</b>	
asc. node	4693 Aug 02 06:26	5°\$58'28		1	4699 Mar 06 20:14	0°8	
	4693 Sep 04 21:30	0° <b>N</b>		asc. node	4699 Mar 25 03:24	14° <b>႘</b> 06'43 0° <b>Ⅱ</b>	
	4693 Oct 19 23:56	0 <b>் ம</b> 0° <b>மி</b>			4699 Apr 15 00:05	0ಂខ ೧.π	
ratragrada	4693 Dec 10 18:09			ovening set	4699 May 25 12:45 4699 Jun 28 20:55	0 \$3 24°\$24'36	
retrograde opposition	4694 Feb 20 19:20 4694 Apr 02 02:02	22° <b>£</b> 44'15 12° <b>£</b> 57'36	30/10/12	evening set	4699 Jul 06 22:04	24 <b>3</b> 24 36 0° <b>Ω</b>	
greatest brilliancy	4694 Apr 02 00:31	12 <b>⊆</b> 57 30 12° <b>⊆</b> 59'07			4699 Aug 20 06:41	0° <b>m</b> )	
min. Earth dist.	4694 Apr 01 14:32	12 <b>⊆</b> 3707	0.67743 AU		40)) Aug 20 00.41	עויי	
direct	4694 May 12 17:57	3° <b>₽</b> 12'56	0.07743710	conjunction	4699 Aug 21 05:46	0° m/38'12	1°06'36
uncet	4694 Aug 03 10:47	0°M		minimum elong	4699 Aug 21 05:11		1°06'36
desc. node	4694 Aug 10 05:16	3°M32'13		max. Earth dist.	4699 Sep 09 09:52		2.62275 AU
	4694 Sep 25 03:06	0° <b>∡</b> 7			4699 Oct 05 08:25	0∘ <b>⊽</b>	
	4694 Nov 10 07:28	ರ°0		morning rise	4699 Oct 08 15:48	2° <b>£</b> 07'06	
	4694 Dec 22 17:49	0° <b>≈</b>		C	4699 Nov 21 17:58	0° <b>M</b>	
	4695 Jan 31 15:58	0° <b>∀</b>			4700 Jan 09 07:50	0° <b>∡</b> ¹	
evening set	4695 Feb 15 15:33	11° <b>)</b> 35'50			4700 Feb 28 20:10	ರ°0	
	4695 Mar 11 02:30	$0^{\circ}$ $\Upsilon$		desc. node	4700 Apr 02 01:19	17° <b>る</b> 51'07	
	4695 Apr 18 00:38	0°8			4700 Apr 26 06:26	0° <b>≈</b>	
				retrograde	4700 Jun 30 05:09	18° <b>≈</b> 37'59	
conjunction	4695 Apr 23 23:58	4° <b>8</b> 42'47	-0°37'30	opposition	4700 Aug 02 08:10	12° <b>≈</b> 20′20	-5°14'28
minimum elong	4695 Apr 24 03:14	4° <b>8</b> 49'13	0°37'28	greatest brilliancy	4700 Aug 03 20:33	11° <b>≈</b> 50′50	-2.4m
	4695 May 26 08:41	$\Pi$ °0		min. Earth dist.	4700 Aug 10 17:32	9° <b>≈</b> 38′01	0.45072 AU
max. Earth dist.	4695 Jun 09 15:03		2.38442 AU	direct	4700 Sep 07 11:02	4°≈40'37	
asc. node	4695 Jun 20 04:20	18° <b>∏</b> 57'25			4700 Nov 15 20:00	0° <b>∀</b>	
morning rise	4695 Jul 03 17:05	29° <b>Ⅱ</b> 05'10			4700 Dec 30 23:21	0° <b>Υ</b>	
	4695 Jul 04 22:38	0° <b>©</b>		asc. node	4701 Feb 10 02:08	29° <b>Y</b> 47'15	
	4695 Aug 15 10:53	0° <b>N</b>			4701 Feb 10 09:05	0° <b>B</b>	
	4695 Sep 28 11:04	0° <b>m</b> )			4701 Mar 23 11:01	0° <b>I</b>	
	4695 Nov 14 17:02	ი∘ <b>m</b> 0∘ <del>ত</del>			4701 May 04 13:18	0.ಂ 0.ಂ	
retrograde	4696 Jan 06 17:50 4696 Mar 26 18:46	0°ጤ 25°ጤ46'45			4701 Jun 17 05:29 4701 Aug 01 12:47	0° <b>Ω</b> 0° <b>m</b> )	
opposition	4696 May 05 04:33	16°M36'34	1°51'46	evening set	4701 Aug 01 12:47 4701 Aug 13 15:08	7° Mp 51'43	
greatest brilliancy	4696 May 05 10:24	16°M30'50	-1.4m	evening set	4701 Sep 17 01:38	0∘ <b>ʊ</b>	
min. Earth dist.	4696 May 08 12:41	15°M17'59	0.66093 AU		4701 Sep 17 01.38	0 ==	
direct	4696 Jun 15 16:36	6°M33'50	0.000/3 AU	conjunction	4701 Sep 29 23:01	8° <b>£</b> 13'21	1°00'47
desc. node	4696 Jun 27 03:49	7°M20'30		minimum elong	4701 Sep 29 23:55	8° <b>⊆</b> 14'48	1°00'47
	4696 Aug 28 13:17	0° <b>⊼</b>		max. Earth dist.	4701 Oct 03 17:30		2.67353 AU
	4696 Oct 18 09:27	∞ੰਤ			4701 Nov 03 04:59	0°M	
	4696 Dec 01 02:31	0° <b>≈</b>		morning rise	4701 Nov 13 14:31	6°M36'26	
	4697 Jan 10 09:15	0° <b>)</b> €		<b>5</b> .	4701 Dec 20 08:25	0° <b>∡</b> 7	
	4697 Feb 17 22:05	0°Υ			4702 Feb 05 04:48	0°ರ	
	4697 Mar 27 22:28	0° <b>႘</b>		desc. node	4702 Feb 18 00:15	8° <b>ප</b> 13'56	
evening set	4697 Apr 28 03:50	24° <b>8</b> 22'38			4702 Mar 23 20:28	0° <b>≈</b>	
	4697 May 05 11:00	$\Pi^{\circ}0$			4702 May 09 20:27	0° <b>∀</b>	
asc. node	4697 May 07 03:29	1° <b>Ⅱ</b> 17'39			4702 Jun 28 03:17	$0^{\circ}$ Y	
	4697 Jun 14 07:36	0 <b>∘</b> ©			4702 Sep 12 11:40	$0^{\circ}S$	

retrograde	4702 Sep 17 10:42	0° <b>8</b> 09'48			4707 May 19 23:51	0° <b>m</b> )	
	4702 Sep 22 09:05	30° <b>₹</b> Υ			4707 Jul 18 00:11	0∘ <b>⊽</b>	
min. Earth dist.	4702 Oct 16 10:25	25° <b>Y</b> 23'34	0.36994 AU		4707 Sep 07 07:30	0°M	
opposition	4702 Oct 17 15:36	25° <b>Y</b> ′04′09	-4°53'22	desc. node	4707 Oct 10 20:52	20°M53'27	
greatest brilliancy	4702 Oct 17 15:22	25° <b>Y</b> 04'19	-3.0m		4707 Oct 25 01:04	0° <b>∡</b> ¹	
direct	4702 Nov 16 02:16	20° <b>Ƴ</b> 11'04		evening set	4707 Dec 05 03:56	27° <b>∡</b> ¹25'39	
	4702 Dec 27 07:10	$9^{\circ}$ 8			4707 Dec 08 21:46	8°0	
asc. node	4702 Dec 29 00:58	0° <b>8</b> 44'53		max. Earth dist.	4707 Dec 20 03:07	7° <b>る</b> 47'19	2.50462 AU
	4703 Feb 20 23:41	$\Pi$ °0			4708 Jan 20 06:23	0° <b>≈</b>	
	4703 Apr 09 18:18	$0$ $\circ$ $\odot$					
	4703 May 26 16:14	$0^{\circ}\Omega$		conjunction	4708 Jan 24 21:10	3° <b>≈</b> 21'59	
	4703 Jul 12 23:07	0° <b>т</b> р		minimum elong	4708 Jan 24 19:32	3°≈19'01	0°53'03
	4703 Aug 29 14:42	0∘ <b>⊽</b>			4708 Feb 29 14:12	0° <b>∀</b>	
evening set	4703 Sep 20 21:40	14° <b>£</b> 02'36		morning rise	4708 Mar 21 23:11	16° <b>)</b> €22'15	
n a r	4703 Oct 16 02:24	0°M,	2 ((0.42 4.11		4708 Apr 08 12:40	0° <b>Υ</b>	
max. Earth dist.	4703 Oct 26 08:44	6°11632'23	2.66942 AU		4708 May 16 20:11	0°B 0°B	
. ,.	4702 N 05 01 10	120 <b>M</b> 44105	0022105		4708 Jun 24 09:26	0₀ <b>©</b> 0∘п	
conjunction	4703 Nov 05 01:10 4703 Nov 05 02:03	12°M44'05 12°M45'30	0°32'05 0°32'04	asc. node	4708 Aug 03 03:22 4708 Aug 19 21:47	12° <b>©</b> 12'50	
minimum elong	4703 Nov 03 02.03 4703 Dec 01 18:52	12 IIC43 30 0° <b>√</b> 7	0 32 04	asc. node	4708 Sep 14 04:39	0°Ω	
morning rise	4703 Dec 19 05:39	0 <b>x</b> ⁴ 11° <b>x¹</b> 24'52			4708 Oct 30 09:22	0°m)	
desc. node	4703 Dec 19 03:39 4704 Jan 05 22:46	23°×707'59			4708 Dec 27 02:21	0∘ <del>ত</del> بالا	
desc. node	4704 Jan 16 05:26	23 X 07 39 0°る		retrograde	4709 Feb 08 12:53	0 <b>==</b> 9° <b>£</b> 52'44	
	4704 Feb 29 06:25	0°≈		min. Earth dist.	4709 Mar 18 20:37	0° <b>£</b> 45'52	0.66599 AU
	4704 Apr 11 23:17	0° <b>∀</b>		opposition	4709 Mar 20 20:33	29° m 57'52	
	4704 May 23 15:00	0° <b>Υ</b>		оррозмон	4709 Mar 20 18:25	30°R.M⊅	. 1007
	4704 Jul 03 21:47	0°8		greatest brilliancy	4709 Mar 20 13:14	0° <b>£</b> 05'12	-1.3m
	4704 Aug 15 11:44	0° <b>I</b> I		direct	4709 Apr 29 19:28	20° m/27'33	1.511
	4704 Oct 04 03:39	0ಂತಾ			4709 Jun 13 10:34	0∘ <b>⊽</b>	
asc. node	4704 Nov 15 00:52	13° <b>©</b> 28'33			4709 Aug 14 20:26	0°M	
retrograde	4704 Nov 21 03:19	13° <b>©</b> 44'49		desc. node	4709 Aug 27 19:31	7° <b>M</b> 21'31	
min. Earth dist.	4704 Dec 19 01:51	8° <b>5</b> 20'04	0.46385 AU		4709 Oct 04 05:36	0°⊀	
opposition	4704 Dec 27 10:32	5°523'29	2°24'45		4709 Nov 18 19:30	<b>万</b> °0	
greatest brilliancy	4704 Dec 26 15:05	5°5540'43	-2.4m		4709 Dec 31 03:09	0° <b>≈</b>	
	4705 Jan 15 00:20	30°R <b>Ⅱ</b>		evening set	4710 Jan 23 03:37	17° <b>≈</b> 06′06	
direct	4705 Jan 29 09:02	28° <b>∏</b> 36′24			4710 Feb 09 02:35	0° <b>∀</b>	
	4705 Feb 13 07:18	$0$ $\circ$ $\odot$		max. Earth dist.	4710 Feb 25 11:27		2.37785 AU
	4705 Apr 27 21:00	$0^{\circ}\Omega$			4710 Mar 19 15:12	$0$ ° $\Upsilon$	
	4705 Jun 20 00:00	0° <b>m</b>					
	4705 Aug 09 04:37	0。 <b>⊽</b>		conjunction	4710 Mar 26 10:14	5° <b>Y</b> 21′16	
	4705 Sep 26 18:09	0°M₊		minimum elong	4710 Mar 26 12:42	5° <b>Y</b> 26′07	0°58'35
evening set	4705 Oct 26 10:36	18°M52'28			4710 Apr 26 14:40	0° <b>8</b>	
	4705 Nov 12 14:12	0° <b>∡</b> 7			4710 Jun 03 22:33	0°II	
max. Earth dist.	4705 Nov 18 21:55	4° <b>₹</b> 08'46	2.61145 AU	morning rise	4710 Jun 06 00:31	1° <b>Ⅱ</b> 36'33	
desc. node	4705 Nov 22 21:53	6° <b>≯</b> 146'56		asc. node	4710 Jul 07 21:57	25° <b>Ⅱ</b> 51'39	
. ,.	4705 D 11 00 17	100 705144	0010115		4710 Jul 13 11:17	0° <b>©</b>	
conjunction	4705 Dec 11 09:17 4705 Dec 11 08:55	19° <b>尽</b> 05'44 19° <b>尽</b> 05'07			4710 Aug 23 23:09 4710 Oct 07 04:07	0° <b>N</b> 0° <b>m</b>	
minimum elong behind sun begin	4705 Dec 10 17:34	19 <b>x</b> · 03 0 / 18° <b>x</b> 39'20	0 10 14		4710 Oct 07 04.07 4710 Nov 24 09:16	0∘ <b>ত</b> رااا	
behind sun end	4705 Dec 12 00:16	18 <b>★</b> 39 20			4710 Nov 24 09:10 4711 Jan 21 06:01	0° <b>m</b>	
beiling sun end	4705 Dec 27 11:02	0°る		retrograde	4711 Mar 14 21:20	13°M04'20	
morning rise	4706 Jan 27 16:38	21° <b>පි</b> 43'08		opposition	4711 Apr 23 18:34	3°M37'13	2°44'04
morning rise	4706 Feb 08 08:12	0° <b>≈</b>		greatest brilliancy	4711 Apr 23 23:12		-1.3m
	4706 Mar 21 10:53	0° <b>)</b> €		min. Earth dist.	4711 Apr 25 15:02	2°M53'13	0.67522 AU
	4706 Apr 30 05:44	0° <b>Υ</b>		min. Bartii dibt.	4711 May 03 03:11	30° <b>R</b> Ω	0.07522110
	4706 Jun 08 08:14	0°8		direct	4711 Jun 04 02:58	23° <b>£</b> 38'15	
	4706 Jul 17 16:17	0°II			4711 Jul 09 06:26	0°M	
	4706 Aug 27 14:19	0ಂತಾ		desc. node	4711 Jul 15 18:11	2°M15'14	
asc. node	4706 Oct 02 23:11	24°534'01			4711 Sep 10 21:20	0°⊀	
	4706 Oct 11 15:50	$0^{\circ}\Omega$			4711 Oct 29 02:29	ರ°0	
	4706 Dec 14 13:24	0° <b>m</b>			4711 Dec 11 03:15	0° <b>≈</b>	
retrograde	4707 Jan 04 11:04	2°M/47'39			4712 Jan 20 05:00	0° <b>)</b> €	
	4707 Jan 24 06:02	$30^{\circ}$ R $\Omega$			4712 Feb 27 15:56	$0^{\circ}\Upsilon$	
min. Earth dist.	4707 Feb 07 02:57		0.59127 AU	evening set	4712 Mar 31 09:43	25° <b>Y</b> 53'31	
opposition	4707 Feb 12 22:17	22° <b>Ω</b> 57'01			4712 Apr 05 14:36	0°8	
greatest brilliancy	4707 Feb 11 22:49	23° <b>Ω</b> 20'11	-1.7m		4712 May 14 00:22	$\Pi$ $^{\circ}0$	
direct	4707 Mar 22 01:46	14° <b>Ω</b> 24'29		asc. node	4712 May 24 20:53	8° <b>Ⅱ</b> 19'27	

conjunction	4712 Jun 07 22:17	18° <b>Ⅲ</b> 58'24	0.00133		4717 May 24 21:06	0° <b>∀</b>	
minimum elong	4712 Jun 07 22:17	18° <b>II</b> 56'50	0°09'31	retrograde	4717 May 24 21:00 4717 Aug 15 15:58	29° <b>₩</b> 03'32	
behind sun begin	4712 Jun 06 22:43	18° <b>Ⅱ</b> 14'05	0 07 31	opposition	4717 Sep 15 00:02	23° <b>H</b> 59'58	-6°31'35
behind sun end	4712 Jun 08 20:10	19° <b>Ⅱ</b> 39'32		greatest brilliancy	4717 Sep 15 00:02 4717 Sep 16 01:55	23° <b>)</b> (3)'30	
oeima san ena	4712 Jun 22 17:05	0°95		min. Earth dist.	4717 Sep 19 05:40		0.38297 AU
max. Earth dist.	4712 Jul 25 23:39		2.46687 AU	direct	4717 Oct 16 06:32	18° <b>)</b> €28'28	0.50257110
	4712 Aug 03 07:22	$0^{\circ}\Omega$			4717 Nov 29 07:38	$0^{\circ}\Upsilon$	
morning rise	4712 Aug 09 14:01	4° <b>£</b> 23′43		asc. node	4718 Jan 14 17:43	26° <b>Ƴ</b> 19'06	
C	4712 Sep 16 04:02	0° <b>m</b>			4718 Jan 20 11:42	0°8	
	4712 Nov 01 13:28	0∘ <b>⊽</b>			4718 Mar 06 13:32	$\Pi^{\circ}0$	
	4712 Dec 21 05:49	0°M			4718 Apr 19 23:07	0ංම	
	4713 Feb 16 08:34	0° <b>∡</b> ¹			4718 Jun 04 03:46	$0^{\circ}\Omega$	
retrograde	4713 Apr 20 10:35	17° <b>∡</b> 18'15			4718 Jul 20 10:53	0° <b>m</b>	
opposition	4713 May 28 16:14	8° <b>∡</b> ¹42'12	0°09'19		4718 Sep 05 13:29	0∘ <b>रु</b>	
greatest brilliancy	4713 May 28 17:11	8° <b>₹</b> 41'18	-1.6m	evening set	4718 Sep 06 12:11	0° <b>£</b> 35'59	
desc. node	4713 Jun 01 16:40	7° <b>∡</b> ¹09'33		max. Earth dist.	4718 Oct 17 15:50	26° <b>≙</b> 41'57	2.67768 AU
min. Earth dist.	4713 Jun 03 05:53	6° <b>≯</b> ³34′03	0.61883 AU				
	4713 Jun 25 04:58	30°RM₊		conjunction	4718 Oct 22 02:53	29° <b>≙</b> 32'09	0°45'16
direct	4713 Jul 08 20:22	28°M45'48		minimum elong	4718 Oct 22 03:57	29° <b>≏</b> 33'50	0°45'16
	4713 Jul 23 03:20	0° <b>⊼</b>			4718 Oct 22 20:24	0°M₊	
	4713 Oct 02 07:50	0°ಕ		morning rise	4718 Dec 05 02:33	27°M42'44	
	4713 Nov 17 15:21	0° <b>≈</b>			4718 Dec 08 15:31	0° <b>∡</b> ¹	
	4713 Dec 28 18:47	0° <b>∀</b>		desc. node	4719 Jan 22 14:04	29° <b>∡</b> ¹22'58	
	4714 Feb 05 17:14	0° <b>Υ</b>			4719 Jan 23 12:28	0° <b>ට</b>	
	4714 Mar 16 00:47	0° <b>8</b>			4719 Mar 09 07:44	0° <b>≈</b>	
asc. node	4714 Apr 11 19:05	20° <b>8</b> 45'45			4719 Apr 22 03:14	0° <b>)</b> €	
	4714 Apr 23 20:42	0°II			4719 Jun 04 07:21	0° <b>Υ</b>	
. ,	4714 Jun 03 01:18	0°95			4719 Jul 17 21:54	8°0	
evening set	4714 Jun 08 04:27	3°544'10			4719 Sep 04 02:33	0°II	
	4714 Jul 15 03:08	$0$ ° $\Omega$		retrograde	4719 Oct 31 01:53	18° <b>Ⅲ</b> 29'29 13° <b>Ⅲ</b> 50'44	0.41201.411
conjunction	4714 Aug 04 09:39	13° <b>Ω</b> 57'13	0°59'50	min. Earth dist. asc. node	4719 Nov 26 11:02 4719 Dec 02 16:11	13° <b>Д</b> 50'44 11° <b>Д</b> 52'58	0.41291 AU
minimum elong	4714 Aug 04 09:39 4714 Aug 04 08:11	13° <b>€</b> 57 13	0°59'49	opposition	4719 Dec 02 10:11 4719 Dec 04 01:44	11° <b>I</b> I32'38	0°05!33
minimum ciong	4714 Aug 28 06:03	0° m	0 39 49	greatest brilliancy	4719 Dec 04 01:44 4720 Sep 03 09:54	11° <b>£</b> 2010	1.8m
max. Earth dist.	4714 Aug 30 21:22	1° <b>m</b> )45'05	2.58825 AU	direct	4720 Jan 04 00:24	5° <b>I</b> 36'05	1.0111
morning rise	4714 Sep 24 12:15	17° Mp 54'26	2.36623 AC	direct	4720 Mar 17 14:46	0°9	
morning rise	4714 Oct 13 06:32	೧∘ <b>ರ</b>			4720 May 09 19:40	$0^{\circ}\Omega$	
	4714 Nov 29 23:27	0°M			4720 Jun 28 17:00	0° <b>m</b> )	
	4715 Jan 18 15:06	0° <b>∡</b> 7			4720 Aug 16 15:10	0∘ <mark>ಹ</mark>	
	4715 Mar 13 10:07	0°₹			4720 Oct 03 16:07	0° <b>M</b> .	
desc. node	4715 Apr 19 15:23	17°る18'30		evening set	4720 Oct 12 03:41	5°M22'35	
retrograde	4715 Jun 07 03:09	28° <b>ප</b> 32'12		max. Earth dist.	4720 Nov 08 22:38	23°M12'05	2.64063 AU
opposition	4715 Jul 12 03:14	21° <b>る</b> 24'17	-3°35'41		4720 Nov 19 09:28	0° <b>∡</b> ¹	
greatest brilliancy	4715 Jul 13 04:21	21° <b>る</b> 02'15	-2.1m				
min. Earth dist.	4715 Jul 20 12:41	18° <b>る</b> 28'25	0.50431 AU	conjunction	4720 Nov 26 09:28	4° <b>҂</b> ³35′05	0°07'13
direct	4715 Aug 19 12:55	12° <b>る</b> 39'21		minimum elong	4720 Nov 26 09:41	4° <b>∡</b> ³35'27	0°07'13
	4715 Oct 14 23:46	0° <b>≈</b>		behind sun begin	4720 Nov 25 16:29	4° <b>∡</b> 07'13	
	4715 Dec 02 04:22	0° <b>∀</b>		behind sun end	4720 Nov 27 02:54	5° <b>҂</b> 03'42	
	4716 Jan 12 14:28	0° <b>Υ</b>		desc. node	4720 Dec 09 12:27	13° <b>∡</b> 15′23	
	4716 Feb 21 09:27	0° <b>8</b>			4721 Jan 03 10:35	0° <b>ろ</b>	
asc. node	4716 Feb 27 18:31	4° <b>8</b> 49'01		morning rise	4721 Jan 10 21:55	5° <b>る</b> 05'44	
	4716 Apr 01 10:05	0° <b>I</b> I			4721 Feb 15 16:53	0° <b>≈</b>	
	4716 May 12 16:48	0° <b>©</b>			4721 Mar 29 07:47	0° <b>)</b> €	
. ,	4716 Jun 24 17:46	0°N			4721 May 08 15:48	0° <b>Υ</b>	
evening set	4716 Jul 28 03:01	22° <b>Ω</b> 26'27			4721 Jun 17 07:47	0°H 0°S	
	4716 Aug 08 13:57	0° Тф			4721 Jul 27 07:52 4721 Sep 07 11:52	0ಂខ ೧ <u>.</u> π	
conjunction	4716 Sep 15 05:57	210 mm 27155	1°06'22	asc. node	4721 Sep 07 11:32 4721 Oct 19 16:01	0°99 26°9907'25	
minimum elong	4716 Sep 15 05:57 4716 Sep 15 06:27	24° m) 27'55 24° m) 28'44	1°06'22 1°06'23	asc. node	4721 Oct 19 16:01 4721 Oct 27 00:18	26° <b>9</b> 0725	
minimum ciong	4716 Sep 13 06.27 4716 Sep 23 20:52	24 البار 20 44 0° <u>م</u>	1 00 23	retrograde	4721 Oct 27 00:18 4721 Dec 19 17:26	16° <b>Ω</b> 00'27	
max. Earth dist.	4716 Sep 24 13:11	0° <b>£</b> 26'09	2.66032 AU	min. Earth dist.	4721 Dec 19 17:20 4722 Jan 20 05:01	9° <b>Ω</b> 14'00	0.54574 AU
morning rise	4716 Oct 30 22:10	23° <b>£</b> 36'05	2.00032 110	greatest brilliancy	4722 Jan 26 05:21	6° <b>Ω</b> 55'07	-1.9m
	4716 Nov 10 00:40	0°M		opposition	4722 Jan 27 08:24	6° <b>Ω</b> 29'00	4°15'20
	4716 Dec 27 13:37	0° <b>⊼</b> ″		· F F	4722 Feb 17 02:46	30°R.50	~ = *
	4717 Feb 13 09:46	0°ਤ		direct	4722 Mar 03 23:47	28°930'30	
desc. node	4717 Mar 06 15:15	13° <b>る</b> 10'53			4722 Mar 19 20:44	0° <b>U</b>	
	4717 Apr 03 02:50	0° <b>≈</b>			4722 Jun 02 22:59	0° m/y	

	4732 Aug 03 02:12	30° <b>R</b> ≈		desc. node	4737 Nov 13 01:43	3° <b>∡</b> ¹20'31	
opposition	4732 Aug 16 15:52	26° <b>≈</b> 18′05		max. Earth dist.	4737 Nov 25 01:55	11° <b>∤</b> 16′21	2.59229 AU
greatest brilliancy	4732 Aug 18 06:39	25°≈48'19	-2.6m		4535 00 00 55	200 310152	0000100
min. Earth dist.	4732 Aug 24 07:13	23°≈58'01	0.42266 AU	conjunction	4737 Dec 20 08:55	28° <b>₹</b> 18'52	
direct	4732 Sep 20 04:56 4732 Oct 31 19:36	19° <b>≈</b> 23'18 0° <b>)</b> €		minimum elong	4737 Dec 20 08:11 4737 Dec 22 20:04	28°ダ17'36 0°る	0°20′32
	4732 Dec 22 06:09	0 K 0°Υ			4737 Dec 22 20:04 4738 Feb 03 14:29	0°≈	
asc. node	4732 Dec 22 00:09 4733 Jan 31 09:56	27° <b>Υ</b> 53'37		morning rise	4738 Feb 07 00:54	0 ∞ 2°≈28'11	
ase. Houe	4733 Feb 03 08:53	0° <b>と</b>		morning rise	4738 Mar 16 12:56	0° <b>)</b> €	
	4733 Mar 17 08:26	0°II			4738 Apr 25 02:37	0° <b>Υ</b>	
	4733 Apr 29 00:41	0ಂತ			4738 Jun 02 23:39	0°8	
	4733 Jun 12 02:53	$0^{\circ}\Omega$			4738 Jul 12 01:18	$\Pi$ °0	
	4733 Jul 27 16:54	0° <b>™</b>			4738 Aug 21 12:04	$0$ $\circ$ $\odot$	
evening set	4733 Aug 22 13:46	16° Mp 40′52		asc. node	4738 Sep 23 07:31	22° <b>5</b> 548'18	
	4733 Sep 12 09:49	0∘ <b>⊽</b>			4738 Oct 04 07:14	$0$ ° $\Omega$	
					4738 Nov 26 21:57	0° m/y	
conjunction	4733 Oct 08 03:15	16° <b>£</b> 22'14		retrograde	4739 Jan 12 21:37	12° m 02'54	0.61074.444
minimum elong	4733 Oct 08 04:16	16° <b>£</b> 23'52		min. Earth dist.	4739 Feb 16 16:18	4° Mp 06'48	0.61274 AU
max. Earth dist.	4733 Oct 08 21:34 4733 Oct 29 13:50	0°M.	2.67747 AU	opposition greatest brilliancy	4739 Feb 21 16:59 4739 Feb 20 20:36	2°Mp06'57 2°Mp27'12	4°44'12
morning rise	4733 Nov 21 09:41	14°M32'21		greatest billiancy	4739 Feb 20 20:36 4739 Feb 27 03:37	2 11/2/12 30°RΩ	-1.0111
morning risc	4733 Nov 21 09:41 4733 Dec 15 13:41	0° <b>√</b>		direct	4739 Mar 31 14:26	23° <b>Ω</b> 18'45	
	4734 Jan 31 00:34	∘ੰਤ		uncer	4739 May 06 18:17	0° m)	
desc. node	4734 Feb 08 04:47	5° <b>る</b> 19'23			4739 Jul 11 13:22	0∘ <b>⊽</b>	
	4734 Mar 17 21:22	0° <b>≈</b>			4739 Sep 02 01:54	0°M	
	4734 May 02 10:32	0° <b>)</b>		desc. node	4739 Oct 01 00:52	17° <b>M</b> 46'58	
	4734 Jun 17 12:31	$0^{\circ}\Upsilon$			4739 Oct 20 05:24	0°⊀	
	4734 Aug 06 20:42	0°8			4739 Dec 04 05:19	5°0	
retrograde	4734 Oct 04 08:57	18° <b>8</b> 33'21		evening set	4739 Dec 15 01:24	7° <b>る</b> 30'57	
min. Earth dist.	4734 Oct 31 13:41	14° <b>8</b> 06'06	0.37731 AU	max. Earth dist.	4739 Dec 29 09:55	17° <b>る</b> 38'26	2.47650 AU
opposition	4734 Nov 04 17:47	12° <b>8</b> 56'01			4740 Jan 15 13:43	0° <b>≈</b>	
greatest brilliancy	4734 Nov 04 09:38	13° <b>8</b> 01'44	-3.0m				
direct	4734 Dec 04 06:28	7° <b>8</b> 53'54		conjunction	4740 Feb 05 14:48	15°≈31'04	
asc. node	4734 Dec 19 10:19	9° <b>8</b> 23'09		minimum elong	4740 Feb 05 13:23	15° <b>≈</b> 28'25 0° <b>¥</b>	0°59'47
	4735 Feb 09 15:38 4735 Apr 02 09:56	0°© 0°∏			4740 Feb 24 19:57 4740 Apr 03 16:10	0° <b>Υ</b>	
	4735 May 20 18:49	0°Ω		morning rise	4740 Apr 06 02:40	1° <b>Υ</b> ′54'21	
	4735 Jul 07 18:49	0° <b>m</b>		morning rise	4740 May 11 21:31	0°8	
	4735 Aug 24 19:36	0∘ <del>⊽</del>		greatest brilliancy	4740 May 17 11:00	4° <b>8</b> 21'55	1.2m
evening set	4735 Sep 29 00:49	22° <b>≏</b> 07'28		<i>y</i>	4740 Jun 19 08:46	0°II	
J	4735 Oct 11 11:29	0°M			4740 Jul 28 23:44	0ಂತಾ	
max. Earth dist.	4735 Oct 31 14:59	12°M50'51	2.66149 AU	asc. node	4740 Aug 10 07:33	9° <b>©</b> 02'55	
					4740 Sep 08 18:36	$0$ $^{\circ}\Omega$	
conjunction	4735 Nov 13 02:05	20°M51'45	0°23'24		4740 Oct 24 03:52	0° <b>™</b>	
minimum elong	4735 Nov 13 02:47	20°M52'52	0°23'24		4740 Dec 16 12:22	0∘ <b>⊽</b>	
	4735 Nov 27 04:11	0° <b>∡</b> 7		retrograde	4741 Feb 16 03:35	17° <b>Ω</b> 46'04	
morning rise	4735 Dec 27 13:54	20° ₹01'25		min. Earth dist.	4741 Mar 27 07:22	8° <b>£</b> 23'21	0.67356 AU
desc. node	4735 Dec 27 03:02	19° <b>メ</b> 43'19 0°る		opposition	4741 Mar 28 11:34	7° <b>£</b> 55'10 7° <b>£</b> 59'10	4°02'36
	4736 Jan 11 11:22 4736 Feb 24 05:09	0°≈		greatest brilliancy	4741 Mar 28 07:34 4741 Apr 21 10:19	7 <u>==</u> 39 10 30°R, <b>m</b> )	-1.3111
	4736 Apr 06 11:44	0° <b>∀</b>		direct	4741 May 07 21:00	28° Mp 16'30	
	4736 May 17 14:00	0° <b>Υ</b>		uncer	4741 May 07 21:00 4741 May 25 10:47	0° <u>م</u>	
	4736 Jun 27 03:07	0°8			4741 Aug 08 06:01	0° <b>™</b>	
	4736 Aug 07 09:32	0°II		desc. node	4741 Aug 18 00:01	5° <b>™</b> 17'44	
	4736 Sep 21 13:41	0ಂತ			4741 Sep 28 22:11	0° <b>∡</b> ″	
asc. node	4736 Nov 05 08:59	21° <b>©</b> 53'27			4741 Nov 13 21:41	ರ°0	
retrograde	4736 Dec 02 03:36	26° <b>5</b> 37'42			4741 Dec 26 08:01	0° <b>≈</b>	
min. Earth dist.	4736 Dec 31 08:27	20°5642'56	0.49385 AU		4742 Feb 04 07:42	0° <b>)</b> €	
greatest brilliancy	4737 Jan 07 10:03	18° <b>©</b> 07'17	-2.2m	evening set	4742 Feb 05 14:05	0° <b>¥</b> 58'22	
opposition	4737 Jan 08 11:01	17°5544'15	3°18'10		4742 Mar 14 19:30	$0$ ° $\Upsilon$	
direct	4737 Feb 11 09:20	10°\$28'52			1710 h 11 51 15	222001	004042
	4737 Apr 18 06:50	0° <b>Ω</b>		conjunction	4742 Apr 11 21:40	22° <b>Y</b> 12'27	
	4737 Jun 13 18:14	0 <b>் ⊽</b> 0° M		minimum elong	4742 Apr 12 01:02	22° <b>Y</b> 19'06	0~48/12
	4737 Aug 03 23:38 4737 Sep 21 23:23	0° <b>M</b>		max. Earth dist.	4742 Apr 21 18:11	0° <b>႘</b> 7°₩48'28	2.36930 AU
evening set	4737 Nov 03 19:38	27°ML17'52		max. Darui Uist.	4742 May 01 15:50 4742 May 30 01:42	/° <b>О</b> 48′28 0° <b>П</b>	4.50930 AU
evening set	4737 Nov 03 19.38 4737 Nov 07 23:10	27 IIG1732 0° <b>√</b> 7		morning rise	4742 Jun 22 16:23	0 H 18°∏04'22	
	.,5,1101 0, 25.10	~ ~			1, 12 Juli 22 10.23	10 10722	

1	4742 I 20 05 20	220T15110			4747 C 27 05 07	00	
asc. node	4742 Jun 28 05:29	22° <b>Ⅱ</b> 15'19			4747 Sep 27 05:07	0°≈	
	4742 Jul 08 14:03	0.00			4747 Nov 23 15:22	0° <b>)</b> €	
	4742 Aug 19 00:40	$0^{\circ}\Omega$			4748 Jan 05 17:49	0°Υ	
	4742 Oct 02 00:48	O° Mp			4748 Feb 15 07:03	$9^{\circ}$ 8	
	4742 Nov 18 13:06	0∘ <b>⊽</b>		asc. node	4748 Feb 18 03:15	2° <b>8</b> 06'59	
	4743 Jan 11 23:17	0°M₊			4748 Mar 26 19:38	$\Pi$ $\circ 0$	
retrograde	4743 Mar 22 18:11	20°M47'23			4748 May 07 11:15	0ಂ <b>ತಾ</b>	
opposition	4743 May 01 09:46	11°M29'02	2°14'31		4748 Jun 19 18:58	$0^{\circ}\Omega$	
greatest brilliancy	4743 May 01 15:18	11°M23'35	-1.3m		4748 Aug 03 19:54	0° <b>m</b>	
min. Earth dist.	4743 May 04 01:37	10°M26'10	0.66862 AU	evening set	4748 Aug 06 16:58	1° Mp 53'00	
direct	4743 Jun 11 21:13	1°M27'31			4748 Sep 19 05:16	0∘ <b>⊽</b>	
desc. node	4743 Jul 05 22:39	4°M39'05			•		
	4743 Sep 03 21:25	0° <b>∡</b> 7		conjunction	4748 Sep 23 18:16	2° <b>£</b> 54'19	1°03'32
	4743 Oct 23 13:24	0°ප		minimum elong	4748 Sep 23 19:02		1°03'33
	4743 Dec 06 00:19	0° <b>≈</b>		max. Earth dist.	4748 Sep 29 21:50	6° <b>£</b> 49'59	2.66868 AU
	4744 Jan 15 05:45	0° <b>ℋ</b>		max. Lartii dist.	4748 Nov 05 08:14	0° <b>M</b>	2.00000 /10
		0° <b>Υ</b>		morning rice		1°M33'39	
4 41 711	4744 Feb 22 17:55		1.0	morning rise	4748 Nov 07 19:19		
greatest brilliancy	4744 Mar 19 03:37	20° <b>Y</b> 04'33	1.2m		4748 Dec 22 15:37	0° <b>⊼</b>	
	4744 Mar 31 17:11	0°8			4749 Feb 07 21:44	0° <b>ろ</b>	
evening set	4744 Apr 16 18:55	12° <b>8</b> 37'43		desc. node	4749 Feb 24 19:07	10° <b>る</b> 42'52	
	4744 May 09 03:43	$\Pi^{\circ}0$			4749 Mar 27 08:14	0° <b>≈</b>	
asc. node	4744 May 15 03:58	4° <b>Ⅱ</b> 36'55			4749 May 14 22:40	0° <b>ℋ</b>	
	4744 Jun 17 21:20	0°ಲ			4749 Jul 07 21:09	$0$ ° $\mathbf{\Upsilon}$	
				retrograde	4749 Sep 03 06:17	16° <b>Ƴ</b> 37'37	
conjunction	4744 Jun 22 11:06	3° <b>©</b> 22'14	0°25'06	opposition	4749 Oct 03 03:22	11° <b>Ƴ</b> 41'44	-5°53'21
minimum elong	4744 Jun 22 09:15	3°518'50	0°25'04	greatest brilliancy	4749 Oct 03 14:44	11° <b>Y</b> 34'14	-3.0m
Z .	4744 Jul 29 12:23	$0^{\circ}\Omega$		min. Earth dist.	4749 Oct 04 12:42	11° <b>Ƴ</b> 19'45	0.37159 AU
max. Earth dist.	4744 Aug 04 23:24	4° <b>Ω</b> 31'11	2.49667 AU	direct	4749 Nov 02 01:24	6° <b>Υ</b> 40'20	
morning rise	4744 Aug 21 00:16	15° <b>Ω</b> 35'29	2.19007110	asc. node	4750 Jan 05 01:40	27°Υ58'55	
morning rise	4744 Sep 11 08:28	0°m		use. node	4750 Jan 08 17:12	0°8	
	•	0∘ <del>ত</del> الله				0°II	
	4744 Oct 27 13:09				4750 Feb 26 16:27		
	4744 Dec 15 12:30	0°M			4750 Apr 13 15:28	0° <b>©</b>	
_	4745 Feb 07 16:46	0° <b>∡</b> ¹			4750 May 29 15:59	$0^{\circ}\Omega$	
retrograde	4745 Apr 29 18:44	25° <b>≯</b> 56′09			4750 Jul 15 10:46	0°Щ	
desc. node	4745 May 22 21:06	22° <b>≯</b> 34'48			4750 Aug 31 19:58	0∘ <b>ত</b>	
opposition	4745 Jun 06 11:37	17° <b>∡</b> ³35′04	-0°34'49	evening set	4750 Sep 14 19:26	8° <b>≏</b> 49'49	
greatest brilliancy	4745 Jun 06 14:45	17° <b>∡</b> ³32'07	-1.7m		4750 Oct 18 05:22	0°M	
min. Earth dist.	4745 Jun 12 19:00	15° <b>√</b> 11'44	0.59852 AU	max. Earth dist.	4750 Oct 22 19:34	2°M55'19	2.67412 AU
direct	4745 Jul 17 08:09	7° <b>∡</b> ¹46'07					
	4745 Sep 23 22:05	0°ප		conjunction	4750 Oct 30 02:29	7°M34'10	0°37'50
	4745 Nov 11 09:29	0° <b>≈</b>		minimum elong	4750 Oct 30 03:28	7°M35'43	0°37'50
	4745 Dec 23 04:14	0° <b>∀</b>			4750 Dec 03 23:19	0° <b>∡</b> 7	
	4746 Jan 31 09:26	0° <b>Υ</b>		morning rise	4750 Dec 13 03:17	5° <b>₹</b> 157'37	
	4746 Mar 10 21:03	0°8		desc. node	4751 Jan 12 17:33	26° <b>₹</b> 04'58	
asa nada		17° <b>8</b> 15'33		desc. Hode	4751 Jan 18 14:57	20 × 04 38	
asc. node	4746 Apr 02 04:13						
	4746 Apr 18 20:22	0° <b>I</b>			4751 Mar 04 00:12	0°≈	
	4746 May 29 03:58	0°95			4751 Apr 16 04:37	0° <b>∀</b>	
evening set	4746 Jun 20 19:50	16° <b>©</b> 17'32			4751 May 28 10:42	0° <b>Υ</b>	
	4746 Jul 10 08:25	$0^{\circ}\Omega$			4751 Jul 09 13:04	0°B	
aaniumatian					4751 Aug 22 16:10	$\Pi^{\circ}0$	
conjunction	4746 Aug 14 19:17	24° <b>Ω</b> 10′08	1°04'29				
minimum elong	4746 Aug 14 19:17 4746 Aug 14 18:19	24°Ω10'08 24°Ω08'32		retrograde	4751 Aug 22 16:10	$\Pi^{\circ}0$	
	Č			retrograde asc. node	4751 Aug 22 16:10 4751 Oct 20 13:18	$\mathfrak{G}_{\circ 0}$	
	4746 Aug 14 18:19	24° <b>£</b> 08'32		•	4751 Aug 22 16:10 4751 Oct 20 13:18 4751 Nov 13 00:53	0°Ⅱ 0°ᢒ 3°ᢒ45'04	
minimum elong max. Earth dist.	4746 Aug 14 18:19 4746 Aug 23 13:02	24° <b>\Omega</b> 08'32 0° <b>m</b> 9° <b>m</b> 02'22	1°04'28	•	4751 Aug 22 16:10 4751 Oct 20 13:18 4751 Nov 13 00:53 4751 Nov 23 01:38	0°II 0°© 3°©45'04 2°©59'45	0.44000 AU
minimum elong	4746 Aug 14 18:19 4746 Aug 23 13:02 4746 Sep 06 05:30 4746 Oct 03 07:29	24° \$\O 8'32 0° m 9° m 02'22 26° m 38'25	1°04'28	asc. node min. Earth dist.	4751 Aug 22 16:10 4751 Oct 20 13:18 4751 Nov 13 00:53 4751 Nov 23 01:38 4751 Dec 06 00:17 4751 Dec 10 02:56	0°II 0°S 3°S45'04 2°S59'45 30°RII 28°II42'39	
minimum elong max. Earth dist.	4746 Aug 14 18:19 4746 Aug 23 13:02 4746 Sep 06 05:30 4746 Oct 03 07:29 4746 Oct 08 13:02	24° € 08'32 0° m 9° m 02'22 26° m 38'25 0° •	1°04'28	asc. node min. Earth dist. opposition	4751 Aug 22 16:10 4751 Oct 20 13:18 4751 Nov 13 00:53 4751 Nov 23 01:38 4751 Dec 06 00:17 4751 Dec 10 02:56 4751 Dec 18 08:49	0°II 0°© 3°©45'04 2°©59'45 30°RII 28°II42'39 25°II55'43	1°32'53
minimum elong max. Earth dist.	4746 Aug 14 18:19 4746 Aug 23 13:02 4746 Sep 06 05:30 4746 Oct 03 07:29 4746 Oct 08 13:02 4746 Nov 25 00:33	24°\$\O8'32 0°\$\pm\ 9°\$\O2'22 26°\$\pm\38'25 0°\$\oldsymbol{\Omega}\$	1°04'28	asc. node min. Earth dist. opposition greatest brilliancy	4751 Aug 22 16:10 4751 Oct 20 13:18 4751 Nov 13 00:53 4751 Nov 23 01:38 4751 Dec 06 00:17 4751 Dec 10 02:56 4751 Dec 18 08:49 4751 Dec 17 20:00	0°Ⅱ 0°⑤ 3°⑤45'04 2°⑤59'45 30°RⅡ 28°Ⅱ42'39 25°Ⅱ55'43 26°Ⅱ06'36	1°32'53
minimum elong max. Earth dist.	4746 Aug 14 18:19 4746 Aug 23 13:02 4746 Sep 06 05:30 4746 Oct 03 07:29 4746 Oct 08 13:02 4746 Nov 25 00:33 4747 Jan 12 23:43	24° € 08'32 0° m 9° m 02'22 26° m 38'25 0° Ω 0° M 0° ⊀	1°04'28	asc. node min. Earth dist. opposition	4751 Aug 22 16:10 4751 Oct 20 13:18 4751 Nov 13 00:53 4751 Nov 23 01:38 4751 Dec 06 00:17 4751 Dec 10 02:56 4751 Dec 18 08:49 4751 Dec 17 20:00 4752 Jan 19 10:19	0°II 0°© 3°©45'04 2°©59'45 30°RII 28°II42'39 25°II55'43 26°II06'36 19°II33'36	1°32'53
minimum elong max. Earth dist. morning rise	4746 Aug 14 18:19 4746 Aug 23 13:02 4746 Sep 06 05:30 4746 Oct 03 07:29 4746 Oct 08 13:02 4746 Nov 25 00:33 4747 Jan 12 23:43 4747 Mar 05 15:05	24° £008'32 0° th 9° th 02'22 26° th 38'25 0° £ 0° th 0° ₹' 0° ₹	1°04'28	asc. node min. Earth dist. opposition greatest brilliancy	4751 Aug 22 16:10 4751 Oct 20 13:18 4751 Nov 13 00:53 4751 Nov 23 01:38 4751 Dec 06 00:17 4751 Dec 10 02:56 4751 Dec 18 08:49 4751 Dec 17 20:00 4752 Jan 19 10:19 4752 Mar 03 20:52	0°II 0°S 3°S45'04 2°S59'45 30°RII 28°II42'39 25°II55'43 26°II06'36 19°II33'36 0°S	1°32'53
minimum elong max. Earth dist.	4746 Aug 14 18:19 4746 Aug 23 13:02 4746 Sep 06 05:30 4746 Oct 03 07:29 4746 Oct 08 13:02 4746 Nov 25 00:33 4747 Jan 12 23:43 4747 Mar 05 15:05 4747 Apr 09 20:11	24°の8'32 0° M 9° M 02'22 26° M 38'25 0° A 0° ズ 0° ズ 18° 云 26'12	1°04'28	asc. node min. Earth dist. opposition greatest brilliancy	4751 Aug 22 16:10 4751 Oct 20 13:18 4751 Nov 13 00:53 4751 Nov 23 01:38 4751 Dec 06 00:17 4751 Dec 10 02:56 4751 Dec 18 08:49 4751 Dec 17 20:00 4752 Jan 19 10:19 4752 Mar 03 20:52 4752 May 02 12:34	0°II 0°S 3°S45'04 2°S59'45 30°RII 28°II42'39 25°II55'43 26°II06'36 19°II33'36 0°S	1°32'53
minimum elong max. Earth dist. morning rise  desc. node	4746 Aug 14 18:19 4746 Aug 23 13:02 4746 Sep 06 05:30 4746 Oct 03 07:29 4746 Oct 08 13:02 4746 Nov 25 00:33 4747 Jan 12 23:43 4747 Mar 05 15:05 4747 Apr 09 20:11 4747 May 06 03:44	24° \$\alpha 08'32 0° \$\text{m}\$ 9° \$\text{m} 02'22 26° \$\text{m} 38'25 0° \$\text{m}\$ 0° \$\text{d}\$ 0° \$\text{d}\$ 18° \$\text{d} 26'12 0° \$\infty\$	1°04'28	asc. node min. Earth dist. opposition greatest brilliancy	4751 Aug 22 16:10 4751 Oct 20 13:18 4751 Nov 13 00:53 4751 Nov 23 01:38 4751 Dec 06 00:17 4751 Dec 10 02:56 4751 Dec 18 08:49 4751 Dec 17 20:00 4752 Jan 19 10:19 4752 Mar 03 20:52 4752 May 02 12:34 4752 Jun 23 00:40	0°Π 0°S 3°S45'04 2°S59'45 30°RΠ 28°П42'39 25°П55'43 26°П06'36 19°П33'36 0°S 0°Ω	1°32'53
minimum elong max. Earth dist. morning rise  desc. node retrograde	4746 Aug 14 18:19 4746 Aug 23 13:02 4746 Sep 06 05:30 4746 Oct 03 07:29 4746 Oct 08 13:02 4746 Nov 25 00:33 4747 Jan 12 23:43 4747 Mar 05 15:05 4747 Apr 09 20:11 4747 May 06 03:44 4747 Jun 20 04:50	24° \$\Omega 08'32 0° \$\mathbf{m}\$ 9° \$\mathbf{m}\$ 02'22 26° \$\mathbf{m}\$ 38'25 0° \$\mathbf{m}\$ 0° \$m\$ 0° \$d\$ 18° \$d\$ 26'12 0° \$\approx\$ 9° \$\approx 57'51	1°04'28 2.60831 AU	asc. node min. Earth dist. opposition greatest brilliancy	4751 Aug 22 16:10 4751 Oct 20 13:18 4751 Nov 13 00:53 4751 Nov 23 01:38 4751 Dec 06 00:17 4751 Dec 10 02:56 4751 Dec 18 08:49 4751 Dec 17 20:00 4752 Jan 19 10:19 4752 Mar 03 20:52 4752 May 02 12:34 4752 Jun 23 00:40 4752 Aug 11 15:05	0°II 0°S 3°S45'04 2°S59'45 30°RII 28°II42'39 25°II55'43 26°II06'36 19°II33'36 0°S 0°Ω 0°Ω	1°32'53
minimum elong max. Earth dist. morning rise  desc. node retrograde opposition	4746 Aug 14 18:19 4746 Aug 23 13:02 4746 Sep 06 05:30 4746 Oct 03 07:29 4746 Oct 08 13:02 4746 Nov 25 00:33 4747 Jan 12 23:43 4747 Mar 05 15:05 4747 Apr 09 20:11 4747 May 06 03:44 4747 Jun 20 04:50 4747 Jul 24 05:12	24° \$\alpha 08'32 0° \$\text{m}\$ 9° \$\text{m} 02'22 26° \$\text{m} 38'25 0° \$\text{m}\$ 0° \$\text{d}\$ 0° \$\text{d}\$ 18° \$\text{d} 26'12 0° \$\infty\$	1°04'28 2.60831 AU	asc. node min. Earth dist. opposition greatest brilliancy direct	4751 Aug 22 16:10 4751 Oct 20 13:18 4751 Nov 13 00:53 4751 Nov 23 01:38 4751 Dec 06 00:17 4751 Dec 10 02:56 4751 Dec 18 08:49 4751 Dec 17 20:00 4752 Jan 19 10:19 4752 Mar 03 20:52 4752 May 02 12:34 4752 Jun 23 00:40 4752 Aug 11 15:05 4752 Sep 28 23:14	0°Π 0°S 3°S45'04 2°S59'45 30°RΠ 28°П42'39 25°П55'43 26°П06'36 19°П33'36 0°S 0°Ω	1°32'53
minimum elong max. Earth dist. morning rise  desc. node retrograde	4746 Aug 14 18:19 4746 Aug 23 13:02 4746 Sep 06 05:30 4746 Oct 03 07:29 4746 Oct 08 13:02 4746 Nov 25 00:33 4747 Jan 12 23:43 4747 Mar 05 15:05 4747 Apr 09 20:11 4747 May 06 03:44 4747 Jun 20 04:50	24° \$\Omega 08'32 0° \$\mathbf{m}\$ 9° \$\mathbf{m}\$ 02'22 26° \$\mathbf{m}\$ 38'25 0° \$\mathbf{m}\$ 0° \$m\$ 0° \$d\$ 18° \$d\$ 26'12 0° \$\approx\$ 9° \$\approx 57'51	1°04'28 2.60831 AU -4°32'33	asc. node min. Earth dist. opposition greatest brilliancy	4751 Aug 22 16:10 4751 Oct 20 13:18 4751 Nov 13 00:53 4751 Nov 23 01:38 4751 Dec 06 00:17 4751 Dec 10 02:56 4751 Dec 18 08:49 4751 Dec 17 20:00 4752 Jan 19 10:19 4752 Mar 03 20:52 4752 May 02 12:34 4752 Jun 23 00:40 4752 Aug 11 15:05	0°II 0°S 3°S45'04 2°S59'45 30°RII 28°I42'39 25°I55'43 26°I06'36 19°I33'36 0°S 0°N 0°P 0°P 0°P 13°I31'45	1°32'53
minimum elong max. Earth dist. morning rise  desc. node retrograde opposition	4746 Aug 14 18:19 4746 Aug 23 13:02 4746 Sep 06 05:30 4746 Oct 03 07:29 4746 Oct 08 13:02 4746 Nov 25 00:33 4747 Jan 12 23:43 4747 Mar 05 15:05 4747 Apr 09 20:11 4747 May 06 03:44 4747 Jun 20 04:50 4747 Jul 24 05:12	24°A08'32 0°M 9°M02'22 26°M38'25 0°M 0°ズ 0°T 18°T26'12 0°≈ 9°≈57'51 3°≈16'45 2°≈49'35	1°04'28 2.60831 AU -4°32'33	asc. node min. Earth dist. opposition greatest brilliancy direct	4751 Aug 22 16:10 4751 Oct 20 13:18 4751 Nov 13 00:53 4751 Nov 23 01:38 4751 Dec 06 00:17 4751 Dec 10 02:56 4751 Dec 18 08:49 4751 Dec 17 20:00 4752 Jan 19 10:19 4752 Mar 03 20:52 4752 May 02 12:34 4752 Jun 23 00:40 4752 Aug 11 15:05 4752 Sep 28 23:14	0°II 0°S 3°S45'04 2°S59'45 30°RII 28°I42'39 25°I55'43 26°I06'36 19°I33'36 0°S 0°N 0°M 0°A	1°32'53
minimum elong max. Earth dist. morning rise  desc. node retrograde opposition greatest brilliancy	4746 Aug 14 18:19 4746 Aug 23 13:02 4746 Sep 06 05:30 4746 Oct 03 07:29 4746 Oct 08 13:02 4746 Nov 25 00:33 4747 Jan 12 23:43 4747 Mar 05 15:05 4747 Apr 09 20:11 4747 May 06 03:44 4747 Jun 20 04:50 4747 Jul 24 05:12 4747 Jul 25 13:25	24°A08'32 0°M 9°M02'22 26°M38'25 0°M 0°ズ 0°T 18°T26'12 0°≈ 9°≈57'51 3°≈16'45 2°≈49'35	1°04'28 2.60831 AU -4°32'33 -2.3m	asc. node min. Earth dist. opposition greatest brilliancy direct	4751 Aug 22 16:10 4751 Oct 20 13:18 4751 Nov 13 00:53 4751 Nov 23 01:38 4751 Dec 06 00:17 4751 Dec 10 02:56 4751 Dec 18 08:49 4751 Dec 17 20:00 4752 Jan 19 10:19 4752 Mar 03 20:52 4752 May 02 12:34 4752 Jun 23 00:40 4752 Aug 11 15:05 4752 Sep 28 23:14 4752 Oct 20 06:59	0° II 0° S 3° S45'04 2° S59'45 30° RII 28° II 42'39 25° II 55'43 26° II 06'36 19° II 33'36 0° S 0° N 0° M 0° M 13° II 31'45 0° ₹	1°32'53
minimum elong max. Earth dist. morning rise  desc. node retrograde opposition greatest brilliancy	4746 Aug 14 18:19 4746 Aug 23 13:02 4746 Sep 06 05:30 4746 Oct 03 07:29 4746 Oct 08 13:02 4746 Nov 25 00:33 4747 Jan 12 23:43 4747 Mar 05 15:05 4747 Apr 09 20:11 4747 May 06 03:44 4747 Jun 20 04:50 4747 Jul 24 05:12 4747 Jul 25 13:25 4747 Aug 01 18:54	24°A08'32 0°M 9°M02'22 26°M38'25 0°M 0°ズ 0°T 18°T26'12 0°≈ 9°≈57'51 3°≈16'45 2°≈49'35 0°≈24'16	1°04'28 2.60831 AU -4°32'33 -2.3m	asc. node min. Earth dist. opposition greatest brilliancy direct	4751 Aug 22 16:10 4751 Oct 20 13:18 4751 Nov 13 00:53 4751 Nov 23 01:38 4751 Dec 06 00:17 4751 Dec 10 02:56 4751 Dec 18 08:49 4751 Dec 17 20:00 4752 Jan 19 10:19 4752 Mar 03 20:52 4752 May 02 12:34 4752 Jun 23 00:40 4752 Aug 11 15:05 4752 Sep 28 23:14 4752 Oct 20 06:59 4752 Nov 14 18:49	0° II 0° S 3° S45'04 2° S59'45 30° RII 28° II 42'39 25° II 55'43 26° II 06'36 19° II 33'36 0° S 0° N 0° M 0° M 13° II 31'45 0° ₹	1°32'53 -2.5m

