conjunction	6600 Jan 11 04:29	21° る 43'50	-0°08'34		6605 Sep 21 20:02	15° Ŗ ≈	
minimum elong	6600 Jan 11 04:29	21° る 43'50	0°08'30	direct	6605 Oct 20 16:34	14° ≈ 39'21	
behind sun begin	6600 Jan 10 22:40	21° る 42'57			6605 Nov 18 01:00	15° ≈	
behind sun end	6600 Jan 11 10:18	21° る 44'43		evening set	6606 Jan 22 21:55	17° ≈ 58'59	
max. Earth dist.	6600 Jan 10 19:21		19.59499 AU	3			
	6600 Jan 27 04:48	22° ප් 43'18	17.57477110	conjunction	6606 Feb 07 19:31	18° ≈ 57'01	0°20'05
morning rise				conjunction			
retrograde	6600 Apr 28 11:19	26° ප 01'51		minimum elong	6606 Feb 07 19:31	18° ≈ 57'01	0°30'03
opposition	6600 Jul 11 22:36	24° る 00'43		max. Earth dist.	6606 Feb 07 20:26	18° ≈ 57'09	19.95773 AU
min. Earth dist.	6600 Jul 12 05:17	24°る00'00	17.62044 AU	morning rise	6606 Feb 23 14:59	19° ≈ 54'43	
direct	6600 Sep 26 22:07	21° පි 56'10		retrograde	6606 May 26 00:51	23° ≈ 09'16	
evening set	6600 Dec 30 23:02	25° る 20'59		opposition	6606 Aug 09 09:03	21° ≈ 09'16	-0°35'04
•				min. Earth dist.	6606 Aug 09 07:11	21° ≈ 09'27	17.99211 AU
conjunction	6601 Jan 16 01:27	26° る 20'36	-0°12'29	direct	6606 Oct 25 12:06	19° ≈ 06'47	
minimum elong	6601 Jan 16 01:26	26° පි 20'36		evening set	6607 Jan 27 14:05	22°≈25'19	
•			0 12 20	evening set	000 / Jan 2 / 14.03	22 22 19	
behind sun begin	6601 Jan 15 21:05	26° る 19'56					
behind sun end	6601 Jan 16 05:48	26° る 21'15		conjunction	6607 Feb 12 10:59	23° ≈ 23′01	
max. Earth dist.	6601 Jan 15 18:55	26° る 19'36	19.64693 AU	minimum elong	6607 Feb 12 10:59	23° ≈ 23'01	0°33'02
morning rise	6601 Feb 01 00:40	27° る 19'46		max. Earth dist.	6607 Feb 12 13:59	23° ≈ 23′28	20.02700 AU
	6601 Mar 27 00:17	0° ≈		morning rise	6607 Feb 28 05:45	24° ≈ 20′25	
retrograde	6601 May 03 06:26	0° ≈ 37'39		retrograde	6607 May 30 17:44	27° ≈ 34'18	
· ·	6601 Jun 10 17:05	30°Rる		opposition	6607 Aug 14 04:41	25° ≈ 34'32	-0°38'16
opposition	6601 Jul 16 21:42	28° る 36'39	0°15'57	min. Earth dist.	6607 Aug 14 01:03		18.06169 AU
					=		18.00109 AU
min. Earth dist.	6601 Jul 17 03:25		17.67408 AU	direct	6607 Oct 30 09:57	23°≈32'29	
direct	6601 Oct 01 22:41	26° る 32'22		evening set	6608 Feb 01 05:31	26° ≈ 49'52	
evening set	6602 Jan 04 20:03	29° る 56'13					
	6602 Jan 05 21:04	0° ≈		conjunction	6608 Feb 17 01:34	27° ≈ 47'16	-0°35'51
				minimum elong	6608 Feb 17 01:33	27° ≈ 47'16	0°35'49
conjunction	6602 Jan 20 21:16	0°≈55'30	-0°16'18	max. Earth dist.	6608 Feb 17 05:19	27°≈47'50	20.09674 AU
minimum elong	6602 Jan 20 21:16	0°≈55'30	0°16'15	morning rise	6608 Mar 03 19:49	28° ≈ 44'23	
max. Earth dist.	6602 Jan 20 15:19	0°≈54'35	19.70245 AU	3	6608 Mar 26 06:58	0°) €	
morning rise	6602 Feb 05 19:47	1°≈54'23	17.70243710	ratragrada	6608 Jun 03 08:28	1° ¥ 57'38	
•				retrograde			
retrograde	6602 May 08 01:41	5°≈11'36			6608 Aug 17 05:02	30°R≈	
opposition	6602 Jul 21 20:14	3°≈10'45		opposition	6608 Aug 18 00:00	29° ≈ 58′03	
min. Earth dist.	6602 Jul 22 00:09	3°≈10'21	17.73154 AU	min. Earth dist.	6608 Aug 17 19:49	29° ≈ 58′29	18.13157 AU
direct	6602 Oct 06 21:31	1° ≈ 06'44		direct	6608 Nov 03 04:07	27° ≈ 56′23	
evening set	6603 Jan 09 15:47	4° ≈ 29'34			6609 Jan 14 05:50	0°) €	
-				evening set	6609 Feb 04 19:53	1° ¥ 12'39	
conjunction	6603 Jan 25 16:14	5°≈28'34	-0°19'59	C			
minimum elong	6603 Jan 25 16:14	5° ≈ 28'34		conjunction	6609 Feb 20 15:16	2°)(09'43	-0°38'25
max. Earth dist.	6603 Jan 25 13:00		19.76169 AU	minimum elong	6609 Feb 20 15:16	2° H 09'43	
			19.70109 AU	•			20.16642 AU
morning rise	6603 Feb 10 13:47	6° ≈ 27'09		max. Earth dist.	6609 Feb 20 20:40		20.16642 AU
retrograde	6603 May 12 20:35	9° ≈ 43'40		morning rise	6609 Mar 08 08:58	3° ∺ 06'33	
opposition	6603 Jul 26 18:15	7° ≈ 43'01	-0°24'09	retrograde	6609 Jun 07 23:43	6° ∺ 19'10	
min. Earth dist.	6603 Jul 26 20:39	7° ≈ 42'46	17.79244 AU	opposition	6609 Aug 22 18:39	4°){ 19'46	-0°43'56
direct	6603 Oct 11 21:05	5° ≈ 39'21		min. Earth dist.	6609 Aug 22 12:34	4°) €20'23	18.20085 AU
evening set	6604 Jan 14 10:52	9° ≈ 01'08		direct	6609 Nov 08 00:41	2°) 18'31	
				evening set	6610 Feb 09 09:34	5°) 33′35	
conjunction	6604 Jan 30 10:13	9° ≈ 59'48	-0°23'31	Č			
minimum elong	6604 Jan 30 10:13	9° ≈ 59'48		conjunction	6610 Feb 25 04:13	6°) 30′22	-0°40'44