		_				_	
conjunction	4752 Dec 04 20:36	13° <b>∡</b> 13'44			4757 Nov 27 14:43	0∘ <b>⊽</b>	
minimum elong	4752 Dec 04 20:31	13° <b>∡</b> 13'37	0°02'53		4758 Jan 28 01:32	0°M	
behind sun begin	4752 Dec 04 01:31	12° <b>₹</b> 42'02		retrograde	4758 Mar 09 02:29	8°M10'32	
behind sun end	4752 Dec 05 15:32	13° <b>₹</b> 45'14			4758 Apr 14 15:40	30° <b>₹</b> Ω	
	4752 Dec 29 18:28	0°る		opposition	4758 Apr 18 03:52	28° <b>Ω</b> 36'52	
morning rise	4753 Jan 20 06:26	14° <b>ප්</b> 48'35		greatest brilliancy	4758 Apr 18 07:08	28° <b>△</b> 33'38	-1.3m
	4753 Feb 10 20:24	0° <b>≈</b>		min. Earth dist.	4758 Apr 19 07:54	28° <b>Ω</b> 09'04	0.67842 AU
	4753 Mar 24 05:07	0° <b>)</b> €		direct	4758 May 29 09:27	18° <b>Ω</b> 41'12	
	4753 May 03 06:00	0° <b>Υ</b>			4758 Jul 17 04:42	0°M	
	4753 Jun 11 14:01	8°0		desc. node	4758 Jul 22 13:06	2°M13'05	
	4753 Jul 21 03:53	0°∏			4758 Sep 14 08:12	0° <b>⊼</b>	
,	4753 Aug 31 11:01	0.ee			4758 Oct 31 23:42	0° <b>る</b>	
asc. node	4753 Oct 10 00:35	26°900'22			4758 Dec 13 21:36	0° <b>≈</b>	
	4753 Oct 16 17:47	0°N			4759 Jan 22 23:28	0° <b>)</b> €	
retrograde	4753 Dec 28 20:29	26° <b>Ω</b> 16'15	0.57101.411		4759 Mar 02 10:42	0°Υ 12° <b>00</b> 27112	
min. Earth dist.	4754 Jan 30 13:38	19° <b>Ω</b> 03'37	0.57191 AU	evening set	4759 Mar 19 16:05	13° <b>Ƴ</b> 37'12	
greatest brilliancy	4754 Feb 04 22:47	16° <b>£</b> 57′28	-1.8m		4759 Apr 09 08:53	0° <b>∀</b>	
opposition	4754 Feb 06 00:22	16° <b>Ω</b> 32'27	4°32'57		4759 May 17 17:13	$\Pi$ $^{\circ}0$	
direct	4754 Mar 14 12:43	8° <b>Ω</b> 14'13			4750 34 27 22 05	70T 50120	0002127
	4754 May 25 14:44	0° <b>m</b>		conjunction	4759 May 27 23:05	7°II52'30	
	4754 Jul 21 01:48	0∘ <b>亚</b>		minimum elong	4759 May 27 23:25	7°II53'09	0°03'27
	4754 Sep 09 18:40	0°M		behind sun begin	4759 May 26 19:03	6°∏58'52	
desc. node	4754 Oct 17 15:58	23°M44'39		behind sun end	4759 May 29 03:47	8° <b>Ⅱ</b> 47'23	
. ,	4754 Oct 27 08:32	0° ⊀ <b>7</b>		asc. node	4759 Jun 01 21:58	11° <b>∏</b> 39'26	
evening set	4754 Nov 28 00:45	20° <b>₹</b> 59'08		n d ti	4759 Jun 26 07:33	0°95	2 44216 444
E d Ed	4754 Dec 11 06:09	0°る	2.52641.411	max. Earth dist.	4759 Jul 18 01:54		2.44216 AU
max. Earth dist.	4754 Dec 14 01:06	1,000,10	2.52641 AU	morning rise	4759 Aug 01 05:24	26°503'40	
	4755 X 16 12 10	250=220100	0047101		4759 Aug 06 19:06	0° <b>N</b>	
conjunction	4755 Jan 16 12:10	25°₹30'08			4759 Sep 19 14:13	0° m/	
minimum elong	4755 Jan 16 10:36	25° <b>る</b> 27'19	0°4/00		4759 Nov 05 01:35	0∘ <b>m</b>	
	4755 Jan 22 17:38	0° <b>≫</b>			4759 Dec 25 06:26	0° <b>M</b> 0° <b>∡</b> 7	
	4755 Mar 04 05:11	6° <b>∺</b> 02'40			4760 Feb 23 07:07		
morning rise	4755 Mar 12 04:20	0° <b>Υ</b> 0240		retrograde	4760 Apr 13 16:37	11° 🖈 52'29	0020146
	4755 Apr 12 07:02			opposition	4760 May 22 07:58	3° <b>₹</b> 05'15	
	4755 May 20 16:57	8°0		greatest brilliancy	4760 May 22 11:08		-1.5m
	4755 Jun 28 07:46	0°© 0°∏		min. Earth dist.	4760 May 27 06:20	1° <b>∡</b> 10'56	0.63342 AU
1-	4755 Aug 07 02:53			JJ.	4760 May 30 09:25	30°RM 26°M 52121	
asc. node	4755 Aug 27 22:42	15°505'18		desc. node	4760 Jun 08 11:54	26°M53'31	
	4755 Sep 18 07:29	0° <b>N</b>		direct	4760 Jul 02 16:34	23°M05'19	
	4755 Nov 04 02:43	0 <b>் ⊽</b> 0° M			4760 Aug 07 12:00	0°⋜	
	4756 Jan 06 06:09				4760 Oct 06 13:22	0° <b>≈</b>	
retrograde	4756 Feb 03 19:01	4° <b>Ω</b> 41'21			4760 Nov 21 00:36 4760 Dec 31 22:17	0° <b>∺</b>	
min. Earth dist.	4756 Mar 01 06:38	30°RM)	0.6750 ATT			0° <b>π</b> 0° <b>Υ</b>	
	4756 Mar 12 09:36 4756 Mar 15 02:14	25° Mp 48'51	0.65759 AU 4°28'04		4761 Feb 08 17:58	0° <b>∀</b>	
opposition		24° mp 44'11		asc. node	4761 Mar 18 22:47		
greatest brilliancy	4756 Mar 14 16:03	24° Mp 54'22	-1.4m	asc. node	4761 Apr 18 20:16	24° <b>႘</b> 01'08 0° <b>川</b>	
direct	4756 Apr 23 16:30	15° <b>™</b> 21'37 0° <b>≏</b>		evening set	4761 Apr 26 15:27 4761 May 28 19:09	0 H 24°∏12'01	
	4756 Jun 19 23:38 4756 Aug 18 00:16	0° <b>M</b>		evening set	4761 May 28 19:09 4761 Jun 05 16:06	24° <b>म</b> 12'01	
dasa nada		9°M37'33			4761 Jul 17 13:46	0°Ω	
desc. node	4756 Sep 03 14:34 4756 Oct 06 20:06	9°1163/33 0° <b>√</b> 1			7/01 Jul 1/ 13.40	0 06	
	4756 Nov 21 07:42	0°る		conjunction	4761 Jul 27 01:18	6° <b>Ω</b> 35'12	0°54'50
		0°≈		•		6° <b>Ω</b> 32'04	
avanina aat	4757 Jan 02 16:19	0 ≈ 7°≈59'07		minimum elong	4761 Jul 26 23:29		2.57025 AU
evening set	4757 Jan 13 12:52 4757 Feb 03 19:36		2.39661 AU	max. Earth dist.	4761 Aug 26 03:46	0° m	2.37023 AU
max. Earth dist.		23 ≈37 19 0° <b>∺</b>	2.39001 AU	morning rise	4761 Aug 30 13:26		
	4757 Feb 11 17:53	υ χ		morning rise	4761 Sep 17 16:00	11° Mp 57'54	
agniumation	4757 Mar. 14, 07:20	2201/11/20	1902!12		4761 Oct 15 12:47	0∘ <b>m</b>	
conjunction	4757 Mar 14 07:28	23° <b>¥</b> 41'39			4761 Dec 02 09:08	0°M 0°. <b>⊼</b>	
minimum elong	4757 Mar 14 08:50	23° <b>)</b> 44′20 0° <b>°</b>	1 03 13		4762 Jan 21 14:42	0°⊀ 0° <b>≍</b>	
	4757 Mar 22 08:18	0°Y		daga mada	4762 Mar 18 12:49	0°る 15° <b>ろ</b> 46'30	
	4757 Apr 29 08:37			desc. node	4762 Apr 26 10:30	15° <b>る</b> 46'39	
morning rise	4757 May 23 11:56	18° <b>႘</b> 58'04 0° <b>Ⅱ</b>		retrograde	4762 May 28 20:32	21°る15'22	2052141
asa noda	4757 Jun 06 16:21			opposition	4762 Jul 03 14:09	13°る48'03	
asc. node	4757 Jul 14 22:43	29° <b>Ⅱ</b> 05'24		greatest brilliancy	4762 Jul 04 09:41	13° <b>る</b> 30'30	
	4757 Jul 16 04:04	0.ಲ		min. Earth dist.	4762 Jul 11 16:36		0.52765 AU
	4757 Aug 26 15:00	0° <b>N</b>		direct	4762 Aug 11 18:52	4° <b>る</b> 42'09	
	4757 Oct 09 21:46	0° <b>m</b>			4762 Oct 22 02:57	0° <b>≈</b>	

	4762 Dec 06 18:49	0° <b>∀</b>		behind sun begin	4767 Nov 20 20:06	28°M52'16	
	4763 Jan 16 11:20	$0^{\circ}$ Y		behind sun end	4767 Nov 21 14:02	29°M21'26	
	4763 Feb 24 20:00	$9^{\circ}$ 8			4767 Nov 22 13:42	0° <b>∡</b> ¹	
asc. node	4763 Mar 06 19:40	7° <b>8</b> 36'29		desc. node	4767 Dec 17 07:28	16° <b>∡</b> 17′09	
	4763 Apr 05 12:21	$\Pi$ $^{\circ}0$		morning rise	4768 Jan 05 04:09	28° <b>₹</b> 55'34	
	4763 May 16 11:35	$0$ $\circ$ $\odot$			4768 Jan 06 18:17	8°0	
	4763 Jun 28 05:48	$\mathfrak{O}^{\circ}\mathfrak{O}$			4768 Feb 19 06:28	0° <b>≈</b>	
evening set	4763 Jul 21 13:22	15° <b>Ω</b> 49'18			4768 Apr 01 04:41	0° <b>)</b> €	
	4763 Aug 11 20:50	0° <b>m</b> y			4768 May 11 20:43	$0$ ° $\Upsilon$	
					4768 Jun 20 20:47	0°8	
conjunction	4763 Sep 09 16:32	18° <b>™</b> 49'29	1°07'33		4768 Jul 31 07:07	$\Pi^{\circ}0$	
minimum elong	4763 Sep 09 16:48	18° <b>m</b> ) 49'55	1°07'32		4768 Sep 12 07:47	0°ಅ	
max. Earth dist.	4763 Sep 21 15:51	26° m 32'58	2.65158 AU	asc. node	4768 Oct 26 16:54	25° <b>©</b> 42'17	
	4763 Sep 27 00:47	0∘ <del>⊽</del>			4768 Nov 05 08:22	$0^{\circ}\Omega$	
morning rise	4763 Oct 25 23:53	18° <b>≏</b> 28'23		retrograde	4768 Dec 12 09:28	8° <b>£</b> 28'33	
morning rise	4763 Nov 13 04:56	0°M		min. Earth dist.	4769 Jan 11 20:46	2° <b>Ω</b> 05'09	0.52311 AU
	4763 Dec 30 23:16	0° <b>⊼</b>		mm. Larm dist.	4769 Jan 17 09:19	30°Rூ	0.32311710
	4764 Feb 17 08:47	%ਰ		greatest brilliancy	4769 Jan 18 09:23	29° <b>©</b> 37'06	-2.0m
desc. node		0 る 15° <b>る</b> 13'42		-		29° <b>©</b> 37'00	3°56'18
desc. node	4764 Mar 13 10:09	13 <b>⊘</b> 13 42 0° <b>≈</b>		opposition	4769 Jan 19 12:41	29 <b>3</b> 11 13 21° <b>3</b> 30'53	3 30 18
	4764 Apr 07 08:47			direct	4769 Feb 23 10:05		
	4764 Jun 02 05:25	0° <b>)</b> {			4769 Apr 04 22:23	0° <b>N</b>	
retrograde	4764 Aug 01 14:59	17° <b>)</b> €08'20			4769 Jun 06 22:51	0° <b>m</b> y	
opposition	4764 Sep 01 14:01	11° <b>) (</b> 47'47			4769 Jul 29 13:58	0∘ <b>⊽</b>	
greatest brilliancy	4764 Sep 03 00:26	11° <b>¥</b> 22'54			4769 Sep 17 02:34	0°M₊	
min. Earth dist.	4764 Sep 07 15:47		0.39831 AU	desc. node	4769 Nov 03 06:21	29°M58'27	
direct	4764 Oct 04 06:46	5° <b>)</b> (41′03			4769 Nov 03 07:18	0° <b>∡</b> ¹	
	4764 Dec 10 22:50	$0$ ° $\Upsilon$		evening set	4769 Nov 12 09:02	5° <b>∡</b> ¹56'31	
asc. node	4765 Jan 21 19:02	26° <b>Y</b> 50′03		max. Earth dist.	4769 Dec 01 12:48	18° <b>∡</b> ¹41'08	2.57075 AU
	4765 Jan 26 10:54	0°B			4769 Dec 18 04:39	o°ප	
	4765 Mar 10 19:51	$\Pi^{\circ}0$					
	4765 Apr 23 07:40	$0$ $\circ$ $\odot$		conjunction	4769 Dec 29 17:41	7° <b>る</b> 58'04	-0°30'41
	4765 Jun 06 22:13	$\mathfrak{O}^{\circ}\mathfrak{O}$		minimum elong	4769 Dec 29 16:35	7° <b>る</b> 56'09	0°30'40
	4765 Jul 22 20:20	0° <b>m</b> y			4770 Jan 29 20:59	0° <b>≈</b>	
evening set	4765 Aug 31 04:27	25° Mp 11'32		morning rise	4770 Feb 18 03:10	14° <b>≈</b> 00'42	
Č	4765 Sep 07 17:50	0∘ <u>⊽</u>		Č	4770 Mar 11 15:45	0° <b>∀</b>	
max. Earth dist.	4765 Oct 14 01:05	23° <b>Ω</b> 03'23	2.67865 AU		4770 Apr 20 01:19	0° <b>Ƴ</b>	
					4770 May 28 18:04	0°8	
conjunction	4765 Oct 16 03:46	24° <b>Ω</b> 23'52	0°50'02		4770 Jul 06 14:49	0°П	
minimum elong	4765 Oct 16 04:50	24° <b>Ω</b> 25'34			4770 Aug 15 17:44	0° <b>©</b>	
minimum ciong	4765 Oct 24 23:11	0° <b>™</b>	0 30 02	asc. node	4770 Sep 13 17:00	20°532'36	
morning rise	4765 Nov 29 05:06	22°M30'42		ase. node	4770 Sep 27 16:43	0°Ω	
morning risc	4765 Dec 10 20:37	0° <b>x</b> <sup>7</sup>			4770 Nov 16 10:27	0° m)	
	4766 Jan 25 23:43	% ව°ර		retrograde	4770 Nov 10 10:27 4771 Jan 21 01:08	20° Mp 52'59	
daga mada		0 8 2° <b>る</b> 13'51		•			0.63125 AU
desc. node	4766 Jan 29 09:13			min. Earth dist.	4771 Feb 25 21:22	12° Mp 35'39	
	4766 Mar 12 05:48	0° <b>≈</b>		greatest brilliancy	4771 Mar 01 09:44	11° Mp 11'33	-1.5m
	4766 Apr 25 17:45	0° <b>){</b>		opposition	4771 Mar 02 02:36	10° m 54'44	4°42'29
	4766 Jun 08 22:31	0° <b>Υ</b>		direct	4771 Apr 09 16:25	1° T 52'54	
	4766 Jul 24 10:38	0° <b>8</b>			4771 Jul 04 10:02	0∘ <b>亚</b>	
	4766 Sep 18 15:37	0°П			4771 Aug 27 15:31	0°M	
retrograde	4766 Oct 20 02:08	6° <b>Ⅲ</b> 23'15		desc. node	4771 Sep 21 05:16	14°M49'50	
min. Earth dist.	4766 Nov 15 09:12		0.39415 AU		4771 Oct 15 08:04	0° <b>∡</b>	
opposition	4766 Nov 21 20:40	0°Ⅲ00′11	-1°13'57		4771 Nov 29 12:15	0°る	
	4766 Nov 21 20:55	30° <b>₹8</b>		evening set	4771 Dec 25 11:07	18° <b>ろ</b> 10'01	
greatest brilliancy	4766 Nov 21 14:38	0°∏04'42	-2.9m	max. Earth dist.	4772 Jan 09 00:55	28° <b>る</b> 39'35	2.44746 AU
asc. node	4766 Dec 09 17:19	25° <b>8</b> 34'58			4772 Jan 10 21:06	0° <b>≈</b>	
direct	4766 Dec 21 23:56	24° <b>8</b> 34'31					
	4767 Jan 21 08:42	$\Pi$ °0		conjunction	4772 Feb 18 05:53	28° <b>≈</b> 36′23	-1°04'06
	4767 Mar 24 21:00	$0$ $\circ$		minimum elong	4772 Feb 18 05:04	28° <b>≈</b> 34'50	1°04'05
	4767 May 14 11:58	$0^{\circ}\Omega$			4772 Feb 20 01:47	0° <b>)</b> €	
	4767 Jul 02 10:57	0° <b>m</b>			4772 Mar 29 19:59	$0^{\circ}\Upsilon$	
	4767 Aug 19 22:56	0∘ <b>⊽</b>		morning rise	4772 Apr 22 11:43	18° <b>Y</b> 35'39	
	4767 Oct 06 19:54	0°M		-	4772 May 06 23:17	0°8	
evening set	4767 Oct 07 02:22	0° <b>™</b> 10'14			4772 Jun 14 08:43	0°II	
max. Earth dist.	4767 Nov 05 23:11	19° <b>™</b> 14'23	2.65105 AU		4772 Jul 23 21:39	0°©	
				asc. node	4772 Jul 31 15:22	5° <b>5</b> 43'03	
conjunction	4767 Nov 21 04:38	29°M06'08	0°14'09		4772 Sep 03 11:49	0° <b>Ω</b>	
minimum elong	4767 Nov 21 05:04	29°M06'51			4772 Oct 18 07:25	0° m)	
	., .,				= 550 10 57.25	~ ·×	

	4772 D 00 05 00	00.0			4770 4 12 17 44	οοπ	
	4772 Dec 08 05:08	0∘ <b>ত</b>			4778 Apr 13 17:44	0° <b>∏</b>	
retrograde	4773 Feb 23 17:52	25° <b>Ω</b> 33'43	2042112		4778 May 24 05:37	0°95	
opposition	4773 Apr 05 01:01 4773 Apr 05 00:01	15° <b>£</b> 48'03 15° <b>£</b> 49'02	3°43'12 -1.3m	evening set	4778 Jul 02 14:37 4778 Jul 05 13:42	27° <b>©</b> 56'46 0° <b>Ω</b>	
greatest brilliancy min. Earth dist.	*	15° <b>£</b> 4902	0.67805 AU			0° <b>m</b> y	
direct	4773 Apr 04 16:50 4773 May 15 19:26	6° <b>£</b> 02'19	0.07803 AU		4778 Aug 18 20:53	V III	
direct	4773 Jul 31 20:16	0°M		conjunction	4778 Aug 24 14:15	3° <b>m</b> 47'17	1°07'07
desc. node	4773 Aug 08 03:39	3°M43'25		minimum elong	4778 Aug 24 14:13	3° Mp 46'33	1°07'06
dese. Hode	4773 Sep 23 09:21	0° <b>√</b>		max. Earth dist.	4778 Sep 12 02:46	15° Mp 55'51	2.62605 AU
	4773 Nov 08 21:33	° ਨ ਹ		max. Earth dist.	4778 Oct 03 21:07	0∘ <b>ಹ</b>	2.02003 110
	4773 Dec 21 12:13	0° <b>≈</b>		morning rise	4778 Oct 11 18:05	5° <b>≏</b> 02'31	
	4774 Jan 30 12:52	0° <b>)</b> €			4778 Nov 20 04:47	0°M	
evening set	4774 Feb 19 22:05	15° <b>)</b> (47'23			4779 Jan 07 15:11	0° <b>∡</b> 7	
844	4774 Mar 10 00:30	$_{0}^{\circ}\Upsilon$			4779 Feb 26 18:46	0° <b>ට</b>	
	4774 Apr 16 22:35	0°8		desc. node	4779 Mar 31 00:46	18° <b>る</b> 09'48	
	ī				4779 Apr 22 20:11	0° <b>≈</b>	
conjunction	4774 Apr 28 16:55	9° <b>8</b> 16'48	-0°33'48	retrograde	4779 Jul 04 14:09	22° <b>≈</b> 23'50	
minimum elong	4774 Apr 28 20:01	9° <b>8</b> 22'53	0°33'47	opposition	4779 Aug 06 10:25	16° <b>≈</b> 11'45	-5°26'18
	4774 May 25 05:37	$\Pi^{\circ}0$		greatest brilliancy	4779 Aug 08 00:04	15° <b>≈</b> 41'28	-2.4m
max. Earth dist.	4774 Jun 16 01:09	16° <b>Ⅱ</b> 42'57	2.38913 AU	min. Earth dist.	4779 Aug 14 17:31	13° <b>≈</b> 32'23	0.44524 AU
asc. node	4774 Jun 18 13:45	18° <b>Ⅲ</b> 37'42		direct	4779 Sep 11 07:43	8° <b>≈</b> 39'32	
	4774 Jul 03 17:44	$0$ $\circ$ $\odot$			4779 Nov 12 18:10	0° <b>)</b> €	
morning rise	4774 Jul 08 01:53	3° <b>©</b> 13'05			4779 Dec 29 00:47	$0$ ° $\Upsilon$	
	4774 Aug 14 03:22	$0^{\circ}\Omega$		asc. node	4780 Feb 08 10:37	29° <b>Ƴ</b> 46'17	
	4774 Sep 26 23:54	0° <b>m</b>			4780 Feb 08 18:09	$9^{\circ}$ 8	
	4774 Nov 12 23:32	0∘ <b>ত</b>			4780 Mar 20 22:51	$\Pi$ $^{\circ}0$	
	4775 Jan 04 06:31	0°M			4780 May 02 01:59	0°€	
retrograde	4775 Mar 30 20:48	28°M38'03			4780 Jun 14 18:07	$0^{\circ}\Omega$	
opposition	4775 May 09 05:09	19° <b>M</b> 29'41	1°41'53		4780 Jul 30 01:08	O° <b>m</b> y	
greatest brilliancy	4775 May 09 10:44	19° <b>M</b> 24'13	-1.4m	evening set	4780 Aug 15 22:01	10° <b>m</b> 57'03	
min. Earth dist.	4775 May 12 16:40	18° <b>M</b> 07'58	0.65874 AU		4780 Sep 14 13:51	0∘ <b>ಹ</b>	
direct	4775 Jun 19 17:32	9° <b>™</b> 27'12				_	
desc. node	4775 Jun 26 02:23	9° <b>™</b> 41'52		conjunction	4780 Oct 02 01:28	11° <b>≏</b> 08'57	
	4775 Aug 26 19:03	0° <b>∡</b> 7		minimum elong	4780 Oct 02 02:25	11° <b>≙</b> 10′27	
	4775 Oct 17 16:03	ි. ව°0		max. Earth dist.	4780 Oct 05 02:56		2.67470 AU
	4775 Nov 30 17:16	0° <b>≈</b>			4780 Oct 31 17:06	0°M	
	4776 Jan 10 03:57	0° <b>∀</b> 0° <b>Υ</b>		morning rise	4780 Nov 15 14:37	9° <b>M</b> 28'05 0° <b>⊀</b>	
	4776 Feb 17 18:41	0° <b>8</b>			4780 Dec 17 20:08 4781 Feb 02 15:01	0° <b>ਨ</b>	
evening set	4776 Mar 26 19:32 4776 May 02 15:29	28° <b>8</b> 43'07		desc. node	4781 Feb 02 13:01 4781 Feb 14 23:31	0 3 7° <b>る</b> 57'28	
evening set	4776 May 04 07:28	0°II		desc. Hode	4781 Mar 21 02:59	7°⊗ 0°≈	
asc. node	4776 May 05 13:28	0° <b>П</b> 57'36			4781 May 06 18:47	0° <b>∺</b>	
asc. node	4776 Jun 13 02:36	0°95			4781 Jun 24 03:17	0° <b>Υ</b>	
	1770 Juli 13 02.30	ů O			4781 Aug 23 18:58	0°8	
conjunction	4776 Jul 05 19:15	16° <b>©</b> 31'24	0°38'11	retrograde	4781 Sep 21 04:01	4° <b>8</b> 58'44	
minimum elong	4776 Jul 05 17:02	16°\$27'26		min. Earth dist.	4781 Oct 19 19:34	0° <b>8</b> 17'23	0.37044 AU
	4776 Jul 24 18:42	$0^{\circ}\Omega$			4781 Oct 20 21:25	30° <b>R</b> ♈	
max. Earth dist.	4776 Aug 13 10:34		2.52457 AU	opposition	4781 Oct 21 14:33	29° <b>Ƴ</b> 48'28	-4°31'24
morning rise	4776 Aug 31 13:39	25° <b>Ω</b> 57'08		greatest brilliancy	4781 Oct 21 12:12	29° <b>Y</b> 50'03	-3.0m
	4776 Sep 06 14:43	0° <b>m</b>		direct	4781 Nov 20 01:33	24° <b>Ƴ</b> 54'56	
	4776 Oct 22 15:44	0∘ <b>⊽</b>			4781 Dec 18 18:39	$9^{\circ}$ 8	
	4776 Dec 10 02:20	$0^{\circ}$ M		asc. node	4781 Dec 26 10:52	2° <b>8</b> 45'51	
	4777 Jan 31 08:44	0° <b>∡</b> ¹			4782 Feb 17 08:13	$\Pi$ $^{\circ}0$	
	4777 Apr 08 21:38	5°0			4782 Apr 06 19:26	$0$ $\circ$ $\odot$	
retrograde	4777 May 09 16:01	4° <b>る</b> 56'39			4782 May 23 23:02	$0^{\circ}\Omega$	
desc. node	4777 May 13 01:56	4° <b>る</b> 52'19			4782 Jul 10 08:22	0° <b>m</b>	
	4777 Jun 06 23:48	30°₹ <b>⋌</b> 7			4782 Aug 27 01:27	0∘ <b>ত</b>	
opposition	4777 Jun 15 18:13	26° <b>₹</b> 52'38		evening set	4782 Sep 23 00:02	16° <b>≏</b> 57'37	
greatest brilliancy	4777 Jun 16 02:21	26° <b>≯</b> ⁴45'03	-1.8m		4782 Oct 13 14:31	0° <b>M</b>	
min. Earth dist.	4777 Jun 22 19:08	24° <b>∡</b> °15′17	0.57521 AU	max. Earth dist.	4782 Oct 27 23:50	9° <b>M</b> 09'48	2.66821 AU
direct	4777 Jul 26 04:12	17° <b>∡</b> 14'44					
	4777 Sep 13 02:15	0°る		conjunction	4782 Nov 07 02:13	15°M37'48	0°29'38
	4777 Nov 04 13:12	0° <b>≈</b>		minimum elong	4782 Nov 07 03:03	15°M39'08	0°29'38
	4777 Dec 17 05:51	0° <b>∀</b>			4782 Nov 29 08:16	0° <b>∡</b> 7	
	4778 Jan 25 20:28	0° <b>Υ</b>		morning rise	4782 Dec 21 07:20	14° <b>₹</b> 22'22	
•	4778 Mar 05 13:50	0°8		desc. node	4783 Jan 02 21:56	22° <b>∡</b> 743′09	
asc. node	4778 Mar 23 11:51	13° <b>8</b> 48'52			4783 Jan 13 19:40	0°₹	

	4783 Feb 26 20:46	0° <b>≈</b>		greatest brilliancy	4788 Mar 22 13:18	2° <b>≏</b> 56'23	-1.3m
	4783 Apr 10 12:51	0° <b>)</b> €			4788 Mar 30 01:39	30°R Mp	
	4783 May 22 02:39	$0^{\circ}\mathbf{\Upsilon}$		direct	4788 May 01 22:04	23° <b>m</b> 17'43	
	4783 Jul 02 05:22	$9^{\circ}$ 8			4788 Jun 07 10:10	0∘ <b>⊽</b>	
	4783 Aug 13 09:20	$\Pi^{\circ}0$			4788 Aug 11 17:26	0°M	
	4783 Sep 30 06:31	0ංම		desc. node	4788 Aug 24 18:48	7°M18'43	
asc. node	4783 Nov 13 10:14	16°943'17			4788 Oct 01 14:52	0° <b>∡</b> ¹	
retrograde	4783 Nov 24 18:57	17° <b>5</b> 39'06			4788 Nov 16 10:30	0°ප	
min. Earth dist.	4783 Dec 23 00:25	12° <b>©</b> 08'14	0.46953 AU		4788 Dec 28 21:29	0° <b>≈</b>	
greatest brilliancy	4783 Dec 30 10:34	9° <b>5</b> 29'48	-2.3m	evening set	4789 Jan 26 04:33	21° <b>≈</b> 02'30	
opposition	4783 Dec 31 07:56	9° <b>©</b> 10'42	2°40'23		4789 Feb 06 22:51	0° <b>∀</b>	
direct	4784 Feb 02 09:50	2° <b>©</b> 18'05		max. Earth dist.	4789 Mar 04 23:07	20° <b>)</b> €09'03	2.37424 AU
	4784 Apr 24 03:03	$0^{\circ}\Omega$			4789 Mar 17 12:21	$0^{\circ}$ $\Upsilon$	
	4784 Jun 17 00:45	0° <b>m</b>					
	4784 Aug 06 11:46	0° <b>™</b>		conjunction	4789 Mar 30 02:07	9° <b>Υ</b> 55'03	
. ,	4784 Sep 24 04:55	0°M		minimum elong	4789 Mar 30 04:54	10° <b>Y</b> 00'31	0°56'31
evening set	4784 Oct 28 13:06	21°M49'19			4789 Apr 24 11:48	8°0	
11-	4784 Nov 10 03:47	0° <b>∡</b> 7 (°. <b>₹</b> 2.1120			4789 Jun 01 18:51	0°Ⅱ (°Ⅱ12120	
desc. node	4784 Nov 19 20:40	6° <b>₹</b> 21'39	2 (0015 ATT	morning rise	4789 Jun 09 20:26	6° <b>Ⅱ</b> 13'30 25° <b>Ⅱ</b> 32'34	
max. Earth dist.	4784 Nov 20 11:46	0°×'40'31	2.60815 AU	asc. node	4789 Jul 05 06:42 4789 Jul 11 05:57	25° <b>Ц</b> 32′34 0° <b>©</b>	
conjunction	4784 Dec 13 13:51	22° <b>₹</b> 09'53	0°12'07		4789 Aug 21 15:11	0° <b>U</b>	
minimum elong	4784 Dec 13 13:23	22° <b>х</b> 09'06	0°13'05		4789 Oct 04 15:52	0° <b>m</b> y	
behind sun begin	4784 Dec 13 13:23 4784 Dec 13 01:44	21° <b>х</b> 49'29	0 13 03		4789 Nov 21 12:05	0° <del>ت</del>	
behind sun end	4784 Dec 14 01:01	22° <b>×</b> <sup>1</sup> 28'43			4790 Jan 16 19:48	0° <b>™</b>	
bennia sun ena	4784 Dec 25 02:54	0°중		retrograde	4790 Mar 16 20:12	15°M51'38	
morning rise	4785 Jan 30 02:29	25° <b>る</b> 02'25		opposition	4790 Apr 25 17:21	6°M25'53	2°35'39
morning rise	4785 Feb 06 01:45	0°≈		greatest brilliancy	4790 Apr 25 22:06	6°M21'12	
	4785 Mar 19 05:22	0° <b>)</b> €		min. Earth dist.	4790 Apr 27 17:08		0.67429 AU
	4785 Apr 28 00:20	$_{0}$ $^{\circ}$ $\gamma$			4790 May 13 12:12	30° <b>RΩ</b>	
	4785 Jun 06 01:57	0°8		direct	4790 Jun 06 03:35	26° <b>≏</b> 26'28	
	4785 Jul 15 07:44	0° <b>I</b> I			4790 Jul 01 17:05	0°M	
	4785 Aug 25 00:39	0°ಅ		desc. node	4790 Jul 12 17:38	3°M18'12	
asc. node	4785 Sep 30 08:33	24°5948'20			4790 Sep 07 19:05	0° <b>∡</b> ¹	
	4785 Oct 08 12:30	$0^{\circ}\Omega$			4790 Oct 26 14:00	8°0	
	4785 Dec 06 04:23	0° <b>m</b> p			4790 Dec 08 20:33	0° <b>≈</b>	
retrograde	4786 Jan 06 14:00	5° <b>™</b> 57'29			4791 Jan 18 01:09	0° <b>∀</b>	
	4786 Feb 05 02:49	30°R <b>Ω</b>			4791 Feb 25 13:14	$0$ ° $\Upsilon$	
min. Earth dist.	4786 Feb 09 11:17	28° <b>Ω</b> 20′22	0.59561 AU		4791 Apr 04 11:48	$9^{\circ}$ 8	
greatest brilliancy	4786 Feb 14 04:57	26° <b>Ω</b> 28'17	-1.7m	evening set	4791 Apr 05 02:16	0° <b>8</b> 28'32	
opposition	4786 Feb 15 03:57	26° <b>Ω</b> 05'35	4°42'18		4791 May 12 20:34	$\Pi^{\circ}0$	
direct	4786 Mar 24 11:54	17° <b>Ω</b> 29'52		asc. node	4791 May 23 04:51	7° <b>Ⅱ</b> 56'49	
	4786 May 15 03:09	0° <b>m</b>					
	4786 Jul 14 21:21	0∘ <b>ত</b>		conjunction	4791 Jun 12 09:03	23° <b>Ⅱ</b> 12'58	
	4786 Sep 04 14:43	0°M		minimum elong	4791 Jun 12 07:53	23° <b>Ⅱ</b> 10'47	0°13'35
desc. node	4786 Oct 07 19:43	20°M34'08		behind sun begin	4791 Jun 11 17:11	22° <b>I</b> I43'16	
	4786 Oct 22 13:25	0° <b>∡</b>		behind sun end	4791 Jun 12 22:35	23° <b>II</b> 38'17	
	4786 Dec 06 13:36	0°る		Danila diat	4791 Jun 21 11:38	0°©	2 47204 ATT
evening set max. Earth dist.	4786 Dec 07 12:57 4786 Dec 22 08:23	0°る40'08 10°る57'23	2.49948 AU	max. Earth dist.	4791 Jul 29 16:11	27°€39°29 0° <b>Ω</b>	2.47284 AU
max. Earth dist.	4786 Dec 22 08:23 4787 Jan 18 00:45	10°€3723	2.49948 AU	morning rise	4791 Aug 01 23:47 4791 Aug 13 09:33	0° <b>δ</b> ι 7° <b>Ω</b> 58'45	
	4/6/ Jan 16 00.43	0 ~		morning rise	4791 Sep 14 17:51	0°m/	
conjunction	4787 Jan 27 13:47	6°≈58'01	-0°55'01		4791 Oct 30 23:31	0∘ <b>⊽</b>	
minimum elong	4787 Jan 27 12:12	6°≈55'06			4791 Dec 19 08:12	0° <b>m</b> .	
	4787 Feb 27 10:15	0° <b>∺</b>	3 22 00		4792 Feb 13 06:03	0°×7	
morning rise	4787 Mar 26 06:36	20° <b>)</b> 34′58		retrograde	4792 Apr 22 15:31	20° <b>х</b> 14'43	
	4787 Apr 07 09:35	0°Υ		desc. node	4792 May 29 16:19	12° <b>×</b> 1719	
	4787 May 15 17:01	0°8		opposition	4792 May 30 19:48	11° <b>х</b> 41'06	-0°02'40
	4787 Jun 23 05:09	0°II		greatest brilliancy	4792 Dec 16 15:28	22° <b>≈</b> 38'36	
	4787 Aug 01 20:39	0ಂತಾ		min. Earth dist.	4792 Jun 05 12:53	9° <b>∡</b> ³30′07	0.61541 AU
asc. node	4787 Aug 18 08:14	12° <b>©</b> 03'18		direct	4792 Jul 10 23:24	1° <b>∡</b> ¹46′04	
	4787 Sep 12 17:17	$0^{\circ}\Omega$			4792 Sep 29 01:34	8°0	
	4787 Oct 28 11:47	0° <b>m</b>			4792 Nov 15 02:20	0° <b>≈</b>	
	4787 Dec 23 04:08	0∘ <b>⊽</b>			4792 Dec 26 11:52	0° <b>∀</b>	
retrograde	4788 Feb 11 11:04	12° <b>≏</b> 44'01			4793 Feb 03 12:53	$0^{\circ}$ $\Upsilon$	
min. Earth dist.	4788 Mar 20 23:18	3° <b>≏</b> 34'21	0.66766 AU		4793 Mar 13 21:03	$9^{\circ}$ 8	
opposition	4788 Mar 22 19:56	2° <b>≏</b> 49'45	4°14'28	asc. node	4793 Apr 09 05:08	20° <b>8</b> 26'45	

	4702 A 21 16 10	001		1 1	4700 I 10 12 25	200 750112	
	4793 Apr 21 16:19	0°II		desc. node	4798 Jan 19 12:35	28° <b>₹</b> 59'13	
	4793 May 31 19:29	0°©			4798 Jan 21 01:20	5°0	
evening set	4793 Jun 11 05:05	7° <b>©</b> 33'49			4798 Mar 06 19:50	0° <b>≈</b>	
	4793 Jul 12 19:28	$0$ $\circ$ $\Omega$			4798 Apr 19 13:19	0° <b>∀</b>	
					4798 Jun 01 13:21	$0^{\circ}$ Y	
conjunction	4793 Aug 07 00:01	17° <b>Ω</b> 19'31	1°01'17		4798 Jul 14 18:28	$9^{\circ}$ 8	
minimum elong	4793 Aug 06 22:41	17° <b>Ω</b> 17'16	1°01'16		4798 Aug 30 12:59	$\Pi$ $^{\circ}0$	
	4793 Aug 25 20:27	0° <b>m</b>		retrograde	4798 Nov 03 03:52	22° <b>Ⅱ</b> 48'47	
max. Earth dist.	4793 Sep 01 19:38	4° Mp 37′28	2.59231 AU	min. Earth dist.	4798 Nov 29 15:08	18° <b>Ⅱ</b> 05'37	0.41766 AU
morning rise	4793 Sep 26 18:35	20° m 58'00		asc. node	4798 Nov 30 02:25	17° <b>Ⅲ</b> 56'50	
S	4793 Oct 10 18:55	0∘ <u>⊽</u>		opposition	4798 Dec 07 09:05	15° <b>Ⅲ</b> 36'36	0°28'28
	4793 Nov 27 09:02	0° <b>M</b> .		greatest brilliancy	4798 Dec 07 05:15	15° <b>∏</b> 39'42	-2.7m
	4794 Jan 15 18:52	0° <b>⊼</b> ¹		direct	4799 Jan 07 13:54	9° <b>∏</b> 40'22	2.7111
	4794 Mar 09 19:55	0°ਤ ਹ		direct		0°95	
					4799 Mar 14 06:28		
desc. node	4794 Apr 16 15:13	18°る17'17			4799 May 07 17:02	0° <b>N</b>	
	4794 May 22 10:14	0° <b>≈</b>			4799 Jun 26 22:31	0° <b>m</b> )	
retrograde	4794 Jun 10 00:46	1° <b>≈</b> 57'44			4799 Aug 15 00:23	0∘ <b>⊽</b>	
	4794 Jun 27 18:42	30°Ŗ₹			4799 Oct 02 03:48	0° <b>M</b> ₊	
opposition	4794 Jul 14 20:40	24°る54'55	-3°49'43	evening set	4799 Oct 15 04:46	8° <b>M</b> 15'41	
greatest brilliancy	4794 Jul 15 23:38	24° <b>る</b> 31'28	-2.1m	max. Earth dist.	4799 Nov 11 10:48	25°M45'47	2.63781 AU
min. Earth dist.	4794 Jul 23 08:22	21° <b>る</b> 58'28	0.49876 AU		4799 Nov 17 23:10	0° <b>∡</b> ¹	
direct	4794 Aug 22 02:59	16° <b>ප</b> 15'42					
	4794 Oct 10 07:18	0° <b>≈</b>		conjunction	4799 Nov 29 11:57	7° <b>∡</b> ³33'24	0°04'25
	4794 Nov 29 05:41	0° <b>)</b> €		minimum elong	4799 Nov 29 12:05	7° <b>∡</b> ³33'37	0°04'26
	4795 Jan 10 01:34	0° <b>Υ</b>		behind sun begin	4799 Nov 28 17:38	7° <b>∡</b> °03′16	0 0120
	4795 Feb 19 00:11	%8 0.8		behind sun end	4799 Nov 30 06:32	8° <b>₹</b> 03 10	
		4° <b>8</b> 39'46		desc. node			
asc. node	4795 Feb 25 04:38			desc. node	4799 Dec 07 11:43	12° <b>₹</b> 50'15	
	4795 Mar 31 01:57	U°0 II°0			4800 Jan 02 01:47	0°る	
	4795 May 11 08:30	0°99		morning rise	4800 Jan 14 04:26	8° <b>ප</b> 16'01	
	4795 Jun 23 08:33	$0$ $\circ$ $\Omega$			4800 Feb 14 09:00	0° <b>≈</b>	
evening set	4795 Jul 31 12:26	25° <b>Ω</b> 37'34			4800 Mar 27 00:11	0° <b>∀</b>	
	4795 Aug 07 03:40	0° <b>m</b> ∕			4800 May 06 07:50	0° <b>Υ</b>	
					4800 Jun 14 22:32	$0^{\circ}S$	
conjunction	4795 Sep 18 09:53	27° <b>m</b> 26'25	1°05'41		4800 Jul 24 19:28	$\Pi$ $\circ 0$	
minimum elong	4795 Sep 18 10:28	27° <b>m</b> 27'22	1°05'40		4800 Sep 04 15:22	$0$ $\circ$ $\odot$	
	4795 Sep 22 09:36	0∘ <b>⊽</b>		asc. node	4800 Oct 17 02:02	26° <b>©</b> 50'31	
max. Earth dist.	4795 Sep 27 02:20	3° <b>♀</b> 00'34	2.66203 AU		4800 Oct 22 19:20	$0^{\circ}\Omega$	
morning rise	4795 Nov 02 22:54	26° <b>≏</b> 28'16		retrograde	4800 Dec 21 22:51	19° <b>Ω</b> 20′24	
C	4795 Nov 08 12:34	0°M₊		min. Earth dist.	4801 Jan 22 16:13		0.55093 AU
	4795 Dec 26 00:12	0° <b>∡</b> ¹		opposition	4801 Jan 29 17:32	9° <b>Ω</b> 46'27	4°21'32
	4796 Feb 11 17:12	0°ਤ		greatest brilliancy	4801 Jan 28 14:26	10°Ω12'37	
desc. node	4796 Mar 03 14:06	13° <b>ろ</b> 01'28		direct	4801 Mar 06 13:41	1° <b>Ω</b> 44'10	-1.7111
desc. Hode				direct			
	4796 Mar 31 02:37	0° <b>≈</b>			4801 May 30 08:59	0° <b>m</b>	
	4796 May 20 22:18	0° <b>∀</b>			4801 Jul 23 23:26	0∘ <b>⊽</b>	
	4796 Jul 25 21:46	0° <b>Υ</b>			4801 Sep 12 04:09	0° <b>™</b>	
retrograde	4796 Aug 19 17:37	3° <b>Y</b> 36'36		desc. node	4801 Oct 24 10:59	26°M39'18	
	4796 Sep 13 14:47	30° <b>₹</b> ₩			4801 Oct 29 14:58	0° <b>∡</b>	
opposition	4796 Sep 18 20:48	28° <b>∺</b> 36'17	-6°26'25	evening set	4801 Nov 21 03:55	14° <b>∡</b> ′50'31	
greatest brilliancy	4796 Sep 19 20:23	28° <b>∺</b> 20′19	-2.9m	max. Earth dist.	4801 Dec 08 09:43	26° <b>₹</b> 28'12	2.54700 AU
min. Earth dist.	4796 Sep 22 15:56	27° <b>)</b> 34'45	0.37998 AU		4801 Dec 13 13:35	0°る	
direct	4796 Oct 19 19:00	23° <b>¥</b> 12'16					
	4796 Nov 21 19:11	$0^{\circ}\mathbf{\Upsilon}$		conjunction	4802 Jan 08 14:01	18° <b>る</b> 08'03	-0°40'23
asc. node	4797 Jan 12 02:45	26° <b>Ƴ</b> 59'58		minimum elong	4802 Jan 08 12:37	18° <b>る</b> 05'33	0°40'21
	4797 Jan 16 22:00	0° <b>8</b>		•	4802 Jan 25 04:17	0° <b>≈</b>	
	4797 Mar 03 15:42	0°II		morning rise	4802 Mar 02 04:00	26° <b>≈</b> 30'00	
	4797 Apr 17 07:01	0°ಅ			4802 Mar 06 19:44	0° <b>∺</b>	
	4797 Jun 01 13:58	$0^{\circ}\Omega$			4802 Apr 15 01:17	0°Υ	
					•		
	4797 Jul 17 22:03	0° <b>m</b> )			4802 May 23 14:09	0° <b>Β</b>	
• .	4797 Sep 03 01:14	0° <b>™</b>			4802 Jul 01 06:49	0° <b>I</b>	
evening set	4797 Sep 08 14:54	3° <b>£</b> 31'44	0.65-15-11	_	4802 Aug 10 03:45	0.62	
max. Earth dist.	4797 Oct 19 05:09	29° <b>≙</b> 16'10	2.67718 AU	asc. node	4802 Sep 03 23:49	17° <b>©</b> 52'20	
	4797 Oct 20 08:43	0°M₊			4802 Sep 21 13:13	$0$ $^{\circ}$ $\Omega$	
					4802 Nov 08 04:06	0° <b>™</b>	
conjunction	4797 Oct 24 03:46	2°M24'52	0°43'12	retrograde	4803 Jan 28 23:19	29° TD 22'22	
minimum elong	4797 Oct 24 04:48	2°M26'31	0°43'12	min. Earth dist.	4803 Mar 06 20:11	20°M/45'03	0.64715 AU
	4797 Dec 06 04:20	0° <b>∡</b> ¹		opposition	4803 Mar 10 05:17	19° <b>m</b> 24'05	4°35'44
morning rise	4797 Dec 07 03:26	0° <b>∡</b> ³37′20		greatest brilliancy	4803 Mar 09 16:11	19° <b>m</b> 37'09	-1.4m

direct	4803 Apr 18 09:44	10° <b>m</b> ) 10'08			4808 Jun 08 06:37	0°ಅ	
	4803 Jun 26 05:58	0∘ <del>⊽</del>					
	4803 Aug 21 23:24	0°M₊		conjunction	4808 Jul 18 04:47	28°543'17	0°48'47
desc. node	4803 Sep 11 09:38	12°ML03'35		minimum elong	4808 Jul 18 02:41	28° <b>©</b> 39'35	0°48'45
	4803 Oct 10 08:21	0° <b>∡</b> ¹			4808 Jul 20 00:30	$0^{\circ}\Omega$	
	4803 Nov 24 18:08	0°ರ		max. Earth dist.	4808 Aug 20 23:44	22° <b>Ω</b> 00'37	2.55071 AU
evening set	4804 Jan 05 11:41	29° <b>る</b> 29'48			4808 Sep 01 20:59	O° Mp	
	4804 Jan 06 04:17	0° <b>≈</b>		morning rise	4808 Sep 10 12:39	5°M/45'11	
max. Earth dist.	4804 Jan 22 00:31	11° <b>≈</b> 39'56	2.41874 AU		4808 Oct 17 19:37	0∘ <b>ত</b>	
	4804 Feb 15 08:11	0° <b>∀</b>			4808 Dec 04 20:11	0° <b>M</b>	
					4809 Jan 24 18:04	0°⊀	
conjunction	4804 Mar 02 21:29	12° <b>)</b> 44′03			4809 Mar 24 16:17	0°ಕ	
minimum elong	4804 Mar 02 21:46	12° <b>)</b> 44′35	1°05'09	desc. node	4809 May 03 05:37	12° <b>る</b> 49'12	
	4804 Mar 25 00:40	0° <b>Υ</b>		retrograde	4809 May 20 05:04	14° <b>る</b> 27'24	
	4804 May 02 02:15	0° <b>8</b>		opposition	4809 Jun 25 14:43	6° <b>る</b> 42'35	
morning rise	4804 May 09 18:27	6° <b>8</b> 02'50		greatest brilliancy	4809 Jun 26 05:01	6° <b>る</b> 29'31	
	4804 Jun 09 10:00	0°II		min. Earth dist.	4809 Jul 03 07:24	3°₹54'05	0.54986 AU
1-	4804 Jul 18 20:56	0°© 2°©18′06		J:4	4809 Jul 15 14:24	30°₹ <b>⋌</b> 7	
asc. node	4804 Jul 21 23:18 4804 Aug 29 07:30	2°Ω 0°Ω		direct	4809 Aug 04 11:11 4809 Aug 25 02:10	27° <b>メ</b> 20'04 0° <b>る</b>	
	4804 Oct 12 16:44	0° <b>m</b> p			4809 Oct 27 19:06	0°≈	
	4804 Dec 01 00:50	0∘ <b>ত</b> اللا			4809 Dec 10 22:52	0 <b>∞</b> 0° <b>∀</b>	
	4805 Feb 07 03:05	0°M			4810 Jan 20 02:36	0° <b>Υ</b>	
retrograde	4805 Mar 03 08:42	3°ML18'01			4810 Feb 28 03:30	0°8	
retrograde	4805 Mar 25 21:26	30°R <b>≏</b>		asc. node	4810 Mar 13 20:36	10° <b>8</b> 30'59	
opposition	4805 Apr 12 13:54	23° <b>£</b> 38'30	3°20'43		4810 Apr 08 13:02	0°Щ	
greatest brilliancy	4805 Apr 12 15:28	23° <b>£</b> 36'57	-1.3m		4810 May 19 05:37	0°©	
min. Earth dist.	4805 Apr 13 01:48	23° <b>≏</b> 26'41	0.67963 AU		4810 Jun 30 17:53	$0^{\circ}\Omega$	
direct	4805 May 23 15:50	13° <b>≏</b> 46'45		evening set	4810 Jul 13 15:15	8° <b>Ω</b> 50′10	
	4805 Jul 23 03:08	0° <b>M</b> .		-	4810 Aug 14 04:01	o° mp	
desc. node	4805 Jul 29 07:55	2°ML51'17			-		
	4805 Sep 17 13:12	0° <b>∡</b> ¹		conjunction	4810 Sep 02 22:27	12° <b>m</b> 59'21	1°07'56
	4805 Nov 03 18:02	0°₹		minimum elong	4810 Sep 02 22:27	12° <b>m</b> 59'21	1°07'56
	4805 Dec 16 14:15	0° <b>≈</b>		max. Earth dist.	4810 Sep 17 19:34	22° <b>m</b> 39'02	2.64118 AU
	4806 Jan 25 16:35	0° <b>∀</b>			4810 Sep 29 05:21	0。 <b>ত</b>	
	4806 Mar 05 04:28	$0^{\circ}\mathbf{\Upsilon}$		morning rise	4810 Oct 19 23:47	13° <b>≏</b> 16'17	
evening set	4806 Mar 07 04:59	1° <b>Ƴ</b> 35'40			4810 Nov 15 10:12	$0^{\circ}$ M	
	4806 Apr 12 02:37	$0^{\circ}S$			4811 Jan 02 10:25	0° <b>∡</b>	
					4811 Feb 20 11:38	0°る	
conjunction	4806 May 15 09:40	26° <b>8</b> 07'15		desc. node	4811 Mar 21 04:40	16° <b>පි</b> 59'01	
minimum elong	4806 May 15 11:21	26° <b>8</b> 10'31	0°16'50		4811 Apr 13 03:40	0° <b>≈</b>	
1	4806 May 20 09:45	0°II			4811 Jun 16 06:46	0° <b>)</b> (12)25	
asc. node	4806 Jun 08 22:58	14° <b>∏</b> 59'44 0° <b>©</b>		retrograde	4811 Jul 20 08:35	6° <b> </b>	6910100
max. Earth dist.	4806 Jun 28 21:53 4806 Jul 06 21:19	0 છ 5° <b>©</b> 54'06	2.41748 AU	opposition	4811 Aug 21 02:59 4811 Aug 22 19:11	0 \(\chi_{3037}\) 30°\\\	-0 1009
morning rise	4806 Jul 22 04:41	17° <b>9</b> 04'13	2.41/46 AU	greatest brilliancy	4811 Aug 22 17:11 4811 Aug 22 17:23	0° <b>)</b> €01'22	-2.6m
morning 1130	4806 Aug 09 07:07	0° <b>Ω</b>		min. Earth dist.	4811 Aug 28 11:33	28°≈17'03	0.41780 AU
	4806 Sep 22 00:48	0° <b>m</b> )		direct	4811 Sep 24 07:14	23°≈44'44	0.11700110
	4806 Nov 07 14:54	0∘ <del>⊽</del>			4811 Oct 25 11:04	0° <b>)</b> €	
	4806 Dec 28 11:07	0° <b>M</b> .			4811 Dec 19 19:58	$0^{\circ}\mathbf{\Upsilon}$	
	4807 Mar 03 02:57	0° <b>∡</b> ¹		asc. node	4812 Jan 29 19:59	28° <b>Y</b> 03'34	
retrograde	4807 Apr 08 04:23	6° <b>∡</b> ³37'11			4812 Feb 01 13:55	0°8	
	4807 May 11 01:32	30°RML			4812 Mar 14 18:55	$\Pi^{\circ}0$	
opposition	4807 May 17 04:44	27°M39'48	1°06'10		4812 Apr 26 13:11	0°©	
greatest brilliancy	4807 May 17 09:19	27°M35'21	-1.4m		4812 Jun 09 15:50	$0 {\circ} \Omega$	
min. Earth dist.	4807 May 21 11:44	25°M59'46	0.64604 AU		4812 Jul 25 05:44	0° <b>m</b>	
desc. node	4807 Jun 16 06:52	18°ML28'14		evening set	4812 Aug 24 17:52	19° <b>m</b> 39'14	
direct	4807 Jun 27 16:43	17°M37'53			4812 Sep 09 22:34	0∘ <b>⊽</b>	
	4807 Aug 16 17:09	0° <b>∡</b>			1010 0 10 11	100 - 1	005444
	4807 Oct 11 09:09	5°0		conjunction	4812 Oct 10 04:08	19° <b>£</b> 13'58	
	4807 Nov 25 05:49	0° <b>≈</b>		minimum elong	4812 Oct 10 05:11	19° <b>£</b> 15'37	
	4808 Jan 04 23:22	0° <b>)</b> €		max. Earth dist.	4812 Oct 10 07:24	19° <b>≏</b> 19'08	2.67796 AU
	4808 Feb 12 17:03	0° <b>႘</b>		morning rig-	4812 Oct 27 02:44	0° <b>M</b> 17° <b>M</b> 22'51	
asc. node	4808 Mar 21 19:53 4808 Apr 25 21:28	27° <b>8</b> 18'18		morning rise	4812 Nov 23 09:30 4812 Dec 13 02:34	1/°11622'51 0° <b>x</b> 7	
asc. nouc	4808 Apr 29 09:39	0°II			4813 Jan 28 12:35	0°중	
evening set	4808 May 17 18:35	13° <b>Ⅱ</b> 58'33		desc. node	4813 Feb 05 03:58	0 る 4°る58'56	
2. tg 50t	.000 may 17 10.55			acce. House	.015 1 00 00 05.50	. 30000	

	4912 Mar 15 06:50	0° <b>≈</b>			4010 Am. 20 20:22	0° <b>m</b>	
	4813 Mar 15 06:50 4813 Apr 29 14:32	0 <b>≈</b> 0° <b>∀</b>			4818 Apr 28 20:22 4818 Jul 08 05:07	0∘ <del>ت</del> ۱۱۱۸	
	4813 Jun 14 04:34	0° <b>Υ</b>			4818 Aug 30 07:34	0°M	
	4813 Aug 01 20:53	0°8		desc. node	4818 Sep 28 00:03	17°M30'23	
ratra ara da	4813 Oct 08 02:14	23° <b>8</b> 26'28		desc. flode	4818 Oct 17 17:22	0° <b>√</b>	
retrograde		19° <b>8</b> 01'31	0.27090 ATT			0°중	
min. Earth dist.	4813 Nov 03 22:38		0.37989 AU		4818 Dec 01 21:12		
opposition	4813 Nov 08 16:28	17° <b>8</b> 41'09		evening set	4818 Dec 17 11:46	10° <b>3</b> 49'34	2 47106 444
greatest brilliancy	4813 Nov 08 08:08	17° <b>8</b> 47'02	-2.9m	max. Earth dist.	4818 Dec 31 15:33	20°る50'59	2.47106 AU
direct	4813 Dec 08 05:33	12° <b>8</b> 35'27			4819 Jan 13 08:15	0° <b>≈</b>	
asc. node	4813 Dec 16 18:18	13° <b>8</b> 03'58			1010 F 1 00 10 20	100 15110	1001100
	4814 Feb 04 17:20	0° <b>Ⅱ</b>		conjunction	4819 Feb 08 10:30	19°≈15'42	
	4814 Mar 30 04:05	0°©		minimum elong	4819 Feb 08 09:12	19°≈13'16	1°01'09
	4814 May 17 23:25	$0^{\circ}\Omega$			4819 Feb 22 16:02	0° <b>)</b> €	
	4814 Jul 05 03:32	0° <b>m</b>			4819 Apr 02 12:54	0° <b>Υ</b>	
	4814 Aug 22 06:27	0∘ <b>ত</b>		morning rise	4819 Apr 10 15:47	6° <b>Y</b> 21′13	
evening set	4814 Oct 01 01:53	24° <b>≏</b> 59'26			4819 May 10 18:03	0°B	
	4814 Oct 08 23:58	0°M₊			4819 Jun 18 04:10	$\Pi$ °0	
max. Earth dist.	4814 Nov 02 05:44	15°M27'11	2.65979 AU		4819 Jul 27 16:57	$0 {\circ} {f \widehat{e}}$	
				asc. node	4819 Aug 08 16:21	8° <b>©</b> 49'16	
conjunction	4814 Nov 15 02:27	23°M44'14	0°20'48		4819 Sep 07 07:54	$0$ ° $\Omega$	
minimum elong	4814 Nov 15 03:05	23°M45'14	0°20'49		4819 Oct 22 09:11	0° <b>m</b> ∕	
	4814 Nov 24 18:10	0° <b>∡</b> ¹			4819 Dec 13 14:21	0∘ <b>ত</b>	
desc. node	4814 Dec 24 02:25	19° <b>∡</b> 17'39		retrograde	4820 Feb 19 01:47	20° <b>≏</b> 37'19	
morning rise	4814 Dec 29 16:01	23° <b>₹</b> ¹00'06		min. Earth dist.	4820 Mar 29 10:31	11° <b>≏</b> 11'43	0.67468 AU
	4815 Jan 09 02:34	0°ප		opposition	4820 Mar 30 10:51	10° <b>≙</b> 47'27	3°57'18
	4815 Feb 21 21:01	0° <b>≈</b>		greatest brilliancy	4820 Mar 30 07:31	10° <b>£</b> 50'46	-1.3m
	4815 Apr 05 03:27	0° <b>∀</b>		direct	4820 May 09 23:06	1° <b>≏</b> 07'20	
	4815 May 16 04:34	$0^{\circ}\mathbf{\Upsilon}$			4820 Aug 04 20:12	0° <b>M</b>	
	4815 Jun 25 14:51	0° <b>႘</b>		desc. node	4820 Aug 14 22:33	5° <b>™</b> 22'45	
	4815 Aug 05 14:42	0°Ⅲ			4820 Sep 26 05:18	0° <b>≯</b> ¹	
	4815 Sep 18 22:55	0°ಅ			4820 Nov 11 11:54	8°0	
asc. node	4815 Nov 03 17:45	23° <b>©</b> 47'49			4820 Dec 24 02:21	0° <b>≈</b>	
	4815 Nov 28 14:52	$0^{\circ}\Omega$			4821 Feb 02 04:21	0° <b>)</b> €	
retrograde	4815 Dec 05 15:59	0° <b>Ω</b> 21'42		evening set	4821 Feb 08 17:06	5° <b>₩</b> 01'18	
retrograde	4815 Dec 12 15:00	30°R.55		evening sec	4821 Mar 12 17:08	0°Υ	
min. Earth dist.	4816 Jan 04 02:48	24°922'11	0.49946 AU		1021 1141 12 17.00	0 1	
greatest brilliancy	4816 Jan 11 02:36	21°947'14		conjunction	4821 Apr 15 13:35	26° <b>Ƴ</b> 46'05	-0°45'10
opposition	4816 Jan 12 04:47	21°S22'58	3°30'12	minimum elong	4821 Apr 15 17:01	26°Y52'53	0°45'08
direct	4816 Feb 15 07:03	14°902'50	3 30 12	minimum clong	4821 Apr 19 15:42	0° <b>8</b>	0 43 00
direct	4816 Apr 13 15:32	0°Ω		max. Earth dist.	4821 May 14 08:39		2.37135 AU
	4816 Jun 10 14:43	0° <b>m</b>		max. Earth dist.	4821 May 27 22:07	0°Ⅱ	2.5/155 AO
		0∘ <b>ত</b> رااا		aca mada	•	0 П 21°П56'39	
	4816 Aug 01 05:27 4816 Sep 19 09:48	0° <b>m.</b>		asc. node morning rise	4821 Jun 25 14:39 4821 Jun 26 05:41	21 H3039 22°H24'59	
avanina aat	4816 Nov 05 22:27	0° № 15'52		morning rise		0°95	
evening set		0° <b>₹</b> ¹			4821 Jul 06 08:34 4821 Aug 16 16:30	0°Ω 0 €3	
1 1	4816 Nov 05 12:43				Č		
desc. node	4816 Nov 10 01:14	2° 🗷 57'04	2.58846 AU		4821 Sep 29 12:42	0 <b>்⊽</b> 0° <b>ம்</b>	
max. Earth dist.	4816 Nov 26 15:37		2.38840 AU		4821 Nov 15 17:47		
	4816 Dec 20 12:00	0°ප			4822 Jan 08 04:59	0°M 22°M 28!22	
	4016 D 20 14 20	1070(100	0000101	retrograde	4822 Mar 24 18:47	23°M38'22	2005110
conjunction	4816 Dec 22 14:32	1°る26'28		opposition	4822 May 03 10:01	14°M21'48	
minimum elong	4816 Dec 22 13:42	1°る25'02	0°23'19	greatest brilliancy	4822 May 03 15:30	14°M16'25	-1.3m
	4817 Feb 01 08:13	0°≈		min. Earth dist.	4822 May 06 05:47	13°M15'16	0.66694 AU
morning rise	4817 Feb 09 13:38	5°≈55'19		direct	4822 Jun 13 22:46	4°M20'10	
	4817 Mar 14 07:47	0° <b>∀</b>		desc. node	4822 Jul 02 21:16	6°M22'40	
	4817 Apr 22 21:52	0° <b>Υ</b>			4822 Aug 31 10:03	0° <b>∡</b>	
	4817 May 31 18:28	0°B			4822 Oct 20 21:27	0°る	
	4817 Jul 09 18:22	0° <b>Ⅱ</b>			4822 Dec 03 15:41	0° <b>≈</b>	
	4817 Aug 19 01:06	0ಂ <b>ತಾ</b>			4823 Jan 13 00:49	0° <b>∀</b>	
asc. node	4817 Sep 20 17:55	22° <b>©</b> 54'39			4823 Feb 20 14:47	0° <b>Υ</b>	
	4817 Oct 01 10:33	$0^{\circ}\Omega$		greatest brilliancy	4823 Feb 25 16:22	3° <b>Y</b> 59'33	1.2m
	4817 Nov 22 06:58	0° <b>™</b>			4823 Mar 30 14:29	$9^{\circ}$ 8	
retrograde	4818 Jan 14 23:14	15° <b>m</b> 07'40		evening set	4823 Apr 21 08:05	17° <b>8</b> 03'42	
min. Earth dist.	4818 Feb 18 23:22	7° <b>m</b> 07'48	0.61646 AU		4823 May 08 00:20	$\Pi$ °0	
opposition	4818 Feb 23 20:45	5° <b>m</b> 11'19	4°44'46	asc. node	4823 May 13 14:33	4° <b>Ⅱ</b> 18′03	
greatest brilliancy	4818 Feb 23 01:02	5° Mp 30'55	-1.6m		4823 Jun 16 16:23	$0$ $\circ$ $\odot$	
	4818 Mar 10 05:00	$30^\circ$ R $\Omega$					
direct	4818 Apr 02 22:23	26° <b>Ω</b> 20′21		conjunction	4823 Jun 26 14:00	7° <b>©</b> 17'13	0°28'34

minimum elong	4823 Jun 26 12:00	7° <b>©</b> 13'34	0°28'31	greatest brilliancy	4828 Oct 07 11:19	16° <b>Ƴ</b> 18'52	-3.0m
	4823 Jul 28 05:16	$0^{\circ}\Omega$		min. Earth dist.	4828 Oct 07 22:19	16° <b>Υ</b> 11'35	0.37044 AU
max. Earth dist.	4823 Aug 08 03:00	7° <b>Ω</b> 37'44	2.50200 AU	direct	4828 Nov 05 22:55	11° <b>Y</b> 26'11	
morning rise	4823 Aug 24 13:50	18° <b>Ω</b> 57'01		asc. node	4829 Jan 02 11:35	29° <b>Ƴ</b> 14'48	
	4823 Sep 09 22:45	O° <b>m</b> y			4829 Jan 03 22:14	$9^{\circ}$ 8	
	4823 Oct 26 00:03	0° <b>⊽</b>			4829 Feb 23 11:20	$\Pi$ $^{\circ}0$	
	4823 Dec 13 17:20	0°M			4829 Apr 10 20:26	0ංම	
	4824 Feb 05 03:17	0° <b>∡</b> ¹			4829 May 27 00:48	$0 {\circ} \Omega$	
retrograde	4824 May 02 02:15	28° <b>₰</b> 757'28			4829 Jul 12 21:18	0° <b>m</b> )	
desc. node	4824 May 19 20:58	26° <b>₰</b> 758'07			4829 Aug 29 07:38	0∘ <b>ত</b>	
opposition	4824 Jun 08 17:24	20° <b>҂</b> ³39′25	-0°47'34	evening set	4829 Sep 16 21:47	11° <b>≏</b> 44'01	
greatest brilliancy	4824 Jun 08 21:43	20° <b>҂</b> 35′20	-1.7m		4829 Oct 15 18:08	0°M₊	
min. Earth dist.	4824 Jun 15 05:07	18° <b>≯</b> 12'38	0.59421 AU	max. Earth dist.	4829 Oct 24 08:48	5° <b>™</b> 28'40	2.67336 AU
direct	4824 Jul 19 13:14	10° <b>≯</b> 52'23					
	4824 Sep 20 01:07	0°₹		conjunction	4829 Nov 01 03:05	10°M25'51	0°35'32
	4824 Nov 08 15:44	0° <b>≈</b>		minimum elong	4829 Nov 01 04:01	10°M27'21	0°35'32
	4824 Dec 20 18:23	0° <b>∀</b>			4829 Dec 01 13:05	0°⊀	
	4825 Jan 29 02:49	$0^{\circ}$ $\Upsilon$		morning rise	4829 Dec 15 04:10	8° <b>≯</b> 51'58	
	4825 Mar 08 15:38	0° <b>8</b>		desc. node	4830 Jan 09 17:04	25° <b>∡</b> ¹40'29	
asc. node	4825 Mar 30 13:14	16° <b>8</b> 57'00			4830 Jan 16 05:14	0°ರ	
	4825 Apr 16 14:55	$\Pi^{\circ}0$			4830 Mar 01 14:10	0° <b>≈</b>	
	4825 May 26 21:39	$0$ $\circ$ $\odot$			4830 Apr 13 17:16	0° <b>∀</b>	
evening set	4825 Jun 23 16:05	19° <b>©</b> 55'56			4830 May 25 20:38	$0^{\circ}$ Y	
	4825 Jul 08 00:47	$0 ^{\circ} \Omega$			4830 Jul 06 17:22	0°8	
		_			4830 Aug 19 05:13	$\Pi^{\circ}0$	
conjunction	4825 Aug 17 05:29	27° <b>Ω</b> 22'45			4830 Oct 11 23:57	0ಂತ	
minimum elong	4825 Aug 17 04:40	27° <b>Ω</b> 21′23	1°05'21	retrograde	4830 Nov 15 19:10	7° <b>5</b> 49'19	
	4825 Aug 21 03:49	0° <b>m</b> ∕		asc. node	4830 Nov 20 11:27	7° <b>©</b> 39'25	
max. Earth dist.	4825 Sep 07 22:44	11° <b>m</b> ) 44'45	2.61198 AU	min. Earth dist.	4830 Dec 13 03:51	2° <b>©</b> 41'13	0.44547 AU
morning rise	4825 Oct 05 10:48	29° m/35'23		opposition	4830 Dec 21 10:07	29° <b>∏</b> 51'42	1°51'41
	4825 Oct 06 02:08	0° <b>™</b>		greatest brilliancy	4830 Dec 20 18:46	0°504'53	-2.5m
	4825 Nov 22 11:24	0° <b>M</b> ₊			4830 Dec 21 00:26	30°RⅡ	
	4826 Jan 10 06:16	0° <b>∡</b>		direct	4831 Jan 22 15:28	23° <b>II</b> 23'36	
	4826 Mar 02 10:09	0°る			4831 Feb 26 00:04	0°©	
desc. node	4826 Apr 06 19:45	18° <b>る</b> 57'42			4831 Apr 30 03:03	$\Omega^{\circ}$	
. 1	4826 Apr 30 11:43	0°≈			4831 Jun 21 04:04	0° <b>™</b>	
retrograde	4826 Jun 23 08:59	13°≈32'18	40.4514.4		4831 Aug 09 23:31	0∘ <b>亚</b>	
opposition	4826 Jul 27 02:45	6°≈56'40		. ,	4831 Sep 27 10:45	0°M	
greatest brilliancy	4826 Jul 28 12:41	6°≈28'16	-2.3m 0.46899 AU	evening set	4831 Oct 23 08:48	16°M26'06	
min. Earth dist.	4826 Aug 04 15:51	4°≈05'40 30°Rる	0.40899 AU	max. Earth dist.	4831 Nov 13 08:51	0°×7 2°×728'07	2 62240 ATT
direct	4826 Aug 20 08:00 4826 Sep 02 04:20	30 KO 28° <b>ろ</b> 51'07			4831 Nov 17 03:35 4831 Nov 27 15:44	2 <b>x</b> ·2807 9° <b>x</b> 22'13	2.62249 AU
direct		28°€3107		desc. node	4831 NOV 27 13:44	9-×-22-13	
	4826 Sep 15 02:40 4826 Nov 20 05:47	0 <b>≈</b> 0° <b>∺</b>		conjunction	4831 Dec 07 23:52	16° <b>∡</b> 13'50	0005144
	4827 Jan 03 00:25	0° <b>Υ</b>		minimum elong	4831 Dec 07 23:32 4831 Dec 07 23:41	16° 🖈 13'31	
	4827 Feb 12 18:56	%8 0°8		behind sun begin	4831 Dec 07 25:41 4831 Dec 07 05:26	15° × 43'06	0 03 43
asc. node	4827 Feb 15 11:37	2° <b>8</b> 00'03		behind sun end	4831 Dec 07 03:20 4831 Dec 08 17:56	16° <b>×</b> 43'56	
use. Houe	4827 Mar 25 09:26	0°Ⅱ		ocimia sun cha	4831 Dec 28 10:35	0°る	
	4827 May 06 01:26	0°e		morning rise	4832 Jan 23 14:10	18° <b>る</b> 01'38	
	4827 Jun 18 08:50	0°N			4832 Feb 09 13:57	0° <b>≈</b>	
	4827 Aug 02 09:15	0° <b>m</b> )			4832 Mar 21 23:22	0° <b>)</b> €	
evening set	4827 Aug 10 00:57	5° m, 00'10			4832 May 01 00:06	$_0$ ° $\boldsymbol{\gamma}$	
C	4827 Sep 17 18:13	0∘ <u>⊽</u>			4832 Jun 09 07:01	$9^{\circ}$ 8	
	1				4832 Jul 18 18:10	0°II	
conjunction	4827 Sep 26 20:52	5° <b>£</b> 49'35	1°02'30		4832 Aug 28 19:10	0°€	
minimum elong	4827 Sep 26 21:42	5° <b>≙</b> 50'55		asc. node	4832 Oct 07 09:46	26° <b>©</b> 23'49	
max. Earth dist.	4827 Oct 02 08:21	9° <b>₽</b> 19'21	2.67016 AU		4832 Oct 13 07:36	$0^{\circ}\Omega$	
	4827 Nov 03 20:50	0° <b>M</b> ₊		retrograde	4832 Dec 31 01:00	29° <b>Ω</b> 30′28	
morning rise	4827 Nov 10 19:03	4°M23'38		min. Earth dist.	4833 Feb 01 23:39	22° <b>£</b> 13'31	0.57668 AU
-	4827 Dec 21 03:24	0° <b>∡</b> ¹		greatest brilliancy	4833 Feb 07 06:24	20° <b>Ω</b> 09'41	-1.7m
	4828 Feb 06 07:26	8°0		opposition	4833 Feb 08 07:40	19° <b>Ω</b> 44'58	4°36'55
desc. node	4828 Feb 22 18:23	10° <b>පි</b> 28'24		direct	4833 Mar 17 00:58	11° <b>Ω</b> 23'05	
	4828 Mar 24 12:58	0° <b>≈</b>			4833 May 21 10:43	0° <b>m</b>	
	4828 May 11 15:22	0° <b>)</b> €			4833 Jul 18 01:37	0∘ <del>⊽</del>	
	4828 Jul 02 17:33	$0^{\circ}$ Y			4833 Sep 07 02:49	0°M₊	
retrograde	4828 Sep 07 03:59	21° <b>Y</b> 21'31		desc. node	4833 Oct 14 14:33	23°M23'23	
opposition	4828 Oct 07 02:42	16° <b>Y</b> 24'35	-5°38'01		4833 Oct 24 21:14	0° <b>∡</b> ¹	

evening set	4833 Nov 30 08:05	24° <b>×7</b> 08'51			4838 Jun 24 01:50	0°9	
8	4833 Dec 08 22:05	8°0		max. Earth dist.	4838 Jul 21 02:58	19° <b>©</b> 46'35	2.44828 AU
max. Earth dist.	4833 Dec 16 00:03	4° <b>る</b> 52'44	2.52150 AU	morning rise	4838 Aug 04 05:01	29°549'02	
					4838 Aug 04 11:14	$0$ $^{\circ}$ $\Omega$	
conjunction	4834 Jan 19 01:31	28°る57'48			4838 Sep 17 03:30	0° <b>m</b> )	
minimum elong	4834 Jan 18 23:56	28° <b>る</b> 54'56	0°49'15		4838 Nov 02 10:37	0∘ <b>ル</b> 0∘ಹ	
	4834 Jan 20 11:57 4834 Mar 02 01:05	0° <b>∺</b>			4838 Dec 22 06:11 4839 Feb 18 12:29	0° <b>/</b> 7	
morning rise	4834 Mar 15 06:18	0 <b>X</b> 10° <b>¥</b> 02'34		retrograde	4839 Apr 16 19:44	0 <b>x</b> ⁴ 14° <b>x</b> ⁴47'05	
morning rise	4834 Apr 10 03:41	0°Υ		opposition	4839 May 25 10:17	6° <b>∡</b> 102'12	0°27'18
	4834 May 18 13:27	0°8		greatest brilliancy	4839 May 25 12:38	5° <b>∡</b> 159'57	-1.5m
	4834 Jun 26 03:01	$\Pi^{\circ}0$		min. Earth dist.	4839 May 30 12:44	4° <b>∡</b> ¹04'22	0.63040 AU
	4834 Aug 04 19:27	$0$ $\circ$ $\odot$		desc. node	4839 Jun 06 11:17	1° <b>∡</b> ³31′26	
asc. node	4834 Aug 25 09:00	14° <b>©</b> 57'54			4839 Jun 11 02:19	30°RML	
	4834 Sep 15 18:55	$0$ $^{\circ}$ $\Omega$		direct	4839 Jul 05 19:20	26°ML03'03	
	4834 Nov 01 01:45	0° <b>m</b> y			4839 Aug 01 03:29	0° <b>∡</b> ¹	
	4834 Dec 30 13:23	0° <b>⊽</b>			4839 Oct 04 11:54	5°0	
retrograde	4835 Feb 05 17:55	7° <b>Ω</b> 34'59			4839 Nov 19 12:50	0° <b>≈</b> 0° <b>∀</b>	
min. Earth dist.	4835 Mar 12 03:53 4835 Mar 15 13:41	30°R M) 28° M) 39'09	0.65973 AU		4839 Dec 30 15:54 4840 Feb 07 13:48	0°Υ	
opposition	4835 Mar 18 02:31	27° m) 38'24	4°24'47		4840 Mar 16 19:04	0°8	
greatest brilliancy	4835 Mar 17 17:07	27° mp 47'48		asc. node	4840 Apr 16 06:00	23° <b>8</b> 41'50	
direct	4835 Apr 26 19:58	18° <b>m</b> ) 13'49			4840 Apr 24 10:58	0°II	
	4835 Jun 16 03:40	0∘ <b>⊽</b>		evening set	4840 May 31 23:47	28° <b>Ⅱ</b> 12'48	
	4835 Aug 15 23:22	$0^{\circ}$ M			4840 Jun 03 10:02	0ංම	
desc. node	4835 Sep 01 13:39	9° <b>™</b> 31'05			4840 Jul 15 05:45	$0$ $^{\circ}\Omega$	
	4835 Oct 05 05:37	0° <b>∡</b> 7					
	4835 Nov 19 22:26	ි ව°0		conjunction	4840 Jul 29 18:25	10° <b>Ω</b> 05'09	0°56'52
. ,	4836 Jan 01 10:15	0° <b>≈</b>		minimum elong	4840 Jul 29 16:42	10° <b>Ω</b> 02'12	
evening set max. Earth dist.	4836 Jan 17 09:57 4836 Feb 10 02:54	11°≈46'14 29°≈39'14	2.39164 AU	max. Earth dist.	4840 Aug 28 00:44 4840 Aug 28 03:20	29° <b>3′2</b> 55′39	2.57470 AU
max. Earth dist.	4836 Feb 10 02:34 4836 Feb 10 13:46	29 <b>≈</b> 39 14 0° <b>)</b> (	2.39104 AU	morning rise	4840 Sep 19 23:51	15° <b>m</b> ) 05'49	
	4030100 10 13.40	٠ ٨		morning rise	4840 Oct 13 00:28	0ಂ <b>ರ</b>	
conjunction	4836 Mar 17 19:14	28° <b>¥</b> 06'19	-1°02'04		4840 Nov 29 17:34	0° <b>M</b>	
minimum elong	4836 Mar 17 20:56	28° <b>¥</b> 09'41	1°02'03		4841 Jan 18 15:57	0° <b>∡</b> 7	
	4836 Mar 20 05:07	$0^{\circ}\mathbf{Y}$			4841 Mar 14 12:42	ರ°0	
	4836 Apr 27 05:30	$9^{\circ}$ 8		desc. node	4841 Apr 23 10:07	17° <b>ප</b> 13'05	
morning rise	4836 May 27 09:43	23° <b>8</b> 41'44		retrograde	4841 May 31 14:45	24° <b>පි</b> 34'47	
_	4836 Jun 04 12:26	0°Щ		opposition	4841 Jul 06 04:42	17° <b>ට</b> 12'11	
asc. node	4836 Jul 12 07:56	28° <b>∏</b> 48'12		greatest brilliancy	4841 Jul 07 02:06	16°る53'06	
	4836 Jul 13 22:25	ია <b>ი</b> 0ა <b>⊙</b>		min. Earth dist.	4841 Jul 14 09:47	14° <b>る</b> 16'53	0.52226 AU
	4836 Aug 24 06:33 4836 Oct 07 08:31	0° <b>№</b>		direct	4841 Aug 14 06:32 4841 Oct 18 07:57	8°る10'50 0°≈	
	4836 Nov 24 14:52	0° <b>ت</b> 0°			4841 Dec 04 00:42	0° <b>∺</b>	
	4837 Jan 22 16:33	0° <b>m</b>			4842 Jan 14 00:34	0° <b>Υ</b>	
retrograde	4837 Mar 11 00:25	10°M58'10			4842 Feb 22 12:00	0°8	
opposition	4837 Apr 20 02:21	1°M25'53	2°55'19	asc. node	4842 Mar 04 05:42	7° <b>8</b> 24'31	
greatest brilliancy	4837 Apr 20 05:55	1°M22'22	-1.3m		4842 Apr 03 05:04	$\Pi^{\circ}0$	
min. Earth dist.	4837 Apr 21 10:24		0.67797 AU		4842 May 14 03:48	0ංම	
	4837 Apr 23 17:24	30° <b>₹</b> Ω			4842 Jun 25 20:53	0°N	
direct	4837 May 31 10:11	21° <b>Ω</b> 29'21		evening set	4842 Jul 24 00:58	19° <b>Ω</b> 05'52	
daga mada	4837 Jul 11 19:48	0°ጤ 2°ጤ57'41			4842 Aug 09 10:36	0° <b>т</b> р	
desc. node	4837 Jul 19 12:32 4837 Sep 11 08:24	2 1163/41 0° <b>x</b> 7		conjunction	4842 Sep 11 21:54	21° mp 51'14	1°07'08
	4837 Oct 29 11:31	0° <b>ਠ</b>		minimum elong	4842 Sep 11 22:17	21° m <sub>2</sub> 51'14'	1°07'08
	4837 Dec 11 14:40	0° <b>≈</b>		max. Earth dist.	4842 Sep 23 08:43	29° m 13'54	2.65370 AU
	4838 Jan 20 19:13	0° <b>∀</b>			4842 Sep 24 13:26	0∘ <del>⊽</del>	
	4838 Feb 28 07:33	$0^{\circ}\Upsilon$		morning rise	4842 Oct 28 01:24	21° <b>≏</b> 22'08	
evening set	4838 Mar 23 08:25	18° <b>Y</b> °13'04			4842 Nov 10 16:29	0°M	
	4838 Apr 07 05:42	0°B			4842 Dec 28 09:04	0° <b>∡</b>	
	4838 May 15 13:07	0°Щ			4843 Feb 14 14:29	0°ਤ	
asc. node	4838 May 30 05:59	11° <b>Ⅱ</b> 17'52		desc. node	4843 Mar 11 08:45	15°る09'08	
aanium - ti	4020 M 21 14 10	120TT 10120	0000157		4843 Apr 05 03:48	0° <b>≈</b>	
conjunction minimum elong	4838 May 31 14:18 4838 May 31 14:12	12° <b>Ⅱ</b> 19'28 12° <b>Ⅱ</b> 19'18	0°00'57 0°00'56	retrograde	4843 May 29 07:52 4843 Aug 06 11:29	0° <b>∺</b> 21° <b>∺</b> 28'53	
behind sun begin	4838 May 30 09:43	12 <b>П</b> 1918 11° <b>П</b> 24'59	0 00 00	opposition	4843 Sep 06 06:26	16°\(\dagger)13'13	-6°32'23
behind sun end	4838 Jun 01 18:42	13° <b>Ⅱ</b> 13'33		greatest brilliancy	4843 Sep 07 15:24	15° <b>)</b> (49'47	
				J			