max. Earth dist.	6604 Jan 30 07:43		19.82431 AU	•		6°₩30'22	
			19.82431 AU	minimum elong	6610 Feb 25 04:13		
morning rise	6604 Feb 15 07:06	10° ≈ 58′06		max. Earth dist.	6610 Feb 25 10:25		20.23515 AU
retrograde	6604 May 16 14:18	14° ≈ 13'57		morning rise	6610 Mar 12 21:30	7° ¥ 26'55	
opposition	6604 Jul 30 15:38	12° ≈ 13'30	-0°28'00	retrograde	6610 Jun 12 13:07	10°) 38′55	
min. Earth dist.	6604 Jul 30 16:33	12°≈13'24	17.85668 AU	opposition	6610 Aug 27 12:41	8° ∺ 39'39	-0°46'22
direct	6604 Oct 15 17:45	10°≈10′12		min. Earth dist.	6610 Aug 27 06:22	8°) (40′18	18.26908 AU
evening set	6605 Jan 18 04:52	13° ≈ 30'56		direct	6610 Nov 12 17:16	6°) 38'46	
<i>3</i>				evening set	6611 Feb 13 22:13	9°) 52'41	
conjunction	6605 Feb 03 03:27	14° ≈ 29'17	-0°26'53		, 20 10 22.13	. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
				aaminus -ti	6611 M 01 16 00	100 W 40100	0042140
minimum elong	6605 Feb 03 03:26	14°≈29'17		conjunction	6611 Mar 01 16:22	10°) (49'09	
max. Earth dist.	6605 Feb 03 03:28		19.88995 AU	minimum elong	6611 Mar 01 16:22	10°) 49′09	
	6605 Feb 11 11:32	15° ≈		max. Earth dist.	6611 Mar 01 23:43		20.30255 AU
morning rise	6605 Feb 18 23:29	15° ≈ 27'16		morning rise	6611 Mar 17 09:17	11°) 45′28	
retrograde	6605 May 21 08:44	18° ≈ 42′28		retrograde	6611 Jun 17 03:01	14° ¥ 56′49	
opposition	6605 Aug 04 12:36	16° ≈ 42'15	-0°31'39	opposition	6611 Sep 01 05:56	12°) 57'41	-0°48'31
min. Earth dist.	6605 Aug 04 11:46	16° ≈ 42′20	17.92342 AU	min. Earth dist.	6611 Aug 31 21:46	12°) 58'31	18.33547 AU
	2				5		

J: 4	((11 N 17 11.40	10° ¥ 57'08			((10 M 20 07.40	10° Y 09'51	0950107
direct	6611 Nov 17 11:48			minimum elong	6618 Mar 30 07:40		20.72074 AU
evening set	6612 Feb 18 10:07	14° 米 09′53		max. Earth dist.	6618 Mar 30 22:36		20.72074 AU
				morning rise	6618 Apr 14 23:53	11° Y 04'43	
conjunction	6612 Mar 05 03:42	15° ∺ 06'05		retrograde	6618 Jul 16 06:42	14° Y 12'24	
minimum elong	6612 Mar 05 03:42	15° ¥ 06′05	0°44'38	opposition	6618 Oct 01 12:01	12° Y 13'46	
max. Earth dist.	6612 Mar 05 11:53		20.36786 AU	min. Earth dist.	6618 Sep 30 21:41		18.74745 AU
morning rise	6612 Mar 20 20:18	16° ∺ 02'08		direct	6618 Dec 17 09:39	10° Y 15′20	
retrograde	6612 Jun 20 14:57	19° 升 12'52		evening set	6619 Mar 18 22:27	13° Y 20'45	
opposition	6612 Sep 04 22:39	17° ∺ 13'50	-0°50'23				
min. Earth dist.	6612 Sep 04 14:29	17° ∺ 14'40	18.39984 AU	conjunction	6619 Apr 03 14:17	14° Ƴ 15′22	-0°50'06
direct	6612 Nov 21 02:59	15° ∺ 13'35		minimum elong	6619 Apr 03 14:17	14° Ƴ 15′22	0°50'06
evening set	6613 Feb 21 21:04	18° ∺ 25'11		max. Earth dist.	6619 Apr 04 05:44	14° Ƴ 17'38	20.77310 AU
				morning rise	6619 Apr 19 06:44	15° Ƴ 10′06	
conjunction	6613 Mar 09 14:13	19°) 21′06	-0°46'13	retrograde	6619 Jul 20 17:22	18° Ƴ 17'25	
minimum elong	6613 Mar 09 14:13	19° ∺ 21′06	0°46'13	min. Earth dist.	6619 Oct 05 07:55	16° Y 20'31	18.79843 AU
max. Earth dist.	6613 Mar 09 23:25	19° ¥ 22'28	20.43122 AU	opposition	6619 Oct 06 00:03	16° Ƴ 18'54	-0°55'18
morning rise	6613 Mar 25 06:37	20° ₩ 16'55		direct	6619 Dec 21 20:38	14° Ƴ 20'47	
retrograde	6613 Jun 25 03:37	23°) € 27'03		evening set	6620 Mar 22 04:36	17° Ƴ 25'21	
opposition	6613 Sep 09 14:33	21° H 28'04	-0°51'58	- · · · · · · · · · · · · · · · · · · ·			
min. Earth dist.	6613 Sep 09 04:23		18.46212 AU	conjunction	6620 Apr 06 20:25	18° Ƴ 19'50	-0°49'50
direct	6613 Nov 25 19:40	19° ₩ 28'07	10.40212710	minimum elong	6620 Apr 06 20:25	18° Υ 19'50	0°49'52
evening set	6614 Feb 26 07:02	22°\(\frac{1}{3}\)33		max. Earth dist.	6620 Apr 07 13:04		20.82252 AU
evening set	0014 1 60 20 07.02	22 1 36 33			•	19° Υ 14'26	20.82232 AU
	((14))(12 22 40	2201/2412	00.4712.1	morning rise	6620 Apr 22 13:02		
conjunction	6614 Mar 13 23:49	23°\(\frac{1}{3}\)34'13		retrograde	6620 Jul 24 01:39	22° Υ 21'27	0054150
minimum elong	6614 Mar 13 23:48	23°) (34'13		opposition	6620 Oct 09 11:49	20° Υ 23'02	
max. Earth dist.	6614 Mar 14 10:11		20.49245 AU	min. Earth dist.	6620 Oct 08 20:03		18.84634 AU
morning rise	6614 Mar 29 16:04	24°) 29′49		direct	6620 Dec 25 05:35	18° Y 25'14	
retrograde	6614 Jun 29 14:09	27°) 39′22		evening set	6621 Mar 26 10:25	21° Y 29'01	