min. Earth dist.	4843 Sep 12 00:36		0.39421 AU	desc. node	4848 Oct 31 05:43	29°M34'53	
direct	4843 Oct 08 13:16	10° <b>)</b> 15'44			4848 Oct 31 21:11	0° <b>∡</b> 7	
	4843 Dec 07 09:10	0° <b>Υ</b>		evening set	4848 Nov 14 12:23	8° <b>≯</b> 55'35	2.56626.133
asc. node	4844 Jan 20 03:46	27° <b>Y</b> 13′21		max. Earth dist.	4848 Dec 03 03:27		2.56636 AU
	4844 Jan 24 07:23	0° <b>B</b>			4848 Dec 15 21:12	0°₹	
	4844 Mar 08 01:59	0°II			4040 1 01 01 26	110-710100	0022122
	4844 Apr 20 17:35	0°©		conjunction	4849 Jan 01 01:26	11° <b>ろ</b> 10'29	
	4844 Jun 04 09:35	0° <b>N</b>		minimum elong	4849 Jan 01 00:15	11°る08'26 0°≈	0°33'20
. ,	4844 Jul 20 08:13 4844 Sep 02 08:22	0° <b>m</b>			4849 Jan 27 15:20	0°≈ 17°≈39'04	
evening set	1	28°№09'19 0° <u>മ</u>		morning rise	4849 Feb 20 20:43 4849 Mar 09 11:03	17° <b>≈</b> 39°04 0° <b>∺</b>	
max. Earth dist.	4844 Sep 05 06:00 4844 Oct 15 11:54		2.67859 AU		4849 Apr 17 20:47	0° <b>Υ</b>	
max. Earm dist.	4044 OCt 13 11.34	23 = 33 10	2.07639 AU		4849 May 26 12:54	0° <b>8</b>	
conjunction	4844 Oct 18 05:19	27° <b>£</b> 17'12	0°48'07		4849 Jul 04 08:03	0°II	
minimum elong	4844 Oct 18 06:23	27° <b>⊆</b> 1712 27° <b>⊆</b> 18'54			4849 Aug 13 07:44	0°©	
minimum ciong	4844 Oct 22 11:43	0°M	0 4007	asc. node	4849 Sep 11 00:57	20°929'16	
morning rise	4844 Dec 01 06:12	25°M24'34		use. Hode	4849 Sep 24 23:40	0°Ω	
morning rise	4844 Dec 08 09:25	0°×7			4849 Nov 12 18:26	0° <b>m</b> )	
	4845 Jan 23 12:17	ੁੰ≎		retrograde	4850 Jan 23 01:51	23° <b>m</b> 52'03	
desc. node	4845 Jan 26 07:18	1°る50'06		min. Earth dist.	4850 Feb 28 03:38	15° <b>m</b> 30'44	0.63472 AU
dese. node	4845 Mar 09 17:03	0°≈		opposition	4850 Mar 04 04:51	13° <b>m</b> 53'56	4°41'25
	4845 Apr 23 02:01	0° <b>)</b> €		greatest brilliancy	4850 Mar 03 12:49	14° <b>m</b> 09'54	-1.5m
	4845 Jun 06 00:37	$0^{\circ}\Upsilon$		direct	4850 Apr 11 22:14	4° m/49'28	
	4845 Jul 20 21:07	0°8			4850 Jun 30 18:57	0∘ <u>⊽</u>	
	4845 Sep 11 03:10	0° <b>I</b> I			4850 Aug 24 19:50	0°M	
retrograde	4845 Oct 23 10:24	10° <b>Ⅱ</b> 56′20		desc. node	4850 Sep 18 04:21	14°M35'18	
min. Earth dist.	4845 Nov 18 16:15	6° <b>Ⅲ</b> 26'42	0.39805 AU		4850 Oct 12 19:48	0° <b>∡</b> ¹	
opposition	4845 Nov 25 10:18	4° <b>Ⅱ</b> 24'09	-0°48'10		4850 Nov 27 04:25	8°0	
greatest brilliancy	4845 Nov 25 06:07	4° <b>Ⅲ</b> 27′20	-2.8m	evening set	4850 Dec 27 23:13	21° <b>ප</b> 33'12	
asc. node	4845 Dec 07 03:06	1° <b>Ⅱ</b> 09'12		-	4851 Jan 08 16:15	0° <b>≈</b>	
	4845 Dec 12 19:25	30° <b>₹</b> 8		max. Earth dist.	4851 Jan 11 12:04	2° <b>≈</b> 03'29	2.44212 AU
direct	4845 Dec 25 19:23	28° <b>8</b> 53'02			4851 Feb 17 22:48	0° <b>∀</b>	
	4846 Jan 07 23:58	$\Pi^{\circ}0$					
	4846 Mar 21 04:05	0ංම		conjunction	4851 Feb 21 05:33	2° <b>∺</b> 30′07	-1°04'43
	4846 May 11 13:04	$0^{\circ}\Omega$		minimum elong	4851 Feb 21 04:58	2° <b>升</b> 29′01	1°04'43
	4846 Jun 29 18:06	0° <b>m</b> y			4851 Mar 28 17:43	$0$ ° $\mathbf{\gamma}$	
	4846 Aug 17 09:02	0∘ <b>⊽</b>		morning rise	4851 Apr 27 05:57	23° <b>Y</b> 12'38	
	4846 Oct 04 08:03	0°M₊			4851 May 05 20:41	0°8	
evening set	4846 Oct 09 03:57	3°M03'19			4851 Jun 13 04:47	$\Pi^{\circ}0$	
max. Earth dist.	4846 Nov 07 14:27		2.64859 AU	_	4851 Jul 22 15:20	0°€	
	4846 Nov 20 03:31	0°⊀		asc. node	4851 Jul 29 23:50	5° <b>©</b> 27'08	
					4851 Sep 02 01:47	0° <b>N</b>	
conjunction	4846 Nov 23 06:42	2°×702'32			4851 Oct 16 14:47	0° m/	
minimum elong	4846 Nov 23 07:03	2°×703'07	0°11'24	. 1	4851 Dec 05 18:33	0° <b>⊽</b>	
behind sun begin	4846 Nov 22 17:35	1° 🖈 41'09		retrograde	4852 Feb 26 16:20	28° <b>£</b> 23'53	2926156
behind sun end desc. node	4846 Nov 23 20:31	2° <b>₹</b> 25'05 15° <b>₹</b> 51'16		opposition	4852 Apr 07 00:19	18° <b>쇼</b> 39'21 18° <b>쇼</b> 39'46	3°36'56 -1.3m
desc. node	4846 Dec 14 06:29 4847 Jan 04 09:25	0°중		greatest brilliancy min. Earth dist.	4852 Apr 06 23:55 4852 Apr 06 20:19	18° <b>£</b> 3946 18° <b>£</b> 43'21	0.67878 AU
morning rise	4847 Jan 07 09:21	0 3 2° <b>る</b> 01'41		direct	4852 May 17 21:11	8° <b>£</b> 52'12	0.07878 AU
morning risc	4847 Feb 16 22:19	2 001 41 0°≈		uncet	4852 Jul 28 01:36	0°M	
	4847 Mar 30 20:41	0° <b>∺</b>		desc. node	4852 Aug 05 02:51	3°M59'13	
	4847 May 10 12:10	0° <b>Υ</b>		desc. node	4852 Sep 20 14:34	0° <b>⊼</b>	
	4847 Jun 19 10:38	0°8			4852 Nov 06 11:02	°ਤ	
	4847 Jul 29 17:03	0°II			4852 Dec 19 06:05	0° <b>≈</b>	
	4847 Sep 10 06:49	0 . ಹ			4853 Jan 28 09:17	0° <b>ℋ</b>	
asc. node	4847 Oct 25 03:16	26°5947'03		evening set	4853 Feb 23 05:26	20° <b>)</b> €01'40	
	4847 Oct 31 18:27	0° <b>Ω</b>		<b>3</b> •	4853 Mar 07 22:08	0°Υ	
retrograde	4847 Dec 15 17:54	11° <b>Ω</b> 56′00			4853 Apr 14 20:21	0°8	
min. Earth dist.	4848 Jan 15 10:40	5° <b>Ω</b> 28'11	0.52854 AU			-	
greatest brilliancy	4848 Jan 21 21:17	3° <b>Ω</b> 01'43	-2.0m	conjunction	4853 May 02 09:31	13° <b>8</b> 50'06	-0°29'59
opposition	4848 Jan 23 00:59	2° <b>£</b> 35′24		minimum elong	4853 May 02 12:22	13° <b>8</b> 55'42	
	4848 Jan 30 03:25	30° <b>₹</b> 5		-	4853 May 23 02:30	$\Pi^{\circ}0$	
direct	4848 Feb 27 03:44	24° <b>©</b> 50'49		asc. node	4853 Jun 16 00:04	18° <b>Ⅱ</b> 19'36	
	4848 Mar 28 18:46	$0^{\circ}\Omega$		max. Earth dist.	4853 Jun 21 02:57	22° <b>Ⅱ</b> 11'51	2.39399 AU
	4848 Jun 03 14:41	0°Щ			4853 Jul 01 12:48	0ංම	
	4848 Jul 26 18:44	0∘ <b>ত</b>		morning rise	4853 Jul 11 09:07	7° <b>©</b> 17'45	
	4848 Sep 14 12:52	0° <b>M</b> ₊			4853 Aug 11 19:46	$0^{\circ}\Omega$	

	4853 Sep 24 12:37	0° <b>m</b>			4858 Dec 25 23:57	0°Υ	
	4853 Nov 10 06:09	0∘ <b>⊽</b>		asc. node	4859 Feb 05 21:01	29° <b>Υ</b> '49'13	
	4853 Dec 31 21:25	0° <b>m</b> .		asc. node	4859 Feb 06 02:58	0° <b>8</b>	
	4854 Mar 16 17:30	0° <b>x</b> 7⊓			4859 Mar 19 11:15	0°II	
retrograde	4854 Apr 01 21:33	1° <b>×</b> <sup>7</sup> 29'48			4859 Apr 30 15:30	0°e ∘ π	
ronogrado	4854 Apr 17 06:01	30°RM			4859 Jun 13 07:34	$0^{\circ}\Omega$	
opposition	4854 May 11 05:52	22°M23'21	1°31'45		4859 Jul 28 14:07	0° m)	
greatest brilliancy	4854 May 11 11:10	22°M18'11	-1.4m	evening set	4859 Aug 19 03:00	13° m 58'03	
min. Earth dist.	4854 May 14 21:32	20°M57'49	0.65667 AU	•	4859 Sep 13 02:30	0∘ <b>⊽</b>	
direct	4854 Jun 21 19:45	12°M20'47					
desc. node	4854 Jun 23 01:51	12°M21'22		conjunction	4859 Oct 05 02:30	14° <b>≏</b> 01'32	0°58'06
	4854 Aug 22 19:39	0° <b>∡</b> ¹		minimum elong	4859 Oct 05 03:30	14° <b>≙</b> 03'07	0°58'06
	4854 Oct 14 21:53	<b>℃</b> 0		max. Earth dist.	4859 Oct 07 13:21	15° <b>≏</b> 35'08	2.67551 AU
	4854 Nov 28 07:45	0° <b>≈</b>			4859 Oct 30 05:39	$0^{\circ}$ M	
	4855 Jan 07 22:22	0° <b>∀</b>		morning rise	4859 Nov 18 14:05	12°M18'09	
	4855 Feb 15 14:49	$0$ ° $\mathbf{\gamma}$			4859 Dec 16 08:21	0° <b>∡</b>	
	4855 Mar 25 15:59	0°8			4860 Feb 01 01:50	0°る	
asc. node	4855 May 03 22:51	0° <b>Ⅱ</b> 37'40		desc. node	4860 Feb 12 22:54	7° <b>る</b> 40'04	
	4855 May 03 03:16	$\Pi^{\circ 0}$			4860 Mar 18 10:15	0° <b>≈</b>	
evening set	4855 May 07 02:46	3° <b>Ⅱ</b> 03′24			4860 May 03 18:20	0° <b>∀</b>	
	4855 Jun 11 21:00	$0$ $\circ$ $\odot$			4860 Jun 20 07:29	0° <b>Υ</b>	
	4055 1 1 00 10 20	200017101	0041107		4860 Aug 14 18:24	0° <b>8</b>	
conjunction	4855 Jul 09 18:28	20°517'01		retrograde	4860 Sep 25 01:22	9° <b>8</b> 56'36	0.271.40.441
minimum elong	4855 Jul 09 16:14	20°©13'02	0°41'05	min. Earth dist.	4860 Oct 23 05:15	5° <b>8</b> 21'14	
E 41 E 4	4855 Jul 23 11:10	0°Ω	2.52071 ATT	opposition	4860 Oct 25 16:50	4° <b>8</b> 40'56	
max. Earth dist.	4855 Aug 16 07:34		2.52971 AU	greatest brilliancy	4860 Oct 25 12:26	4° <b>႘</b> 43'55 30° <b>ℝ</b> Υ	-3.0m
morning rise	4855 Sep 04 00:58	29° <b>Ω</b> 13'21 0° <b>m</b>		direct	4860 Nov 18 06:57 4860 Nov 24 01:17	30° <b>Κ</b> 1 29° <b>Υ</b> 46'31	
	4855 Sep 05 04:50 4855 Oct 21 02:51	0∘ <b>ʊ</b> 0 ıılı		direct	4860 Nov 29 20:19	0° <b>8</b>	
	4855 Dec 08 08:28	0°M		asc. node	4860 Dec 23 19:36	5° <b>8</b> 09'21	
	4856 Jan 29 02:10	0° <b>x</b> 7⊓		asc. Houc	4861 Feb 13 10:27	0°Ⅱ	
	4856 Apr 01 18:10	∘ੰਤ			4861 Apr 03 19:09	0₀ ⊙ <b>T</b>	
desc. node	4856 May 10 00:40	8° <b>る</b> 02'05			4861 May 21 05:51	$0 {\circ} \Omega$	
retrograde	4856 May 12 02:10	8° <b>そ</b> 03'38			4861 Jul 07 18:10	0° m)	
opposition	4856 Jun 18 02:19	0° <b>る</b> 03'03	-1°35'54		4861 Aug 24 12:53	0∘ <b>⊽</b>	
· PP	4856 Jun 18 05:36	30°R. <b>✓</b>		evening set	4861 Sep 25 00:48	19° <b>≏</b> 48'45	
greatest brilliancy	4856 Jun 18 11:55	29° <b>₹</b> 54'08	-1.8m	C	4861 Oct 11 03:17	0°M	
min. Earth dist.	4856 Jun 25 07:13	27° <b>∡</b> ¹22'45	0.57077 AU	max. Earth dist.	4861 Oct 29 13:33	11°M43'54	2.66695 AU
direct	4856 Jul 28 11:27	20° <b>∡</b> ¹27'32					
	4856 Sep 07 20:33	0°ರ		conjunction	4861 Nov 09 01:55	18°M28'18	0°27'11
	4856 Nov 01 14:51	0° <b>≈</b>		minimum elong	4861 Nov 09 02:42	18°M29'34	0°27'10
	4856 Dec 14 18:33	0° <b>ℋ</b>			4861 Nov 26 22:21	0°⊀	
	4857 Jan 23 13:15	$0$ ° $\mathbf{\Upsilon}$		morning rise	4861 Dec 23 08:20	17° <b>∡</b> 17'46	
	4857 Mar 03 07:57	$9^{\circ}$ 8		desc. node	4861 Dec 30 21:36	22° <b>҂</b> 17'52	
asc. node	4857 Mar 20 21:29	13° <b>8</b> 32'28			4862 Jan 11 10:44	0°ಕ	
	4857 Apr 11 11:41	$\Pi^{\circ}0$			4862 Feb 24 12:11	0° <b>≈</b>	
	4857 May 21 22:33	0ಂ <b>ತಾ</b>			4862 Apr 08 03:41	0° <b>∀</b>	
	4857 Jul 03 05:12	0° <b>Ω</b>			4862 May 19 15:43	0° <b>Υ</b>	
evening set	4857 Jul 05 07:11	1° <b>Ω</b> 26'32			4862 Jun 29 14:35	0° <b>B</b>	
	4857 Aug 16 10:54	0° <b>m</b>			4862 Aug 10 09:28	0°∏	
	4957 A 26 22-22	(0 m, 5 (11 1	1907/20	4-	4862 Sep 25 21:20	0°95	
conjunction minimum elong	4857 Aug 26 22:33 4857 Aug 26 22:14	6° m 56'11 6° m 55'39	1°07'29	asc. node	4862 Nov 10 18:38 4862 Nov 27 10:14	19° <b>©</b> 35'37 21° <b>©</b> 33'01	
max. Earth dist.	4857 Sep 13 20:09		2.62917 AU	retrograde min. Earth dist.	4862 Dec 25 21:18	15° <b>©</b> 57'29	0.47525 AU
max. Earth dist.	4857 Oct 01 09:41	0° <b>⊽</b>	2.02917 AU	greatest brilliancy	4863 Jan 02 06:12	13° <b>©</b> 3729	-2.3m
morning rise	4857 Oct 13 20:57	0 <b>—</b> 7° <b>Ω</b> 59'12		opposition	4863 Jan 03 05:23	12°958'05	2°55'23
morning rise	4857 Nov 17 15:31	0°M		direct	4863 Feb 05 11:43	6°500'08	2 33 23
	4858 Jan 04 22:31	0° <b>⊼</b> ¹			4863 Apr 21 04:09	0°N	
	4858 Feb 23 17:53	∘ੰਤ			4863 Jun 15 00:46	0° <b>m</b> )	
desc. node	4858 Mar 27 23:21	18° <b>る</b> 25'16			4863 Aug 04 19:08	0° <del>ت</del>	
	4858 Apr 18 15:38	0°≈			4863 Sep 22 16:12	0° <b>m</b>	
retrograde	4858 Jul 08 00:14	26° <b>≈</b> 17'48		evening set	4863 Oct 31 15:00	24°M44'06	
opposition	4858 Aug 09 15:40	20°≈11'02	-5°37'34	Č	4863 Nov 08 17:54	0° <b>∡</b>	
greatest brilliancy	4858 Aug 11 05:55	19° <b>≈</b> 40′28		desc. node	4863 Nov 17 20:14	5° <b>≯</b> 756'53	
min. Earth dist.	4858 Aug 17 18:17	17° <b>≈</b> 36′28	0.43996 AU	max. Earth dist.	4863 Nov 23 01:35	9° <b>∡</b> 23'15	2.60471 AU
direct	4858 Sep 14 04:58	12° <b>≈</b> 46'56					
	4858 Nov 08 04:42	0° <b>∀</b>		conjunction	4863 Dec 16 17:51	25° <b>∡</b> 12'24	-0°15'55

	40(2 D 1( 17.17	250 711127	0015155		40/0 0 4 02 02 41	00 m-	
minimum elong	4863 Dec 16 17:17	25° ₹11′27	0°15'55		4868 Oct 02 03:41	0° my	
behind sun begin	4863 Dec 16 14:04	25° ₹ 06'02			4868 Nov 18 15:36	0° <b>™</b>	
behind sun end	4863 Dec 16 20:30	25° ₹ 16'53			4869 Jan 12 16:29	0°M√	
	4863 Dec 23 19:16	0°る		retrograde	4869 Mar 18 20:00	18° <b>™</b> 41′06	
morning rise	4864 Feb 02 12:27	28° <b>る</b> 21'27		opposition	4869 Apr 27 17:00	9° <b>ጤ</b> 17'12	
	4864 Feb 04 19:47	0° <b>≈</b>		greatest brilliancy	4869 Apr 27 21:53	9° <b>™</b> 12'23	-1.3m
	4864 Mar 17 00:25	0° <b>∀</b>		min. Earth dist.	4869 Apr 29 21:11	8°M25'48	0.67311 AU
	4864 Apr 25 19:41	$0^{\circ}$ Y			4869 May 28 13:26	30° <b>ŖΩ</b>	
	4864 Jun 03 20:38	0° <b>႘</b>		direct	4869 Jun 08 04:36	29° <b>≏</b> 17'15	
	4864 Jul 13 00:21	$\Pi^{\circ}0$			4869 Jun 19 04:23	0° <b>M</b>	
	4864 Aug 22 12:33	0ಂತಾ		desc. node	4869 Jul 09 16:08	4°MJ32'02	
asc. node	4864 Sep 27 18:48	25° <b>©</b> 00'20			4869 Sep 04 13:04	0° <b>∡</b> ″	
	4864 Oct 05 12:13	$0^{\circ}\Omega$			4869 Oct 23 23:40	0°ెవ	
	4864 Nov 29 23:09	0° <b>m</b> )			4869 Dec 06 12:44	0° <b>≈</b>	
retrograde	4865 Jan 08 17:25	9° <b>m</b> 05'33			4870 Jan 15 20:48	0° <b>∀</b>	
min. Earth dist.	4865 Feb 11 20:02	•	0.59977 AU		4870 Feb 23 10:36	0° <b>Υ</b>	
mm. Earm dist.	4865 Feb 15 09:25	1 11/2407 30°RΩ	0.39911 AU			%8 0°B	
1 1111			1.6		4870 Apr 02 09:30		
greatest brilliancy	4865 Feb 16 10:43	29° <b>Ω</b> 34'57	-1.6m	evening set	4870 Apr 08 16:31	4° <b>8</b> 57'53	
opposition	4865 Feb 17 09:08	29° <b>Ω</b> 12'48	4°44'13		4870 May 10 17:31	0° <b>Ⅱ</b>	
direct	4865 Mar 26 21:18	20° <b>Ω</b> 33'50		asc. node	4870 May 20 15:38	7° <b>Ⅱ</b> 38′02	
	4865 May 09 16:46	O° <b>m</b> y					
	4865 Jul 11 17:25	0∘ <b>⊽</b>		conjunction	4870 Jun 15 16:17	27° <b>Ⅱ</b> 18'49	0°17'28
	4865 Sep 01 22:05	0°M₊		minimum elong	4870 Jun 15 14:50	27° <b>Ⅱ</b> 16′07	0°17'26
desc. node	4865 Oct 04 18:52	20°M14'45			4870 Jun 19 06:57	$0$ $\circ$ $\odot$	
	4865 Oct 20 02:19	0° <b>∡</b> ¹			4870 Jul 30 16:48	$0^{\circ}\Omega$	
	4865 Dec 04 06:03	8°0		max. Earth dist.	4870 Jul 31 23:13	0° <b>Ω</b> 53'41	2.47833 AU
evening set	4865 Dec 09 21:23	3° <b>る</b> 52'38		morning rise	4870 Aug 16 02:33	11° <b>Ω</b> 28′08	
max. Earth dist.	4865 Dec 24 08:44		2.49415 AU		4870 Sep 12 08:03	0° m)	
man. Darvir dige.	4866 Jan 15 19:35	0° <b>≈</b>	2.17110110		4870 Oct 28 09:54	0∘ <b>⊽</b>	
	1000 3411 13 17.55	0 / 0 .			4870 Dec 16 11:19	0° <b>m</b> .	
conjunction	4866 Jan 30 05:50	10° <b>≈</b> 32'35	0056149		4871 Feb 09 08:35	0° <b>⊼</b>	
		10 ≈32 33 10°≈29'44		ratra ara da		23° <b>x</b> <sup>1</sup> 13'29	
minimum elong	4866 Jan 30 04:17		0 30 40	retrograde	4871 Apr 25 21:36		
	4866 Feb 25 06:35	0° <b>)</b> ( 40112		desc. node	4871 May 27 15:38	17° <b>×</b> 704'40	001.452
morning rise	4866 Mar 29 14:09	24° <b>)</b> (48'13		opposition	4871 Jun 03 00:18	14° <b>⋌</b> ¹42'49	
	4866 Apr 05 06:34	0° <b>Υ</b>		greatest brilliancy	4871 Jun 03 01:35	14° <b>∡</b> °41'36	-1.6m
	4866 May 13 13:49	$9^{\circ}$ 8		min. Earth dist.	4871 Jun 08 21:58	12° <b>∡</b> ′27'59	0.61146 AU
	4866 Jun 21 00:52	$\Pi$ °0		direct	4871 Jul 14 03:43	4° <b>∡</b> ¹49'05	
	4866 Jul 30 14:07	0∘ <b>ௐ</b>			4871 Sep 26 14:07	0°ප	
asc. node	4866 Aug 15 17:35	11° <b>©</b> 51'07			4871 Nov 13 10:45	0° <b>≈</b>	
	4866 Sep 10 06:31	$0^{\circ}\Omega$			4871 Dec 25 03:01	0° <b>)</b> €	
	4866 Oct 25 15:44	0° <b>m</b> y			4872 Feb 02 06:58	$0^{\circ}\mathbf{\Upsilon}$	
	4866 Dec 18 17:34	0∘ <u>⊽</u>			4872 Mar 11 16:10	0°B	
retrograde	4867 Feb 13 10:06	15° <b>≏</b> 35'33		asc. node	4872 Apr 06 14:32	20° <b>8</b> 08'00	
min. Earth dist.	4867 Mar 24 03:21	6° <b>£</b> 22'32	0.66923 AU	use. Hous	4872 Apr 19 11:17	0°II	
opposition	4867 Mar 25 19:42	5° <b>Ω</b> 42'16	4°09'58		4872 May 29 13:27	0°©	
* *		5° <b>£</b> 4210	-1.3m	avanina aat	4872 Jun 14 04:16	11°S20'30	
greatest brilliancy	4867 Mar 25 13:49		-1.3111	evening set		0°Ω	
11	4867 Apr 10 08:48	30°₹ <b>™</b>			4872 Jul 10 11:51	0 82	
direct	4867 May 05 00:14	26° Mp 08'30			4072 4 00 12 01	200 027110	1000122
	4867 May 31 21:49	0∘ <b>⊽</b>		conjunction	4872 Aug 09 12:01	20° <b>Ω</b> 37'19	
	4867 Aug 09 12:11	0°M₊		minimum elong	4872 Aug 09 10:48	20° <b>Ω</b> 35′16	1°02'32
desc. node	4867 Aug 22 17:35	7°M17'33			4872 Aug 23 11:01	0° <b>m</b> )	
	4867 Sep 29 23:31	0° <b>∡</b> ¹		max. Earth dist.	4872 Sep 03 11:00	7° <b>m</b> y 18'11	2.59627 AU
	4867 Nov 15 01:31	0°ප		morning rise	4872 Sep 28 22:50	23° <b>m</b> 57'55	
	4867 Dec 27 16:16	0° <b>≈</b>			4872 Oct 08 07:28	0∘ <b>ত</b>	
evening set	4868 Jan 30 03:34	24° <b>≈</b> 54'35			4872 Nov 24 18:56	0° <b>M</b>	
	4868 Feb 05 19:49	0° <b>∀</b>			4873 Jan 12 23:28	0° <b>∡</b> 7	
max. Earth dist.	4868 Mar 14 09:16		2.37118 AU		4873 Mar 06 09:04	0°ెవ	
	4868 Mar 15 10:14	0°Υ	-	desc. node	4873 Apr 13 14:35	19° <b>る</b> 07'21	
	.000ui 10 10.14	~ I		acco. node	4873 May 11 21:23	0°≈	
conjunction	4868 Apr 02 15:29	14° <b>Y</b> °22'43	-0°54'17	retrograde	4873 Jun 13 00:51	0 ∞ 5°≈25'03	
	•	$14^{\circ}$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		renograde		3°®Z3'03 30°R <b>る</b>	
minimum elong	4868 Apr 02 18:29		0 54 15		4873 Jul 13 01:01		490212.5
	4868 Apr 22 09:31	0° <b>B</b>		opposition	4873 Jul 17 14:52	28° <b>る</b> 27'26	
	4868 May 30 15:29	0°П		greatest brilliancy	4873 Jul 18 19:46	28° <b>る</b> 02'27	
morning rise	4868 Jun 13 13:48	10° <b>Ⅱ</b> 44'25		min. Earth dist.	4873 Jul 26 03:02	25° <b>පි</b> 31'23	0.49298 AU
asc. node	4868 Jul 02 15:45	25° <b>Ⅱ</b> 13'40		direct	4873 Aug 24 16:27	19° <b>る</b> 53'41	
	4868 Jul 09 00:43	$0$ $\circ$ $\odot$			4873 Oct 04 21:53	0° <b>≈</b>	
	4868 Aug 19 07:11	$0$ $^{\circ}$ $\Omega$			4873 Nov 26 03:59	0° <b>)</b> €	

		••				_	
	4874 Jan 07 10:48	0°Υ		behind sun begin	4878 Nov 30 19:32	10° <b>∡</b> 00′39	
	4874 Feb 16 13:18	0°8		behind sun end	4878 Dec 02 09:25	11° <b>≯</b> 03'06	
asc. node	4874 Feb 22 12:27	4° <b>8</b> 29'14		desc. node	4878 Dec 04 10:35	12° <b>⊀</b> 24'22	
	4874 Mar 28 16:21	$\Pi^{\circ}0$			4878 Dec 30 17:18	0°ಕ	
	4874 May 08 22:59	0°€		morning rise	4879 Jan 16 10:26	11° <b>る</b> 25'01	
	4874 Jun 20 22:29	$0^{\circ}\Omega$			4879 Feb 12 01:47	0° <b>≈</b>	
evening set	4874 Aug 02 22:09	28° <b>Ω</b> 49'40			4879 Mar 25 17:27	0° <b>ℋ</b>	
	4874 Aug 04 16:53	0° <b>m</b>			4879 May 05 00:49	$0^{\circ}\mathbf{\Upsilon}$	
	4874 Sep 19 22:09	0∘ <b>ত</b>			4879 Jun 13 14:09	$9^{\circ}$ 8	
					4879 Jul 23 07:54	$\Pi$ $^{\circ}0$	
conjunction	4874 Sep 20 13:32	0° <b>£</b> 24'40	1°04'53		4879 Sep 02 20:11	0ං <b>ව</b>	
minimum elong	4874 Sep 20 14:12	0° <b>£</b> 25'45	1°04'53	asc. node	4879 Oct 15 10:57	27° <b>5</b> 27'43	
max. Earth dist.	4874 Sep 28 16:18	5° <b>≏</b> 36'30	2.66390 AU		4879 Oct 19 21:14	$0 {\circ} \Omega$	
morning rise	4874 Nov 04 23:04	29° <b>≏</b> 19'47		retrograde	4879 Dec 25 06:19	22° <b>Ω</b> 41'52	
	4874 Nov 06 00:27	$0^{\circ}$ M,		min. Earth dist.	4880 Jan 26 05:06	15° <b>Ω</b> 46'15	0.55611 AU
	4874 Dec 23 10:54	0° <b>∡</b> ¹		greatest brilliancy	4880 Feb 01 00:37	13° <b>Ω</b> 31'35	-1.9m
	4875 Feb 09 01:05	ರ°0		opposition	4880 Feb 02 03:33	13° <b>Ω</b> 05'30	4°27'14
desc. node	4875 Mar 01 12:57	12° <b>る</b> 50'49		direct	4880 Mar 09 04:50	4° <b>Ω</b> 59'03	
	4875 Mar 29 03:43	0° <b>≈</b>			4880 May 26 14:31	0° <b>m</b>	
	4875 May 18 04:41	0° <b>)</b> €			4880 Jul 21 00:58	0∘ <b>⊽</b>	
	4875 Jul 17 01:33	$0$ ° $\mathbf{\gamma}$			4880 Sep 09 12:45	0°M	
retrograde	4875 Aug 24 18:12	8° <b>Ƴ</b> 11'53		desc. node	4880 Oct 21 09:08	26°M16'23	
opposition	4875 Sep 23 17:53	3° <b>Ƴ</b> 13'44	-6°18'57		4880 Oct 27 03:46	0° <b>∡</b> ¹	
greatest brilliancy	4875 Sep 24 15:08	2° <b>Ƴ</b> 59'27	-2.9m	evening set	4880 Nov 23 09:54	17° <b>∡</b> ¹56'35	
min. Earth dist.	4875 Sep 27 01:52	2° <b>Y</b> 20'01	0.37733 AU	max. Earth dist.	4880 Dec 10 05:02	29° <b>∡</b> 18'11	2.54243 AU
	4875 Oct 06 11:59	30° <b>₹</b> ₩			4880 Dec 11 05:29	0°రె	
direct	4875 Oct 24 11:16	27° <b>ℋ</b> 55'55					
	4875 Nov 11 02:52	$0^{\circ}\mathbf{\Upsilon}$		conjunction	4881 Jan 11 00:58	21° <b>る</b> 29'10	-0°42'52
asc. node	4876 Jan 10 12:09	27° <b>Ƴ</b> 47'40		minimum elong	4881 Jan 10 23:30	21° <b>る</b> 26'35	0°42'51
	4876 Jan 14 03:24	0° <b>႘</b>			4881 Jan 22 22:33	0° <b>≈</b>	
	4876 Feb 29 16:06	0° <b>I</b> I			4881 Mar 04 15:32	0° <b>)</b> €	
	4876 Apr 14 13:49	0ංම		morning rise	4881 Mar 05 01:36	0° <b>₩</b> 18'57	
	4876 May 29 23:19	$0^{\circ}\Omega$		C	4881 Apr 12 21:47	$0$ $^{\circ}$ $\Upsilon$	
	4876 Jul 15 08:35	0° <b>m</b> )			4881 May 21 10:25	$9^{\circ}$ 8	
	4876 Aug 31 12:36	0∘ <u>v</u>			4881 Jun 29 01:43	0°II	
evening set	4876 Sep 10 18:20	6° <b>£</b> 28'51			4881 Aug 07 19:47	0ංම	
•	4876 Oct 17 20:58	0°M,		asc. node	4881 Sep 01 09:40	17°5946'36	
max. Earth dist.	4876 Oct 20 15:25	1°M45'38	2.67684 AU		4881 Sep 18 23:24	$0^{\circ}\Omega$	
					4881 Nov 04 22:55	0° <b>m</b>	
conjunction	4876 Oct 26 04:57	5°M18'10	0°41'03		4882 Jan 11 13:42	0∘ <b>⊽</b>	
minimum elong	4876 Oct 26 05:59	5°M19'47	0°41'03	retrograde	4882 Jan 30 23:56	2° <b>≏</b> 18'29	
_	4876 Dec 03 17:21	0° <b>∡</b> ¹		-	4882 Feb 18 09:41	30°R, M⊅	
morning rise	4876 Dec 09 04:23	3° <b>∡</b> ³31'55		min. Earth dist.	4882 Mar 09 01:48	23° m 37'10	0.64978 AU
desc. node	4877 Jan 16 11:47	28° <b>₹</b> ³36′01		opposition	4882 Mar 12 06:30	22° m 20'36	4°33'21
	4877 Jan 18 14:32	0°రె		greatest brilliancy	4882 Mar 11 18:14	22° m/32'51	-1.4m
	4877 Mar 04 08:20	0° <b>≈</b>		direct	4882 Apr 20 13:49	13° <b>m</b> 04'16	
	4877 Apr 16 23:52	0° <b>∀</b>			4882 Jun 22 01:11	0° <del>ق</del>	
	4877 May 29 20:03	$0^{\circ}\mathbf{\Upsilon}$			4882 Aug 19 00:41	0° <b>M</b> .	
	4877 Jul 11 16:50	0°8		desc. node	4882 Sep 08 08:08	11°M52'42	
	4877 Aug 26 08:35	0°Ⅲ			4882 Oct 07 18:38	0° <b>∡</b> ¹	
retrograde	4877 Nov 06 02:48	27° <b>Ⅲ</b> 07′13			4882 Nov 22 09:14	0°ප	
asc. node	4877 Nov 27 12:26	23° <b>Ⅱ</b> 53'55			4883 Jan 03 22:30	0° <b>≈</b>	
min. Earth dist.	4877 Dec 02 19:26	22° <b>Ⅱ</b> 19'05	0.42264 AU	evening set	4883 Jan 08 05:56	3° <b>≈</b> 08'30	
opposition	4877 Dec 10 15:47	19° <b>Ⅱ</b> 45'39	0°50'45	max. Earth dist.	4883 Jan 25 18:05	16° <b>≈</b> 05'10	2.41329 AU
greatest brilliancy	4877 Dec 10 08:51	19° <b>Ⅱ</b> 51'19	-2.7m		4883 Feb 13 04:22	0° <b>∀</b>	
direct	4878 Jan 11 00:32	13° <b>Ⅱ</b> 43'15					
	4878 Mar 09 11:54	0°ಅ		conjunction	4883 Mar 07 05:18	16° <b>¥</b> 58′02	-1°04'49
	4878 May 04 12:23	$0^{\circ}\Omega$		minimum elong	4883 Mar 07 05:54	16° <b>¥</b> 59'14	1°04'50
	4878 Jun 24 03:11	0° <b>m</b>		Č	4883 Mar 23 21:53	$0^{\circ}\mathbf{\Upsilon}$	
	4878 Aug 12 09:05	0∘ <b>⊽</b>			4883 Apr 30 23:35	$8^{\circ}$ 0	
	4878 Sep 29 15:10	0° <b>M</b> ₊		morning rise	4883 May 14 16:32	10° <b>8</b> 47'46	
evening set	4878 Oct 17 06:41	11° <b>M</b> 10'17		<del>-</del>	4883 Jun 08 06:32	$\Pi^{\circ}0$	
max. Earth dist.	4878 Nov 13 03:02	28°M26'05	2.63521 AU		4883 Jul 17 15:40	0°ಅ	
	4878 Nov 15 12:49	0° <b>∡</b> ¹		asc. node	4883 Jul 20 09:01	2° <b>©</b> 01'40	
					4883 Aug 27 23:10	$0^{\circ}\Omega$	
conjunction	4878 Dec 01 14:25	10° <b>∡</b> ³31'47	0°01'35		4883 Oct 11 03:02	0° <b>m</b>	
minimum elong	4878 Dec 01 14:28	10° <b>≯</b> 31'52			4883 Nov 28 22:23	0∘ <mark>ಹ</mark>	
3							

	4004 7 21 11 24	00 <b>m</b>			4000 X 17 17 45	0000	
	4884 Jan 31 11:24	0°M			4889 Jan 17 17:45	0° <b>Υ</b>	
retrograde	4884 Mar 05 07:01	6°M05'24		_	4889 Feb 25 20:47	0°8	
	4884 Apr 05 08:05	30° <b>₹</b> Ω		asc. node	4889 Mar 11 06:32	10° <b>8</b> 16'29	
opposition	4884 Apr 14 12:32	26° <b>≏</b> 27'18			4889 Apr 06 06:37	0°П	
greatest brilliancy	4884 Apr 14 14:34	26° <b>£</b> 25'17			4889 May 16 22:28	0°95	
min. Earth dist.	4884 Apr 15 04:54	26° <b>≙</b> 11'04	0.67959 AU		4889 Jun 28 09:24	$0$ $\circ$ $\Omega$	
direct	4884 May 25 16:17	16° <b>≙</b> 34'18		evening set	4889 Jul 16 05:19	12° <b>Ω</b> 12'31	
	4884 Jul 18 16:18	0°M			4889 Aug 11 18:05	0° <b>m</b> )	
desc. node	4884 Jul 26 07:31	3°M21'09					
	4884 Sep 14 16:09	0° <b>∡</b> ″		conjunction	4889 Sep 05 05:23	16° Mp 04'23	1°07'50
	4884 Nov 01 06:54	0°₹		minimum elong	4889 Sep 05 05:29	16° Mp 04'33	1°07'51
	4884 Dec 14 07:52	0° <b>≈</b>		max. Earth dist.	4889 Sep 19 13:06	25° TD 21'23	2.64377 AU
	4885 Jan 23 12:40	0° <b>∀</b>			4889 Sep 26 18:05	0∘ <b>⊽</b>	
	4885 Mar 03 01:36	$0$ ° $\mathbf{\gamma}$		morning rise	4889 Oct 22 01:58	16° <b>£</b> 11'16	
evening set	4885 Mar 10 19:37	6° <b>Ƴ</b> 07'00			4889 Nov 12 21:34	$0^{\circ}$ M	
	4885 Apr 09 23:44	0°8			4889 Dec 30 19:28	0° <b>∡</b>	
	4885 May 18 06:00	$\Pi$ $\circ 0$			4890 Feb 17 15:15	0° <b>ろ</b>	
				desc. node	4890 Mar 18 03:38	17° <b>る</b> 01'37	
conjunction	4885 May 19 03:51	0° <b>Ⅱ</b> 42'19	-0°12'30		4890 Apr 09 16:04	0° <b>≈</b>	
minimum elong	4885 May 19 05:06	0° <b>Ⅱ</b> 44'43	0°12'29		4890 Jun 08 18:46	0° <b>∀</b>	
behind sun begin	4885 May 18 10:16	0° <b>Ⅱ</b> 08'16		retrograde	4890 Jul 23 23:18	10° <b>∺</b> 20′25	
behind sun end	4885 May 19 23:55	1° <b>Ⅱ</b> 21′09		opposition	4890 Aug 24 14:00	4° <b>)</b> 43′13	-6°17'10
asc. node	4885 Jun 06 07:13	14° <b>Ⅲ</b> 38′13		greatest brilliancy	4890 Aug 26 03:56	4° <b>) (</b> 14'44	-2.6m
	4885 Jun 26 16:37	$0$ $\circ$ $\odot$		min. Earth dist.	4890 Aug 31 17:21	2° <b>升</b> 35'37	0.41286 AU
max. Earth dist.	4885 Jul 10 16:07	10° <b>©</b> 19'37	2.42357 AU		4890 Sep 10 18:38	30° <b>₹</b> ≈	
morning rise	4885 Jul 25 08:08	20° <b>©</b> 58'38		direct	4890 Sep 27 08:05	28° <b>≈</b> 07'01	
	4885 Aug 06 23:40	$0^{\circ}\Omega$			4890 Oct 13 23:57	0° <b>)</b> €	
	4885 Sep 19 14:24	0° <b>m</b>			4890 Dec 16 04:36	$0^{\circ}$ Y	
	4885 Nov 04 23:45	0∘ <b>ত</b>		asc. node	4891 Jan 27 05:01	28° <b>Ƴ</b> 15'50	
	4885 Dec 25 08:50	0°M,			4891 Jan 29 16:34	0°B	
	4886 Feb 25 02:57	0° <b>∡</b> ¹			4891 Mar 13 03:49	$\Pi^{\circ}0$	
retrograde	4886 Apr 10 06:44	9° <b>∡</b> ¹29'08			4891 Apr 25 00:33	0°€	
opposition	4886 May 19 06:18	0° <b>҂</b> ³34'03	0°55'18		4891 Jun 08 03:57	$0^{\circ}\Omega$	
greatest brilliancy	4886 May 19 10:19	0° <b>∡</b> ³30′10	-1.5m		4891 Jul 23 17:54	0° <b>m</b> )	
	4886 May 20 17:25	30°RM₊		evening set	4891 Aug 27 22:20	22° m/38'55	
min. Earth dist.	4886 May 23 17:45	28°M50'01	0.64343 AU	C	4891 Sep 08 10:40	0∘ <mark>⊽</mark>	
desc. node	4886 Jun 13 06:15	22°M18'21			1		
direct	4886 Jun 29 18:48	20°M32'25		conjunction	4891 Oct 13 05:33	22° <b>♀</b> 07'34	0°52'36
	4886 Aug 11 14:36	0° <b>√</b>		minimum elong	4891 Oct 13 06:36	22° <b>≏</b> 09'15	0°52'37
	4886 Oct 08 11:44	0°ರ		max. Earth dist.	4891 Oct 12 18:00	21° <b>≏</b> 49'14	2.67826 AU
	4886 Nov 22 19:36	0° <b>≈</b>			4891 Oct 25 14:56	0°M	
	4887 Jan 02 17:47	0° <b>)</b> €		morning rise	4891 Nov 26 09:51	20°M15'31	
	4887 Feb 10 13:25	$_0$ $^{\circ}$ $^{\circ}$		Ü	4891 Dec 11 14:47	0° <b>∡</b> ¹	
	4887 Mar 20 16:35	0°8			4892 Jan 27 00:12	ರ°0	
asc. node	4887 Apr 24 06:45	26° <b>8</b> 57'41		desc. node	4892 Feb 03 02:24	4° <b>る</b> 37'45	
	4887 Apr 28 05:31	0°Ⅲ			4892 Mar 12 16:31	0° <b>≈</b>	
evening set	4887 May 22 03:08	18° <b>Ⅱ</b> 09′29			4892 Apr 26 19:54	0° <b>)</b> €	
•	4887 Jun 07 00:56	0ಂತಾ			4892 Jun 11 00:27	$0^{\circ}\mathbf{\Upsilon}$	
	4887 Jul 18 16:50	$0^{\circ}\Omega$			4892 Jul 28 11:29	0°B	
				retrograde	4892 Oct 11 17:24	28° <b>8</b> 11'28	
conjunction	4887 Jul 22 01:07	2° <b>Ω</b> 20'44	0°51'08	min. Earth dist.	4892 Nov 07 07:12	23° <b>8</b> 47'01	0.38258 AU
minimum elong	4887 Jul 21 23:05	2° <b>Ω</b> 17'12		opposition	4892 Nov 12 11:49	22° <b>8</b> 18'15	
max. Earth dist.	4887 Aug 23 20:20		2.55556 AU	greatest brilliancy	4892 Nov 12 03:58	22° <b>8</b> 23'52	
	4887 Aug 31 11:10	0° <b>m</b> )		direct	4892 Dec 12 04:31	17° <b>8</b> 08'44	
morning rise	4887 Sep 13 22:18	8° m 56'53		asc. node	4892 Dec 14 04:04	17° <b>8</b> 10'17	
. <i>8</i>	4887 Oct 16 07:22	$0 \circ \overline{\mathbf{v}}$			4893 Jan 30 03:25	0°Щ	
	4887 Dec 03 04:11	0°M			4893 Mar 26 19:38	0ಂತಾ	
	4888 Jan 22 17:14	0° <b>⊼</b> ¹			4893 May 15 02:43	$0^{\circ}\Omega$	
	4888 Mar 20 01:35	0° <b>ਨ</b>			4893 Jul 02 11:20	0° m)	
desc. node	4888 Apr 30 04:56	14° <b>る</b> 51'03			4893 Aug 19 16:35	0∘ <b>⊽</b>	
retrograde	4888 May 22 19:57	17° <b>る</b> 39'52		evening set	4893 Oct 03 03:15	27° <b>≏</b> 52'37	
opposition	4888 Jun 28 02:04	9° <b>ප</b> 59'19	-2°27'29	<b>3</b>	4893 Oct 06 11:50	0°M	
greatest brilliancy	4888 Jun 28 18:07	9° <b>る</b> 44'43		max. Earth dist.	4893 Nov 03 20:43		2.65781 AU
min. Earth dist.		1.1.13		WIDE.	222 2.0. 05 20.15	-5 1100102	, 0.1 110
		7° <b>る</b> 08'52	0.54482 AU				
	4888 Jul 05 21:37	7°る08'52 0°る40'11	0.54482 AU	conjunction	4893 Nov 17 03:50	26°M₃39'26	0°18'10
direct	4888 Jul 05 21:37 4888 Aug 06 19:57	0° <b>ප්</b> 40'11	0.54482 AU	conjunction minimum elong	4893 Nov 17 03:50 4893 Nov 17 04:23	26°M39'26 26°M40'19	0°18'10 0°18'10
	4888 Jul 05 21:37		0.54482 AU	conjunction minimum elong	4893 Nov 17 03:50 4893 Nov 17 04:23 4893 Nov 22 07:29	26°M39'26 26°M40'19 0°⊀	0°18'10 0°18'10

	1000 0 01 01 00	100 350110			4000 7 1 21 01 07	222 2 25151	
desc. node	4893 Dec 21 01:29	18° <b>≯</b> 52'43		retrograde	4899 Feb 21 01:07	23° <b>£</b> 27'51	
morning rise	4893 Dec 31 19:47	26° <b>₺</b> 03'07		opposition	4899 Apr 02 10:25	13° <b>≏</b> 39'01	3°51'44
	4894 Jan 06 16:59	0° <b>ප</b>		greatest brilliancy	4899 Apr 02 07:46	13° <b>≏</b> 41'39	-1.3m
	4894 Feb 19 12:00	0° <b>≈</b>		min. Earth dist.	4899 Apr 01 14:34	13° <b>≏</b> 58'47	0.67587 AU
	4894 Apr 02 18:24	0° <b>∀</b>		direct	4899 May 13 00:25	3° <b>≏</b> 57'13	
	4894 May 13 18:43	$0^{\circ}\Upsilon$			4899 Aug 02 08:13	$0^{\circ}$ M	
	4894 Jun 23 02:55	0°8		desc. node	4899 Aug 12 21:57	5°M30'39	
	4894 Aug 02 21:34	0°II		dese. Hode	4899 Sep 24 12:07	0° <b>∡</b> 7	
	-				•		
	4894 Sep 15 14:02	0°€			4899 Nov 10 02:03	0°る	
asc. node	4894 Nov 01 04:18	25° <b>©</b> 25'42			4899 Dec 22 20:39	0° <b>≈</b>	
	4894 Nov 13 19:11	$0 {\circ} \Omega$			4900 Feb 01 01:07	0° <b>)</b> €	
retrograde	4894 Dec 08 03:04	3° <b>Ω</b> 57'37		evening set	4900 Feb 12 20:08	9° <b>)</b> €04'23	
	4894 Dec 31 15:07	30° <b>ℝ</b>			4900 Mar 11 15:08	$0^{\circ}\Upsilon$	
min. Earth dist.	4895 Jan 06 18:47	27° <b>©</b> 53'33	0.50503 AU		4900 Apr 18 13:49	0° <b>႘</b>	
opposition	4895 Jan 14 19:45	24° <b>©</b> 54'42	3°40'59		r		
greatest brilliancy	4895 Jan 13 16:44	25° <b>©</b> 19'48	-2.1m	conjunction	4900 Apr 20 05:20	1° <b>8</b> 18'05	0°41'55
		17° <b>©</b> 29'49	-2.1111		•	1° <b>8</b> 24'49	
direct	4895 Feb 18 03:51			minimum elong	4900 Apr 20 08:45		0-41-54
	4895 Apr 09 14:42	$0$ $\circ$ $\Omega$			4900 May 26 19:19	$\Pi$ °0	
	4895 Jun 08 10:18	0° <b>m</b> ∕		max. Earth dist.	4900 May 27 11:59	0° <b>Ⅱ</b> 32′20	2.37443 AU
	4895 Jul 30 11:02	0∘ <b>⊽</b>		asc. node	4900 Jun 24 01:07	21° <b>Ⅱ</b> 38'46	
	4895 Sep 17 20:09	0°M₊		morning rise	4900 Jun 30 17:26	26° <b>Ⅱ</b> 40'43	
	4895 Nov 04 02:20	0° <b>∡</b> ¹			4900 Jul 05 03:54	0°ಲಾ	
desc. node	4895 Nov 08 00:37	2° <b>∡</b> ³33'24			4900 Aug 15 09:05	$0^{\circ}\Omega$	
evening set	4895 Nov 09 00:59	3° <b>х</b> 13′09			4900 Sep 28 01:22	0° my	
max. Earth dist.			2.58436 AU		4900 Nov 13 23:39	0° <b>ت</b> مال	
max. Earm dist.	4895 Nov 29 06:08	16° <b>₹</b> 33'49	2.36430 AU				
	4895 Dec 19 04:04	0°ಕ			4901 Jan 05 15:07	0°M	
				retrograde	4901 Mar 27 18:58	26° <b>™</b> 27'58	
conjunction	4895 Dec 25 20:46	4° <b>る</b> 35'14	-0°26'06	opposition	4901 May 06 09:57	17° <b>™</b> 13'19	1°55'39
minimum elong	4895 Dec 25 19:50	4° <b>る</b> 33'38	0°26'05	greatest brilliancy	4901 May 06 15:22	17° <b>M</b> 08'01	-1.4m
	4896 Jan 31 01:56	0° <b>≈</b>		min. Earth dist.	4901 May 09 10:15	16°M₀02'29	0.66532 AU
morning rise	4896 Feb 13 04:10	9° <b>≈</b> 26'23		direct	4901 Jun 16 23:50	7° <b>M</b> 11'07	
	4896 Mar 12 02:22	0° <b>)</b> €		desc. node	4901 Jun 30 20:44	8°M19'02	
		0°Υ		dese. Hode	4901 Aug 28 20:13	0° <b>₹</b>	
	4896 Apr 20 16:35				•		
	4896 May 29 12:33	0°8			4901 Oct 19 05:31	0°る	
	4896 Jul 07 10:45	$\Pi$ °0			4901 Dec 02 07:15	0° <b>≈</b>	
	4896 Aug 16 13:54	0			4902 Jan 11 19:59	0° <b>∀</b>	
asc. node	4896 Sep 18 02:20	22°956'41			4902 Feb 19 11:36	$0^{\circ}$ Y	
	4896 Sep 28 14:59	$0 {\circ} \Omega$			4902 Mar 29 11:41	0°8	
	4896 Nov 18 02:33	o° mp		evening set	4902 Apr 25 21:54	21° <b>8</b> 30'24	
retrograde	4897 Jan 17 01:28	18° <b>m</b> 09'35			4902 May 06 20:56	0°Щ	
min. Earth dist.	4897 Feb 21 06:49	10° mp 05'05	0.62031 AU	asc. node	4902 May 12 00:14	3° <b>П</b> 57'23	
		-		asc. node	•		
opposition	4897 Feb 25 23:45	8° Mp 12'58			4902 Jun 15 11:36	0	
greatest brilliancy	4897 Feb 25 04:50	8°m/31'46	-1.5m				
	4897 Mar 25 21:38	$30^\circ$ R $\Omega$		conjunction	4902 Jun 30 17:07	11° <b>©</b> 11'39	0°31'56
direct	4897 Apr 05 04:36	29° <b>Ω</b> 19'02		minimum elong	4902 Jun 30 14:59	11° <b>©</b> 07'45	0°31'54
	4897 Apr 15 21:20	0° <b>m</b> y			4902 Jul 26 22:30	$\mathfrak{O}^{\circ}\mathfrak{O}$	
	4897 Jul 04 19:29	0∘ <b>⊽</b>		max. Earth dist.	4902 Aug 11 01:46	10° <b>Ω</b> 35′13	2.50732 AU
	4897 Aug 27 13:13	0°M		morning rise	4902 Aug 28 03:42	22°Ω18'13	
desc. node	4897 Sep 24 23:14	17° <b>M</b> 13'47			4902 Sep 08 13:25	0° my	
	4897 Oct 15 05:32	0° <b>√</b>			4902 Oct 24 11:22	0° <b>⊽</b>	
	4897 Nov 29 13:26	0°る			4902 Dec 11 22:50	0° <b>™</b>	
evening set	4897 Dec 19 21:23	14° <b>る</b> 06'21			4903 Feb 02 16:43	0° <b>∡</b>	
max. Earth dist.	4898 Jan 02 19:28	23° <b>る</b> 59'51	2.46567 AU		4903 Apr 17 14:04	0°₹	
	4898 Jan 11 03:17	0° <b>≈</b>		retrograde	4903 May 06 10:25	1° <b>る</b> 59'16	
				desc. node	4903 May 18 19:27	1° <b>ろ</b> 02'01	
conjunction	4898 Feb 11 06:02	22°≈59'19	-1°02'21		4903 May 24 06:07	30°R. <b>✓</b>	
minimum elong	4898 Feb 11 04:52	22° <b>≈</b> 57'08		opposition	4903 Jun 12 23:29	23° <b>х</b> 44′26	-1°00'25
violig	4898 Feb 20 12:45	0° <b>∀</b>		greatest brilliancy	4903 Jun 13 05:06	23° <b>х</b> 44 20	
		0 χ 0°Υ					
	4898 Mar 31 10:16			min. Earth dist.	4903 Jun 19 15:09	21° 🗷 14'24	0.59011 AU
morning rise	4898 Apr 14 05:35	10° <b>Y</b> 48'42		direct	4903 Jul 23 18:29	13° <b>∡</b> ′58'57	
	4898 May 08 15:04	0°8			4903 Sep 17 21:56	0°る	
	4898 Jun 15 23:52	$\Pi$ $^{\circ}0$			4903 Nov 07 21:44	0° <b>≈</b>	
	4898 Jul 25 10:16	$0$ $\circ$ $\odot$			4903 Dec 20 09:06	0° <b>∀</b>	
asc. node	4898 Aug 06 00:46	8°\$34'40			4904 Jan 28 20:54	$0^{\circ}$ Y	
	4898 Sep 04 21:21	$0^{\circ}\Omega$			4904 Mar 07 10:45	0°8	
	4898 Oct 19 15:15	0° m)		asc. node	4904 Mar 28 22:23	16° <b>8</b> 37'57	
	4898 Dec. 09 21:24	Ω°Ω		300. 11000	4904 Apr. 15 00:42	10 <b>O</b> 3737	

4904 Apr 15 09:42

 $\Pi^\circ 0$ 

4898 Dec 09 21:24

0∘**⊽** 

	4904 May 25 15:18	0°©			4909 Jul 04 22:27	0°8	
evening set	4904 Jun 27 11:27 4904 Jul 06 16:55	23° <b>©</b> 32'27 0° <b>Ω</b>			4909 Aug 16 20:44 4909 Oct 06 12:40	0°© 10°0	
	4904 Aug 19 18:19	0° <b>m</b> y		asc. node	4909 Nov 18 19:27	11°956'55	
	1,0111111111111111111111111111111111111	v .y		retrograde	4909 Nov 19 14:55	11°957'13	
conjunction	4904 Aug 20 15:26	0°m/35'10	1°06'07	min. Earth dist.	4909 Dec 17 04:11	6°5944'46	0.45111 AU
minimum elong	4904 Aug 20 14:45	0°M 34'01	1°06'06	opposition	4909 Dec 25 12:41	3° <b>©</b> 51'38	2°10'09
max. Earth dist.	4904 Sep 10 13:57	14° <b>m</b> 24'16	2.61548 AU	greatest brilliancy	4909 Dec 24 18:48	4°907'07	-2.5m
	4904 Oct 04 14:58	0∘ <b>ত</b>			4910 Jan 06 21:49	30°RⅡ	
morning rise	4904 Oct 08 14:24	2° <b>£</b> 33'19		direct	4910 Jan 26 21:55	27° <b>Ⅱ</b> 17'46	
	4904 Nov 20 22:03	0°M 0°. <b>₹</b>			4910 Feb 17 03:57	0° <b>©</b>	
	4905 Jan 08 12:44 4905 Feb 28 06:04	0°る			4910 Apr 27 13:09 4910 Jun 19 05:57	0° <b>Ω</b> 0° <b>m</b>	
desc. node	4905 Apr 04 17:57	0 3 19° <b>る</b> 24'21			4910 Juli 19 03.37 4910 Aug 08 07:14	0∘ <b>ত</b> بالا	
dese. Hode	4905 Apr 26 09:51	0°≈			4910 Sep 25 21:48	0° <b>m</b> ₊	
retrograde	4905 Jun 27 14:26	17° <b>≈</b> 14'21		evening set	4910 Oct 26 10:26	19° <b>M</b> 20'44	
opposition	4905 Jul 31 03:14	10° <b>≈</b> 43'49	-4°58'40	Č	4910 Nov 11 22:23	0° <b>∡</b> ¹	
greatest brilliancy	4905 Aug 01 14:26	10° <b>≈</b> 14'32	-2.3m	max. Earth dist.	4910 Nov 19 20:01	5° <b>₹</b> 09'25	2.61940 AU
min. Earth dist.	4905 Aug 08 13:57	7° <b>≈</b> 55'56	0.46352 AU	desc. node	4910 Nov 25 14:55	8° <b>∡</b> 757′27	
direct	4905 Sep 05 21:47	2° <b>≈</b> 45′23					
	4905 Nov 17 14:42	0° <b>∀</b>		conjunction	4910 Dec 11 02:51	19° <b>≯</b> 14'23	
	4906 Jan 01 05:45	0° <b>Υ</b>		minimum elong	4910 Dec 11 02:33	19° <b>∡</b> 13'53	0°08'33
	4906 Feb 11 06:45	0°8		behind sun begin	4910 Dec 10 09:53	18° 🖈 46'03	
asc. node	4906 Feb 13 21:47 4906 Mar 23 23:36	1° <b>8</b> 56'32 0° <b>Ⅱ</b>		behind sun end	4910 Dec 11 19:13 4910 Dec 27 02:12	19° <b>メ</b> 41'43 0°る	
	4906 May 04 16:02	0ಂ <b>ತಾ</b>		morning rise	4910 Dec 27 02:12 4911 Jan 26 21:55	0 る 21°る15'52	
	4906 Jun 16 22:59	0°N		morning rise	4911 Feb 08 07:08	0°≈	
	4906 Jul 31 22:41	0° my			4911 Mar 21 17:29	0° <b>)</b> €	
evening set	4906 Aug 13 07:35	8° m 04'42			4911 Apr 30 18:22	$0^{\circ}\mathbf{\Upsilon}$	
	4906 Sep 16 07:04	0∘ <b>⊽</b>			4911 Jun 09 00:27	$9^{\circ}$ 8	
					4911 Jul 18 09:08	$\Pi^{\circ}0$	
conjunction	4906 Sep 29 23:01	8° <b>£</b> 44'09	1°01'20		4911 Aug 28 04:21	0ංම	
minimum elong	4906 Sep 29 23:54	8° <b>Ω</b> 45'33	1°01'20	asc. node	4911 Oct 06 19:30	26°945'07	
max. Earth dist.	4906 Oct 04 22:18		2.67133 AU		4911 Oct 12 00:35	0° <b>N</b>	
morning rise	4906 Nov 02 09:18 4906 Nov 13 19:00	0° <b>ጤ</b> 7° <b>ጤ</b> 14'16		ratragrada	4911 Dec 14 14:42 4912 Jan 04 07:16	0° Ту 2° Ту 45'58	
morning rise	4906 Nov 13 19:00 4906 Dec 19 15:08	0° <b>∡</b>		retrograde	4912 Jan 23 23:43	2 11/43 38 30°RΩ	
	4907 Feb 04 17:08	0°ਤ		min. Earth dist.	4912 Feb 06 11:01	25° <b>Ω</b> 24'07	0.58129 AU
desc. node	4907 Feb 20 17:25	10°る13'24		opposition	4912 Feb 12 15:19	22° <b>Ω</b> 58'55	
	4907 Mar 23 17:49	0°≈		greatest brilliancy	4912 Feb 11 14:32	23° <b>Ω</b> 23'15	
	4907 May 10 09:02	0° <b>∀</b>		direct	4912 Mar 20 12:35	14° <b>£</b> 33′23	
	4907 Jun 29 23:50	$0^{\circ}\Upsilon$			4912 May 17 21:54	0°Щ	
retrograde	4907 Sep 13 03:25	26° <b>Y</b> 16'45			4912 Jul 15 23:30	0ಂ <b>ರಾ</b>	
opposition	4907 Oct 13 05:42	21°Υ17'42			4912 Sep 05 10:10	0°M	
greatest brilliancy	4907 Oct 13 11:06	21° <b>Υ</b> 14'07		desc. node	4912 Oct 12 13:22	23°M03'21	
min. Earth dist. direct	4907 Oct 13 08:34 4907 Nov 11 22:08	21° <b>Υ</b> 15'48 16° <b>Υ</b> 21'39	0.36983 AU	evening set	4912 Oct 23 09:34 4912 Dec 03 15:08	0° <b>҂</b> 27° <b>҂</b> 18'36	
direct	4907 Nov 11 22:08 4907 Dec 31 06:32	0° <b>8</b>		evening set	4912 Dec 03 13:08 4912 Dec 07 13:47	27 <b>メ</b> 1830	
asc. node	4908 Jan 01 20:47	0° <b>8</b> 45'57		max. Earth dist.	4912 Dec 18 21:35	7° <b>る</b> 48'13	2.51642 AU
	4908 Feb 22 02:11	0° <b>П</b>			4913 Jan 19 05:58	0° <b>≈</b>	
	4908 Apr 09 00:04	0°€					
	4908 May 25 09:13	$0^{\circ}\Omega$		conjunction	4913 Jan 22 15:03	2° <b>≈</b> 26'36	-0°51'24
	4908 Jul 11 07:44	0° <b>™</b>		minimum elong	4913 Jan 22 13:27	2° <b>≈</b> 23'43	0°51'23
	4908 Aug 27 19:14	0∘ <b>ত</b>			4913 Feb 28 20:37	0° <b>∺</b>	
evening set	4908 Sep 19 23:21	14° <b>Ω</b> 36'50		morning rise	4913 Mar 19 09:17	14° <b>)</b> €05'42	
may Earth dist	4908 Oct 14 06:48	0°M	2 67246 ATT		4913 Apr 08 23:54	0°Υ 0°Υ	
max. Earth dist.	4908 Oct 26 19:40	/ 11638/24	2.67246 AU		4913 May 17 09:34 4913 Jun 24 22:05	0°H 8°0	
conjunction	4908 Nov 04 03:15	13°M17'02	0°33'11		4913 Juli 24 22:03 4913 Aug 03 12:07	0°©	
minimum elong	4908 Nov 04 04:09	13°M18'28		asc. node	4913 Aug 23 18:40	14°5548'49	
3	4908 Nov 30 02:47	0° <b>∡</b> 7			4913 Sep 14 06:50	0°N	
morning rise	4908 Dec 18 05:04	11° <b>∡</b> ⁴46'39			4913 Oct 30 02:27	0° <b>m</b>	
desc. node	4909 Jan 07 16:19	25° <b>≯</b> 15'30			4913 Dec 26 00:20	0° <b>⊽</b>	
	4909 Jan 14 19:37	%ට		retrograde	4914 Feb 08 18:22	10° <b>£</b> 29'22	
	4909 Feb 28 04:28	0° <b>≈</b>		min. Earth dist.	4914 Mar 18 18:38	1° <b>£</b> 29'42	
	4909 Apr 12 06:24	0° <b>)</b> €		opposition	4914 Mar 21 02:49		4°21'03
	4909 May 24 07:07	$0$ ° $\mathbf{\gamma}$		greatest brilliancy	4914 Mar 20 18:14	0° <b>ჲ</b> 42'09	-1.4m

	4914 Mar 22 12:28	30°R, Mp		asc. node	4919 Apr 15 15:38	23° <b>8</b> 22'15	
direct	4914 Apr 29 22:01	21°Mp06'58			4919 Apr 24 06:39	$\Pi^{\circ}0$	
	4914 Jun 11 16:42	0∘ <b>⊽</b>			4919 Jun 03 04:37	0°©	
	4914 Aug 13 20:30	0°M		evening set	4919 Jun 06 02:19	2° <b>©</b> 08'02	
desc. node	4914 Aug 30 12:14	9° <b>™</b> 25'59		Ü	4919 Jul 14 22:40	$0^{\circ}\Omega$	
	4914 Oct 03 14:33	0° <b>₹</b> ¹					
	4914 Nov 18 13:13	0°る		conjunction	4919 Aug 03 08:49	13° <b>Ω</b> 28'26	0°58'33
	4914 Dec 31 04:36	0° <b>≈</b>		minimum elong	4919 Aug 03 07:14	13° <b>Ω</b> 25'43	0°58'32
evening set	4915 Jan 21 06:10	15° <b>≈</b> 31'20		minimum ciong	4919 Aug 27 18:16	0° m)	0 3032
evening set		0° <b>∺</b>		may Earth dist	•	2°Mp36'20	2 57000 ATT
may Earth dist	4915 Feb 09 10:14 4915 Feb 16 03:14		2.38700 AU	max. Earth dist.	4919 Aug 31 15:53 4919 Sep 24 05:27		2.57898 AU
max. Earth dist.		5 πus 13	2.38/00 AU	morning rise	•	18° Mp 08'25	
	4915 Mar 20 02:28	O-Y			4919 Oct 12 13:13	ი∘ <b>ফ</b>	
					4919 Nov 29 03:16	0° <b>™</b>	
conjunction	4915 Mar 23 05:57	2° <b>Υ</b> ′28'21			4920 Jan 17 19:13	0° <b>∡</b>	
minimum elong	4915 Mar 23 08:01	2° <b>Y</b> '32'25	1°00'39		4920 Mar 11 18:49	0° <b>ろ</b>	
	4915 Apr 27 02:44	0°8		desc. node	4920 Apr 21 09:20	18° <b>る</b> 26'24	
morning rise	4915 Jun 02 06:31	28° <b>8</b> 22'41		retrograde	4920 Jun 04 10:56	27° <b>る</b> 53'50	
	4915 Jun 04 08:38	$\Pi$ $\circ 0$		opposition	4920 Jul 09 19:15	20° <b>る</b> 35'57	-3°21'44
asc. node	4915 Jul 11 16:45	28° <b>Ⅲ</b> 30′16		greatest brilliancy	4920 Jul 10 18:33	20° <b>る</b> 15'16	-2.0m
	4915 Jul 13 16:44	$0$ $\circ$ $\odot$		min. Earth dist.	4920 Jul 18 01:48	17° <b>る</b> 39'57	0.51663 AU
	4915 Aug 23 21:59	$0^{\circ}\Omega$		direct	4920 Aug 17 16:54	11° <b>る</b> 38'57	
	4915 Oct 06 19:20	0° <b>m</b> )			4920 Oct 15 06:11	0° <b>≈</b>	
	4915 Nov 23 15:56	0∘ <u>v</u>			4920 Dec 02 04:42	0° <b>)</b> €	
	4916 Jan 19 21:04	0°M₊			4921 Jan 12 12:28	0° <b>Υ</b>	
retrograde	4916 Mar 14 00:30	13° <b>M</b> 47'57			4921 Feb 21 02:52	0°8	
opposition	4916 Apr 23 01:51	4°M17'26	2947!10	asc. node	4921 Mar 02 13:19	7° <b>8</b> 10'02	
11	•			asc. node		7 <b>В</b> 10 02	
greatest brilliancy	4916 Apr 23 05:43	4°M.13'36			4921 Apr 01 20:53	0. о п	
min. Earth dist.	4916 Apr 24 14:26		0.67726 AU		4921 May 12 19:28		
	4916 May 04 07:03	30° <b>₹</b> Ω			4921 Jun 24 11:54	0° <b>N</b>	
direct	4916 Jun 03 10:23	24° <b>Ω</b> 19'56		evening set	4921 Jul 27 12:40	22° <b>Ω</b> 21'42	
	4916 Jul 06 09:43	0° <b>M</b>			4921 Aug 08 00:46	0° <b>™</b>	
desc. node	4916 Jul 17 11:05	3° <b>™</b> 50'14					
	4916 Sep 09 05:53	0° <b>⊀</b>		conjunction	4921 Sep 15 02:41	24° <b>m</b> 50'55	1°06'37
	4916 Oct 27 22:12	0°₹		minimum elong	4921 Sep 15 03:09	24° <b>m</b> 51'40	1°06'37
	4916 Dec 10 07:18	0° <b>≈</b>			4921 Sep 23 02:44	0∘ <b>⊽</b>	
	4917 Jan 19 15:05	0° <b>∀</b>		max. Earth dist.	4921 Sep 25 23:36	1° <b>≏</b> 50'33	2.65600 AU
	4917 Feb 27 04:57	$0^{\circ}$ Y		morning rise	4921 Oct 31 01:50	24° <b>₽</b> 13′08	
evening set	4917 Mar 27 22:26	22° <b>Y</b> '42'59			4921 Nov 09 04:50	0° <b>M</b> ₊	
	4917 Apr 06 03:21	0°8			4921 Dec 26 19:46	0° <b>∡</b> ¹	
	4917 May 14 09:56	$\Pi^{\circ}$			4922 Feb 12 21:31	8°0	
asc. node	4917 May 28 16:27	10° <b>Ⅱ</b> 59'08		desc. node	4922 Mar 09 07:52	15° <b>る</b> 02'30	
use. noue	.517 May 20 10.27	10 200		dese. node	4922 Apr 03 01:34	0° <b>≈</b>	
conjunction	4917 Jun 05 01:20	16° <b>Ⅱ</b> 36'06	0°05'05		4922 May 25 22:11	0° <b>∀</b>	
minimum elong	4917 Jun 05 00:51	16° <b>Ⅲ</b> 35'12		retrograde	4922 Aug 11 10:25	25° <b>)</b> 49'38	
			0 03 03	Č	•		(922)24
behind sun begin	4917 Jun 03 21:34	15° <b>Ⅱ</b> 43'23		opposition	4922 Sep 10 22:58	20° <b>)</b> ₹38′27	
behind sun end	4917 Jun 06 04:09	17° <b>Ⅱ</b> 26'56		greatest brilliancy	4922 Sep 12 06:36	20° <b>)</b> 16′17	
	4917 Jun 22 20:57	0°©		min. Earth dist.	4922 Sep 16 09:13	19° <b>)</b> €07'32	0.39029 AU
max. Earth dist.	4917 Jul 24 17:00		2.45393 AU	direct	4922 Oct 12 22:41	14° <b>)</b> (49′21	
	4917 Aug 03 04:03	$0$ $\circ$ $\Omega$			4922 Dec 03 06:24	0° <b>Υ</b>	
morning rise	4917 Aug 08 01:41	3° <b>Ω</b> 27'31		asc. node	4923 Jan 18 12:58	27° <b>Ƴ</b> 41'04	
	4917 Sep 15 17:25	0° <b>m</b> y			4923 Jan 22 01:26	$9^{\circ}$ 8	
	4917 Oct 31 20:23	0∘ <b>⊽</b>			4923 Mar 07 07:01	$\Pi$ $^{\circ}0$	
	4917 Dec 20 07:24	0° <b>M</b> ₊			4923 Apr 20 02:47	$0$ $\circ$ $\odot$	
	4918 Feb 15 03:16	0° <b>∡</b> ¹			4923 Jun 03 20:27	$0^{\circ}\Omega$	
retrograde	4918 Apr 20 01:06	17° <b>∡</b> ¹43'42			4923 Jul 19 19:46	0° m/	
opposition	4918 May 28 13:59	9° <b>∡</b> '01'37	0°15'36		4923 Sep 04 18:06	0∘ <del>⊽</del>	
greatest brilliancy	4918 May 28 15:25	9° <b>х</b> 00′14		evening set	4923 Sep 06 12:10	1° <b>≏</b> 06'47	
min. Earth dist.	4918 Jun 02 20:49		0.62687 AU	max. Earth dist.	4923 Oct 18 20:59	28° <b>ഫ</b> 00'09	2.67862 AU
desc. node	4918 Jun 04 10:11	6° <b>х</b> 3932	J.02007 710	max. Darm dist.	.,25 000 10 20.5)	20 -00 09	2.07002 AO
acse. Houc	4918 Jun 26 21:24	30°RM		conjunction	4923 Oct 22 06:14	0°M09'15	0°46'09
diract				v			
direct	4918 Jul 08 22:33	29°M03'13		minimum elong	4923 Oct 22 07:18	0°M10'56	0 40 09
	4918 Jul 21 08:36	0° <b>∡</b>			4923 Oct 22 00:25	0°M	
	4918 Oct 02 06:47	5°0		morning rise	4923 Dec 05 06:13	28°M16'23	
	4918 Nov 17 23:09	0° <b>≈</b>			4923 Dec 07 22:35	0° <b>∡</b>	
	4918 Dec 29 08:08	0° <b>∀</b>			4924 Jan 23 01:20	0°る	
	4919 Feb 06 08:43	$0^{\circ}$ $\Upsilon$		desc. node	4924 Jan 25 06:52	1° <b>る</b> 28'01	
	4919 Mar 16 14:57	$9^{\circ}$ 8			4924 Mar 08 04:53	0°≈	

	4924 Apr 21 11:07	0° <b>)</b> €			4929 Jun 27 23:14	0∘ <b>⊽</b>	
	4924 Apr 21 11:07 4924 Jun 04 04:09	0° <b>Υ</b>			4929 Aug 22 22:30	0°M	
	4924 Jul 18 11:30	0°8		desc. node	4929 Sep 16 02:52	14°M22'12	
	4924 Sep 06 04:56	0°II		dese. Hode	4929 Oct 11 06:15	0° <b>√</b>	
retrograde	4924 Oct 27 14:35	15° <b>II</b> 26'50			4929 Nov 25 19:19	0°ප	
min. Earth dist.	4924 Nov 22 23:01		0.40221 AU	evening set	4929 Dec 31 14:07	25° <b>る</b> 04'00	
opposition	4924 Nov 29 22:30	8° <b>Ⅱ</b> 44'56		evening sec	4930 Jan 07 10:06	0° <b>≈</b>	
greatest brilliancy	4924 Nov 29 20:24	8° <b>Ⅱ</b> 46'34		max. Earth dist.	4930 Jan 15 12:05	5° <b>≈</b> 53'31	2.43656 AU
asc. node	4924 Dec 05 13:35	7° <b>Ⅱ</b> 03'32			4930 Feb 16 18:37	0° <b>)</b> €	
direct	4924 Dec 30 12:03	3° <b>Ⅱ</b> 08'01					
	4925 Mar 18 06:01	0ಂಣ		conjunction	4930 Feb 25 08:11	6° <b>)</b> €32'14	-1°05'08
	4925 May 09 12:38	$0^{\circ}\Omega$		minimum elong	4930 Feb 25 07:52	6° <b>)</b> 31'36	1°05'07
	4925 Jun 28 00:26	o° mp		-	4930 Mar 27 14:36	$0^{\circ}$ Y	
	4925 Aug 15 18:37	0∘ <b>ত</b>		morning rise	4930 May 02 01:03	27° <b>Y</b> ′52'35	
	4925 Oct 02 19:56	0° <b>M</b> ,			4930 May 04 17:43	0°B	
evening set	4925 Oct 12 05:28	5°M56′29			4930 Jun 12 01:01	$\Pi^{\circ}0$	
max. Earth dist.	4925 Nov 10 06:13	24°M30'51	2.64642 AU		4930 Jul 21 09:40	$0$ $\circ$ $\odot$	
	4925 Nov 18 17:24	0° <b>∡</b> ¹		asc. node	4930 Jul 28 10:24	5° <b>5</b> 013'41	
					4930 Aug 31 16:47	$0^{\circ}\Omega$	
conjunction	4925 Nov 26 08:19	4° <b>∡</b> 758'12	0°08'39		4930 Oct 14 23:43	0° <b>™</b>	
minimum elong	4925 Nov 26 08:35	4° <b>∡</b> ¹58'38	0°08'40		4930 Dec 03 11:45	0∘ <b>⊽</b>	
behind sun begin	4925 Nov 25 16:27	4° <b>∡</b> ³32'17			4931 Feb 15 09:56	$0^{\circ}$ M	
behind sun end	4925 Nov 27 00:43	5° <b>х</b> 25′00		retrograde	4931 Mar 01 15:28	1° <b>M</b> 12'26	
desc. node	4925 Dec 12 05:38	15° <b>∡</b> ¹25'23			4931 Mar 15 06:22	30° <b>₹</b> Ω	
	4926 Jan 03 00:54	5°0		opposition	4931 Apr 10 23:04	21° <b>≏</b> 29′10	3°30'24
morning rise	4926 Jan 10 13:38	5° <b>る</b> 05'57		greatest brilliancy	4931 Apr 10 23:14	21° <b>≏</b> 29'00	-1.3m
	4926 Feb 15 14:46	0° <b>≈</b>		min. Earth dist.	4931 Apr 10 23:39	21° <b>≏</b> 28'35	0.67915 AU
	4926 Mar 29 13:24	0° <b>ℋ</b>		direct	4931 May 21 20:51	11° <b>≏</b> 40'35	
	4926 May 09 04:18	$0$ ° $\mathbf{\Upsilon}$			4931 Jul 26 02:13	$0^{\circ}$ M	
	4926 Jun 18 01:06	$9^{\circ}$ 8		desc. node	4931 Aug 04 02:33	4° <b>™</b> 19'06	
	4926 Jul 28 03:39	$\Pi$ $^{\circ}0$			4931 Sep 19 18:44	0° <b>∡</b> ¹	
	4926 Sep 08 07:29	$0$ $\circ$			4931 Nov 05 23:52	0°₹	
asc. node	4926 Oct 23 12:12	27° <b>©</b> 43'20			4931 Dec 18 23:18	0° <b>≈</b>	
	4926 Oct 27 21:55	$0^{\circ}\Omega$			4932 Jan 28 04:55	0° <b>∀</b>	
retrograde	4926 Dec 19 03:33	15° <b>Ω</b> 23'37		evening set	4932 Feb 28 16:41	24° <b>∺</b> 25'33	
min. Earth dist.	4927 Jan 19 01:27	8° <b>Ω</b> 50'31	0.53400 AU		4932 Mar 06 18:51	0° <b>Υ</b>	
greatest brilliancy	4927 Jan 25 09:12	6° <b>Ω</b> 26′22	-2.0m		4932 Apr 13 17:07	0°8	
opposition	4927 Jan 26 13:01	5° <b>Ω</b> 59'49	4°12'23				
	4927 Feb 14 08:19	30° <b>₹</b>		conjunction	4932 May 07 05:14	18° <b>8</b> 31'06	
direct	4927 Mar 02 20:54	28°9510'38		minimum elong	4932 May 07 07:46	18° <b>8</b> 36'03	0°25'52
	4927 Mar 20 08:44	$0$ $\circ$ $\Omega$			4932 May 21 22:31	0°П	
	4927 Jun 02 03:04	0° <b>m</b>		asc. node	4932 Jun 14 08:35	17° <b>∏</b> 59'21	
	4927 Jul 25 21:54	0∘ <b>⊽</b>		max. Earth dist.	4932 Jun 27 16:56		2.39964 AU
	4927 Sep 13 22:01	0°M			4932 Jun 30 07:20	0.22	
desc. node	4927 Oct 30 04:00	29°M11'13		morning rise	4932 Jul 15 16:47	11°523'26	
	4927 Oct 31 10:09	0° <b>√</b>			4932 Aug 10 12:06	$\Omega^{\circ}$	
evening set	4927 Nov 18 16:59	11° 🗷 58'04	0.56010.444		4932 Sep 23 01:48	0° my	
max. Earth dist.	4927 Dec 06 21:55		2.56213 AU		4932 Nov 08 13:58	0∘ <b>m</b>	
	4927 Dec 15 13:07	0°₹			4932 Dec 29 15:34	0° <b>M</b> 0° <b>⊀</b>	
i	4020 I 05 10:07	140=25141	0926100		4933 Mar 07 11:04		
conjunction minimum elong	4928 Jan 05 10:07 4928 Jan 05 08:52	14°る25'41 14°る23'28		retrograde	4933 Apr 04 23:03 4933 May 01 05:29	4° <i>ጆ</i> 19'56 30° <b></b> ዪጤ	
minimum eiong	4928 Jan 27 09:26	0°≈	0 33 38	opposition	4933 May 14 06:10	25°M15'41	1°21'27
morning rise	4928 Feb 25 14:17	0 ∞ 21°≈18'01		greatest brilliancy	4933 May 14 11:08	25°M10'52	-1.4m
morning rise	4928 Mar 08 06:35	0° <b>\</b>		min. Earth dist.	4933 May 18 02:20	23°M45'56	0.65450 AU
	4928 Mai 08 00:33 4928 Apr 16 16:52	0° <b>Υ</b>		desc. node	4933 Jun 21 01:08	15°M18'21	0.03430 AO
	4928 May 25 08:34	0°8		direct	4933 Jun 24 19:59	15°M12'53	
	4928 Jul 03 02:13	0°II		direct	4933 Juli 24 19:59 4933 Aug 19 13:50	13 IIC1233 0° <b>⊼</b>	
	4928 Aug 11 22:39	0°©			4933 Aug 19 13:30 4933 Oct 13 02:58	0°ප ව	
asc. node	4928 Sep 09 10:40	0 S 20°S27'07			4933 Nov 26 22:15	0°≈	
ase. noue	4928 Sep 09 10.40 4928 Sep 23 07:51	20 <b>3</b> 2707 0° <b>Ω</b>			4934 Jan 06 17:01	0 <b>∞</b> 0° <b>∀</b>	
	4928 Nov 10 06:38	0°m)			4934 Feb 14 11:13	0°Υ	
retrograde	4929 Jan 26 03:43	26° Mp 51'12			4934 Mar 24 12:38	0°8	
min. Earth dist.	4929 Mar 03 10:20	18° Mp 25'15	0.63779 AU		4934 May 01 23:07	0°II	
opposition	4929 Mar 07 06:46	16° Mp 53'03	4°39'59	asc. node	4934 May 02 07:36	0° <b>П</b> 16'21	
greatest brilliancy	4929 Mar 06 15:34	17° mp 08'14		evening set	4934 May 11 15:18	7° <b>П</b> 25'23	
direct	4929 Apr 15 02:26	7° mp 45'59			4934 Jun 10 15:17	0°95	
******	pr 10 02.20						

agniumation	4024 Iul 12 19:26	24° <b>5</b> 04'08	0°43'58		4939 Jun 18 18:30	0°Υ	
conjunction minimum elong	4934 Jul 13 18:36 4934 Jul 13 16:22	24 \$04 08 24°\$00'10			4939 Aug 10 05:21	0° <b>႘</b>	
minimum ciong	4934 Jul 13 10:22 4934 Jul 22 03:28	24 <b>3</b> 00 10	0 43 30	retrograde	4939 Sep 30 22:12	14° <b>8</b> 46'35	
max. Earth dist.	4934 Aug 19 06:47		2.53489 AU	min. Earth dist.	4939 Oct 28 14:50		0.37268 AU
max. Earth dist.	4934 Sep 03 18:54	0°M)	2.33469 AU	opposition	4939 Oct 31 15:58	9° <b>8</b> 25'32	
morning rise	4934 Sep 03 18:34 4934 Sep 07 12:43	2°Mp30'19		greatest brilliancy	4939 Oct 31 10:19	9° <b>8</b> 29'22	
morning rise	4934 Sep 07 12.43 4934 Oct 19 14:13	0° <b>ت</b>		direct	4939 Nov 29 23:38	4° <b>8</b> 29'52	-3.0111
	4934 Dec 06 15:26	0°M		asc. node	4939 Nov 29 25:38 4939 Dec 23 05:03	7° <b>8</b> 51'02	
	4935 Jan 26 22:07	0° <b>⊼</b> ¹		asc. node	4940 Feb 11 06:39	0°Ⅱ	
	4935 Mar 28 22:19	0°ਤ ਹ •ੇ			4940 Apr 01 17:07	0ಂಣ ೧.೫	
desc. node	4935 May 08 23:31	10°පි50'20			4940 May 19 11:41	$0 {\circ} \Omega$	
retrograde	4935 May 16 14:29	11°る10'48			4940 Jul 06 03:19	0° <b>m</b> )	
opposition	4935 Jun 22 11:04	3° <b>ප</b> 14'01	-1°49'17		4940 Aug 22 23:52	0∘ <b>ಹ</b> ಂ.ಗ	
greatest brilliancy	4935 Jun 22 22:14	3° <b>ප</b> 03'41		evening set	4940 Sep 28 02:53	ა <b>—</b> 22° <b>ჲ</b> 42'25	
min. Earth dist.	4935 Jun 29 18:52	0° <b>る</b> 31'23	0.56611 AU	evening sec	4940 Oct 09 15:39	0°M	
mm. Earth dist.	4935 Jul 01 05:39	30°R. <b>₹</b>	0.50011710	max. Earth dist.	4940 Nov 01 01:54	14°ML16'29	2.66537 AU
direct	4935 Aug 01 17:44	23° <b>х</b> 40'53		man. Darvir dige.	19101101 01 01.51	1. 1101029	2.00037110
	4935 Sep 03 14:45	0°ਰ		conjunction	4940 Nov 12 03:36	21° <b>M</b> 22'47	0°24'37
	4935 Oct 31 14:22	0° <b>≈</b>		minimum elong	4940 Nov 12 04:20	21°M23'56	
	4935 Dec 14 06:38	0° <b>)</b> €		g	4940 Nov 25 11:54	0° <b>%</b>	0 2.5,
	4936 Jan 23 05:57	0°Υ		morning rise	4940 Dec 26 11:36	20° <b>х</b> 18′09	
	4936 Mar 02 02:15	0°8		desc. node	4940 Dec 28 19:56	21° <b>х</b> 51'30	
asc. node	4936 Mar 19 07:24	13° <b>8</b> 16'04		dese. node	4941 Jan 10 01:09	0°る	
	4936 Apr 10 05:59	0°II			4941 Feb 23 02:53	0° <b>≈</b>	
	4936 May 20 15:52	0ಂತಾ			4941 Apr 06 18:02	0° <b>)</b> €	
	4936 Jul 01 20:59	$0^{\circ}\Omega$			4941 May 18 04:49	$0^{\circ}\mathbf{\gamma}$	
evening set	4936 Jul 08 23:38	4° <b>Ω</b> 55'08			4941 Jun 28 00:49	0°8	
844	4936 Aug 15 01:05	0° m			4941 Aug 08 12:31	0°II	
	Č	•			4941 Sep 22 23:05	0ಂತಾ	
conjunction	4936 Aug 30 06:54	10° m 04'43	1°07'44	asc. node	4941 Nov 09 05:06	22° <b>©</b> 03'09	
minimum elong	4936 Aug 30 06:42	10° m 04'24	1°07'44	retrograde	4941 Dec 01 01:09	25°©18'59	
max. Earth dist.	4936 Sep 16 11:27	21° m 18'08	2.63217 AU	min. Earth dist.	4941 Dec 29 16:11	19° <b>©</b> 39'00	0.48084 AU
	4936 Sep 29 22:22	0° <del>م</del>		greatest brilliancy	4942 Jan 05 23:47	17° <b>©</b> 00'56	-2.3m
morning rise	4936 Oct 16 23:42	10° <b>♀</b> 55'32		opposition	4942 Jan 07 00:21	16°538'42	3°09'02
C	4936 Nov 16 02:35	0° <b>M</b>		direct	4942 Feb 09 12:30	9° <b>©</b> 35'33	
	4937 Jan 03 06:43	0° <b>∡</b> ¹			4942 Apr 18 00:18	$0^{\circ}\Omega$	
	4937 Feb 21 19:07	0°ರ			4942 Jun 12 23:48	0° <b>m</b>	
desc. node	4937 Mar 25 22:23	18° <b>ප</b> 36'15			4942 Aug 03 01:58	0° <b>ت</b>	
	4937 Apr 15 18:25	0° <b>≈</b>			4942 Sep 21 03:02	0°M.	
	4937 Jul 06 15:13	0° <b>)</b> €		evening set	4942 Nov 03 17:17	27°M40'09	
retrograde	4937 Jul 12 09:43	0° <b>)</b> 12′19			4942 Nov 07 07:35	0° <b>∡</b> ¹	
	4937 Jul 18 02:49	30° <b>R</b> ≈		desc. node	4942 Nov 15 19:05	5° <b>∡</b> 31'51	
opposition	4937 Aug 13 21:45	24° <b>≈</b> 11'07	-5°47'57	max. Earth dist.	4942 Nov 25 18:37	12° <b>∡</b> ¹05'57	2.60087 AU
greatest brilliancy	4937 Aug 15 12:25	23° <b>≈</b> 40'34	-2.5m				
min. Earth dist.	4937 Aug 21 21:34	21° <b>≈</b> 40′51	0.43454 AU	conjunction	4942 Dec 19 23:07	28° <b>∡</b> 18′07	-0°18'46
direct	4937 Sep 18 01:48	16° <b>≈</b> 56'11		minimum elong	4942 Dec 19 22:27	28° <b>⊀</b> 16'59	0°18'44
	4937 Nov 04 00:21	0° <b>ℋ</b>			4942 Dec 22 11:07	0°ප	
	4937 Dec 23 20:08	$0^{\circ}\mathbf{\Upsilon}$			4943 Feb 03 13:05	0° <b>≈</b>	
asc. node	4938 Feb 04 06:16	29° <b>Y</b> 52'49		morning rise	4943 Feb 06 00:35	1° <b>≈</b> 46′10	
	4938 Feb 04 10:15	0°8			4943 Mar 16 18:30	0° <b>∀</b>	
	4938 Mar 17 22:44	$\Pi^{\circ}0$			4943 Apr 25 13:53	0° <b>Υ</b>	
	4938 Apr 29 04:31	0°€			4943 Jun 03 14:12	0°8	
	4938 Jun 11 20:48	$0^{\circ}\Omega$			4943 Jul 12 16:08	$\Pi^{\circ}0$	
	4938 Jul 27 03:03	0° <b>m</b>			4943 Aug 22 00:16	0ංම	
evening set	4938 Aug 22 08:41	16° Mp 59′58		asc. node	4943 Sep 27 03:35	25° <b>©</b> 08'15	
	4938 Sep 11 15:06	0∘ <b>⊽</b>			4943 Oct 04 13:37	0° <b>N</b>	
	40.00		00 - 47	_	4943 Nov 26 18:37	0° <b>m</b>	
conjunction	4938 Oct 08 04:39	16° <b>£</b> 55'56		retrograde	4944 Jan 12 21:44	12° mp 11'44	
minimum elong	4938 Oct 08 05:40	16° <b>£</b> 57'32		min. Earth dist.	4944 Feb 16 05:20	4° m/25'09	0.60401 AU
max. Earth dist.	4938 Oct 10 03:15		2.67618 AU	opposition	4944 Feb 21 13:46	2° m/18'10	4°45'28
	4938 Oct 28 18:04	0°M		greatest brilliancy	4944 Feb 20 16:05	2° m/39'40	-1.6m
morning rise	4938 Nov 21 14:30	15°M 10'06			4944 Feb 27 12:35	30°R€	
	4938 Dec 14 20:33	0° <b>∡</b>		direct	4944 Mar 30 04:44	23° <b>Ω</b> 36′04	
	4939 Jan 30 13:01	0°る			4944 May 04 08:51	0° <b>m</b> )	
desc. node	4939 Feb 10 21:11	7° <b>ට</b> 20'00			4944 Jul 09 11:40	0° <b>™</b>	
	4939 Mar 17 18:40	0° <b>≈</b>			4944 Aug 31 04:38	0°M	
	4939 May 02 20:35	0° <b>∀</b>		desc. node	4944 Oct 02 17:47	19° <b>M</b> 56'11	