opposition	6614 Sep 14 05:53	25°) 40′26					
min. Earth dist.	6614 Sep 13 19:43		18.52252 AU	conjunction	6621 Apr 11 02:17	22° Y 23'20	
direct	6614 Nov 30 09:01	23°) 40′46		minimum elong	6621 Apr 11 02:17	22° Y 23'20	0°49'22
evening set	6615 Mar 02 16:18	26° ¥ 50′05		max. Earth dist.	6621 Apr 11 19:09		20.86879 AU
				morning rise	6621 Apr 26 19:14	23° Ƴ 17'50	
conjunction	6615 Mar 18 08:46	27° ∺ 45′30	-0°48'34	retrograde	6621 Jul 28 11:55	26° Y 24'35	
minimum elong	6615 Mar 18 08:46	27°) 45′30	0°48'34	opposition	6621 Oct 13 22:56	24° Y 26′15	-0°54'10
max. Earth dist.	6615 Mar 18 20:06	27°) 47'11	20.55199 AU	min. Earth dist.	6621 Oct 13 05:41	24° Ƴ 27'58	18.89074 AU
morning rise	6615 Apr 03 00:55	28°) 40′53		direct	6621 Dec 29 14:59	22° Ƴ 28'44	
•	6615 Apr 27 07:03	$0^{\circ}\Upsilon$		evening set	6622 Mar 30 15:50	25° Ƴ 31'46	
retrograde	6615 Jul 04 01:41	1° Ƴ 49'54		Č			
	6615 Sep 15 03:11	30° ₹ ₩		conjunction	6622 Apr 15 07:53	26° Y 26′00	-0°48'35
opposition	6615 Sep 18 20:10	29° ¥ 51′01	-0°54'15	minimum elong	6622 Apr 15 07:53	26° Υ 26'00	
min. Earth dist.	6615 Sep 18 07:54		18.58123 AU	max. Earth dist.	6622 Apr 16 01:38		20.91107 AU
direct	6615 Dec 04 23:47	27°) 51'37	10.50125710	morning rise	6622 May 01 01:08	27° Υ 20'24	20.91107710
direct	6616 Feb 16 23:13	0° Υ		morning rise	6622 Jun 29 18:41	0°8	
evening set	6616 Mar 06 00:51	0° Υ 59'54		retrograde	6622 Aug 01 19:48	0° 8 26'54	
evening set	0010 Wai 00 00.51	0 13734		retrograde	6622 Sep 04 18:23	30°RΥ	
conjunction	6616 Mar 21 17:01	1° Y 55'05	0940!20	opposition	6622 Oct 18 09:45	28° Υ 28'38	0052112
·		1° Υ 55'05		• •	6622 Oct 17 17:13		18.93091 AU
minimum elong	6616 Mar 21 17:01		20.60984 AU	min. Earth dist.		26° Y 31'23	16.93091 AU
max. Earth dist.	6616 Mar 22 05:43	2° Y 50'17	20.00984 AU	direct	6623 Jan 02 23:34	20 γ 31 23 29° γ 33'44	
morning rise	6616 Apr 06 09:06			evening set	6623 Apr 03 21:04		
retrograde	6616 Jul 07 11:02	5° Y 58'48	005.4155		6623 Apr 11 12:55	9° 8	
opposition	6616 Sep 22 10:11	3° Y 59′59					
min. Earth dist.	6616 Sep 21 21:49		18.63842 AU	conjunction	6623 Apr 19 13:16	0° 8 27'51	
direct	6616 Dec 08 11:08	2° Y 00'54		minimum elong	6623 Apr 19 13:16	0° 8 27'51	
evening set	6617 Mar 10 08:35	5° Y 08'10		max. Earth dist.	6623 Apr 20 06:43		20.94896 AU
				morning rise	6623 May 05 06:57	1° 8 22'11	
conjunction	6617 Mar 26 00:33	6° Ƴ 03'08		retrograde	6623 Aug 06 05:53	4° 8 28'28	
minimum elong	6617 Mar 26 00:33	6° Ƴ 03'08		opposition	6623 Oct 22 19:55	2° 8 30'14	
max. Earth dist.	6617 Mar 26 14:08		20.66625 AU	min. Earth dist.	6623 Oct 22 02:18		18.96635 AU
morning rise	6617 Apr 10 16:42	6° Ƴ 58'09		direct	6624 Jan 07 07:58	0° 8 33'11	
retrograde	6617 Jul 11 22:10	10° Ƴ 06'14		evening set	6624 Apr 07 02:02	3° 8 34'54	
opposition	6617 Sep 26 23:23	8° Ƴ 07'31	-0°55'21				
min. Earth dist.	6617 Sep 26 08:54	8° Ƴ 08'58	18.69394 AU	conjunction	6624 Apr 22 18:30	4° 8 28'56	-0°46'23
direct	6617 Dec 12 23:56	6° Ƴ 08'45		minimum elong	6624 Apr 22 18:31	4° 8 28'56	0°46'25
evening set	6618 Mar 14 15:47	9° Ƴ 15′03		max. Earth dist.	6624 Apr 23 12:30	4° 8 31'32	20.98176 AU
-				morning rise	6624 May 08 12:34	5° 8 23'13	
conjunction	6618 Mar 30 07:40	10° Ƴ 09'51	-0°50'06	retrograde	6624 Aug 09 12:52	8° 8 29'18	
J				3		0	

opposition	6624 Oct 26 06:00	6° 8 31'04	-0°50'30	direct	6631 Feb 04 08:54	28° 8 25'19	
min. Earth dist.	6624 Oct 25 13:13	6° 8 32'45	18.99656 AU		6631 Apr 08 06:06	0°II	
direct	6625 Jan 10 16:09	4° 8 34'12		evening set	6631 May 05 06:55	1° Ⅱ 24′03	
evening set	6625 Apr 11 06:38	7° 8 35'18			·		
-	·			conjunction	6631 May 21 02:43	2° Ⅱ 18′00	-0°32'08
conjunction	6625 Apr 26 23:25	8° 8 29'16	-0°44'57	minimum elong	6631 May 21 02:43	2° Ⅱ 18′00	0°32'10
minimum elong	6625 Apr 26 23:25	8° 8 29'16	0°45'00	max. Earth dist.	6631 May 21 20:25	2° Ⅲ 20′32	21.07701 AU
max. Earth dist.	6625 Apr 27 16:54	8° 8 31'47	21.00940 AU	morning rise	6631 Jun 06 01:19	3° Ⅱ 12'22	
morning rise	6625 May 12 18:04	9° 8 23'30		retrograde	6631 Sep 07 19:12	6° Ⅱ 18′03	
retrograde	6625 Aug 13 22:52	12° 8 29'26		opposition	6631 Nov 24 16:42	4° Ⅱ 19'11	
opposition	6625 Oct 30 15:29	10° 8 31'09	-0°48'47	min. Earth dist.	6631 Nov 23 23:24	4° Ⅱ 20'54	19.07659 AU
min. Earth dist.	6625 Oct 29 21:50	_	19.02147 AU	direct	6632 Feb 08 14:59	2° Ⅱ 22'36	
direct	6626 Jan 15 00:18	8° 8 34'22		evening set	6632 May 08 10:59	5° Ⅱ 21'13	
evening set	6626 Apr 15 11:04	11° 8 34'54					
				conjunction	6632 May 24 07:29	6° Ⅱ 15'15	
conjunction	6626 May 01 04:18	12° 8 28'50		minimum elong	6632 May 24 07:29	6° Ⅱ 15'15	
minimum elong	6626 May 01 04:18	12° 8 28'50	0°43'20	max. Earth dist.	6632 May 25 01:40		21.07469 AU
max. Earth dist.	6626 May 01 22:15	_	21.03160 AU	morning rise	6632 Jun 09 06:47	7° Ⅱ 09'42	
morning rise	6626 May 16 23:27	13° 8 23'04		retrograde	6632 Sep 11 02:21	10° Ⅱ 15'31	
	6626 Jun 17 09:55	15° 8		min. Earth dist.	6632 Nov 27 07:48		19.07238 AU
retrograde	6626 Aug 18 04:53	16° 8 28'49		opposition	6632 Nov 28 00:15	8° Ⅱ 16′36	-0°30'52
	6626 Oct 22 12:31	15° ₹ 8		direct	6633 Feb 11 19:52	6° Ⅱ 20′03	
min. Earth dist.	6626 Nov 03 07:49	_	19.04112 AU	evening set	6633 May 12 15:13	9° Ⅱ 18'37	
opposition	6626 Nov 04 00:28	14° 8 30'27	-0°46'50			• •	
direct	6627 Jan 19 07:16	12° 8 33'45		conjunction	6633 May 28 12:23	10° Ⅱ 12'44	
_	6627 Apr 09 09:07	15° 8		minimum elong	6633 May 28 12:23	10° Ⅱ 12'44	
evening set	6627 Apr 19 15:18	15° 8 33'46		max. Earth dist.	6633 May 29 05:43		21.06867 AU
				morning rise	6633 Jun 13 12:36	11° I 107'17	
conjunction	6627 May 05 08:54	16° 8 27'40		retrograde	6633 Sep 15 11:15	14° Ⅱ 13'19	
minimum elong	6627 May 05 08:55	16° 8 27'40		opposition	6633 Dec 02 07:39	12° Ⅱ 14'20	
max. Earth dist.	6627 May 06 02:20	_	21.04891 AU	min. Earth dist.	6633 Dec 01 14:57		19.06429 AU
morning rise	6627 May 21 04:44	17° 8 21'53		direct	6634 Feb 16 01:13	10° Ⅱ 17'48	
retrograde	6627 Aug 22 13:59	20° 8 27'31	0044120	evening set	6634 May 16 19:51	13° Ⅱ 16′25	
opposition	6627 Nov 08 09:04 6627 Nov 07 15:37	18° 8 29'02	-0°44'39 19.05610 AU	agnismation	6624 Jun 01 17:49	1.40∏1.0/2.0	0022121
min. Earth dist.	6628 Jan 23 15:05	16° 8 32'22	19.03610 AU	conjunction	6634 Jun 01 17:48 6634 Jun 01 17:48	14° Ⅱ 10'39 14° Ⅱ 10'39	
direct evening set	6628 Apr 22 19:10	19° 8 31'57		minimum elong max. Earth dist.	6634 Jun 02 11:16		21.05841 AU
evening set	0028 Apr 22 19.10	19 03137		morning rise	6634 Jun 17 18:44	14 ∏ 13 08 15° ∏ 05'18	21.03641 AU
conjunction	6628 May 08 13:17	20° 8 25'50	0020122	retrograde	6634 Sep 19 18:54	18° I I1'35	
minimum elong	6628 May 08 13:17	20° 8 25'50		opposition	6634 Dec 06 14:57	16° Ⅱ 12'33	0°24'14
max. Earth dist.	6628 May 09 07:26		21.06164 AU	min. Earth dist.	6634 Dec 05 23:25		19.05182 AU
morning rise	6628 May 24 09:40	20 8 20'03	21.00104 AU	direct	6635 Feb 20 06:21	10 Ⅱ 1407 14° Ⅱ 16'02	19.03182 AU
retrograde	6628 Aug 25 19:53	24° 8 25'38		evening set	6635 May 21 00:52	17° Ⅱ 14'47	
opposition	6628 Nov 11 17:30	22° 8 27'02	-0°42'16	evening set	0033 Way 21 00.32	1/ 11/	
min. Earth dist.	6628 Nov 11 00:46		19.06682 AU	conjunction	6635 Jun 05 23:31	18° Ⅱ 09'07	-0°20'24
direct	6629 Jan 26 20:50	20° 8 30'24	19.00002110	minimum elong	6635 Jun 05 23:31	18° Ⅱ 09'07	
evening set	6629 Apr 26 23:07	23° 8 29'36		max. Earth dist.	6635 Jun 06 15:44		21.04382 AU
	· · · · · · · · · · · · · · · · · · ·			morning rise	6635 Jun 22 01:22	19° Ⅱ 03'55	
conjunction	6629 May 12 17:44	24° 8 23'29	-0°37'08	retrograde	6635 Sep 24 04:30	22° Ⅱ 10′30	
minimum elong	6629 May 12 17:44	24° 8 23'29	0°37'11	opposition	6635 Dec 10 22:25	20° Ⅱ 11′24	-0°20'44
max. Earth dist.	6629 May 13 11:27		21.07051 AU	min. Earth dist.	6635 Dec 10 07:01		19.03484 AU
morning rise	6629 May 28 14:52	25° 8 17'45		direct	6636 Feb 24 11:41	18° Ⅲ 14'51	
retrograde	6629 Aug 30 04:22	28° 8 23'17		evening set	6636 May 24 06:11	21° Ⅲ 13'48	
min. Earth dist.	6629 Nov 15 07:55	26° 8 26'20	19.07381 AU		·		
opposition	6629 Nov 16 01:23	26° 8 24'35	-0°39'41	conjunction	6636 Jun 09 05:39	22° II 08'16	-0°17'11
direct	6630 Jan 31 03:53	24° 8 27'58		minimum elong	6636 Jun 09 05:39	22° Ⅲ 08′16	0°17'14
evening set	6630 May 01 02:59	27° 8 26'54		max. Earth dist.	6636 Jun 09 21:46	22° Ⅱ 10′34	21.02429 AU
				morning rise	6636 Jun 25 08:15	23° II 03'13	