	4044.0 + 10 14.20	00.7			1010 1 10 10 27	1.40 0 57122	
	4944 Oct 18 14:39	0° <b>⊼</b>		morning rise	4949 Aug 19 19:26	14° <b>Ω</b> 57'32	
	4944 Dec 02 22:10	0°る			4949 Sep 10 22:02	0° <b>m</b> y	
evening set	4944 Dec 13 05:25	7° <b>る</b> 05'09			4949 Oct 26 20:09	0∘ <b>⊽</b>	
max. Earth dist.	4944 Dec 27 09:11		2.48882 AU		4949 Dec 14 14:48	0° <b>M</b>	
	4945 Jan 14 14:17	0° <b>≈</b>			4950 Feb 06 15:01	0° <b>∡</b> ¹	
				retrograde	4950 Apr 29 04:39	26° <b>∡</b> 13'05	
conjunction	4945 Feb 02 22:40	14° <b>≈</b> 09′12	-0°58'26	desc. node	4950 May 25 14:04	21° <b>∡</b> ′53′15	
minimum elong	4945 Feb 02 21:12	14° <b>≈</b> 06′29	0°58'26	opposition	4950 Jun 06 05:05	17° <b>∡</b> ¹45'22	-0°27'17
	4945 Feb 24 02:49	0° <b>∀</b>		greatest brilliancy	4950 Jun 06 07:26	17° <b>∡</b> ⁴43'08	-1.6m
morning rise	4945 Apr 02 23:59	29° <b>₩</b> 06'42		min. Earth dist.	4950 Jun 12 06:27	15° <b>∡</b> ¹27'12	0.60773 AU
	4945 Apr 04 03:22	$0$ ° $\Upsilon$		direct	4950 Jul 17 07:10	7° <b>∡</b> ¹52'33	
	4945 May 12 10:15	$B_{\circ 0}$			4950 Sep 23 23:01	0°₹	
	4945 Jun 19 20:01	$\Pi^{\circ}0$			4950 Nov 11 18:50	0° <b>≈</b>	
	4945 Jul 29 06:52	0ಂಣ			4950 Dec 23 18:19	0° <b>∀</b>	
asc. node	4945 Aug 14 01:37	11° <b>©</b> 37'42			4951 Feb 01 01:11	$0^{\circ}\mathbf{\Upsilon}$	
	4945 Sep 08 19:07	$0^{\circ}\Omega$			4951 Mar 11 11:12	0° <b>႘</b>	
	4945 Oct 23 19:51	0° <b>m</b>		asc. node	4951 Apr 05 23:13	19° <b>8</b> 48'23	
	4945 Dec 15 14:20	0∘ <u>⊽</u>			4951 Apr 19 05:54	0°II	
retrograde	4946 Feb 16 10:27	18° <b>≏</b> 27'40			4951 May 29 06:54	0 . ಅ	
min. Earth dist.	4946 Mar 27 07:48	9° <b>£</b> 10'58	0.67088 AU	evening set	4951 Jun 19 03:10	15°906'56	
opposition	4946 Mar 28 19:31	8° <b>£</b> 35'17	4°05'05	evening sec	4951 Jul 10 03:43	0° <b>Ω</b>	
greatest brilliancy	4946 Mar 28 14:24	8° <b>-</b> 240'24			4751 Jul 10 05.45	0 00	
greatest offinality	4946 Apr 25 11:54	30°RM)	-1.5111	conjunction	4951 Aug 14 00:18	23° <b>Ω</b> 56'04	1002141
direct				-	Č	23° <b>Ω</b> 54'15	
direct	4946 May 08 01:10	28° m 59'44		minimum elong	4951 Aug 13 23:13		1 03 41
	4946 May 21 06:06	0∘ <b>亚</b>		D d E c	4951 Aug 23 01:10	0° Mp	2 (0010 411
	4946 Aug 07 04:25	0°M		max. Earth dist.	4951 Sep 07 01:24	9° m 57'54	2.60019 AU
desc. node	4946 Aug 20 16:37	7°M19'23		morning rise	4951 Oct 03 03:40	26° m 59'22	
	4946 Sep 28 07:04	0° <b>∡</b> 7			4951 Oct 07 19:44	0∘ <b>⊽</b>	
	4946 Nov 13 15:43	0°ප			4951 Nov 24 04:39	0° <b>™</b>	
	4946 Dec 26 10:24	0° <b>≈</b>			4952 Jan 12 04:11	0° <b>∡</b>	
evening set	4947 Feb 03 03:27	28° <b>≈</b> 49'36			4952 Mar 03 23:59	್ರಂ	
	4947 Feb 04 16:22	0° <b>∀</b>		desc. node	4952 Apr 11 12:34	19° <b>る</b> 50'13	
	4947 Mar 15 07:57	$0$ ° $\mathbf{\Upsilon}$			4952 May 05 12:34	0° <b>≈</b>	
max. Earth dist.	4947 Mar 27 09:56	9° <b>Y</b> 31'25	2.36914 AU	retrograde	4952 Jun 17 01:27	8° <b>≈</b> 56'48	
				opposition	4952 Jul 21 10:21	2°≈03'50	
conjunction	4947 Apr 08 05:57	18° <b>Ƴ</b> 52'50	-0°51'46	greatest brilliancy	4952 Jul 22 16:47	1° <b>≈</b> 37'37	-2.2m
minimum elong	4947 Apr 08 09:10	18° <b>Ƴ</b> 59'12	0°51'45		4952 Jul 27 09:50	30°Ŗ⋜	
	4947 Apr 22 07:16	$8^{\circ 0}$		min. Earth dist.	4952 Jul 29 21:53	29° <b>る</b> 09'14	0.48758 AU
	4947 May 30 12:13	$\Pi^{\circ}0$		direct	4952 Aug 28 05:45	23° <b>る</b> 35'53	
morning rise	4947 Jun 19 06:38	15° <b>Ⅲ</b> 13'50			4952 Sep 29 07:03	0° <b>≈</b>	
asc. node	4947 Jul 02 01:46	24° <b>Ⅱ</b> 56'31			4952 Nov 23 23:55	0° <b>)</b> €	
	4947 Jul 08 19:28	0ಂತಾ			4953 Jan 05 19:53	$0^{\circ}\mathbf{\Upsilon}$	
	4947 Aug 18 22:59	$0^{\circ}\Omega$			4953 Feb 15 02:56	0°8	
	4947 Oct 01 15:15	0° m/		asc. node	4953 Feb 20 22:28	4° <b>8</b> 21'46	
	4947 Nov 17 19:18	0∘ <u>⊽</u>			4953 Mar 27 07:27	0°II	
	4948 Jan 10 18:16	0°M			4953 May 07 14:07	0ಂತಾ	
retrograde	4948 Mar 21 20:33	21°M31'11			4953 Jun 19 12:53	$0^{\circ}\Omega$	
opposition	4948 Apr 30 16:43	12°M09'06	2°17'57		4953 Aug 03 06:25	0° m)	
greatest brilliancy	4948 Apr 30 21:43	12°M04'11	-1.3m	evening set	4953 Aug 06 06:48	1° m 59'03	
min. Earth dist.	4948 May 03 01:26	11°M13'17	0.67195 AU		4953 Sep 18 10:56	0∘ <b>⊽</b>	
direct	4948 Jun 11 04:39	2°M08'17	0.07175710		1933 вер 10 10.30	٠ <u> </u>	
desc. node	4948 Jul 07 15:31	5°M57'04		conjunction	4953 Sep 23 16:56	3° <b>ჲ</b> 22'01	1°03'59
dese. Hode	4948 Sep 02 04:30	0° <b>⊼</b>		minimum elong	4953 Sep 23 17:41	3° <b>⊆</b> 23'12	1°03'59
	4948 Oct 22 08:34	% ਰ°ਨ		max. Earth dist.	4953 Oct 01 07:51		2.66552 AU
	4948 Dec 05 04:20	0°≈		max. Earth dist.	4953 Nov 04 12:36	0°M	2.00332 AU
	4949 Jan 14 15:45	0° <b>∺</b>		morning rise	4953 Nov 07 12:30 4953 Nov 07 23:20	2°M11'10	
		0° <b>Υ</b>		morning rise			
	4949 Feb 22 07:08				4953 Dec 21 21:55	0° <b>∡</b> ¹	
<del>-</del>	4949 Apr 01 06:23	0°8		J 1	4954 Feb 07 09:20	0°る	
evening set	4949 Apr 13 07:31	9° <b>႘</b> 29'56		desc. node	4954 Feb 27 12:10	12° <b>る</b> 39'58	
1	4949 May 09 13:46	0° <b>П</b>			4954 Mar 27 05:30	0° <b>≈</b>	
asc. node	4949 May 19 01:16	7° <b>Ⅱ</b> 18'13			4954 May 15 13:51	0° <b>)</b> €	
	4949 Jun 18 01:46	$0$ $\circ$ $\odot$		_	4954 Jul 10 20:11	0°Υ	
				retrograde	4954 Aug 29 18:17	12° <b>Y</b> 57'30	
conjunction	4949 Jun 19 23:18	1°9524'34		opposition	4954 Sep 28 18:40	8° <b>Υ</b> '00'24	
minimum elong	4949 Jun 19 21:36	1°9521'27	0°21'13	greatest brilliancy	4954 Sep 29 12:44	7° <b>Y</b> 48'15	
	4949 Jul 29 09:30	$0$ $\circ$ $\Omega$		min. Earth dist.	4954 Oct 01 11:31	7° <b>Y</b> 16′52	0.37515 AU
Trackle diek	40.40 A 04 02 52	4° O04'02	2.48388 AU	direct	1051 0-4 20 07:11	2° <b>Y</b> 48'00	
max. Earth dist.	4949 Aug 04 03:52	4 6604 02	2.40300 AU	direct	4954 Oct 29 07:11	2 1 48 00	

asc. node	4955 Jan 08 22:07	28° <b>Ƴ</b> 45'15		conjunction	4960 Jan 15 11:54	24° <b>る</b> 50'04	-0°45'14
use. Hode	4955 Jan 11 01:18	0°8		minimum elong	4960 Jan 15 10:24	24° <b>♂</b> 47'23	
	4955 Feb 27 14:55	0°II		minimum crong	4960 Jan 22 17:01	0°≈	0 13 13
	4955 Apr 13 20:40	0°ಅ			4960 Mar 03 11:24	0° <b>)</b> €	
	4955 May 29 09:18	$0^{\circ}\Omega$		morning rise	4960 Mar 08 23:50	4° <b>)</b> €09'26	
	4955 Jul 14 19:53	0° m)		5 5	4960 Apr 11 18:20	$0^{\circ}\Upsilon$	
	4955 Aug 31 00:39	0∘ <u>⊽</u>			4960 May 20 06:49	0°8	
evening set	4955 Sep 14 19:59	9° <b>£</b> 21'51			4960 Jun 27 20:59	$\Pi^{\circ}0$	
-	4955 Oct 17 09:50	0° <b>M</b> .			4960 Aug 06 12:27	0°ಅ	
max. Earth dist.	4955 Oct 24 00:44	4°ML12'33	2.67630 AU	asc. node	4960 Aug 30 19:58	17°5640'03	
					4960 Sep 17 10:41	$0^{\circ}\Omega$	
conjunction	4955 Oct 30 04:46	8°M08'12	0°38'52		4960 Nov 02 20:31	0° <b>™</b>	
minimum elong	4955 Oct 30 05:46	8° <b>M</b> 09'47	0°38'51		4961 Jan 03 20:30	0∘ <b>⊽</b>	
	4955 Dec 03 07:03	0°⊀		retrograde	4961 Feb 03 01:06	5° <b>≙</b> 13'52	
morning rise	4955 Dec 13 04:19	6° <b>≯</b> ¹24'00			4961 Mar 03 00:27	30°R Mp	
desc. node	4956 Jan 15 11:19	28° <b>∡</b> 11'59		min. Earth dist.	4961 Mar 12 06:59	26° Mp 28'30	0.65220 AU
	4956 Jan 18 04:37	0°ප		opposition	4961 Mar 15 07:10	25° Mp 16'21	4°30'31
	4956 Mar 02 21:54	0° <b>≈</b>		greatest brilliancy	4961 Mar 14 19:43	25° <b>m</b> 27'48	-1.4m
	4956 Apr 15 11:36	0° <b>ℋ</b>		direct	4961 Apr 23 15:48	15° <b>m</b> 57'54	
	4956 May 28 04:02	$0^{\circ}\Upsilon$			4961 Jun 18 12:43	0∘ <b>⊽</b>	
	4956 Jul 09 17:01	$0^{\circ}S$			4961 Aug 17 00:55	$0^{\circ}$ M	
	4956 Aug 23 10:30	$\Pi^{\circ}0$		desc. node	4961 Sep 06 07:07	11°M43'30	
	4956 Oct 26 19:29	$0$ $\circ$ $\odot$			4961 Oct 06 04:50	0° <b>∡</b> ¹	
retrograde	4956 Nov 10 02:47	1° <b>5</b> 28'05			4961 Nov 21 00:38	0° <b>ರ</b>	
	4956 Nov 24 08:03	30°R <b>Ⅱ</b>			4962 Jan 02 17:09	0° <b>≈</b>	
asc. node	4956 Nov 25 20:36	29° <b>Ⅱ</b> 40'42		evening set	4962 Jan 11 22:35	6° <b>≈</b> 43'57	
min. Earth dist.	4956 Dec 06 22:38	26° <b>Ⅲ</b> 36′28		max. Earth dist.	4962 Jan 30 16:40	20° <b>≈</b> 39'44	2.40796 AU
opposition	4956 Dec 14 23:42	23° <b>Ⅱ</b> 57'15	1°12'46		4962 Feb 12 00:55	0° <b>∀</b>	
greatest brilliancy	4956 Dec 14 13:39	24° <b>Ⅱ</b> 05'33	-2.6m				
direct	4957 Jan 15 12:01	17° <b>Ⅱ</b> 48'44		conjunction	4962 Mar 11 11:22	21° <b>)</b> €08'41	
	4957 Mar 05 01:07	0ංම		minimum elong	4962 Mar 11 12:19	21° <b>)</b> 10′31	1°04'15
	4957 May 02 05:37	0° <b>N</b>			4962 Mar 22 19:18	0° <b>Υ</b>	
	4957 Jun 22 07:38	0° <b>m</b> )			4962 Apr 29 20:53	0° <b>8</b>	
	4957 Aug 10 18:10	0∘ <b>亚</b>		morning rise	4962 May 19 13:29	15° <b>8</b> 30'26	
	4957 Sep 28 03:04	0°M,			4962 Jun 07 02:52	0°II	
evening set	4957 Oct 20 07:37	14°M02'21		1	4962 Jul 16 10:10	0°95	
T al T	4957 Nov 14 02:58	0° <b>∡</b> 7	2 (225( AII	asc. node	4962 Jul 18 18:12	1°944'38	
max. Earth dist.	4957 Nov 15 19:33	1°×705'57	2.63256 AU		4962 Aug 26 14:41	0° <b>N</b>	
desc. node	4957 Dec 02 09:46	11° <b>≯</b> 58'20			4962 Oct 09 13:30	0 <b>் ⊽</b> 0° <b>மி</b>	
conjunction	4957 Dec 04 16:12	13° <b>∡</b> ¹28'14	0001116		4962 Nov 26 21:17 4963 Jan 26 09:35	0°M	
minimum elong	4957 Dec 04 16:11	13° 🗷 28'11	0°01'16	retrograde	4963 Mar 09 07:27	8°M54'33	
behind sun begin	4957 Dec 03 21:11	13 <b>x</b> 28 11 12° <b>x</b> 56'48	0 01 10	reirograde	4963 Apr 16 17:21	30°R <b>Ω</b>	
behind sun end	4957 Dec 05 21:11 4957 Dec 05 11:11	13° 🗷 59'35		opposition	4963 Apr 18 11:44	29° <b>£</b> 18'02	3°06'02
belling sun end	4957 Dec 29 09:19	0° <b>そ</b>		greatest brilliancy	4963 Apr 18 14:11	29° <b>£</b> 15'36	-1.3m
morning rise	4958 Jan 19 16:01	14° <b>云</b> 32'46		min. Earth dist.	4963 Apr 19 08:22	28° <b>⊆</b> 57'34	0.67936 AU
morning rise	4958 Feb 10 19:13	0°≈		direct	4963 May 29 15:31	19° <b>£</b> 23'59	0.07750710
	4958 Mar 24 11:37	0° <b>)</b> €		uncet	4963 Jul 15 17:00	0°M	
	4958 May 03 18:57	0° <b>Υ</b>		desc. node	4963 Jul 25 06:07	3°M57'01	
	4958 Jun 12 07:07	0°8			4963 Sep 13 16:40	0° <b>∡</b> ¹	
	4958 Jul 21 21:54	0°II			4963 Oct 31 18:37	°5	
	4958 Sep 01 03:06	0°ಅ			4963 Dec 14 01:01	0° <b>≈</b>	
asc. node	4958 Oct 13 20:13	27°959'45			4964 Jan 23 08:49	0° <b>)</b> €	
	4958 Oct 17 05:32	$0^{\circ}\Omega$			4964 Mar 01 23:10	$0^{\circ}\mathbf{\Upsilon}$	
retrograde	4958 Dec 28 14:31	26° <b>Ω</b> 02'13		evening set	4964 Mar 15 07:30	10° <b>Ƴ</b> 32'13	
min. Earth dist.	4959 Jan 29 18:20	19° <b>Ω</b> 01'06	0.56108 AU	C	4964 Apr 08 21:26	0°8	
greatest brilliancy	4959 Feb 04 10:17	16° <b>Ω</b> 49'26	-1.8m		4964 May 17 02:47	$\Pi^{\circ}0$	
opposition	4959 Feb 05 13:00	16° <b>Ω</b> 23'27	4°32'25		-		
direct	4959 Mar 13 18:07	8° <b>Ω</b> 12'57		conjunction	4964 May 23 17:49	5° <b>Ⅱ</b> 07'41	-0°08'17
	4959 May 24 15:29	0° <b>m</b> p		minimum elong	4964 May 23 18:39	5° <b>Ⅱ</b> 09'17	0°08'17
	4959 Jul 20 01:49	0∘ <b>⊽</b>		behind sun begin	4964 May 22 17:08	4° <b>Ⅱ</b> 20′04	
	4959 Sep 08 21:30	0°M₊		behind sun end	4964 May 24 20:10	5° <b>Ⅱ</b> 58'27	
desc. node	4959 Oct 20 08:11	25°M54'28		asc. node	4964 Jun 04 17:14	14° <b>Ⅱ</b> 19′03	
	4959 Oct 26 16:57	0° <b>∡</b> ¹			4964 Jun 25 11:42	0ංම	
evening set	4959 Nov 27 15:24	21° <b>х</b> 01'11		max. Earth dist.	4964 Jul 14 18:13	14° <b>©</b> 13'29	2.42922 AU
	4959 Dec 10 21:46	0°₹		morning rise	4964 Jul 29 08:54	24°5947'15	
max. Earth dist.	4959 Dec 14 01:59	2° <b>る</b> 10'18	2.53765 AU		4964 Aug 05 16:24	$0$ $^{\circ}$ $\Omega$	

	4964 Sep 18 04:05	0° <b>m</b>			4970 Jan 27 17:18	0°8	
	4964 Nov 03 08:48	0∘ <b>⊽</b>			4970 Mar 11 11:28	0°Щ	
	4964 Dec 23 07:39	0° <b>M</b> .			4970 Apr 23 10:54	0°99	
	4965 Feb 20 21:25	0° <b>∡</b>			4970 Jun 06 15:17	$0^{\circ}\Omega$	
retrograde	4965 Apr 13 11:03	12° <b>₹</b> 23'26			4970 Jul 22 05:32	0° <b>т</b> р	
opposition	4965 May 22 08:34	3° <b>₹</b> 31'02	0°44'08	evening set	4970 Aug 31 03:02	25° m 39'12	
greatest brilliancy	4965 May 22 11:56	3° <b>₹</b> 27'47	-1.5m		4970 Sep 06 22:33	0∘ <b>⊽</b>	
min. Earth dist.	4965 May 27 00:03	1° <b>₹</b> 43'11	0.64038 AU	max. Earth dist.	4970 Oct 15 05:48	24° <b>£</b> 21′10	2.67865 AU
	4965 May 31 13:26	30°RM₊				_	
desc. node	4965 Jun 11 04:41	26°M31'37		conjunction	4970 Oct 16 06:57	25° <b>£</b> 01'05	0°50'50
direct	4965 Jul 02 20:03	23°M29'42		minimum elong	4970 Oct 16 08:01	25° <b>Ω</b> 02'47	0°50'49
	4965 Aug 06 12:54	0° <b>∡</b> ¹			4970 Oct 24 03:09	0°M	
	4965 Oct 06 10:49	0°る		morning rise	4970 Nov 29 09:45	23°ML07'27	
	4965 Nov 21 07:16	0° <b>≈</b>			4970 Dec 10 03:11	0° <b>∡</b> 7	
	4966 Jan 01 10:43	0° <b>∀</b>			4971 Jan 25 12:07	0°₹	
	4966 Feb 09 08:51	0° <b>Υ</b>		desc. node	4971 Feb 01 01:36	4° <b>る</b> 17'13	
	4966 Mar 19 12:53	0°8			4971 Mar 12 02:42	0° <b>≈</b>	
asc. node	4966 Apr 22 16:49	26° <b>8</b> 38'26			4971 Apr 26 02:12	0° <b>∀</b>	
	4966 Apr 27 01:29	$\Pi$ °0			4971 Jun 09 22:34	$0^{\circ}\mathbf{\Upsilon}$	
evening set	4966 May 26 09:11	22° <b>Ⅱ</b> 14'34			4971 Jul 26 10:41	$9^{\circ}$ 8	
	4966 Jun 05 19:40	$0$ $\circ$ $\odot$			4971 Sep 26 10:12	$\Pi^{\circ}0$	
	4966 Jul 17 09:41	$0^{\circ}\Omega$		retrograde	4971 Oct 17 03:08	2° <b>Ⅱ</b> 52'36	
					4971 Nov 06 22:12	30° <b>₹</b> 8	
conjunction	4966 Jul 25 18:24	5° <b>Ω</b> 51'38		min. Earth dist.	4971 Nov 12 16:12		0.38559 AU
minimum elong	4966 Jul 25 16:27	5° <b>Ω</b> 48'13		opposition	4971 Nov 18 04:56	26° <b>8</b> 50'32	
max. Earth dist.	4966 Aug 26 14:17	27° <b>Ω</b> 39'40	2.56005 AU	greatest brilliancy	4971 Nov 17 21:55	26° <b>8</b> 55'40	-2.9m
	4966 Aug 30 01:49	O° Mp		asc. node	4971 Dec 13 14:30	21° <b>8</b> 44'26	
morning rise	4966 Sep 17 05:28	12°Mp03'49		direct	4971 Dec 18 02:11	21° <b>8</b> 36'23	
	4966 Oct 14 19:30	0∘ <b>⊽</b>			4972 Jan 25 11:14	$\Pi$ $\circ 0$	
	4966 Dec 01 12:42	0°M₊			4972 Mar 24 08:23	$0$ $\circ$	
	4967 Jan 20 17:44	0°⊀			4972 May 13 05:03	$0^{\circ}\Omega$	
	4967 Mar 17 19:21	0°ಕ			4972 Jun 30 18:38	O° My	
desc. node	4967 Apr 29 03:56	16° <b>る</b> 37'40			4972 Aug 18 02:29	0∘ <b>ত</b>	
retrograde	4967 May 27 12:58	20° <b>る</b> 53'47			4972 Oct 04 23:43	0°M₊	
opposition	4967 Jul 02 13:48	13° <b>る</b> 17'29		evening set	4972 Oct 06 05:14	0°M46'38	
greatest brilliancy	4967 Jul 03 07:37	13° <b>る</b> 01'19		max. Earth dist.	4972 Nov 06 09:15	20°M38'14	2.65598 AU
min. Earth dist.	4967 Jul 10 11:08	10° <b>る</b> 25'48	0.53944 AU				
direct	4967 Aug 11 03:38	4° <b>る</b> 01'48		conjunction	4972 Nov 20 05:35	29°M34'48	0°15'29
	4967 Oct 22 23:21	0° <b>≈</b>		minimum elong	4972 Nov 20 06:04	29°M35'34	0°15'29
	4967 Dec 07 15:31	0° <b>)</b> €		behind sun begin	4972 Nov 20 01:11	29°M27'40	
	4968 Jan 17 07:08	0° <b>Υ</b>		behind sun end	4972 Nov 20 10:56	29°M43'29	
	4968 Feb 25 12:31	0° <b>8</b>			4972 Nov 20 21:08	0° <b>∡</b> 7	
asc. node	4968 Mar 09 14:36	10° <b>8</b> 01'11		desc. node	4972 Dec 19 00:06	18° <b>≯</b> 26′20	
	4968 Apr 04 22:56	0° <b>I</b>		morning rise	4973 Jan 03 23:18	29° <b>₹</b> 05'10	
	4968 May 15 14:25	0°9			4973 Jan 05 07:57	ರ್∘ರ	
	4968 Jun 27 00:27	0° <b>Ω</b>			4973 Feb 18 03:40	0° <b>≈</b>	
evening set	4968 Jul 19 18:33	15° <b>Ω</b> 33'30			4973 Apr 01 09:59	0° <b>)</b> €	
	4968 Aug 10 08:00	0° <b>m</b>			4973 May 12 09:26	0° <b>Υ</b>	
					4973 Jun 21 15:31	0°8	
conjunction	4968 Sep 08 10:58	19° Mp 07'05	1°07'38		4973 Aug 01 05:17	0°Ⅱ	
minimum elong	4968 Sep 08 11:12	19° Mp 07'28	1°07'38		4973 Sep 13 08:06	0.2	
max. Earth dist.	4968 Sep 22 01:46	27° <b>m</b> 55'49	2.64642 AU	asc. node	4973 Oct 30 13:20	26°951'06	
	4968 Sep 25 06:52	0∘ <b>⊽</b>			4973 Nov 06 23:43	0° <b>Ω</b>	
morning rise	4968 Oct 25 02:37	19° <b>Ω</b> 03'45		retrograde	4973 Dec 11 15:43	7° <b>Ω</b> 33'41	0.51060.177
	4968 Nov 11 09:06	0°M		min. Earth dist.	4974 Jan 10 12:20	1° <b>Ω</b> 23'56	0.51069 AU
	4968 Dec 29 04:54	0° <b>∡</b>			4974 Jan 14 07:10	30° <b>₹</b> 5	
	4969 Feb 15 19:54	0°る		greatest brilliancy	4974 Jan 17 07:22	28°952'14	
desc. node	4969 Mar 16 02:45	17° <b>る</b> 01'45		opposition	4974 Jan 18 10:54	28°526'28	3°51'05
	4969 Apr 07 07:42	0° <b>≈</b>		direct	4974 Feb 22 00:18	20°956'28	
, 1	4969 Jun 03 18:22	0° <del>)(</del>			4974 Apr 04 20:13	0° <b>N</b>	
retrograde	4969 Jul 28 17:00	14° <b>\(</b> 28'36	6000111		4974 Jun 06 03:41	0° Mp	
opposition	4969 Aug 29 01:37	8° <b>¥</b> 56'59			4974 Jul 28 15:40	0∘ <b>w</b>	
greatest brilliancy	4969 Aug 30 15:18	8° <b>¥</b> 29'09	-2.7m		4974 Sep 16 05:52	0°M.	
min. Earth dist.	4969 Sep 05 00:32	6° <b>¥</b> 54'29	0.40806 AU	1 1	4974 Nov 02 15:30	0° ⊀ <b>7</b>	
direct	4969 Oct 01 11:53	2° <b>升</b> 30′05		desc. node	4974 Nov 05 22:36	2°×708'18	
asa nada	4969 Dec 13 07:41	0° <b>Υ</b> 28° <b>Υ</b> 30'59		evening set	4974 Nov 12 04:40	6°₺13'00	2 500/2 411
asc. node	4970 Jan 25 13:51	20 1 30 39		max. Earth dist.	4974 Dec 02 02:07	19° <b>≯</b> 22'41	2.58042 AU

	4974 Dec 17 19:56	8°0		opposition	4980 May 08 09:40	20°M04'05	1°45'56
				greatest brilliancy	4980 May 08 14:57	19° <b>M</b> 58'55	-1.4m
conjunction	4974 Dec 29 03:48	7° <b>る</b> 45'43	-0°28'52	min. Earth dist.	4980 May 11 14:07	18°M49'12	0.66357 AU
minimum elong	4974 Dec 29 02:47	7° <b>る</b> 43'57	0°28'50	direct	4980 Jun 18 22:59	10°ML01'21	
	4975 Jan 29 19:52	0° <b>≈</b>		desc. node	4980 Jun 27 19:55	10°M29'52	
morning rise	4975 Feb 16 18:34	12°≈57'10			4980 Aug 25 02:14	0° <b>∡</b> ¹	
_	4975 Mar 11 21:35	0° <b>∀</b>			4980 Oct 16 12:50	0°ප	
	4975 Apr 20 12:15	$0^{\circ}\mathbf{\Upsilon}$			4980 Nov 29 22:37	0° <b>≈</b>	
	4975 May 29 07:45	$8^{\circ}$ 0			4981 Jan 09 14:59	0° <b>)</b> €	
	4975 Jul 07 04:16	$\Pi^{\circ}0$			4981 Feb 17 08:08	$0$ ° $\Upsilon$	
	4975 Aug 16 03:53	$0$ $\circ$ $\odot$			4981 Mar 27 08:22	0°8	
asc. node	4975 Sep 17 11:30	22°957'34		evening set	4981 Apr 29 13:44	26° <b>8</b> 01'51	
	4975 Sep 27 21:04	$0^{\circ}\Omega$			4981 May 04 16:46	$\Pi$ $^{\circ}0$	
	4975 Nov 16 05:10	0° <b>m</b>		asc. node	4981 May 09 08:10	3° <b>Ⅱ</b> 34'51	
retrograde	4976 Jan 21 04:45	21° Mp 12'25			4981 Jun 13 05:53	0ංම	
min. Earth dist.	4976 Feb 25 14:54	13° <b>m</b> 02'56	0.62388 AU				
greatest brilliancy	4976 Feb 29 08:59	11°Mp33'17	-1.5m	conjunction	4981 Jul 03 21:27	15° <b>5</b> 09'26	0°35'17
opposition	4976 Mar 01 03:09	11° <b>m</b> )15'10	4°44'26	minimum elong	4981 Jul 03 19:14	15° <b>©</b> 05'25	0°35'15
direct	4976 Apr 08 10:03	2°Mp18'29			4981 Jul 24 14:50	$0 {\circ} \Omega$	
	4976 Jul 02 06:27	0∘ <b>亚</b>		max. Earth dist.	4981 Aug 13 07:07	13° <b>Ω</b> 45′18	2.51292 AU
	4976 Aug 25 17:28	0° <b>M</b>		morning rise	4981 Aug 30 18:11	25° <b>Ω</b> 41'34	
desc. node	4976 Sep 22 21:22	16°M57'30			4981 Sep 06 03:27	0° <b>m</b>	
	4976 Oct 13 16:38	0° <b>∡</b> ¹			4981 Oct 21 22:28	0° <b>⊽</b>	
	4976 Nov 28 04:41	0°₹			4981 Dec 09 04:49	0°M₊	
evening set	4976 Dec 23 09:58	17° <b>る</b> 30'19			4982 Jan 30 08:47	0° <b>∡</b> ¹	
max. Earth dist.	4977 Jan 06 11:59	27° <b>る</b> 33'08	2.46016 AU		4982 Apr 07 18:07	0°ප	
	4977 Jan 09 21:24	0° <b>≈</b>		retrograde	4982 May 08 20:58	5°る02'28	
				desc. node	4982 May 15 18:04	4°る45'00	
conjunction	4977 Feb 15 04:53	26° <b>≈</b> 51′05	-1°03'22		4982 Jun 06 11:11	30°₹ <b>⋌</b> ¹	
minimum elong	4977 Feb 15 03:54	26° <b>≈</b> 49'13	1°03'22	opposition	4982 Jun 15 06:25	26° <b>₹</b> 50'59	-1°13'26
	4977 Feb 19 08:47	0° <b>ℋ</b>		greatest brilliancy	4982 Jun 15 13:22	26° <b>҂</b> ⁴44'28	-1.7m
	4977 Mar 30 07:22	$0^{\circ}$ Y		min. Earth dist.	4982 Jun 22 00:50	24° <b>҂</b> 18'32	0.58589 AU
morning rise	4977 Apr 18 21:28	15° <b>Y</b> 20′56		direct	4982 Jul 25 22:49	17° <b>∡</b> 07'15	
	4977 May 07 12:20	0°B			4982 Sep 13 08:20	0°ಕ	
	4977 Jun 14 20:17	$\Pi^{\circ}0$			4982 Nov 05 01:42	0° <b>≈</b>	
	4977 Jul 24 04:42	0ංම			4982 Dec 17 22:55	0° <b>∀</b>	
asc. node	4977 Aug 04 11:20	8° <b>5</b> 21'41			4983 Jan 26 14:30	0°Υ	
	4977 Sep 03 12:13	$0$ $\circ$ $\Omega$			4983 Mar 06 05:36	0°8	
	4977 Oct 17 23:15	0° <b>m</b> )		asc. node	4983 Mar 27 08:05	16° <b>8</b> 20'23	
	4977 Dec 07 09:33	0∘ <b>⊽</b>			4983 Apr 14 04:16	0°II	
retrograde	4978 Feb 24 01:03	26° <b>£</b> 17'04			4983 May 24 08:40	0°9	
opposition	4978 Apr 05 09:24	16° <b>£</b> 29'17		evening set	4983 Jul 01 07:16	27°509'52	
greatest brilliancy	4978 Apr 05 07:24	16° <b>£</b> 31'16	-1.3m		4983 Jul 05 08:36	$\Omega^{\circ}\Omega$	
min. Earth dist.	4978 Apr 04 17:56	16° <b>£</b> 44'42	0.67666 AU		4983 Aug 18 08:15	0° <b>m</b>	
direct	4978 May 16 00:03	6° <b>Ω</b> 45'58			4002 4 02 00	20 m. 4011 6	1007142
	4978 Jul 30 16:53	0°M		conjunction	4983 Aug 24 02:00	3°Mp49'16	1°06'43
desc. node	4978 Aug 10 21:01 4978 Sep 22 17:56	5° <b>™</b> 40'59 0° <b>҂</b>		minimum elong	4983 Aug 24 01:27	3° Mp 48'22	1°06'44
				max. Earth dist.	4983 Sep 13 04:23	17° Mp 03'28	2.61894 AU
	4978 Nov 08 15:29	0°る 0°≈		morning rise	4983 Oct 03 03:16 4983 Oct 11 18:22	0° <b>ჲ</b> 5° <b>ჲ</b> 32'42	
	4978 Dec 21 14:11 4979 Jan 30 20:58	0° <b>∺</b>		morning rise	4983 Oct 11 18:22 4983 Nov 19 08:28	0° <b>M</b>	
evening set	4979 Jan 30 20:38 4979 Feb 17 04:29	13° <b>₩</b> 19'56			4983 Nov 19 08:28 4984 Jan 06 19:36	0°111⊾ 0° <b>×7</b> 1	
evening set	4979 Mar 10 12:05	13 <b>γ</b> (1930			4984 Feb 26 03:52	°ਤ ਹ`ਤ	
	4979 Apr 17 10:54	0.8 0.1		desc. node	4984 Apr 01 17:04	0 ප 19° <b>ප්</b> 46'49	
	-т <i>) і ) г</i> арі 1/ 10.54	v O		desc. Hode	4984 Apr 21 20:09	19 <b>⊘</b> 40 49	
conjunction	4979 Apr 25 02:01	6° <b>8</b> 01'49	-0°38'18	retrograde	4984 Apr 21 20:09 4984 Jun 30 18:53	0 ≈ 20°≈57'23	
minimum elong	4979 Apr 25 05:20	6° <b>8</b> 08'22		opposition	4984 Aug 03 03:57	20 ≈3723 14°≈32'11	-5°10'57
	4979 May 25 15:40	0°II	3 30 10	greatest brilliancy	4984 Aug 04 16:10	14 ≈32 11 14°≈02'17	
max. Earth dist.	4979 Jun 05 12:22	8° <b>Ⅱ</b> 24'15	2.37868 AU	min. Earth dist.	4984 Aug 11 13:48	14 ≈02 17 11°≈46'51	0.45794 AU
asc. node	4979 Jun 22 09:39	21° <b>I</b> 18'17	2.5 / 500 AU	direct	4984 Sep 08 14:11	6°≈41'46	0.15/77 AU
450. Houe	4979 Jul 03 22:46	0°95		unocc	4984 Nov 13 16:41	0° <b>∺</b>	
morning rise	4979 Jul 05 06:04	0°958'30			4984 Dec 29 08:29	0° <b>Υ</b>	
	4979 Aug 14 01:40	0° <b>U</b>			4985 Feb 08 16:54	0°8	
	4979 Sep 26 14:30	0° <b>m</b> )		asc. node	4985 Feb 11 07:25	1° <b>8</b> 55'04	
	4979 Nov 12 06:40	0∘ <b>ত</b> مالا			4985 Mar 21 12:35	0°II	
	4980 Jan 03 05:08	0° <b>™</b>			4985 May 02 05:49	0ංම ග	
retrograde	4980 Mar 29 20:24	29°MJ16'42			4985 Jun 14 12:33	$0^{\circ}\Omega$	
	., 2, 20.2T				.,	- 00	

	4005 I1 20 11.26	00 <b>m</b>			4000 M 10 10.54	0° <b>∀</b>	
	4985 Jul 29 11:36	0°Mp			4990 Mar 19 10:54	0° <b>Υ</b>	
evening set	4985 Aug 15 14:53	11° Mp 10′54 0° <u> </u>			4990 Apr 28 11:53 4990 Jun 06 17:18	0° <b>8</b>	
	4985 Sep 13 19:23	0 ==			4990 Jul 16 00:01	0°II	
agniumation	4985 Oct 02 02:05	11° <b>≏</b> 40'57	1900'04		4990 Aug 25 14:30	0°©	
conjunction minimum elong	4985 Oct 02 02:03 4985 Oct 02 03:01	11 <b>≗</b> 40 3 / 11° <b>£</b> 42'27	1°00'04 1°00'04	asc. node	4990 Aug 23 14.30 4990 Oct 04 04:53	0 S 27°S01'21	
max. Earth dist.	4985 Oct 02 03:01 4985 Oct 06 14:09		2.67244 AU	asc. node	4990 Oct 04 04.33 4990 Oct 08 21:26	27 €301 21 0°Ω	
max. Earm dist.	4985 Oct 30 21:12	0°M	2.07244 AU		4990 Oct 08 21.26 4990 Dec 06 06:11	0° <b>m</b> y	
morning rise	4985 Nov 15 19:22	10°M06'39		retrograde	4990 Dec 00 00:11 4991 Jan 06 12:27	5° Mp 56'07	
morning rise	4985 Dec 17 02:27	10 IIC00 39 0° <b>√</b> 1		renograde	4991 Jan 00 12.27 4991 Feb 04 20:56	3 11€3007 30°R <b>Ω</b>	
	4986 Feb 02 02:54	0°ろ		min. Earth dist.	4991 Feb 04 20:30 4991 Feb 08 21:24	28° <b>Ω</b> 28'41	0.58583 AU
desc. node	4986 Feb 17 16:09	0 3 9° <b>3</b> 57'16		opposition	4991 Feb 14 21:00	26° <b>Ω</b> 07'34	4°43'01
desc. flode	4986 Mar 20 23:44	9°≈		greatest brilliancy	4991 Feb 13 20:43	26° <b>Ω</b> 31'30	-1.7m
		0 <b>≈</b> 0° <b>∀</b>		direct	4991 Mar 23 20:54	17° <b>Ω</b> 38'43	-1./111
	4986 May 07 05:54 4986 Jun 25 17:53	0 <del>Υ</del> 0° <b>Υ</b>		direct		0° My	
		0°8			4991 May 14 01:02 4991 Jul 13 20:58	0∘ <b>ऌ</b> ० औ	
ratra ara da	4986 Sep 03 23:44	1° <b>8</b> 06'46				0°M	
retrograde	4986 Sep 17 03:34			JJ.	4991 Sep 03 17:45		
***	4986 Sep 30 08:53	30°Ŗ <b>Ƴ</b> 26° <b>Ƴ</b> 05'41	4050154	desc. node	4991 Oct 10 12:38	22°M43'34	
opposition	4986 Oct 17 06:22			. ,	4991 Oct 21 22:21	0° <b>∡</b> 7	
greatest brilliancy	4986 Oct 17 09:07	26° <b>Y</b> 03'52		evening set	4991 Dec 06 21:30	0° <b>る</b> 26'20	
min. Earth dist.	4986 Oct 16 18:00	26° <b>Y</b> 13'52	0.36939 AU		4991 Dec 06 06:04	0°る	
direct	4986 Nov 15 17:34	21°Υ11'45		max. Earth dist.	4991 Dec 21 20:31		2.51124 AU
_	4986 Dec 24 10:15	0°8			4992 Jan 18 00:39	0° <b>≈</b>	
asc. node	4986 Dec 30 06:10	2° <b>8</b> 29'48					
	4987 Feb 18 13:07	0° <b>II</b>		conjunction	4992 Jan 26 05:04	5° <b>≈</b> 55'31	
	4987 Apr 07 01:50	0°ಅ		minimum elong	4992 Jan 26 03:29	5° <b>≈</b> 52'39	0°53'23
	4987 May 23 16:22	$0^{\circ}\Omega$			4992 Feb 27 16:42	0° <b>∀</b>	
	4987 Jul 09 17:13	0° <b>m</b>		morning rise	4992 Mar 22 14:11	18° <b>米</b> 12′16	
	4987 Aug 26 06:01	0∘ <b>ಹ</b>			4992 Apr 06 20:25	$0^{\circ}$ Y	
evening set	4987 Sep 23 01:20	17° <b>£</b> 31'24			4992 May 15 05:42	$0^{\circ}S$	
	4987 Oct 12 18:42	0°M₊			4992 Jun 22 16:54	$\Pi^{\circ}0$	
max. Earth dist.	4987 Oct 29 05:49	10°M28'11	2.67129 AU		4992 Aug 01 04:29	0	
				asc. node	4992 Aug 21 02:47	14° <b>©</b> 37'12	
conjunction	4987 Nov 07 04:23	16°M11'00	0°30'46		4992 Sep 11 18:48	$0 {\circ} \Omega$	
minimum elong	4987 Nov 07 05:15	16°M₁2'22	0°30'46		4992 Oct 27 04:33	O° <b>m</b>	
	4987 Nov 28 15:39	0°⊀			4992 Dec 21 04:34	0∘ <b>ত</b>	
morning rise	4987 Dec 21 07:00	14° <b>∡</b> ⁴44'42		retrograde	4993 Feb 10 18:51	13° <b>≙</b> 21'57	
desc. node	4988 Jan 05 14:39	24° <b>₹</b> ¹50'24		min. Earth dist.	4993 Mar 20 22:51	4° <b>≙</b> 18'34	0.66382 AU
	4988 Jan 13 09:11	0°ರ		opposition	4993 Mar 23 02:43	3° <b>£</b> 26'40	4°17'01
	4988 Feb 26 18:07	0° <b>≈</b>		greatest brilliancy	4993 Mar 22 18:53	3° <b>≏</b> 34'31	-1.3m
	4988 Apr 09 19:20	0° <b>∀</b>			4993 Mar 31 23:57	30°R, M⊅	
	4988 May 21 18:12	$0$ ° $\Upsilon$		direct	4993 May 01 23:12	23° <b>m</b> 58'16	
	4988 Jul 02 05:25	$9^{\circ}$ 8			4993 Jun 05 09:28	0∘ <b>ত</b>	
	4988 Aug 13 17:01	$\Pi$ $^{\circ}0$			4993 Aug 10 16:52	$0^{\circ}$ M,	
	4988 Oct 01 07:17	0ංම		desc. node	4993 Aug 27 11:30	9°M22'23	
asc. node	4988 Nov 16 05:54	15° <b>©</b> 39'07			4993 Sep 30 23:35	0° <b>∡</b> ¹	
retrograde	4988 Nov 22 09:33	15° <b>©</b> 55'39			4993 Nov 16 04:14	0°ರ	
min. Earth dist.	4988 Dec 20 01:48	10° <b>©</b> 39'06	0.45661 AU		4993 Dec 28 23:18	0° <b>≈</b>	
opposition	4988 Dec 28 12:05	7° <b>5</b> 43'20	2°27'02	evening set	4994 Jan 24 01:45	19° <b>≈</b> 14'48	
greatest brilliancy	4988 Dec 27 16:08	8° <b>©</b> 00'45	-2.4m		4994 Feb 07 07:12	0° <b>∀</b>	
direct	4989 Jan 30 03:24	1° <b>©</b> 03'49		max. Earth dist.	4994 Feb 20 22:15	10° <b>∺</b> 27'11	2.38272 AU
	4989 Apr 23 20:24	$0^{\circ}\Omega$			4994 Mar 18 00:29	$0$ ° $\Upsilon$	
	4989 Jun 16 07:06	0° <b>m</b>					
	4989 Aug 05 14:36	0∘ <b>⊽</b>		conjunction	4994 Mar 26 16:16	6° <b>Ƴ</b> 48'35	-0°59'00
	4989 Sep 23 08:38	$0^{\circ}$ M.		minimum elong	4994 Mar 26 18:38	6° <b>Ƴ</b> 53'16	0°58'59
evening set	4989 Oct 28 12:11	22°M15'43			4994 Apr 25 00:44	$9^{\circ}$ 8	
	4989 Nov 09 11:46	0° <b>∡</b> 7			4994 Jun 02 05:35	$\Pi^{\circ}0$	
max. Earth dist.	4989 Nov 21 13:36	7° <b>∡</b> 752'49	2.61595 AU	morning rise	4994 Jun 06 02:21	3° <b>Ⅲ</b> 00′02	
desc. node	4989 Nov 22 13:39	8° <b>∡</b> 32'17		asc. node	4994 Jul 09 02:39	28° <b>Ⅱ</b> 13'03	
					4994 Jul 11 11:40	0°ಅ	
conjunction	4989 Dec 13 06:59	22° <b>∡</b> 17'19	-0°11'24		4994 Aug 21 13:56	$0^{\circ}\Omega$	
minimum elong	4989 Dec 13 06:35	22° <b>҂</b> 16′38	0°11'24		4994 Oct 04 06:44	0° <b>m</b>	
behind sun begin	4989 Dec 12 16:37	21° <b>₹</b> 53'14			4994 Nov 20 18:25	0∘ <del>⊽</del>	
behind sun end	4989 Dec 13 20:34	22° <b>х</b> 40′03			4995 Jan 15 12:08	0°M₊	
	4989 Dec 24 17:34	0° <b>ට</b>		retrograde	4995 Mar 17 01:09	16°M36'41	
morning rise	4990 Jan 29 07:38	24° <b>る</b> 34'45		opposition	4995 Apr 26 01:12	7° <b>ML</b> 07'43	2°38'51
-	4990 Feb 05 23:50	0° <b>≈</b>		greatest brilliancy	4995 Apr 26 05:19	7°ML03'39	
				_ ,	•		