conjunction	6630 May 16 22:13	28° 8 20'49	-0°34'43	retrograde	6636 Sep 27 12:36	26° Ⅲ 10′08	
minimum elong	6630 May 16 22:14	28° 8 20'49	0°34'46	opposition	6636 Dec 14 06:03	24° Ⅱ 10′58	-0°17'07
max. Earth dist.	6630 May 17 16:33	28° 8 23'27	21.07556 AU	min. Earth dist.	6636 Dec 13 16:02	24° Ⅱ 12′23	19.01271 AU
morning rise	6630 Jun 01 20:01	29° 8 15'07		direct	6637 Feb 27 17:13	22° II 14'22	
	6630 Jun 15 15:02	$\Pi^{\circ}0$		evening set	6637 May 28 12:09	25° Ⅱ 13'33	
retrograde	6630 Sep 03 10:47	2° Ⅱ 20'42					
opposition	6630 Nov 20 09:11	0°Ⅲ21′54	-0°36'55	conjunction	6637 Jun 13 12:23	26° Ⅲ 08'11	-0°13'52
min. Earth dist.	6630 Nov 19 16:29		19.07701 AU	minimum elong	6637 Jun 13 12:23	26° Ⅲ 08'11	0°13'56
	6630 Nov 29 13:34	30°₽ ႘		behind sun begin	6637 Jun 13 09:00	26° Ⅱ 07'42	

habind and and	((27 Jun 12 15.47	260 T 00120			((42.0-4.22.22.11	200625102	
behind sun end	6637 Jun 13 15:47	26° Ⅱ 08'39	20.000.02 1.77	retrograde	6642 Oct 22 23:11	20°525'03	000 (100
max. Earth dist.	6637 Jun 14 02:49		20.99962 AU	opposition	6643 Jan 08 05:34	18° © 24'48	0°06'00
morning rise	6637 Jun 29 15:57	27° Ⅱ 03'17		min. Earth dist.	6643 Jan 07 21:25	18° © 25'38	18.77776 AU
	6637 Sep 11 02:30	0		direct	6643 Mar 24 07:08	16° © 26'54	
retrograde	6637 Oct 01 23:03	0°ഇ10'34		evening set	6643 Jun 22 09:50	19° © 28'48	
	6637 Oct 22 21:52	30° Ŗ Ⅱ					
opposition	6637 Dec 18 13:35	28° Ⅱ 11'17	-0°13'24	conjunction	6643 Jul 08 15:14	20°524'38	0°07'13
min. Earth dist.	6637 Dec 18 00:09	28° Ⅱ 12'38	18.98532 AU	minimum elong	6643 Jul 08 15:14	20° © 24'38	0°07'11
direct	6638 Mar 03 23:07	26° Ⅱ 14'33		behind sun begin	6643 Jul 08 09:06	20° © 23'47	
evening set	6638 Jun 01 18:33	29° Ⅱ 14′03		behind sun end	6643 Jul 08 21:22	20°525'30	
C	6638 Jun 15 05:59	0° ©		max. Earth dist.	6643 Jul 08 23:21	20° © 25'48	20.75250 AU
				morning rise	6643 Jul 24 23:58	21°9520'56	
conjunction	6638 Jun 17 19:41	0°908'51	-0°10'29	retrograde	6643 Oct 27 11:09	24°930'54	
minimum elong	6638 Jun 17 19:42	0°908'51	0°10'32	opposition	6644 Jan 12 14:13	22°930'26	0°09'55
behind sun begin	6638 Jun 17 14:32	0.20031	0 10 32	min. Earth dist.	6644 Jan 12 06:47		18.72646 AU
behind sun end	6638 Jun 18 00:52	0°909'34		direct	6644 Mar 27 14:08	22 3 31 12 20° 3 32'15	16.72040 AU
			20.00042.411				
max. Earth dist.	6638 Jun 18 09:39		20.96943 AU	evening set	6644 Jun 25 19:26	23° © 34'51	
morning rise	6638 Jul 04 00:02	1°904'07					
retrograde	6638 Oct 06 06:59	4°9511'47		conjunction	6644 Jul 12 01:50	24° © 30'56	0°10'44
opposition	6638 Dec 22 21:23	2° © 12'21		minimum elong	6644 Jul 12 01:50	24° © 30'56	0°10'41
min. Earth dist.	6638 Dec 22 09:25	2° © 13'34	18.95238 AU	behind sun begin	6644 Jul 11 20:42	24° © 30'13	
direct	6639 Mar 08 04:57	0° © 15'27		behind sun end	6644 Jul 12 06:57	24° © 31'39	
evening set	6639 Jun 06 01:18	3° © 15'18		max. Earth dist.	6644 Jul 12 09:52	24° © 32'05	20.70000 AU
				morning rise	6644 Jul 28 11:15	25° © 27'28	
conjunction	6639 Jun 22 03:14	4° © 10'17	-0°07'02	retrograde	6644 Oct 30 22:30	28° © 38'00	
minimum elong	6639 Jun 22 03:14	4°9510'17	0°07'06	opposition	6645 Jan 15 23:12	26° © 37'21	0°13'48
behind sun begin	6639 Jun 21 21:06	4° © 09'25		min. Earth dist.	6645 Jan 15 16:44	26° ⊊ 38'01	18.67288 AU
behind sun end	6639 Jun 22 09:21	4°911'08		direct	6645 Mar 31 21:28	24°938'55	
max. Earth dist.	6639 Jun 22 15:24		20.93407 AU	evening set	6645 Jun 30 06:02	27° © 42'15	
morning rise	6639 Jul 08 08:32	5°905'44	20.93 107 110	evening set	0013 3411 30 00.02	27 0 12 13	
•	6639 Oct 10 17:52	8°9513'48		conjunction	6645 Jul 16 13:12	28° © 38'36	0°14'12
retrograde			0005145	•			
opposition	6639 Dec 27 05:14	6°9514'10		minimum elong	6645 Jul 16 13:12	28°938'35	0°14'10
min. Earth dist.	6639 Dec 26 17:57		18.91457 AU	behind sun begin	6645 Jul 16 10:03	28°538'09	
direct	6640 Mar 11 11:29	4° © 17'03		behind sun end	6645 Jul 16 16:21	28° © 39'02	
evening set	6640 Jun 09 08:34	7° © 17'19		max. Earth dist.	6645 Jul 16 19:12		20.64555 AU
				morning rise	6645 Aug 01 23:34	29° © 35'23	
conjunction	6640 Jun 25 11:26	8°912'30	-0°03'32		6645 Aug 09 07:52	$0^{\circ}\Omega$	
minimum elong	6640 Jun 25 11:26	8° © 12'30	0°03'36	retrograde	6645 Nov 04 11:53	2° Ω 46'30	