min. Earth dist.	4995 Apr 27 17:52	6°M27'31	0.67658 AU		5000 May 11 11:20	0ಂಣ	
	4995 May 16 07:10	30° <b>₹</b> Ω			5000 Jun 23 02:47	$0^{\circ}\Omega$	
direct	4995 Jun 06 09:44	27° <b>≏</b> 09'17		evening set	5000 Jul 30 22:43	25° <b>Ω</b> 34'57	
	4995 Jun 29 03:02	$0^{\circ}$ M			5000 Aug 06 14:30	0° <b>m</b>	
desc. node	4995 Jul 15 10:19	4°M49'58					
	4995 Sep 07 02:13	0° <b>∡</b> ″		conjunction	5000 Sep 18 06:58	27° <b>m</b> 50'23	1°05'59
	4995 Oct 26 08:46	0°る		minimum elong	5000 Sep 18 07:32	27° <b>m</b> 51'17	1°06'00
	4995 Dec 08 23:54	0° <b>≈</b>		70 d F	5000 Sep 21 15:33	0∘ <b>⊽</b>	2 (5002 177
	4996 Jan 18 10:51	0° <b>)</b> €		max. Earth dist.	5000 Sep 28 12:54	4° <b>£</b> 25'27	2.65803 AU
avaning sat	4996 Feb 26 02:15 4996 Mar 31 12:25	0° <b>Υ</b> 27° <b>Υ</b> 12'45		morning rise	5000 Nov 03 02:25 5000 Nov 07 16:42	27° <b>£</b> 05'16 0° <b>I</b> L	
evening set	4996 Mar 31 12:23 4996 Apr 04 01:00	0° <b>8</b>			5000 Nov 07 10:42 5000 Dec 25 06:02	0° <b>∕</b> 7⊓	
	4996 May 12 06:58	0°∏			5000 Bec 23 00:02 5001 Feb 11 04:08	°ਠ ਨ	
asc. node	4996 May 26 02:15	10° <b>∏</b> 38'32		desc. node	5001 Mar 07 06:48	0 <b>3</b> 14° <b>る</b> 55'55	
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				5001 Mar 31 23:24	0° <b>≈</b>	
conjunction	4996 Jun 08 11:43	20° <b>Ⅲ</b> 50′13	0°09'10		5001 May 22 17:25	0° <b>∀</b>	
minimum elong	4996 Jun 08 10:52	20° <b>Ⅱ</b> 48'37	0°09'08		5001 Aug 08 16:17	$0^{\circ}$ Y	
behind sun begin	4996 Jun 07 11:19	20° <b>∏</b> 04′06		retrograde	5001 Aug 16 10:34	0° <b>Y</b> '22'28	
behind sun end	4996 Jun 09 10:25	21° <b>Ⅲ</b> 33′05			5001 Aug 24 02:05	30° <b>₹</b>	
	4996 Jun 20 16:29	$0$ $\circ$ $\odot$		opposition	5001 Sep 15 19:47	25° <b>)</b> 14'43	-6°30'00
max. Earth dist.	4996 Jul 27 06:20		2.45958 AU	greatest brilliancy	5001 Sep 17 01:15	24° <b>¥</b> 54'13	
	4996 Jul 31 21:24	$0$ $^{\circ}\Omega$		min. Earth dist.	5001 Sep 20 18:10	23° <b>¥</b> 52'31	0.38688 AU
morning rise	4996 Aug 10 21:55	7° <b>Ω</b> 04'01		direct	5001 Oct 17 13:46	19° <b>)</b> (33′18	
	4996 Sep 13 07:53	0° <b>m</b>		,	5001 Nov 28 01:34	0°Υ 200 <b>0</b> 01 (141	
	4996 Oct 29 06:47	0∘ <b>亚</b>		asc. node	5002 Jan 16 23:19	28° <b>Y</b> 16'41	
	4996 Dec 17 09:54	0° <b>M</b> 0° <b>∡</b> 7			5002 Jan 19 15:28 5002 Mar 05 10:59	0°B 8°0	
retrograde	4997 Feb 11 01:32 4997 Apr 22 06:45	0° <b>x</b> ¹ 20° <b>x</b> ¹39'05			5002 Mar 05 10:59 5002 Apr 18 11:52	0. 0. П	
opposition	4997 May 30 16:59	20 <b>≯</b> 3903 11° <b>₹</b> 59'41	0°03'48		5002 Apr 18 11:32 5002 Jun 02 07:27	0°€0	
greatest brilliancy	4997 Nov 03 05:15	21° <b>る</b> 46'32	0.6m		5002 Jul 18 07:24	0° m)	
desc. node	4997 Jun 01 08:42	11° <b>×</b> <sup>7</sup> 21'31	0.0111		5002 Sep 03 06:06	0∘ <b>⊽</b>	
min. Earth dist.	4997 Jun 05 03:17	9° <b>∡</b> ¹54'37	0.62356 AU	evening set	5002 Sep 09 14:26	4° <b>≏</b> 01'47	
direct	4997 Jul 10 23:55	2° <b>х</b> 01'46		C	5002 Oct 20 12:55	$0^{\circ}$ M	
	4997 Sep 29 00:04	ರ°0		max. Earth dist.	5002 Oct 21 08:47	0°M31'34	2.67838 AU
	4997 Nov 15 09:42	0° <b>≈</b>					
	4997 Dec 27 00:48	0° <b>∀</b>		conjunction	5002 Oct 25 06:26	3°M00'21	0°44'07
	4998 Feb 04 03:55	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	5002 Oct 25 07:29	3°ML02'01	0°44'08
	4998 Mar 14 10:53	0°8			5002 Dec 06 11:36	0° <b>∡</b>	
asc. node	4998 Apr 13 00:29	23° <b>8</b> 01'21		morning rise	5002 Dec 08 06:03	1° <b>∡</b> ′08′23	
	4998 Apr 22 02:08	0°II			5003 Jan 21 14:22	0°る	
	4998 May 31 22:54	0.00		desc. node	5003 Jan 23 05:57	1° <b>る</b> 05'06	
evening set	4998 Jun 09 04:42 4998 Jul 12 15:18	6°502'49			5003 Mar 07 16:49	0° <b>₩</b>	
	4998 Jul 12 15:18	$0$ ° $\Omega$			5003 Apr 20 20:19 5003 Jun 03 07:58	0° <b>Υ</b> 0° <b>Υ</b>	
conjunction	4998 Aug 05 23:32	16° <b>Ω</b> 52'19	1°00'08		5003 Jul 17 03:28	0°8	
minimum elong	4998 Aug 05 22:04	16° <b>Ω</b> 49'47	1°00'06		5003 Sep 03 00:29	0°II	
minimum ciong	4998 Aug 25 08:59	0°m)	1 00 00	retrograde	5003 Nov 01 18:58	20° <b>I</b> I01'39	
max. Earth dist.	4998 Sep 02 08:34		2.58316 AU	min. Earth dist.	5003 Nov 28 05:10	15° <b>Ⅲ</b> 26′16	0.40685 AU
morning rise	4998 Sep 26 11:26	21° Mp 11'56		asc. node	5003 Dec 04 21:40	13° <b>Ⅲ</b> 20′51	
	4998 Oct 10 01:46	$0$ o $\overline{\mathbf{v}}$		opposition	5003 Dec 05 11:45	13° <b>Ⅱ</b> 09'48	0°02'22
	4998 Nov 26 12:47	$0^{\circ}$ M		greatest brilliancy	5002 Dec 18 15:23	7° <b>∡</b> ¹50'59	1.8m
	4999 Jan 14 22:36	0°⊀		direct	5004 Jan 05 04:08	7° <b>Ⅱ</b> 26'56	
	4999 Mar 09 03:45	0°ಕ			5004 Mar 14 23:44	$0$ $\circ$	
desc. node	4999 Apr 19 07:15	19° <b>る</b> 30'13			5004 May 07 10:10	$0^{\circ}\Omega$	
	4999 May 24 08:15	0° <b>≈</b>			5004 Jun 26 06:04	0° m)	
retrograde	4999 Jun 08 06:59	1°≈16'28			5004 Aug 14 03:55	0∘ <b>亚</b>	
.,.	4999 Jun 22 11:19	30°Rる	2025125	. ,	5004 Oct 01 07:35	0°M	
opposition greatest brilliancy	4999 Jul 13 10:44 4999 Jul 14 11:44	24°る02'48 23°る40'40		evening set max. Earth dist.	5004 Oct 15 06:30 5004 Nov 12 19:54	8°M49'07 27°M06'29	2.64410 AU
min. Earth dist.	4999 Jul 14 11:44 4999 Jul 21 17:37	23° <b>ろ</b> 40'40 21° <b>ろ</b> 07'13		max. Barui uist.	5004 Nov 17 07:01	2/*11に06/29 0° <b>ズ</b>	4.0 <del>14</del> 10 AU
direct	4999 Jul 21 17.37 4999 Aug 21 02:45	21 <b>3</b> 07 13	0.51141 AU		JUUT INUV 1/ U/.U1	· ×	
G11000	4999 Oct 11 18:49	13 <b>℃</b> 1029		conjunction	5004 Nov 29 09:52	7° <b>∡</b> ¹54'07	0°05'54
	4999 Nov 30 07:38	0° <b>∀</b>		minimum elong	5004 Nov 29 10:03	7° <b>×</b> 754'24	0°05'55
	5000 Jan 11 00:38	0° <b>Υ</b>		behind sun begin	5004 Nov 28 16:13	7° <b>∡</b> ¹25'15	
	5000 Feb 19 18:17	0°8		behind sun end	5004 Nov 30 03:52	8° <b>∡</b> "23'35	
asc. node	5000 Feb 28 23:29	6° <b>8</b> 59'22		desc. node	5004 Dec 10 04:11	14° <b>₹</b> ′59′00	
	5000 Mar 31 13:09	$\Pi$ °0			5005 Jan 01 16:11	8°0	

morning rise	5005 Jan 13 17:57	8° <b>ප</b> 10'58		direct	5010 May 24 20:17	14° <b>≏</b> 30'47	
	5005 Feb 14 07:10	0° <b>≈</b>			5010 Jul 22 19:26	0° <b>M</b> ₊	
	5005 Mar 28 06:16	0° <b>∀</b>		desc. node	5010 Aug 02 00:39	4°M42'13	
	5005 May 07 20:48	$0^{\circ}\mathbf{\Upsilon}$			5010 Sep 17 21:21	0° <b>∡</b> ¹	
	5005 Jun 16 16:03	0°8			5010 Nov 04 12:18	0°రె	
	5005 Jul 26 14:53	$\Pi^{\circ}0$			5010 Dec 17 16:46	0° <b>≈</b>	
	5005 Sep 06 09:37	0ංම			5011 Jan 27 01:13	0° <b>)</b> €	
asc. node	5005 Oct 21 20:49	28° <b>©</b> 33'25		evening set	5011 Mar 05 02:34	28° <b>)</b> 45′30	
	5005 Oct 24 12:26	$0^{\circ}\Omega$			5011 Mar 06 16:26	$0$ ° $\mathbf{\gamma}$	
retrograde	5005 Dec 22 14:14	18° <b>Ω</b> 52'58			5011 Apr 13 14:46	$_{0\circ}$ 8	
min. Earth dist.	5006 Jan 22 17:35	12° <b>Ω</b> 13'44	0.53935 AU				
greatest brilliancy	5006 Jan 28 21:27	9° <b>£</b> 52'30	-1.9m	conjunction	5011 May 12 22:16	23° <b>8</b> 04'59	-0°21'46
opposition	5006 Jan 30 01:23	9° <b>Ω</b> 25'42	4°19'31	minimum elong	5011 May 13 00:26	23° <b>8</b> 09'13	0°21'45
direct	5006 Mar 06 13:13	1° <b>Ω</b> 32'03			5011 May 21 19:15	$\Pi$ $^{\circ}0$	
	5006 May 30 11:34	0° <b>m</b> y		asc. node	5011 Jun 13 17:46	17° <b>Ⅲ</b> 39'13	
	5006 Jul 23 23:57	0∘ <b>亚</b>			5011 Jun 30 02:18	0°€	
	5006 Sep 12 06:43	0° <b>M</b> .		max. Earth dist.	5011 Jul 04 00:44	2° <b>5</b> 56'16	2.40499 AU
desc. node	5006 Oct 28 02:50	28°M49'03		morning rise	5011 Jul 20 22:34	15° <b>5</b> 24'25	
	5006 Oct 29 22:49	0° <b>∡</b> ¹			5011 Aug 10 04:40	$0^{\circ}\Omega$	
evening set	5006 Nov 21 21:15	15° <b>∡</b> 00'31			5011 Sep 22 15:08	O° <b>m</b> y	
max. Earth dist.	5006 Dec 09 19:55	27° <b>∡</b> 02'10	2.55766 AU		5011 Nov 07 22:09	0∘ <b>ಹ</b>	
	5006 Dec 14 04:40	0° <b>ರ</b>			5011 Dec 28 11:25	0°M₊	
					5012 Mar 01 07:34	0° <b>∡</b> ¹	
conjunction	5007 Jan 08 18:57	17°る42'00		retrograde	5012 Apr 08 02:53	7° <b>≯</b> 12'45	
minimum elong	5007 Jan 08 17:38	17° <b>る</b> 39'40	0°38'32		5012 May 12 14:02	30°RM	
	5007 Jan 26 03:06	0° <b>≈</b>		opposition	5012 May 17 07:43	28°M10'53	1°10'53
morning rise	5007 Mar 01 08:40	24°≈59'51		greatest brilliancy	5012 May 17 12:16	28°MJ06'27	-1.4m
	5007 Mar 08 01:40	0° <b>∀</b>		min. Earth dist.	5012 May 21 07:25	26°M37'37	0.65193 AU
	5007 Apr 16 12:37	0° <b>Y</b>		desc. node	5012 Jun 18 23:13	18°M38'43	
	5007 May 25 04:10	0°8		direct	5012 Jun 27 20:22	18° <b>ML</b> 08'07	
	5007 Jul 02 20:34	0°II			5012 Aug 15 20:40	0° <b>∡</b>	
	5007 Aug 11 14:04	0°95			5012 Oct 11 05:34	6°0	
asc. node	5007 Sep 08 20:52	20°524'26			5012 Nov 25 11:24	0° <b>≈</b>	
	5007 Sep 22 17:02	0° <b>N</b>			5013 Jan 05 10:56	0° <b>)</b> €	
. 1	5007 Nov 08 22:19	0° <b>m</b>			5013 Feb 13 07:24	$^{\circ \gamma}$	
retrograde	5008 Jan 30 05:47	29° m 50'53	0.64072.411		5013 Mar 23 09:33	0° <b>8</b>	
min. Earth dist.	5008 Mar 06 16:16	21° <b>m</b> 20'53 19° <b>m</b> 52'32	0.64073 AU	asc. node	5013 Apr 30 17:39	29° <b>႘</b> 56'16 0° <b>Ⅱ</b>	
opposition	5008 Mar 10 08:40	•	4°38'06		5013 Apr 30 19:35		
greatest brilliancy	5008 Mar 09 18:11	20° m 07'01	-1.4m	evening set	5013 May 16 00:46	11° <b>II</b> 39'37	
direct	5008 Apr 18 05:55 5008 Jun 24 22:09	10° Mp 43'15 0° <u> </u>			5013 Jun 09 10:24	0°€	
	5008 Juli 24 22:09 5008 Aug 21 00:05	0° <b>m</b>		conjunction	5013 Jul 17 15:27	27° <b>©</b> 43'26	0°46'34
desc. node	5008 Sep 14 01:43	14°ML10'35		minimum elong	5013 Jul 17 13:16	27° <b>©</b> 39'32	0°46'33
desc. node	5008 Oct 09 16:32	0° <b>∡</b> 7		minimum ciong	5013 Jul 20 20:38	0°Ω	0 4033
	5008 Nov 24 10:26	∞ੰਤ		max. Earth dist.	5013 Aug 22 06:41		2.53973 AU
evening set	5009 Jan 04 04:26	28° <b>පි</b> 33'34		max. Earth dist.	5013 Nag 22 00:11 5013 Sep 02 09:46	0° m	2.55) / 5 110
e venning see	5009 Jan 06 04:17	0°≈		morning rise	5013 Sep	5° mp 42'15	
max. Earth dist.	5009 Jan 19 18:18		2.43093 AU		5013 Oct 18 02:23	0∘ <b>ಹ</b>	
	5009 Feb 15 14:39	0° <b>)</b> €			5013 Dec 04 23:25	0° <b>M</b>	
					5014 Jan 24 20:12	0° <b>∡</b> 7	
conjunction	5009 Mar 01 10:43	10° <b>¥</b> 34'26	-1°05'18		5014 Mar 24 20:17	0°ರ	
minimum elong	5009 Mar 01 10:41	10° <b>)</b> 34′21		desc. node	5014 May 06 22:27	13° <b>⋜</b> 19'43	
	5009 Mar 26 11:27	$0^{\circ}\mathbf{\Upsilon}$		retrograde	5014 May 20 05:01	14° <b>る</b> 19'58	
	5009 May 03 14:32	0°8		opposition	5014 Jun 25 20:53	6° <b>ප</b> 26'56	-2°02'52
morning rise	5009 May 06 21:20	2° <b>8</b> 35'17		greatest brilliancy	5014 Jun 26 09:38	6° <b>ප</b> 15'09	-1.8m
-	5009 Jun 10 20:58	$\Pi^{\circ}0$		min. Earth dist.	5014 Jul 03 06:33	3°₹42'49	0.56106 AU
	5009 Jul 20 03:47	0ංම			5014 Jul 14 15:44	30°R. <b>✓</b>	
asc. node	5009 Jul 26 19:23	4° <b>©</b> 57'32		direct	5014 Aug 04 23:34	26° <b>₹</b> 56'35	
	5009 Aug 30 07:47	$0^{\circ}\Omega$			5014 Aug 27 05:39	0°ರ	
	5009 Oct 13 09:05	0° <b>m</b> ∕			5014 Oct 29 10:21	0° <b>≈</b>	
	5009 Dec 01 07:03	0∘ <b>亚</b>			5014 Dec 12 16:44	0° <b>∀</b>	
	5010 Feb 05 16:23	0°M₊			5015 Jan 21 21:05	$0^{\circ}\mathbf{\Upsilon}$	
retrograde	5010 Mar 04 16:03	4°ML02'27			5015 Mar 01 19:20	0° <b>8</b>	
	5010 Mar 29 14:08	30° <b>₹</b>		asc. node	5015 Mar 18 15:53	12° <b>8</b> 58'54	
opposition	5010 Apr 13 22:12	24° <b>≏</b> 20′28			5015 Apr 09 23:30	$\Pi^{\circ}0$	
greatest brilliancy	5010 Apr 13 22:51	24° <b>£</b> 19'49	-1.3m		5015 May 20 08:50	0°©	
min. Earth dist.	5010 Apr 14 02:35	24° <b>£</b> 16′06	0.67939 AU		5015 Jul 01 12:52	$0^{\circ}\Omega$	

	5025 Sep 26 13:38	0° <b>∡</b> 7			5030 Oct 06 08:16	0∘ <b>⊽</b>	
	5025 Nov 12 05:07	∘ੰਤ			5030 Nov 22 14:56	o° <b>m</b>	
	5025 Nov 12 03:07 5025 Dec 25 03:38	0° <b>≈</b>			5031 Jan 10 10:06	0° <b>⊼</b>	
	5026 Feb 03 11:54	0° <b>∀</b>			5031 Mar 02 18:05	∞ੇਂਤ	
evening set	5026 Feb 07 07:04	2° <b>)</b> 54'01		desc. node	5031 Apr 10 11:45	20° <b>පි</b> 26'40	
evening set	5026 Mar 14 04:39	0°Υ		dese. Hode	5031 May 01 13:57	0°≈	
	3020 Wai 14 04.37	0 1		retrograde	5031 Jun 22 01:01	12° <b>≈</b> 29'19	
conjunction	5026 Apr 12 23:55	23° <b>Ƴ</b> 31'46	-0°48'55	opposition	5031 Jul 26 06:36	5°≈41'14	-4°30'30
minimum elong	5026 Apr 13 03:15	23° <b>Y</b> 38'21		greatest brilliancy	5031 Jul 27 14:29	5°≈13'57	
max. Earth dist.	5026 Apr 14 18:46		2.36822 AU	min. Earth dist.	5031 Aug 03 18:33	2°≈47'51	0.48200 AU
max. Earth dist.	5026 Apr 21 04:11	0°8	2.30022 110	mm. Earth dist.	5031 Aug 13 03:39	30°Rる	0.40200710
	5026 May 29 08:30	0°II		direct	5031 Sep 01 19:02	27° <b>පි</b> 20'04	
morning rise	5026 Jun 23 22:59	19° <b>∏</b> 42'16		uncet	5031 Sep 01 13:02 5031 Sep 21 23:02	0°≈	
asc. node	5026 Jun 30 11:05	24° <b>I</b> I38'03			5031 Nov 22 16:18	0° <b>∀</b>	
asc. nouc	5026 Jul 07 14:15	0°9			5031 Nov 22 10:18 5032 Jan 05 03:42	0°Υ	
		0° <b>U</b>			5032 Feb 14 16:02	0°8	
	5026 Aug 17 15:21 5026 Sep 30 03:51	0° <b>m</b> )		asc. node	5032 Feb 14 10:02 5032 Feb 20 08:46	4° <b>8</b> 15'46	
	5026 Sep 30 03:51 5026 Nov 16 00:53	0∘ <b>ত</b> رازا		asc. Houe		0°Π	
					5032 Mar 25 22:27		
. 1	5027 Jan 08 02:03	0°M			5032 May 06 05:21	0° <b>©</b>	
retrograde	5027 Mar 25 21:33	24°M19'21	2000152		5032 Jun 18 03:30	$\Omega^{\circ}\Omega$	
opposition	5027 May 04 15:47	14°M58'56	2°08'52		5032 Aug 01 20:06	0° m/y	
greatest brilliancy	5027 May 04 20:48	14°M54'00	-1.3m	evening set	5032 Aug 09 15:03	5° mp 07'18	
min. Earth dist.	5027 May 07 04:01	13°M59'36	0.67065 AU		5032 Sep 16 23:48	0∘ <b>⊽</b>	
direct	5027 Jun 15 03:11	4°M57'30				_	
desc. node	5027 Jul 06 14:40	7°M32'07		conjunction	5032 Sep 26 20:32	6° <b>≏</b> 19'22	1°02'57
	5027 Aug 31 17:35	0° <b>∡</b>		minimum elong	5032 Sep 26 21:21	6° <b>≏</b> 20'39	1°02'58
	5027 Oct 21 17:14	0°ಕ		max. Earth dist.	5032 Oct 03 21:40	10° <b>≏</b> 49'37	2.66705 AU
	5027 Dec 04 20:03	0° <b>≈</b>			5032 Nov 03 00:51	0°M₊	
	5028 Jan 14 10:51	0° <b>∀</b>		morning rise	5032 Nov 10 23:46	5° <b>™</b> 02'48	
	5028 Feb 22 03:41	$0^{\circ}\Upsilon$			5032 Dec 20 09:17	0° <b>∡</b> 7	
	5028 Mar 31 03:04	$_{0\circ}$ 8			5033 Feb 05 18:29	0°₹	
evening set	5028 Apr 18 00:47	14° <b>8</b> 06'26		desc. node	5033 Feb 25 10:53	12° <b>る</b> 26'14	
	5028 May 08 09:40	$\Pi$ $\circ 0$			5033 Mar 25 09:17	0° <b>≈</b>	
asc. node	5028 May 17 09:00	6° <b>Ⅱ</b> 55'25			5033 May 13 04:02	0° <b>∀</b>	
	5028 Jun 16 20:13	0ංම			5033 Jul 06 01:02	$0$ ° $\Upsilon$	
				retrograde	5033 Sep 03 18:16	17° <b>Ƴ</b> 40'45	
conjunction	5028 Jun 24 07:29	5° <b>©</b> 32'35	0°25'02	opposition	5033 Oct 03 18:36	12° <b>Ƴ</b> 44'35	-5°56'27
minimum elong	5028 Jun 24 05:35	5° <b>5</b> 29'04	0°24'59	greatest brilliancy	5033 Oct 04 09:28	12° <b>Y</b> 34'40	-2.9m
	5028 Jul 28 02:01	$0^{\circ}\Omega$		min. Earth dist.	5033 Oct 05 20:37	12° <b>Ƴ</b> 11'16	0.37318 AU
max. Earth dist.	5028 Aug 07 16:30	7° <b>Ω</b> 28'22	2.48978 AU	direct	5033 Nov 02 23:35	7° <b>Ƴ</b> 37'29	
morning rise	5028 Aug 23 12:42	18° <b>Ω</b> 27'25		asc. node	5034 Jan 07 07:13	29° <b>Ƴ</b> 49'49	
	5028 Sep 09 12:13	o° <b>m</b> y			5034 Jan 07 14:31	0°8	
	5028 Oct 25 07:07	0∘ <b>ত</b>			5034 Feb 25 11:15	$\Pi^{\circ}0$	
	5028 Dec 12 19:47	0° <b>M</b> ,			5034 Apr 12 02:16	0°ಲಾ	
	5029 Feb 04 02:09	0° <b>∡</b> ¹			5034 May 27 18:32	$0^{\circ}\Omega$	
retrograde	5029 May 02 12:55	29° <b>√</b> 11'52			5034 Jul 13 06:40	0° <b>m</b> )	
desc. node	5029 May 23 12:45	26° <b>₹</b> 25'12			5034 Aug 29 12:17	0∘ <b>⊽</b>	
opposition	5029 Jun 09 09:46	20° <b>∡</b> ¹47'04	-0°39'42	evening set	5034 Sep 17 22:20	12° <b>≏</b> 16'30	
greatest brilliancy	5029 Jun 09 13:13	20° <b>∡</b> ¹43'48	-1.6m	•	5034 Oct 15 22:12	0° <b>M</b>	
min. Earth dist.	5029 Jun 15 13:38	18° <b>∡</b> ¹26'34	0.60394 AU	max. Earth dist.	5034 Oct 26 12:33		2.67549 AU
direct	5029 Jul 20 09:25	10° <b>₹</b> 55'30					
	5029 Sep 21 03:07	0°ರ		conjunction	5034 Nov 02 05:58	11° <b>M</b> 01'11	0°36'34
	5029 Nov 10 02:16	0° <b>≈</b>		minimum elong	5034 Nov 02 06:55	11°M02'43	0°36'34
	5029 Dec 22 09:47	0° <b>)</b> €		Č	5034 Dec 01 20:10	0° <b>√</b>	
	5030 Jan 30 19:55	$0^{\circ}\Upsilon$		morning rise	5034 Dec 16 05:44	9° <b>√</b> 19'40	
	5030 Mar 10 06:54	0°8		desc. node	5035 Jan 13 09:06	27° <b>₹</b> ¹45'59	
asc. node	5030 Apr 04 09:04	19° <b>8</b> 29'38			5035 Jan 16 18:09	0°る	
	5030 Apr 18 01:11	0°Ⅱ			5035 Mar 02 11:10	0° <b>≈</b>	
	5030 May 28 00:54	0°e			5035 Apr 14 23:34	0° <b>∀</b>	
evening set	5030 Jun 23 02:20	18°952'25			5035 Apr 14 23:34 5035 May 27 13:12	0°Υ	
o ronning set	5030 Jul 08 19:55	0°Ω			5035 Jul 08 20:05	0°8	
	5050 Jul 00 17.55	0 O C			5035 Jul 08 20:03 5035 Aug 21 20:19	0°U	
					•	0. о п	
conjunction	5030 Aug 17 13:00	27° <b>Ω</b> 1⁄1′⁄17	1°04'42		5035 Oct 16 73:07	()-96	
conjunction	5030 Aug 17 13:00	27° <b>Ω</b> 14'47		retrograde	5035 Oct 16 23:07 5035 Nov 15 01:53		
conjunction minimum elong	5030 Aug 17 12:03	27° <b>Ω</b> 13'12		retrograde	5035 Nov 15 01:53	5° <b>©</b> 39'01	
minimum elong	5030 Aug 17 12:03 5030 Aug 21 15:32	27° <b>№</b> 13'12 0° <b>№</b>	1°04'41	asc. node	5035 Nov 15 01:53 5035 Nov 25 06:30	5°\$39'01 4°\$53'21	0.43310 ATT
	5030 Aug 17 12:03	27° <b>№</b> 13'12 0° <b>№</b>		•	5035 Nov 15 01:53	5° <b>©</b> 39'01	0.43310 AU

opposition	5035 Dec 20 04:03	28° <b>Ⅱ</b> 00'15	1°33'13	max. Earth dist.	5041 Feb 04 09:50		2.40290 AU
greatest brilliancy	5035 Dec 19 15:11	28° <b>Ⅱ</b> 10'58	-2.6m		5041 Feb 10 21:23	0° <b>)</b> €	
direct	5036 Jan 20 21:47	21° <b>Ⅱ</b> 45'58					
	5036 Feb 28 16:36	0°ಲಾ		conjunction	5041 Mar 15 18:17	25° <b>)</b> €21'24	-1°03'26
	5036 Apr 29 20:38	$0^{\circ}\Omega$		minimum elong	5041 Mar 15 19:34	25° <b>¥</b> 23'55	1°03'27
	5036 Jun 20 11:07	0° m/			5041 Mar 21 16:45	0° <b>Υ</b>	
	5036 Aug 09 02:35	0∘ <b>ರ</b> ೧.1%			5041 Apr 28 18:14	%8 0°8	
	=						
	5036 Sep 26 14:24	0°M		morning rise	5041 May 24 11:52	20° <b>8</b> 15'47	
evening set	5036 Oct 23 09:30	16°M56'44			5041 Jun 05 23:06	$\Pi$ °0	
	5036 Nov 12 16:30	0°⊀			5041 Jul 15 04:21	$0$ $\circ$ $\odot$	
max. Earth dist.	5036 Nov 18 10:24	3° <b>∡</b> ¹44'08	2.62945 AU	asc. node	5041 Jul 17 03:14	1° <b>©</b> 27'47	
desc. node	5036 Nov 30 07:53	11° <b>⋌</b> ³31'45			5041 Aug 25 05:43	$0^{\circ}\Omega$	
					5041 Oct 07 23:34	0° <b>m</b> )	
conjunction	5036 Dec 07 19:55	16° <b>х</b> 29′07	-0°04'09		5041 Nov 24 20:46	0∘ <b>⊽</b>	
minimum elong	5036 Dec 07 19:48	16° <b>∡</b> ¹28'55			5042 Jan 22 03:33	0°M₊	
behind sun begin	5036 Dec 07 01:07	15° <b>×</b> 57'58	0 0100	retrograde	5042 Mar 12 08:05	11° <b>M</b> 44'41	
behind sun end		16° <b>₹</b> 59'53		•	5042 Apr 21 11:02	2°M09'26	2°58'17
bennia sun ena	5036 Dec 08 14:30			opposition	•		
	5036 Dec 28 00:31	0° <b>ろ</b>		greatest brilliancy	5042 Apr 21 13:48	2°M₀6'40	-1.3m
morning rise	5037 Jan 22 24:00	17° <b>る</b> 46'46		min. Earth dist.	5042 Apr 22 11:18	1°M45'20	0.67917 AU
	5037 Feb 09 11:31	0° <b>≈</b>			5042 Apr 26 22:20	30° <b>Ŗ</b> Ω	
	5037 Mar 23 04:28	0° <b>ℋ</b>		direct	5042 Jun 01 15:11	22° <b>≏</b> 14'29	
	5037 May 02 11:46	$0^{\circ}$ Y			5042 Jul 11 01:16	0° <b>M</b>	
	5037 Jun 10 23:07	$9^{\circ}$ 8		desc. node	5042 Jul 23 04:39	4°MJ39'06	
	5037 Jul 20 11:35	0° <b>I</b> I			5042 Sep 11 15:24	0° <b>∡</b> ¹	
	5037 Aug 30 11:02	0°9			5042 Oct 30 05:28	ਰ°0 ਰਾ	
asc. node	5037 Oct 12 06:02	28° <b>©</b> 27'06			5042 Dec 12 17:29	0° <b>≈</b>	
asc. node							
	5037 Oct 14 19:14	0°N			5043 Jan 22 04:21	0° <b>)</b> €	
retrograde	5037 Dec 31 20:57	29° <b>Ω</b> 18′22			5043 Mar 01 20:15	0° <b>Υ</b>	
min. Earth dist.	5038 Feb 02 06:35	22° <b>Ω</b> 11'29	0.56594 AU	evening set	5043 Mar 20 20:18	15° <b>Y</b> ′00′14	
opposition	5038 Feb 08 20:51	19° <b>Ω</b> 37'23	4°36'40		5043 Apr 08 18:51	$9^{\circ}$ 8	
greatest brilliancy	5038 Feb 07 18:24	20° <b>Ω</b> 03'13	-1.8m		5043 May 16 23:28	$\Pi^{\circ}0$	
direct	5038 Mar 17 04:39	11° <b>Ω</b> 23′23					
	5038 May 21 11:20	0° m/		conjunction	5043 May 29 08:04	9°Ⅲ33′08	-0°04'03
	5038 Jul 18 01:35	0∘ <u>⊽</u>		minimum elong	5043 May 29 08:26	9° <b>Ⅲ</b> 33'51	
	5038 Sep 07 05:36	0° <b>m</b> .		behind sun begin	5043 May 28 03:56	8° <b>П</b> 39'04	0 0105
desc. node	5038 Oct 18 07:17	25°M33'37		behind sun end	5043 May 30 12:55	10° <b>Ⅲ</b> 28'34	
desc. Hode					•		
	5038 Oct 25 05:39	0° <b>⊼</b>		asc. node	5043 Jun 04 03:00	13° <b>Ⅱ</b> 59'29	
evening set	5038 Nov 30 20:30	24° <b>₹</b> 05'56			5043 Jun 25 06:45	$0$ $\circ$ $60$	
	5038 Dec 09 13:39	0°ප		max. Earth dist.	5043 Jul 19 19:50	18° <b>©</b> 06'01	2.43479 AU
max. Earth dist.	5038 Dec 17 01:13	5°る07'02	2.53265 AU	morning rise	5043 Aug 03 09:18	28° <b>©</b> 34'57	
					5043 Aug 05 09:03	$0^{\circ}\Omega$	
conjunction	5039 Jan 18 23:40	28° <b>る</b> 13'28	-0°47'31		5043 Sep 17 17:36	o° <b>m</b> y	
minimum elong	5039 Jan 18 22:08	28° <b>る</b> 10'43	0°47'31		5043 Nov 02 17:45	0∘ <b>⊽</b>	
	5039 Jan 21 11:06	0° <b>≈</b>			5043 Dec 22 07:15	0°M₊	
	5039 Mar 03 06:45	0° <b>)</b> €			5044 Feb 18 04:11	0° <b>∡</b> 7	
		8° <b>₩</b> 06'32					
morning rise	5039 Mar 14 00:40			retrograde	5044 Apr 16 16:00	15° <b>∡</b> 18'09	0022154
	5039 Apr 11 14:06	0° <b>Υ</b>		opposition	5044 May 25 10:43	6° <b>₹</b> 28'06	0°32'54
	5039 May 20 02:09	0° <b>8</b>		greatest brilliancy	5044 May 25 13:21	6° <b>₹</b> ¹25'33	-1.5m
	5039 Jun 27 15:01	$\Pi$ $^{\circ}0$		min. Earth dist.	5044 May 30 05:24	4° <b>∡</b> ³37′07	0.63748 AU
	5039 Aug 06 03:57	0		desc. node	5044 Jun 09 03:19	1° <b>∡</b> °02′16	
asc. node	5039 Aug 30 03:50	17° <b>©</b> 30'47			5044 Jun 12 11:23	30°RM₊	
	5039 Sep 16 21:17	$0^{\circ}\Omega$		direct	5044 Jul 05 20:37	26°M27'03	
	5039 Nov 01 19:15	0° Mp			5044 Jul 30 20:33	0° <b>∡</b> ¹	
	5039 Dec 30 09:44	0∘ <b>⊽</b>			5044 Oct 04 08:30	ರ°0	
retrograde	5040 Feb 07 01:47	8° <b>≏</b> 09'24			5044 Nov 19 18:47	0° <b>≈</b>	
retrograde	5040 Mar 13 19:43	30°RM)			5044 Dec 31 03:34	0° <b>∺</b>	
i. Danda diad		-	0.65401 ATT				
min. Earth dist.	5040 Mar 15 11:33	29° m 20'23	0.65481 AU		5045 Feb 08 04:01	0°Υ •••	
opposition	5040 Mar 18 07:50	28° Mp 12'00	4°27'14		5045 Mar 18 08:41	0° <b>8</b>	
greatest brilliancy	5040 Mar 17 21:06	28° Mp 22′46	-1.4m	asc. node	5045 Apr 21 01:39	26° <b>8</b> 17'57	
direct	5040 Apr 26 18:26	18° <b>m</b> 51'42			5045 Apr 25 20:49	$\Pi$ °0	
	5040 Jun 14 13:35	0。 <b>亚</b>		evening set	5045 May 30 15:12	26° <b>Ⅲ</b> 20′01	
	5040 Aug 14 23:26	$0^{\circ}$ M			5045 Jun 04 13:47	$0$ $\circ$ $\mathfrak{s}$	
desc. node	5040 Sep 04 06:05	11°M36'19			5045 Jul 16 02:05	$0^{\circ}\Omega$	
	5040 Oct 04 14:09	0° <b>∡</b> 7					
	5040 Nov 19 15:27	0°ප		conjunction	5045 Jul 29 12:15	9° <b>Ω</b> 23'46	0°55'17
	5040 Jan 01 11:28	0° <b>≈</b>		minimum elong	5045 Jul 29 10:24	9° <b>Ω</b> 20'34	
avaning set				minimum ciong			0 55 10
evening set	5041 Jan 15 15:17	10° <b>≈</b> 20′20			5045 Aug 28 16:11	0° <b>m</b> )	

To all III	5045 4 20 10 20	007.22150	2.56462.444	,	5050 D 11 22 52	0.00	
max. Earth dist.	5045 Aug 29 12:20	-	2.56462 AU	asc. node	5050 Dec 11 22:52	26° <b>8</b> 57'24	
morning rise	5045 Sep 20 13:27	15° Mp 12'26		direct	5050 Dec 22 23:47	26° <b>8</b> 08'17	
	5045 Oct 13 07:26	0∘ <b>⊽</b>			5051 Jan 17 04:02	0°II	
	5045 Nov 29 21:08	0° <b>M</b> .			5051 Mar 22 17:07	0°®	
	5046 Jan 18 18:44	0° <b>∡</b>			5051 May 12 06:43	$0$ ° $\Omega$	
	5046 Mar 14 18:37	0° <b>ろ</b>			5051 Jun 30 02:10	0° <b>™</b>	
desc. node	5046 Apr 27 01:56	18° <b>る</b> 11'15			5051 Aug 17 12:50	0∘ <b>⊽</b>	
retrograde	5046 May 31 05:27	24° <b>る</b> 10'34			5051 Oct 04 12:02	0° <b>M</b>	
opposition	5046 Jul 06 02:26	16° <b>る</b> 37'57		evening set	5051 Oct 10 05:46	3° <b>™</b> 37'31	
greatest brilliancy	5046 Jul 06 21:53	16° <b>る</b> 20'21	-1.9m	max. Earth dist.	5051 Nov 09 19:47	23° <b>M</b> 07'42	2.65407 AU
min. Earth dist.	5046 Jul 14 00:59	13° <b>る</b> 45'46	0.53448 AU		5051 Nov 20 11:11	0° <b>∡</b> ¹	
direct	5046 Aug 14 11:21	7° <b>る</b> 26'02					
	5046 Oct 20 06:42	0° <b>≈</b>		conjunction	5051 Nov 24 06:15	2° <b>∡</b> ¹27'40	0°12'47
	5046 Dec 05 22:28	0° <b>∀</b>		minimum elong	5051 Nov 24 06:38	2° <b>∡</b> ¹28'19	0°12'48
	5047 Jan 15 21:03	$0$ ° $\Upsilon$		behind sun begin	5051 Nov 23 19:09	2° <b>∡</b> 09'41	
	5047 Feb 24 04:55	$9^{\circ}$ 8		behind sun end	5051 Nov 24 18:07	2° <b>∡</b> ¹46'57	
asc. node	5047 Mar 09 00:26	9° <b>8</b> 48'03		desc. node	5051 Dec 17 22:49	17° <b>∡</b> 59′23	
	5047 Apr 04 15:47	$\Pi^{\circ}0$			5052 Jan 04 23:28	0° <b>ප</b>	
	5047 May 15 06:39	0°ಅ		morning rise	5052 Jan 08 02:01	2° <b>る</b> 05'16	
	5047 Jun 26 15:30	$0^{\circ}\Omega$			5052 Feb 17 20:06	0° <b>≈</b>	
evening set	5047 Jul 24 07:01	18° <b>Ω</b> 52'53			5052 Mar 31 02:33	0° <b>∀</b>	
	5047 Aug 09 21:49	0° <b>m</b> )			5052 May 11 01:13	$0^{\circ}\mathbf{\Upsilon}$	
					5052 Jun 20 05:11	0°8	
conjunction	5047 Sep 12 16:58	22° Mp 10'20	1°07'18		5052 Jul 30 14:13	$\Pi^{\circ}0$	
minimum elong	5047 Sep 12 17:17	22° Mp 10'51	1°07'18		5052 Sep 11 04:45	$0$ $\circ$ $\mathfrak{S}$	
_	5047 Sep 24 19:35	0∘ <b>⊽</b>		asc. node	5052 Oct 28 21:40	28° <b>©</b> 06'23	
max. Earth dist.	5047 Sep 25 13:15	0° <b>ഫ</b> 28'27	2.64890 AU		5052 Nov 01 22:29	$0^{\circ}\Omega$	
morning rise	5047 Oct 29 04:13	21° <b>♀</b> 57'50		retrograde	5052 Dec 15 04:36	11° <b>Ω</b> 11'08	
Ü	5047 Nov 10 20:41	0° <b>M</b> .		min. Earth dist.	5053 Jan 14 07:16	4° <b>Ω</b> 54'42	0.51640 AU
	5047 Dec 28 14:28	0° <b>⊼</b> ⊓		greatest brilliancy	5053 Jan 20 22:15	2° <b>Ω</b> 25'37	-2.1m
	5048 Feb 15 00:48	0°₹		opposition	5053 Jan 22 02:20	1° <b>Ω</b> 59'07	
desc. node	5048 Mar 14 01:13	16° <b>る</b> 59'57		rr	5053 Jan 27 12:20	30°Rூ	
	5048 Apr 05 00:44	0° <b>≈</b>		direct	5053 Feb 25 19:47	24°\$24'08	
	5048 May 30 11:11	0° <b>∀</b>			5053 Mar 29 18:25	$0^{\circ}\Omega$	
retrograde	5048 Aug 02 14:14	18° <b>)</b> 45'41			5053 Jun 03 18:42	0° m)	
opposition	5048 Sep 02 16:37	13° <b>¥</b> 19′02	-6°26'40		5053 Jul 26 19:54	0∘ <b>⊽</b>	
greatest brilliancy	5048 Sep 04 05:28	12° <b>)</b> 52'05			5053 Sep 14 15:42	0° <b>™</b>	
min. Earth dist.	5048 Sep 09 07:27	11° <b>)</b> 23'25	0.40367 AU		5053 Nov 01 04:53	0° <b>⊼</b>	
direct	5048 Oct 05 20:34	7° <b>₩</b> 00'51	0.10307 110	desc. node	5053 Nov 03 21:34	1° <b>×</b> 744'38	
uncet	5048 Dec 10 02:34	0° <b>Υ</b>		evening set	5053 Nov 15 07:44	9° ×7'11'27	
asc. node	5049 Jan 24 00:16	28° <b>Y</b> ′51'09		max. Earth dist.	5053 Dec 04 23:40	22°×713'49	2.57640 AU
use. Hode	5049 Jan 25 16:35	0°8		max. Latti dist.	5053 Dec 16 11:58	0°る	2.37040710
	5049 Mar 09 19:19	0°II			3033 Dec 10 11.30	۰ <b>ن</b>	
	5049 Apr 21 22:02	0°50		conjunction	5054 Jan 01 10:33	10° <b>る</b> 55'40	-0°31'32
	5049 Jun 05 03:30	$0 {\circ} \mathcal{O}$		minimum elong	5054 Jan 01 09:26	10 <b>さ</b> 53 40	
	5049 Jul 20 17:58	0° m)		minimum crong	5054 Jan 28 13:56	0° <b>≈</b>	0 3131
evening set	5049 Sep 03 06:33	28° Mp 36'20		morning rise	5054 Feb 20 09:18	16° <b>≈</b> 28'46	
evening set	5049 Sep 05 11:03	0∘ <b>⊽</b>		morning rise	5054 Mar 10 16:58	0° <b>∀</b>	
max. Earth dist.	5049 Oct 17 20:22		2.67878 AU		5054 Apr 19 08:15	0° <b>Υ</b>	
max. Darm dist.	3019 300 17 20.22	20 - 20 32	2.07070710		5054 May 28 03:29	0°8	
conjunction	5049 Oct 19 07:44	27° <b>≏</b> 52'41	0°48'58		5054 Jul 05 22:32	0°II	
minimum elong	5049 Oct 19 07:44 5049 Oct 19 08:49	27° <b>⊆</b> 54'23	0°48'59		5054 Aug 14 18:49	0°©	
minimum ciong	5049 Oct 19 08:49 5049 Oct 22 15:54	27 <u>=</u> 3423 0°M	0 4039	asc. node	5054 Sep 15 21:48	22° <b>©</b> 58'16	
morning rise	5049 Dec 02 09:21	25°M58'14		asc. node	5054 Sep 26 04:37	0°Ω	
morning risc	5049 Dec 08 16:09	25 IIG56 14 0° <b>⊼</b> ¹			5054 Nov 13 13:26	0° <b>m</b> )	
	5050 Jan 24 00:40	0°る		retrograde	5055 Jan 24 06:51	24° Mp 14'43	
desc. node	5050 Jan 30 00:35	3° <b>る</b> 55'15		min. Earth dist.	5055 Feb 28 21:10	-	0.62726 AU
desc. node	5050 Mar 10 13:31	0°≈		opposition		16° Mp 01'22	4°43'34
		0 <b>≈</b> 0° <b>∺</b>		**	5055 Mar 05 05:58	14° Mp 16'48	
	5050 Apr 24 09:09	0° <del>Υ</del> 0° <b>Υ</b>		greatest brilliancy	5055 Mar 04 12:25	14°M)34'19	-1.5m
	5050 Jun 07 21:44			direct	5055 Apr 12 15:09	5° <b>™</b> 17'48	
	5050 Jul 23 14:17	0° <b>Η</b>			5055 Jun 30 13:51	ი∘ <b>ო</b> 0∘ <b>ত</b>	
natra an- J-	5050 Sep 16 19:08	0°Ⅱ 7°Ⅲ20110		dogo = -1-	5055 Aug 24 21:02	0°M	
retrograde	5050 Oct 21 13:09	7° <b>Ⅱ</b> 39'19	0.20010 411	desc. node	5055 Sep 21 20:33	16°M43'18	
min. Earth dist.	5050 Nov 17 00:57		0.38918 AU		5055 Oct 13 03:47	0° <b>∡</b> ¹ 0° <b>≥</b>	
opposition	5050 Nov 22 23:58	1° <b>Ⅱ</b> 27'35		ovenint	5055 Nov 27 20:13	0°る 20° <b>ス</b> 52/52	
greatest brilliancy	5050 Nov 22 18:05	1° <b>Ⅱ</b> 31'56	-2.9m	evening set	5055 Dec 27 21:55	20°る52'53	
	5050 Nov 28 01:34	30°₹ <b>႘</b>			5056 Jan 09 15:49	0° <b>≈</b>	