behind sun begin	6640 Jun 25 04:50	8°©11'35		opposition	6646 Jan 20 08:26	0° Ω 45'42	0°17'38
behind sun end	6640 Jun 25 18:02	8° © 13'25		min. Earth dist.	6646 Jan 20 02:57	0° Ω 46'16	18.61754 AU
max. Earth dist.	6640 Jun 25 23:20	8°9514'12	20.89399 AU		6646 Feb 08 04:43	30° ₹ 5	
morning rise	6640 Jul 11 17:30	9° © 08'09		direct	6646 Apr 05 05:22	28°946'58	
retrograde	6640 Oct 14 02:16	12° © 16'37			6646 May 29 05:34	$0^{\circ}\Omega$	
opposition	6640 Dec 30 13:12	10°5516'48	-0°01'51	evening set	6646 Jul 04 17:22	1° Q 51'09	
min. Earth dist.	6640 Dec 30 03:13		18.87239 AU				
direct	6641 Mar 15 17:42	8°919'26	10.07237110	conjunction	6646 Jul 21 01:32	2° Ω 47'46	0°17'38
evening set	6641 Jun 13 16:22	11°920'10		minimum elong	6646 Jul 21 01:32	2°Ω47'46	0°17'34
•		11°9549'47		max. Earth dist.	6646 Jul 21 07:22		20.58926 AU
asc. node	6641 Jun 22 09:03	11 594947					20.36920 AU
		100015100	0000104	morning rise	6646 Aug 06 12:30	3° Ω 44'48	
conjunction	6641 Jun 29 20:03	12°515'33	0°00'04	retrograde	6646 Nov 09 00:50	6° Ω 56'33	0001101
minimum elong	6641 Jun 29 20:04	12°©15'33	0°00'01	opposition	6647 Jan 24 18:16	4° Ω 55'37	
behind sun begin	6641 Jun 29 16:03	12° © 15'01		min. Earth dist.	6647 Jan 24 13:43		18.56036 AU
behind sun end	6641 Jun 30 00:05	12° © 16'05		direct	6647 Apr 09 13:20	2° Ω 56′39	
max. Earth dist.	6641 Jun 30 06:12	12° © 17'00	20.85004 AU	evening set	6647 Jul 09 05:33	6° Ω 01'43	
morning rise	6641 Jul 16 03:09	13° © 11'25					
retrograde	6641 Oct 18 13:28	16°920'21		conjunction	6647 Jul 25 14:24	6° Ω 58'35	0°20'59
opposition	6642 Jan 03 21:20	14°520'18	0°02'04	minimum elong	6647 Jul 25 14:24	6° Ω 58'35	0°20'57
min. Earth dist.	6642 Jan 03 12:03	14°521'15	18.82667 AU	max. Earth dist.	6647 Jul 25 18:05	6° Ω 59'07	20.53136 AU
direct	6642 Mar 20 00:23	12° © 22'40		morning rise	6647 Aug 11 02:16	7° Ω 55'54	
evening set	6642 Jun 18 00:46	15° © 23'57		retrograde	6647 Nov 13 15:41	11° Ω 08'20	
				opposition	6648 Jan 29 04:39	9° Ω 07'15	0°25'04
conjunction	6642 Jul 04 05:25	16° © 19'34	0°03'42	min. Earth dist.	6648 Jan 29 01:20		18.50163 AU
		16°9519'34	0°03'39			9 δ l 0/33 7° Ω 08'01	10.50105 AU
minimum elong	6642 Jul 04 05:24		0 03 39	direct	6648 Apr 12 22:35		
behind sun begin	6642 Jul 03 22:47	16°5518'38		evening set	6648 Jul 12 18:44	10° Ω 14'03	
behind sun end	6642 Jul 04 12:00	16°520'29	00.000		6640 X 1 20 111	•	000 4:
max. Earth dist.	6642 Jul 04 15:21		20.80261 AU	conjunction	6648 Jul 29 04:34	11°Ω11'13	
morning rise	6642 Jul 20 13:10	17° © 15'38		minimum elong	6648 Jul 29 04:33	11° Ω 11'13	0°24'12

max. Earth dist.	6648 Jul 29 07:59	11°Ω11'//3	20.47168 AU	morning rise	6654 Sep 11 04:18	8° Mp 05'22	
morning rise	6648 Aug 14 16:57	12°Ω08'48	20.4/100 AC	retrograde	6654 Dec 14 12:41	11° M) 22'37	
morning rise	-	12 ∂ t 06 46		-			0946120
	6648 Oct 18 17:02			opposition	6655 Feb 27 20:58	9° Mp 20'20	0°46'39
retrograde	6648 Nov 17 06:18	15° Ω 21'55		min. Earth dist.	6655 Feb 28 02:49	-	18.03893 AU
	6648 Dec 17 02:33	15°R Ω		direct	6655 May 13 11:58	7° m 18'39	
opposition	6649 Feb 01 15:26	13° Ω 20'43	0°28'39	evening set	6655 Aug 13 18:20	10° Mp 32'21	
min. Earth dist.	6649 Feb 01 13:14		18.44096 AU				
direct	6649 Apr 17 07:57	11° Ω 21'13		conjunction	6655 Aug 30 08:54	11° m y31'37	0°43'01
evening set	6649 Jul 17 09:05	14° Ω 28'16		minimum elong	6655 Aug 30 08:54	11° m y31'37	0°43'00
	6649 Jul 26 12:15	15° Ω		max. Earth dist.	6655 Aug 30 00:10	11° m 30'19	20.00455 AU
				morning rise	6655 Sep 16 00:57	12° Mp 31'07	
conjunction	6649 Aug 02 19:34	15° Ω 25'43	0°27'25	retrograde	6655 Dec 19 05:53	15° m 49'02	
minimum elong	6649 Aug 02 19:34	15° Ω 25'43	0°27'22	opposition	6656 Mar 03 12:02	13° Mp 46'32	0°48'52
max. Earth dist.	6649 Aug 02 20:20	15° Ω 25'50	20.41005 AU	min. Earth dist.	6656 Mar 03 19:47	13° m 45'42	17.97038 AU
morning rise	6649 Aug 19 08:47	16° Ω 23'35		direct	6656 May 17 02:22	11° m)44'26	
retrograde	6649 Nov 21 22:15	19° £ 37′25		evening set	6656 Aug 17 14:59	14° m 59'19	
opposition	6650 Feb 06 02:56	17° Ω 36'04	0°32'06	evening sec	00001148 17 11.05	1. 140212	
min. Earth dist.	6650 Feb 06 02:27		18.37829 AU	conjunction	6656 Sep 03 06:14	15° m 58'53	0°44'52