max. Earth dist.	5056 Jan 11 06:27	1°≈09'45	2.45454 AU		5061 Jan 28 02:57	0° <b>∡</b> ¹	
max. Dartif dist.	5056 Feb 19 04:55	0° <b>∀</b>	2.13131710		5061 Apr 01 17:10	0°る	
		* /(		retrograde	5061 May 12 08:39	8° <b>る</b> 07'58	
conjunction	5056 Feb 20 03:16	0° <b>)</b> (42′19	-1°04'11	desc. node	5061 May 13 17:03	8° <b>ට</b> 07'18	
minimum elong	5056 Feb 20 02:29	0° <b>)</b> (40'49	1°04'10	opposition	5061 Jun 18 13:56	29° <b>₹</b> '59'50	-1°26'31
C	5056 Mar 29 04:18	$0^{\circ}\mathbf{\Upsilon}$		11	5061 Jun 18 13:46	30°₽ <b>⋌</b>	
morning rise	5056 Apr 23 13:31	19° <b>Ƴ</b> 54'23		greatest brilliancy	5061 Jun 18 22:15	29° <b>₹</b> ′52'02	-1.7m
	5056 May 06 09:13	0°8		min. Earth dist.	5061 Jun 25 10:23	27° <b>∡</b> °25'42	0.58119 AU
	5056 Jun 13 16:16	$\Pi^{\circ}0$		direct	5061 Jul 29 02:39	20° <b>∡</b> 18′25	
	5056 Jul 22 22:48	$0$ $\circ$ $\odot$			5061 Sep 09 02:40	8°0	
asc. node	5056 Aug 02 20:49	8° <b>©</b> 07'09			5061 Nov 03 02:21	0° <b>≈</b>	
	5056 Sep 02 02:59	$0 {\circ} \Omega$			5061 Dec 16 10:37	0° <b>)</b>	
	5056 Oct 16 07:38	O° <b>m</b> y			5062 Jan 25 06:33	$0^{\circ}$ Y	
	5056 Dec 05 00:31	0∘ <b>⊽</b>			5062 Mar 04 23:24	$0^{\circ}S$	
retrograde	5057 Feb 27 01:12	29° <b>≏</b> 07'31		asc. node	5062 Mar 25 17:29	16° <b>8</b> 03'41	
opposition	5057 Apr 08 08:28	19° <b>≏</b> 20'41	3°39'41		5062 Apr 12 22:19	$\Pi$ °0	
greatest brilliancy	5057 Apr 08 06:59	19° <b>≏</b> 22'11	-1.3m		5062 May 23 02:02	0° <b>©</b>	
min. Earth dist.	5057 Apr 07 20:17	19° <b>≙</b> 32'52	0.67736 AU		5062 Jul 04 00:41	$0$ ° $\Omega$	
direct	5057 May 19 00:10	9° <b>Ω</b> 36′20		evening set	5062 Jul 05 01:16	0° <b>Ω</b> 42'55	
	5057 Jul 27 20:21	0°M			5062 Aug 16 22:45	0° <b>™</b>	
desc. node	5057 Aug 08 19:19	5°M54'36					
	5057 Sep 20 22:24	0° <b>∡</b> 7		conjunction	5062 Aug 27 10:29	6° Mp 58'42	1°07'11
	5057 Nov 07 04:31	ි ව°0		minimum elong	5062 Aug 27 10:04	6° Mp 58'01	1°07'10
	5057 Dec 20 07:50	0° <b>≈</b>		max. Earth dist.	5062 Sep 15 17:58	19° <b>m</b> 40'20	2.62220 AU
. ,	5058 Jan 29 17:13	0° <del>)(</del>			5062 Oct 01 16:08	0° <b>™</b>	
evening set	5058 Feb 21 10:11	17° <b>¥</b> 29'53 0° <b>Ƴ</b>		morning rise	5062 Oct 14 20:23	8° <b>£</b> 28'04	
	5058 Mar 09 09:32	0° <b>∀</b>			5062 Nov 17 19:28	0° <b>ጤ</b> 0° <b>ዶ</b>	
	5058 Apr 16 08:24	0.0			5063 Jan 05 03:21 5063 Feb 24 03:36	0° <b>ਨ</b>	
agniumation	5050 Apr 20 10:50	10° <b>8</b> 37'21	0024127	desc. node		0 3 20° <b>ろ</b> 04'22	
conjunction minimum elong	5058 Apr 29 18:58 5058 Apr 29 22:06	10 <b>8</b> 3721		desc. node	5063 Mar 31 16:18 5063 Apr 19 15:23	20 <b>3</b> 04 22 0° <b>≈</b>	
minimum ciong	5058 May 24 12:13	10 <b>O</b> 43 32 0° <b>Ⅱ</b>	0 34 30	retrograde	5063 Jul 06 00:12	0 ≈ 24°≈40'56	
max. Earth dist.	5058 Jun 14 18:35		2.38292 AU	opposition	5063 Aug 08 05:05	18° <b>≈</b> 21'31	-5°22'38
asc. node	5058 Jun 20 18:48	20° <b>I</b> 58'50	2.302)2110	greatest brilliancy	5063 Aug 09 18:37	17°≈50'56	
use. Hode	5058 Jul 02 17:35	0°95		min. Earth dist.	5063 Aug 16 15:21	15° <b>≈</b> 37'57	0.45218 AU
morning rise	5058 Jul 09 16:16	5° <b>©</b> 11'08		direct	5063 Sep 13 08:56	10° <b>≈</b> 39'21	0.43210710
morning rise	5058 Aug 12 18:01	0° <b>Ω</b>			5063 Nov 11 10:30	0° <b>∀</b>	
	5058 Sep 25 03:23	0° mp			5063 Dec 28 08:52	0° <b>Υ</b>	
	5058 Nov 10 13:43	0∘ <del>⊽</del>			5064 Feb 08 01:35	0°8	
	5058 Dec 31 20:59	o° <b>m</b> ₊		asc. node	5064 Feb 10 15:45	1° <b>8</b> 53'51	
	5059 Mar 14 09:23	0°⊀			5064 Mar 20 00:25	$\Pi^{\circ}0$	
retrograde	5059 Apr 02 23:24	2° <b>₹</b> 08'32			5064 Apr 30 18:44	0ಂತಾ	
-	5059 Apr 21 06:53	30°RM₊			5064 Jun 13 01:35	$0$ $^{\circ}\Omega$	
opposition	5059 May 12 10:18	22°M57'54	1°35'56		5064 Jul 28 00:21	0° <b>™</b>	
greatest brilliancy	5059 May 12 15:20	22°M52'58	-1.4m	evening set	5064 Aug 18 21:28	14° <b>Tp</b> 15'40	
min. Earth dist.	5059 May 15 17:48	21°M39'57	0.66154 AU		5064 Sep 12 07:53	0∘ <b>ত</b>	
direct	5059 Jun 22 22:41	12° <b>™</b> 55′08					
desc. node	5059 Jun 26 17:51	13° <b>™</b> 00′28		conjunction	5064 Oct 05 04:13	14° <b>≏</b> 35'45	0°58'43
	5059 Aug 23 00:27	0°⊀		minimum elong	5064 Oct 05 05:11	14° <b>≏</b> 37'18	0°58'43
	5059 Oct 15 17:33	0°₹		max. Earth dist.	5064 Oct 09 02:48		2.67367 AU
	5059 Nov 29 12:30	0° <b>≈</b>			5064 Oct 29 09:30	0°M	
	5060 Jan 09 09:15	0° <b>∀</b>		morning rise	5064 Nov 18 18:46	12°M56'57	
	5060 Feb 17 04:32	0° <b>Υ</b>			5064 Dec 15 14:16	0° <b>∡</b>	
	5060 Mar 26 05:24	0° <b>8</b>			5065 Jan 31 13:20	0°丟	
	5060 May 03 13:13	0° <b>П</b>		desc. node	5065 Feb 15 15:02	9° <b>ප</b> 40'06	
evening set	5060 May 04 01:30	0° <b>Ⅱ</b> 23'44			5065 Mar 19 06:41	0° <b>≈</b>	
asc. node	5060 May 07 18:32	3°Ⅱ15'40 0°©			5065 May 05 04:58	0° <b>ℋ</b> 0° <b>Ƴ</b>	
	5060 Jun 12 00:54	0್ನನಾ			5065 Jun 22 19:27		
conjunction	5060 Jul 07 21:42	1806250105	0038131	ratrograda	5065 Aug 21 16:17	0° <b>と</b> 5° <b>と</b> 55'45	
conjunction minimum elong	5060 Jul 07 21:42 5060 Jul 07 19:25	18° <b>©</b> 58'05 18° <b>©</b> 53'58	0°38'21 0°38'19	retrograde min. Earth dist.	5065 Sep 22 02:56 5065 Oct 21 05:08	1° <b>8</b> 08'09	0.36939 AU
minimum ciong	5060 Jul 07 19:25 5060 Jul 23 07:48	0°Ω	0 30 17	opposition	5065 Oct 21 05:08 5065 Oct 22 06:16	0° <b>8</b> 51'30	
max. Earth dist.	5060 Aug 16 13:19	0 <b>δ</b> ε 16° <b>Ω</b> 55'41	2.51807 AU	greatest brilliancy	5065 Oct 22 06:55	0° <b>8</b> 51'04	
morning rise	5060 Sep 03 06:13	28° <b>Ω</b> 59'42	2.5100/ AU	5reatest offiliality	5065 Oct 25 12:25	0 <b>O</b> 31 04 30°R <b>Υ</b>	J.VIII
morning 1150	5060 Sep 03 00:13	20 <b>0 (</b> 39 42		direct	5065 Nov 20 15:57	25° <b>Υ</b> 58'27	
	5060 Oct 20 10:01	0∘ <del>ত</del> مسر			5065 Dec 16 01:04	0° <b>8</b>	
	5060 Dec 07 11:29	0° <b>m</b>		asc. node	5065 Dec 28 15:50	4° <b>8</b> 27'47	
	2000 200 07 11.27	ÿ 11 <b>0</b>			1000 200 20 15.50	. 52747	

	5066 F. 1. 15 20 10	22			5051 1 00 00 00	00 00110	0055110
	5066 Feb 15 20:10	0°Ⅱ		conjunction	5071 Jan 29 20:32	9°≈28'12	
	5066 Apr 05 02:27	0°50		minimum elong	5071 Jan 29 19:00	9° <b>≈</b> 25'23	0°55'18
	5066 May 21 23:03	$0$ $\circ$ $\Omega$			5071 Feb 26 12:43	0° <b>∀</b>	
	5066 Jul 08 02:30	0° <b>m</b>		morning rise	5071 Mar 27 19:47	22° <b>)</b> € 20′22	
	5066 Aug 24 16:51	0∘ <b>⊽</b>			5071 Apr 06 17:21	0° <b>Y</b>	
evening set	5066 Sep 26 03:18	20° <b>Ω</b> 25'24			5071 May 15 02:36	0₀ <b>႙</b>	
	5066 Oct 11 06:53	0° <b>M</b>			5071 Jun 22 12:43	$\Pi$ °0	
max. Earth dist.	5066 Oct 31 16:20	12° <b>M</b> 57'52	2.67020 AU		5071 Jul 31 21:57	0ං <b>ම</b>	
				asc. node	5071 Aug 20 12:58	14°927'10	
conjunction	5066 Nov 10 05:20	19° <b>™</b> 03'56			5071 Sep 11 07:59	$0 ^{\circ} \Omega$	
minimum elong	5066 Nov 10 06:08	19° <b>™</b> 05'12	0°28'19		5071 Oct 26 08:33	0° <b>m</b> þ	
	5066 Nov 27 05:04	0° <b>∡</b> ¹			5071 Dec 18 19:48	0∘ <b>⊽</b>	
morning rise	5066 Dec 24 08:27	17° <b>∡</b> 741'12		retrograde	5072 Feb 14 18:59	16° <b>≙</b> 14'56	
desc. node	5067 Jan 03 13:12	24° <b>∡</b> °24′38		min. Earth dist.	5072 Mar 24 02:10	7° <b>≏</b> 08'31	0.66562 AU
	5067 Jan 11 23:25	0° <b>ප</b>		opposition	5072 Mar 26 02:42	6° <b>£</b> 19'56	4°12'35
	5067 Feb 25 08:27	0° <b>≈</b>		greatest brilliancy	5072 Mar 25 19:32	6° <b>£</b> 27′06	-1.3m
	5067 Apr 09 08:54	0° <b>)</b> €			5072 Apr 12 20:19	30°R, Mp	
	5067 May 21 05:54	$0^{\circ}\mathbf{\Upsilon}$		direct	5072 May 05 01:02	26° Mp 49'56	
	5067 Jul 01 13:18	0°B			5072 May 29 07:20	0∘ <b>⊽</b>	
	5067 Aug 12 15:38	$\Pi^{\circ}0$			5072 Aug 08 10:42	0° <b>M</b> .	
	5067 Sep 28 17:02	0°ಅ		desc. node	5072 Aug 25 09:52	9°M20'16	
asc. node	5067 Nov 15 15:35	18° <b>©</b> 54'59			5072 Sep 29 07:18	0° <b>∡</b> ¹	
retrograde	5067 Nov 27 04:38	19° <b>9</b> 51'48			5072 Nov 14 18:06	0°ප	
min. Earth dist.	5067 Dec 25 00:50	14°\$29'22	0.46231 AU		5072 Dec 27 16:49	0° <b>≈</b>	
opposition	5068 Jan 02 10:31	11°532'33	2°43'00	evening set	5073 Jan 28 01:50	23° <b>≈</b> 09'18	
greatest brilliancy	5068 Jan 01 12:46	11°951'44		evening sec	5073 Feb 06 02:58	0° <b>∀</b>	
direct	5068 Feb 04 07:47	4°9547'02	2.7111	max. Earth dist.	5073 Mar 01 02:56		2.37866 AU
direct	5068 Apr 20 23:20	0°Ω		max. Lartii dist.	5073 Mar 16 21:28	0°Υ	2.57600 AC
	5068 Jun 14 07:17	0° <b>m</b> )			3073 Iviai 10 21.28	U I	
		0∘ <b>⊽</b>		agniunation	5073 Mar 31 07:20	11° <b>Υ</b> 20'20	0°57'00
	5068 Aug 03 21:41	0°M		conjunction	5073 Mar 31 10:02	11° <b>Y</b> 25'38	
avanina aat	5068 Sep 21 19:27	25°M11'24		minimum elong		0° <b>8</b>	0 3700
evening set	5068 Oct 31 14:33	23 IIG11 24 0° 🗷			5073 Apr 23 22:01	0°II	
1 1	5068 Nov 08 01:23				5073 Jun 01 02:15		
desc. node	5068 Nov 20 11:44	8° <b>∡</b> 705'43	2 (1274 411	morning rise	5073 Jun 10 22:55	7° <b>II</b> 38'53	
max. Earth dist.	5068 Nov 24 05:41	10° <b>x</b> '33'16	2.61274 AU	asc. node	5073 Jul 07 12:14	27° <b>Ⅱ</b> 54'53	
	50(0 D 1 ( 11 10	250 310155	001.411.6		5073 Jul 10 06:47	0° <b>©</b>	
conjunction	5068 Dec 16 11:19	25° <b>₹</b> 19'57			5073 Aug 20 06:28	$0^{\circ}\Omega$	
minimum elong	5068 Dec 16 10:49	25° <b>∡</b> 19'06	0°14'13		5073 Oct 02 19:04	0° <b>m</b> y	
behind sun begin	5068 Dec 16 01:29	25° <b>₹</b> 03'27			5073 Nov 18 22:34	0∘ <b>⊽</b>	
behind sun end	5068 Dec 16 20:08	25° <b>∡</b> ³34'46			5074 Jan 12 11:06	0° <b>M</b> ₊	
	5068 Dec 23 09:26	0°る		retrograde	5074 Mar 20 01:51	19°ML24'48	
morning rise	5069 Feb 01 16:39	27° <b>る</b> 51'33		opposition	5074 Apr 29 00:05	9° <b>M</b> 57'14	2°30'16
	5069 Feb 04 17:19	0° <b>≈</b>		greatest brilliancy	5074 Apr 29 04:19	9° <b>M</b> 53′02	-1.3m
	5069 Mar 18 05:16	0° <b>∀</b>		min. Earth dist.	5074 Apr 30 19:49	9° <b>M</b> 13′58	0.67570 AU
	5069 Apr 27 06:20	$0^{\circ}$ Y			5074 Jun 07 04:07	30° <b>₹</b> Ω	
	5069 Jun 05 10:58	0°8		direct	5074 Jun 09 08:42	29° <b>≏</b> 58'12	
	5069 Jul 14 15:35	$\Pi$ °0			5074 Jun 11 13:46	0° <b>M</b> ₊	
	5069 Aug 24 01:26	0		desc. node	5074 Jul 13 08:56	5° <b>M</b> 57′50	
asc. node	5069 Oct 02 13:41	27° <b>©</b> 14'17			5074 Sep 04 20:10	0° <b>∡</b> ¹	
	5069 Oct 06 20:21	$0$ $^{\circ}$ $\Omega$			5074 Oct 24 18:31	0°ಕ	
	5069 Nov 30 23:33	0° <b>m</b> y			5074 Dec 07 15:57	0° <b>≈</b>	
retrograde	5070 Jan 09 16:44	9° <b>™</b> 07'30			5075 Jan 17 06:02	0° <b>∀</b>	
min. Earth dist.	5070 Feb 12 07:20	1° <b>m</b> 35'09	0.59029 AU		5075 Feb 24 22:49	$0$ ° $\Upsilon$	
	5070 Feb 16 07:57	30° <b>Ŗ</b> Ω			5075 Apr 03 21:43	$9^{\circ}$ 8	
greatest brilliancy	5070 Feb 17 03:26	29° <b>Ω</b> 40'43	-1.7m	evening set	5075 Apr 06 06:47	1° <b>8</b> 52'47	
opposition	5070 Feb 18 03:16	29° <b>Ω</b> 17'11	4°45'11		5075 May 12 02:54	$\Pi$ $\circ 0$	
direct	5070 Mar 27 05:51	20° <b>Ω</b> 45'17		asc. node	5075 May 25 09:54	10° <b>Ⅱ</b> 15'47	
	5070 May 09 12:48	0° <b>m</b> ∕					
	5070 Jul 11 16:17	0∘ <b>⊽</b>		conjunction	5075 Jun 14 00:28	25° <b>Ⅱ</b> 10′14	0°13'19
	5070 Sep 02 00:11	$0^{\circ}$ M.		minimum elong	5075 Jun 13 23:18	25° <b>Ⅲ</b> 08′02	0°13'17
desc. node	5070 Oct 08 10:51	22°M23'48		behind sun begin	5075 Jun 13 07:33	24° <b>Ⅲ</b> 38′24	
	5070 Oct 20 10:13	0° <b>∡</b> ″		behind sun end	5075 Jun 14 15:02	25° <b>Ⅱ</b> 37'38	
	5070 Dec 04 21:36	ರ°ರ			5075 Jun 20 10:58	0ංම	
evening set	5070 Dec 10 05:41	3° <b>ප</b> 38'33			5075 Jul 31 13:54	$0^{\circ}\Omega$	
max. Earth dist.	5070 Dec 25 04:38	13° <b>る</b> 59'12	2.50620 AU	max. Earth dist.	5075 Aug 01 03:35	0° <b>Ω</b> 24'18	2.46566 AU
	5071 Jan 16 18:53	0° <b>≈</b>		morning rise	5075 Aug 15 18:30	10° <b>Ω</b> 42'12	
					5075 Sep 12 21:51	0° <b>m</b>	

	5075 Oct 28 17:08	0∘ <b>ত</b>		aca mada	5081 Jan 14 08:08	28° <b>Y</b> 56'52	
	5075 Dec 16 13:12	0°M		asc. node	5081 Jan 16 00:21	0° <b>8</b>	
	5076 Feb 09 05:07	0° <b>⊼</b> 7			5081 Jan 16 00.21 5081 Mar 02 12:35	0°II	
retrograde	5076 Apr 25 13:25	0 <b>x</b> · 23° <b>x</b> 35'41			5081 Apr 15 19:30	0°9	
retrograde desc. node	*	16° × 19'22			5081 May 30 17:31	0°Ω	
	5076 May 30 07:27 5076 Jun 02 20:24	16 <b>x</b> ·1922 14° <b>x</b> <sup>7</sup> 58'51	0000100		5081 May 50 17.31 5081 Jul 15 18:23	0°m)	
opposition	5076 Jun 02 20:24 5076 Jun 02 21:06	14 <b>x</b> ·3831 14° <b>x</b> <sup>7</sup> 58'10	-0 08 08 -1.6m			0∘ <b>रा</b> ० ार्ष	
greatest brilliancy min. Earth dist.	5076 Jun 08 09:09	14 × 38 10 12° × 51'30		evening set	5081 Aug 31 17:33 5081 Sep 11 17:48	0 <b>≗</b> 6° <b>£</b> 59'11	
direct	5076 Jul 14 01:20	5° <b>₹</b> 01'55	0.02010 AU	evening set	5081 Oct 18 00:50	0° <b>™</b>	
direct	5076 Sep 26 13:30	0°る		max. Earth dist.	5081 Oct 18 00.30 5081 Oct 22 23:38	3°ML08'39	2.67798 AU
	5076 Sep 26 13.30 5076 Nov 13 19:09	0°≈		max. Earm dist.	3081 Oct 22 23.38	3 11608 39	2.07798 AU
	5076 Nov 13 19.09 5076 Dec 25 16:59	0 <b>≈</b>		aaniumatian	5081 Oct 27 07:51	5° <b>M</b> 54'17	0°41'59
	5076 Dec 23 16.39 5077 Feb 02 22:51	0° <b>Υ</b>		conjunction	5081 Oct 27 07:51 5081 Oct 27 08:52	5°M55'55	0°41'59
				minimum elong		o iicoo oo 0°⊀¹	0 41 39
1	5077 Mar 13 06:34	0°8			5081 Dec 04 00:01		
asc. node	5077 Apr 11 09:49	22° <b>8</b> 42'00		morning rise	5081 Dec 10 06:52	4° <b>₹</b> 03'09	
	5077 Apr 20 21:16	0° <b>I</b>		1 1	5082 Jan 19 02:58	0°る	
	5077 May 30 16:38	0.2 0.2		desc. node	5082 Jan 20 03:38	0° <b>る</b> 40'34	
evening set	5077 Jun 13 07:49	9° <b>©</b> 59'15			5082 Mar 05 04:45	0° <b>≈</b>	
	5077 Jul 11 07:13	$0$ $\circ$ $\Omega$			5082 Apr 18 06:18	0° <b>∀</b>	
					5082 May 31 13:49	0° <b>Υ</b>	
conjunction	5077 Aug 09 15:16	20° <b>Ω</b> 18'48			5082 Jul 13 23:55	0°B	
minimum elong	5077 Aug 09 13:56	20° <b>Ω</b> 16'32	1°01'34		5082 Aug 29 12:43	$\Pi^{\circ 0}$	
	5077 Aug 23 22:57	0° <b>m</b> ∕		retrograde	5082 Nov 04 23:34	24° <b>Ⅱ</b> 27'40	
max. Earth dist.	5077 Sep 05 06:17		2.58741 AU	min. Earth dist.	5082 Dec 01 08:24	19° <b>Ⅱ</b> 50′25	0.41136 AU
morning rise	5077 Sep 29 18:10	24° <b>m</b> ) 17'42		asc. node	5082 Dec 02 07:12	19° <b>Ⅱ</b> 32'48	
	5077 Oct 08 13:45	0∘ <b>ऌ</b>		opposition	5082 Dec 08 22:06	17° <b>Ⅱ</b> 27'06	0°26'24
	5077 Nov 24 22:05	0° <b>M</b>		greatest brilliancy	5082 Dec 08 18:36	17° <b>Ⅱ</b> 29'52	-2.7m
	5078 Jan 13 02:32	0°⊀		direct	5083 Jan 08 18:35	11° <b>Ⅱ</b> 38'40	
	5078 Mar 06 15:52	0°ප			5083 Mar 11 09:11	$0$ $\circ$	
desc. node	5078 Apr 17 06:16	20° <b>පි</b> 26'35			5083 May 05 05:56	$0 {\circ} \Omega$	
	5078 May 13 08:38	0° <b>≈</b>			5083 Jun 24 10:51	O° Mp	
retrograde	5078 Jun 12 02:57	4° <b>≈</b> 42'01			5083 Aug 12 12:38	0∘ <b>ত</b>	
	5078 Jul 09 20:51	30°₽₹			5083 Sep 29 18:48	$0^{\circ}$ M.	
opposition	5078 Jul 17 03:31	27° <b>る</b> 32'43	-3°49'15	evening set	5083 Oct 18 08:00	11°M43'03	
greatest brilliancy	5078 Jul 18 06:05	27° <b>る</b> 09'20	-2.1m	max. Earth dist.	5083 Nov 15 07:23	29°M39'16	2.64144 AU
min. Earth dist.	5078 Jul 25 12:06	24° <b>ප</b> 37'01	0.50602 AU		5083 Nov 15 20:11	0° <b>∡</b> ¹	
direct	5078 Aug 24 14:06	18° <b>පි</b> 46'01					
	5078 Oct 07 15:50	0° <b>≈</b>		conjunction	5083 Dec 02 12:39	10° <b>₹</b> 52'54	0°03'05
	5078 Nov 28 07:26	0° <b>)</b> €		minimum elong	5083 Dec 02 12:44	10° <b>∡</b> 753′03	0°03'06
	5079 Jan 09 11:12	$0$ ° $\mathbf{\Upsilon}$		behind sun begin	5083 Dec 01 18:02	10° <b>∡</b> ¹22'23	
	5079 Feb 18 08:46	$8^{\circ}$		behind sun end	5083 Dec 03 07:27	11° <b>∡</b> ¹23'44	
asc. node	5079 Feb 27 09:46	6° <b>8</b> 50'33		desc. node	5083 Dec 08 02:23	14° <b>∡</b> ³32'53	
	5079 Mar 30 04:51	$\Pi^{\circ}$			5083 Dec 31 06:55	8°0	
	5079 May 10 02:48	0°©		morning rise	5084 Jan 17 00:03	11° <b>る</b> 20'23	
	5079 Jun 21 17:18	$0^{\circ}\Omega$		C	5084 Feb 12 22:56	0° <b>≈</b>	
evening set	5079 Aug 03 09:06	28° <b>Ω</b> 49'10			5084 Mar 25 22:31	0° <b>∀</b>	
C	5079 Aug 05 03:51	0° <b>m</b> )			5084 May 05 12:52	$0^{\circ}\Upsilon$	
	5079 Sep 20 03:54	0∘ <u>⊽</u>			5084 Jun 14 07:05	0°8	
	1				5084 Jul 24 03:06	0°II	
conjunction	5079 Sep 21 12:01	0° <b>£</b> 51'39	1°05'14		5084 Sep 03 14:28	0ಂತಾ	
minimum elong	5079 Sep 21 12:40	0° <b>£</b> 52'41	1°05'14	asc. node	5084 Oct 19 07:15	29° <b>©</b> 16'36	
max. Earth dist.	5079 Oct 01 00:54		2.66001 AU		5084 Oct 20 13:53	$0^{\circ}\Omega$	
morning rise	5079 Nov 06 03:44	29° <b>♀</b> 59'12		retrograde	5084 Dec 24 21:43	22° <b>Ω</b> 15'48	
	5079 Nov 06 04:15	0° <b>M</b> ,		min. Earth dist.	5085 Jan 25 07:27	15° <b>Ω</b> 30'44	0.54454 AU
	5079 Dec 23 16:20	0°×7		greatest brilliancy	5085 Jan 31 07:30	13° <b>Ω</b> 12'22	-1.9m
	5080 Feb 09 11:28	∘ੰਤ		opposition	5085 Feb 01 11:29		4°25'43
desc. node	5080 Mar 04 05:16	14° <b>云</b> 46'34		direct	5085 Mar 09 02:06	4° <b>Ω</b> 47'51	1 23 13
desc. node	5080 Mar 28 23:23	0°≈		uncer	5085 May 26 17:38	0° my	
	5080 May 18 20:01	0° <b>∺</b>			5085 Jul 21 01:51	0° <del>ت</del>	
	5080 Jul 21 23:51	0° <b>Υ</b>			5085 Sep 09 15:37	0° <b>m</b> .	
retrograde	5080 Jul 21 23:31 5080 Aug 20 08:13	4° <b>Υ</b> 55'26		desc. node	5085 Oct 25 01:56	28°M26'55	
opposition	5080 Aug 20 08.13 5080 Sep 19 16:22	4 <b>1</b> 33 26 29° <b> ∺</b> 51'05	6025141	desc. Hode	5085 Oct 27 11:49	28 1162033 0°×7	
оррознин	5080 Sep 19 16:22 5080 Sep 19 03:26	29° <b>₹</b> 31°03 30° <b>₹</b> ₩	-0 4341	evening set	5085 Nov 24 01:21	18° <b>∡</b> ¹02'05	
greatest brillians	-		-2.8m	evening set		18°×'02'05 0°る	
greatest brilliancy min. Earth dist.	5080 Sep 20 19:10		-2.8m 0.38348 AU	may Earth dist	5085 Dec 11 20:37 5085 Dec 11 17:58		2.55298 AU
	5080 Sep 24 01:58	28° <del>X</del> 38'25 24° <del>X</del> 17'27	0.30340 AU	max. Earth dist.	JUOJ DEC 11 1/:38	47 X 33 29	2.33298 AU
direct	5080 Oct 21 01:43	24° <b>π</b> 1/2/ 0° <b>Υ</b>		aaniumatiam	5006 Ion 11 04:42	200=50125	00/11/0/
	5080 Nov 19 22:58	U.Y.		conjunction	5086 Jan 11 04:42	20°る59'35	-U~41°U4

minimum elong	5086 Jan 11 03:19	20°る57'07	0°41'02		5091 Feb 24 12:07	0° <b>∡</b> ¹	
minimum ciong	5086 Jan 23 21:06	0°≈	0 41 02	retrograde	5091 Apr 11 06:40	0 <b>✓</b> 10° <b>✓</b> 04'49	
morning rise	5086 Mar 04 05:39	28°≈46'45		opposition	5091 May 20 08:48	1° <b>х</b> 04'53	1°00'10
morning rise	5086 Mar 05 20:53	0° <b>∀</b>		greatest brilliancy	5091 May 20 12:49	1° <b>×</b> <sup>7</sup> 00'58	-1.4m
	5086 Apr 14 08:13	0°Υ		8	5091 May 23 03:19	30°RML	
	5086 May 22 23:23	0°8		min. Earth dist.	5091 May 24 11:25	29°M28'47	0.64951 AU
	5086 Jun 30 14:30	$\Pi^{\circ}0$		desc. node	5091 Jun 16 22:02	22°M18'17	
	5086 Aug 09 05:19	0ಂತ		direct	5091 Jun 30 20:22	21°ML02'17	
asc. node	5086 Sep 06 05:10	20° <b>©</b> 17'51			5091 Aug 11 14:43	0° <b>∡</b> ¹	
	5086 Sep 20 02:50	$0^{\circ}\Omega$			5091 Oct 09 07:15	ರ°ರ	
	5086 Nov 05 17:23	0° <b>т</b> р			5091 Nov 24 00:23	0° <b>≈</b>	
	5087 Jan 10 18:38	0∘ <b>ত</b>			5092 Jan 04 04:41	0° <b>∀</b>	
retrograde	5087 Feb 01 06:02	2° <b>≏</b> 47'42			5092 Feb 12 03:17	$0^{\circ}$ Y	
	5087 Feb 21 09:08	30°₽, <b>Т</b> р			5092 Mar 21 06:03	$0^{\circ}$ 8	
min. Earth dist.	5087 Mar 09 20:50	24° Mp 14'12	0.64376 AU	asc. node	5092 Apr 28 02:57	29° <b>8</b> 35'28	
opposition	5087 Mar 13 09:50	22° <b>m</b> 49'10	4°35'43		5092 Apr 28 15:40	$\Pi$ $^{\circ}0$	
greatest brilliancy	5087 Mar 12 20:03	23°Mp02'57	-1.4m	evening set	5092 May 19 09:41	15° <b>Ⅱ</b> 52'48	
direct	5087 Apr 21 09:57	13° Mp 37'55			5092 Jun 07 05:16	$0$ $\circ$	
	5087 Jun 21 16:13	0∘ <b>ত</b>			5092 Jul 18 13:44	$0^{\circ}\Omega$	
	5087 Aug 19 01:24	0°M₊					
desc. node	5087 Sep 12 00:53	13°M59'30		conjunction	5092 Jul 20 12:15	1° <b>Ω</b> 22'14	
	5087 Oct 08 03:06	0° <b>∡</b> ″		minimum elong	5092 Jul 20 10:05	1° <b>Ω</b> 18′25	0°49'01
	5087 Nov 23 02:03	0°る		max. Earth dist.	5092 Aug 24 08:58	25° <b>Ω</b> 30′03	2.54462 AU
	5088 Jan 04 23:09	0° <b>≈</b>			5092 Aug 31 00:41	0° m/	
evening set	5088 Jan 07 18:27	2°≈01'36		morning rise	5092 Sep 13 08:11	8° m 54'26	
max. Earth dist.	5088 Jan 23 19:19	13°≈45'50	2.42552 AU		5092 Oct 15 14:37	0∘ <b>亚</b>	
	5088 Feb 14 11:31	0° <b>∀</b>			5092 Dec 02 07:33	0°M√	
. ,.	5000 M 04 12 22	140 1/25146	1005116		5093 Jan 21 19:15	0° <b>∡</b> ¹	
conjunction	5088 Mar 04 13:22	14° <b>X</b> 35'46		1 1	5093 Mar 20 05:25	0°る	
minimum elong	5088 Mar 04 13:37	14° <b>)</b> 36′14 0° <b>Υ</b>	1,05,12	desc. node	5093 May 03 20:47	15°る31'03 17°る30'03	
	5088 Mar 24 09:10 5088 May 01 12:03	0° <b>8</b>		retrograde opposition	5093 May 22 17:57 5093 Jun 28 06:27	9° <b>る</b> 40'20	2016/20
morning rise	5088 May 10 18:07	7° <b>8</b> 17'42		greatest brilliancy	5093 Jun 28 20:44	9 34020 9° <b>3</b> 27'11	
morning risc	5088 Jun 08 17:21	0°Ⅱ		min. Earth dist.	5093 Jul 05 18:17		0.55636 AU
	5088 Jul 17 22:05	0°©		direct	5093 Jul 03 18:17 5093 Aug 07 05:19	0°る13'05	0.55050 AO
asc. node	5088 Jul 24 04:04	4° <b>9</b> 340'29		direct	5093 Aug 07 03:19 5093 Oct 26 04:02	0°≈	
asc. node	5088 Aug 27 22:52	0°Ω			5093 Dec 10 02:46	0° <b>∺</b>	
	5088 Oct 10 18:49	0° <b>m</b>			5094 Jan 19 12:35	0° <b>Υ</b>	
	5088 Nov 28 04:23	0∘ <b>ರ</b> ೧.ಗ			5094 Feb 27 12:46	0°8	
	5089 Jan 29 13:10	0°M		asc. node	5094 Mar 16 01:36	12° <b>8</b> 43'36	
retrograde	5089 Mar 06 16:10	6°M51'48			5094 Apr 07 17:08	0°II	
	5089 Apr 08 16:28	30° <b>Ŗ</b> Ω			5094 May 18 01:40	0ಂತಾ	
opposition	5089 Apr 15 21:23	27° <b>£</b> 10'47	3°16'23		5094 Jun 29 04:23	$0^{\circ}\Omega$	
greatest brilliancy	5089 Apr 15 22:27	27° <b>≏</b> 09'44	-1.3m	evening set	5094 Jul 16 05:59	11° <b>Ω</b> 46'31	
min. Earth dist.	5089 Apr 16 04:59	27° <b>₽</b> 03'14	0.67968 AU		5094 Aug 12 05:45	0° <b>m</b>	
direct	5089 May 26 20:35	17° <b>≏</b> 20'14					
	5089 Jul 18 05:04	0°M		conjunction	5094 Sep 05 21:11	16°Mp 16'19	1°07'50
desc. node	5089 Jul 29 23:15	5°M09'33		minimum elong	5094 Sep 05 21:14	16°M) 16'24	1°07'50
	5089 Sep 14 23:13	0°⊀		max. Earth dist.	5094 Sep 21 11:39	$26^{\circ}$ Th $25'32$	2.63800 AU
	5089 Nov 02 00:31	0°ප			5094 Sep 27 00:23	0∘ <b>ত</b>	
	5089 Dec 15 10:06	0° <b>≈</b>		morning rise	5094 Oct 23 03:11	16° <b>≏</b> 44'02	
	5090 Jan 24 21:29	0° <b>∀</b>			5094 Nov 13 01:34	0°M₊	
	5090 Mar 04 14:11	0° <b>Υ</b>			5094 Dec 31 00:31	0° <b>∡</b>	
evening set	5090 Mar 08 11:45	3° <b>Y</b> 04′09			5095 Feb 18 00:51	0° <b>ろ</b>	
	5090 Apr 11 12:50	$9^{\circ}$ 8		desc. node	5095 Mar 21 19:45	18°る48'07	
	5000 M 16 14 07	270 0 2 510 4	0017127		5095 Apr 10 12:52	0° <b>≈</b>	
conjunction	5090 May 16 14:07	27° <b>8</b> 35'04			5095 Jun 11 19:05	0° <b>)</b> €	
minimum elong	5090 May 16 15:54	27° <b>႘</b> 38'33 0° <b>Ⅱ</b>	0-1/3/	retrograde	5095 Jul 21 12:53	8° <b>∺</b> 08'49	6005124
asa nada	5090 May 19 16:34	0°Щ 17° <b>Щ</b> 19'50		opposition	5095 Aug 22 12:46	2° <b>)</b> 19'15 1° <b>)</b> 48'43	
asc. node	5090 Jun 11 04:02 5090 Jun 27 21:56	0°©		greatest brilliancy min. Earth dist.	5095 Aug 24 04:28	1° <del>X</del> 48'43 29°≈57'12	
max. Earth dist.	5090 Jul 27 21:36 5090 Jul 07 16:31	7° <b>9</b> 317'23	2.41027 AU	min, Dartii USt.	5095 Aug 30 06:25 5095 Aug 30 02:40	29°≈3712 30°R≈	0.42400 AU
morning rise	5090 Jul 07 16.51 5090 Jul 24 02:59	19° <b>©</b> 21'18	2.7102/ AU	direct	5095 Sep 26 03:19	30 k≈ 25°≈22'08	
morning 1150	5090 Aug 07 21:48	19 <b>3</b> 21 18		ancet	5095 Oct 22 15:50	25 <b>≈</b> 22 08	
	5090 Sep 20 04:56	0° <b>m</b>			5095 Dec 19 02:11	0°Υ	
	5090 Nov 05 06:57	0° <del>ت</del> الله			5096 Jan 31 20:44	%8 0°8	
	5090 Dec 25 09:07	0° <b>m</b>		asc. node	5096 Feb 01 01:11	0° <b>8</b> 07'54	
	20,0200 20 07.07	♥ II <b>♥</b>			20,0100 01 01.11	0 00/04	

·			,			
	5096 Mar 13 19:17	$\Pi^{\circ}0$		morning rise	5101 Feb 12 23:33	8° <b>≈</b> 33'57
	5096 Apr 25 04:49	0 . ದ			5101 Mar 14 07:53	0° <b>)</b> €
	5096 Jun 07 22:01	$0^{\circ}\Omega$			5101 Apr 23 04:04	0° <b>Υ</b>
	5096 Jul 23 04:05	0° mp			5101 Jun 01 03:20	0° <b>႘</b>
evening set	5096 Aug 27 18:50	23° m 02'00			5101 Jul 10 01:45	$\Pi^{\circ}0$
	5096 Sep 07 15:55	0∘ <b>⊽</b>			5101 Aug 19 01:59	0°9
				asc. node	5101 Sep 23 22:41	25° <b>©</b> 20'59
conjunction	5096 Oct 13 07:41	22° <b>≏</b> 42'40	0°53'22		5101 Sep 30 20:50	$0^{\circ}\Omega$
minimum elong	5096 Oct 13 08:45	22° <b>≏</b> 44'21	0°53'22		5101 Nov 19 22:28	0° <b>m</b> )
max. Earth dist.	5096 Oct 14 06:46	23° <b>≙</b> 19′20	2.67755 AU			
	5096 Oct 24 18:55	$0^{\circ}$ M				
morning rise	5096 Nov 26 13:39	20°M51'37				
	5096 Dec 10 21:08	0° <b>∡</b>				
	5097 Jan 26 11:48	0° <b>ろ</b>				
desc. node	5097 Feb 05 19:05	6° <b>පි</b> 41'00				
	5097 Mar 13 12:22	0° <b>≈</b>				
	5097 Apr 28 03:24	0° <b>Υ</b> 0° <b>Υ</b>				
	5097 Jun 13 00:50	0°Y				
ratragrada	5097 Jul 31 20:27 5097 Oct 09 06:27	24° <b>8</b> 30'00				
retrograde min. Earth dist.	5097 Nov 05 12:05		0.37650 AU			
opposition	5097 Nov 09 13:04	18° <b>8</b> 54'27				
greatest brilliancy	5097 Nov 09 06:06	18° <b>8</b> 59'19	-3.0m			
direct	5097 Dec 09 02:01	13° <b>8</b> 53'04	3.0111			
asc. node	5097 Dec 18 23:59	14° <b>8</b> 32'08				
	5098 Feb 02 15:02	0°Щ				
	5098 Mar 28 06:05	0°ಲಾ				
	5098 May 15 20:31	$0^{\circ}\Omega$				
	5098 Jul 02 19:57	0° <b>m</b>				
	5098 Aug 19 20:37	0∘ <b>⊽</b>				
evening set	5098 Oct 04 05:05	28° <b>≏</b> 27'33				
	5098 Oct 06 15:38	$0^{\circ}$ M				
max. Earth dist.	5098 Nov 05 22:15	19°M15'18	2.66235 AU			
	500031 10 04 50	270W 00154	001010			
conjunction	5098 Nov 18 04:58	27°M08'54	0°19'26			
minimum elong	5098 Nov 18 05:33	27°M09'50	0°19'27			
dasa mada	5098 Nov 22 14:54 5098 Dec 24 17:26	0° 🗷 20° 🗷 59'45				
desc. node morning rise	5098 Dec 24 17.20 5099 Jan 01 15:33	26° <b>₹</b> 15'06				
morning risc	5099 Jan 07 06:29	0°る				
	5099 Feb 20 09:14	0° <b>≈</b>				
	5099 Apr 03 23:46	0° <b>)</b> €				
	5099 May 15 07:57	0°Υ				
	5099 Jun 24 22:16	0°8				
	5099 Aug 04 21:10	$\Pi^{\circ}0$				
	5099 Sep 17 16:56	$0$ $\circ$ $\odot$				
asc. node	5099 Nov 05 22:33	26° <b>©</b> 08'47				
	5099 Nov 17 17:40	$0$ ° $\Omega$				
retrograde	5099 Dec 08 07:54	2° <b>Ω</b> 53′04				
	5099 Dec 28 02:53	30° <b>₹</b> 5				
min. Earth dist.	5100 Jan 06 10:02	27° <b>©</b> 00'22	0.49253 AU			
greatest brilliancy	5100 Jan 13 11:05	24°525'42	-2.2m			
opposition	5100 Jan 14 13:52	24°501'01	3°34'06			
direct	5100 Feb 17 11:51	16°5946'46				
	5100 Apr 10 10:50 5100 Jun 08 15:42	0° <b>№</b>				
	5100 Jun 08 15:42 5100 Jul 30 12:49	0ം <b>⊽</b>				
	5100 Jul 30 12.49 5100 Sep 17 22:58	0°M				
	5100 Sep 17 22:38 5100 Nov 04 09:49	0° <b>⊼</b>				
evening set	5100 Nov 04 05:45 5100 Nov 09 22:25	3° <b>∡</b> 734'50				
desc. node	5100 Nov 11 16:10	4° <b>₹</b> 42'44				
max. Earth dist.	5100 Dec 01 08:18	17° <b>∡</b> ³38'39	2.59366 AU			
	5100 Dec 19 18:21	0°ಕ				
conjunction	5100 Dec 26 09:38	4° <b>る</b> 30'42	-0°24'20			
minimum elong	5100 Dec 26 08:47	4° <b>ප</b> 29'15	0°24'18			
	5101 Feb. 01 00:04	0° <b>&gt;</b> >				

5101 Feb 01 00:04

0°≈