direct	6650 Apr 21 18:28	17° 03 007	16.37629 AU	minimum elong	6656 Sep 03 06:14	15° My 58'53	0°44'51
	=			_	-		
evening set	6650 Jul 22 00:16	18° Ω 44'22		max. Earth dist.	6656 Sep 02 21:16		19.93660 AU
				morning rise	6656 Sep 19 22:26	16° Mp 58'38	
conjunction	6650 Aug 07 11:39	19° Ω 42'08	0°30'27	retrograde	6656 Dec 23 02:04	20° m 17'11	
minimum elong	6650 Aug 07 11:39	19° Ω 42'08	0°30'25	opposition	6657 Mar 08 03:27	18° Mp 14'31	0°50'47
max. Earth dist.	6650 Aug 07 11:51	19° Ω 42'10	20.34612 AU	min. Earth dist.	6657 Mar 08 11:25	18° m 13'39	17.90323 AU
morning rise	6650 Aug 24 01:15	20° Ω 40′15		direct	6657 May 21 20:04	16°Mp 12'01	
retrograde	6650 Nov 26 14:24	23° Ω 54'48		evening set	6657 Aug 22 12:41	19° ™ 28'06	
opposition	6651 Feb 10 14:58	21° Ω 53'18	0°35'24				
min. Earth dist.	6651 Feb 10 15:33	21° Ω 53'14	18.31322 AU	conjunction	6657 Sep 08 04:14	20° m 27'57	0°46'27
direct	6651 Apr 26 06:04	19° Ω 53'11		minimum elong	6657 Sep 08 04:14	20° mp 27'57	0°46'27
evening set	6651 Jul 26 16:33	23° Ω 02'22		max. Earth dist.	6657 Sep 07 17:08	20° m 26'17	19.87036 AU
8				morning rise	6657 Sep 24 20:43	21° m/27'57	
conjunction	6651 Aug 12 04:31	24° Ω 00'25	0°33'20	retrograde	6657 Dec 27 20:11	24° m) 47'08	
minimum elong	6651 Aug 12 04:30	24°Ω00'25	0°33'18	opposition	6658 Mar 12 19:48	22° m) 44'18	0°52'25
max. Earth dist.	6651 Aug 12 01:50		20.28007 AU	min. Earth dist.	6658 Mar 13 05:35	=	17.83823 AU
			20.28007 AU				17.83823 AU
morning rise	6651 Aug 28 18:51	24° £ 58′50		direct	6658 May 26 12:02	20° Mp 41'26	
retrograde	6651 Dec 01 06:52	28° Ω 14'04	0020121	evening set	6658 Aug 27 10:58	23° m 58'43	
opposition	6652 Feb 15 03:41	26° Ω 12'23	0°38'31				
min. Earth dist.	6652 Feb 15 06:10		18.24626 AU	conjunction	6658 Sep 13 03:01	24° Mp 58'50	0°47'46
direct	6652 Apr 29 17:37	24° Ω 11'53		minimum elong	6658 Sep 13 03:01	24° Mp 58'50	0°47'45
evening set	6652 Jul 30 09:32	27° Ω 22'10		max. Earth dist.	6658 Sep 12 15:40	24° Mp 57'07	19.80659 AU
				morning rise	6658 Sep 29 19:31	25° m 59'04	
conjunction	6652 Aug 15 22:25	28° Ω 20'32	0°36'03	retrograde	6659 Jan 01 17:42	29° Mp 18'53	
minimum elong	6652 Aug 15 22:25	28° Ω 20'32	0°36'03	opposition	6659 Mar 17 12:42	27° Mp 15'56	0°53'44
max. Earth dist.	6652 Aug 15 19:12	28° Ω 20′04	20.21221 AU	min. Earth dist.	6659 Mar 17 22:17	27° m 14'54	17.77586 AU
morning rise	6652 Sep 01 13:08	29° Ω 19′13		direct	6659 May 31 07:26	25° m 12'44	
	6652 Sep 13 14:09	0° m y		evening set	6659 Sep 01 10:20	28° mp 31'12	
retrograde	6652 Dec 05 00:46	2°m/35'08		Ü	1	•	
opposition	6653 Feb 18 16:53	0°m/33'15	0°41'27	conjunction	6659 Sep 18 02:36	29° mp 31'35	0°48'47
min. Earth dist.	6653 Feb 18 20:15		18.17764 AU	minimum elong	6659 Sep 18 02:36	29° m 31'35	0°48'47
min. Euror uroc.	6653 Mar 03 22:22	30°R Ω	10.17,701.110	max. Earth dist.	6659 Sep 17 13:38	-•	19.74570 AU
direct	6653 May 04 07:28	28° Ω 32'23		max. Earth dist.	6659 Sep 25 21:38	0° ي	17.74370710
direct	6653 Jul 02 10:46	0° m		morning rise	6659 Oct 04 19:13	0° £ 32'03	
				morning rise			
evening set	6653 Aug 04 03:44	1° m 43'47		retrograde	6660 Jan 06 13:28	3° Ω 52'28	0054142
				opposition	6660 Mar 21 06:21	1° Ω 49'26	
conjunction	6653 Aug 20 17:06	2° m 42'27	0°38'36	min. Earth dist.	6660 Mar 21 17:43		17.71668 AU
minimum elong	6653 Aug 20 17:06	2° m/42'27	0°38'34		6660 May 12 00:04	30°R. Mp	
max. Earth dist.	6653 Aug 20 11:05		20.14312 AU	direct	6660 Jun 04 00:52	29° m 45'55	
morning rise	6653 Sep 06 08:25	3° Mp 41'25			6660 Jun 26 21:33	0∘ ⊽	
retrograde	6653 Dec 09 17:26	6° Mp 58′00		evening set	6660 Sep 05 10:28	3° ჲ 05'35	
opposition	6654 Feb 23 06:37	4° m 55′55	0°44'10				
min. Earth dist.	6654 Feb 23 12:00	4° M 55′20	18.10832 AU	conjunction	6660 Sep 22 03:06	4° ≙ 06'14	0°49'30
direct	6654 May 08 20:12	2° m 54'37		minimum elong	6660 Sep 22 03:06	4° Ω 06'14	0°49'31
	003+ Way 00 20.12			_		40.000411.1	
evening set	6654 Aug 08 22:35	6° Mp 07′10		max. Earth dist.	6660 Sep 21 13:36	4° <u>32</u> 04'11	19.68819 AU
evening set	•	6° Mp 07′10		max. Earth dist. morning rise	6660 Sep 21 13:36 6660 Oct 08 19:43	4° ± 204'11 5° £ 06'55	19.68819 AU
-	6654 Aug 08 22:35	6° ሺ 07'10 7° ሺ 06'09	0°40'55	morning rise	-		19.68819 AU
conjunction	6654 Aug 08 22:35 6654 Aug 25 12:45	7° ዂ 06'09		morning rise retrograde	6660 Oct 08 19:43 6661 Jan 10 12:40	5° £ 06'55 8° £ 27'54	
-	6654 Aug 08 22:35	7° ኲ 06'09 7° ዂ 06'09	0°40'55 0°40'54 20.07366 AU	morning rise	6660 Oct 08 19:43	5° Ω 06'55 8° Ω 27'54 6° Ω 24'50	

direct	6661 Jun 08 21:31	4° £ 21'03		agniumation	6667 Oct. 27, 00:45	6°M54'57	0045121
direct				conjunction	6667 Oct 27 00:45		
evening set	6661 Sep 10 11:39	7° £ 41'54		minimum elong	6667 Oct 27 00:45	6°M54'57	0°45'33
				morning rise	6667 Nov 12 15:01	7°M56'37	
conjunction	6661 Sep 27 04:23	8° £ 42'47	0°49'54	retrograde	6668 Feb 13 10:07	11°M20'07	
minimum elong	6661 Sep 27 04:23	8° ≏ 42'47	0°49'55	opposition	6668 Apr 27 04:02	9°M16'52	
max. Earth dist.	6661 Sep 26 13:40		19.63381 AU	min. Earth dist.	6668 Apr 27 20:58		17.36019 AU
morning rise	6661 Oct 13 20:51	9° ≏ 43'40		direct	6668 Jul 11 11:16	7° M 11'16	
retrograde	6662 Jan 15 10:17	13° ≏ 05'12		evening set	6668 Oct 14 13:30	10°M38'40	
opposition	6662 Mar 30 19:46	11° ≏ 02'07	0°55'40	max. Earth dist.	6668 Oct 30 08:38	11°M37'26	19.34584 AU
min. Earth dist.	6662 Mar 31 08:49	11° ≏ 00'42	17.60807 AU				
direct	6662 Jun 13 16:23	8° ≏ 58'04		conjunction	6668 Oct 31 05:17	11°M40'39	0°43'38
evening set	6662 Sep 15 13:34	12° ≏ 20'05		minimum elong	6668 Oct 31 05:17	11° M 40'39	0°43'40
				morning rise	6668 Nov 16 19:08	12°M42'22	
conjunction	6662 Oct 02 06:24	13° ≏ 21'11	0°50'00		6668 Dec 29 20:19	15° ™	
minimum elong	6662 Oct 02 06:24	13° ≏ 21'11	0°50'02	retrograde	6669 Feb 17 10:48	16°M05'58	
max. Earth dist.	6662 Oct 01 14:42	13° ≏ 18'46	19.58274 AU		6669 Apr 09 11:35	15°RM	
morning rise	6662 Oct 18 22:44	14° £ 22'15		opposition	6669 May 02 03:12	14°M02'41	0°47'30
retrograde	6663 Jan 20 11:00	17° ≏ 44'17		min. Earth dist.	6669 May 02 20:02		17.33337 AU
opposition	6663 Apr 04 15:31	15° £ 41'11	0°55'36	direct	6669 Jul 16 14:15	11°M56'52	17.55557110
min. Earth dist.	6663 Apr 05 04:29		17.55855 AU	uncer	6669 Oct 12 21:24	15°M	
direct	6663 Jun 18 14:37	13° ⊆ 36'53	17.33033710	evening set	6669 Oct 19 18:25	15°M24'52	
		15 ≥ 50'55		evening set	0009 Oct 19 18.23	13 11624 32	
evening set	6663 Sep 20 16:10	10 == 39 39			(((0)N 05 00-54	1.69 m 2.615.5	0941127
. ,.	(((2.0 + 07.00.05	100 0 01110	0040146	conjunction	6669 Nov 05 09:54	16°M26'55	0°41'27
conjunction	6663 Oct 07 09:05	18° £ 01'18	0°49'46	minimum elong	6669 Nov 05 09:54	16°M26'55	
minimum elong	6663 Oct 07 09:05	18° ഫ 01'18	0°49'47	max. Earth dist.	6669 Nov 04 14:25		19.32162 AU
max. Earth dist.	6663 Oct 06 16:34		19.53460 AU	morning rise	6669 Nov 21 22:54	17°M28'38	
morning rise	6663 Oct 24 01:06	19° ≏ 02'32		retrograde	6670 Feb 22 10:30	20°M52'16	
retrograde	6664 Jan 25 09:41	22° ≏ 25'00		opposition	6670 May 07 02:47	18°M48'59	
opposition	6664 Apr 08 12:10	20° £ 21'53	0°55'10	min. Earth dist.	6670 May 07 19:43		17.31194 AU
min. Earth dist.	6664 Apr 09 02:55		17.51195 AU	direct	6670 Jul 21 16:10	16°M42'59	
direct	6664 Jun 22 10:59	18° ≙ 17'19		evening set	6670 Oct 24 23:34	20° ™ 11'30	
evening set	6664 Sep 24 19:38	21° ≏ 41'26					
				conjunction	6670 Nov 10 14:20	21°M13'33	0°38'58
conjunction	6664 Oct 11 12:25	22° £ 42'56	0°49'12	minimum elong	6670 Nov 10 14:20	21°M13'33	0°39'01
minimum elong	6664 Oct 11 12:25	22° £ 42'56	0°49'13	max. Earth dist.	6670 Nov 09 17:57	21°M10'21	19.30322 AU
max. Earth dist.	6664 Oct 10 18:25	22° ≏ 40'09	19.48954 AU	morning rise	6670 Nov 27 02:47	22°M15'16	
morning rise	6664 Oct 28 04:14	23° ≏ 44'19		retrograde	6671 Feb 27 10:42	25°M38'54	
retrograde	6665 Jan 29 10:48	27° ₽ 07'09		opposition	6671 May 12 02:38	23°M35'37	0°41'59
opposition	6665 Apr 13 09:12	25° ≏ 04'00	0°54'22	min. Earth dist.	6671 May 12 19:24		17.29672 AU
min. Earth dist.	6665 Apr 13 23:55		17.46845 AU	direct	6671 Jul 26 19:18	21°M29'28	
direct	6665 Jun 27 11:06	22° ♀ 59'10	17.100.0110	evening set	6671 Oct 30 04:28	24°M58'23	
evening set	6665 Sep 29 23:34	26° £ 24'14		evening sec	00/1 000 30 01.20	21 1103023	
evening set	0003 БСР 23 23.54	20 =2414		conjunction	6671 Nov 15 18:50	26°M00'27	0°36'13
conjunction	6665 Oct 16 16:19	27° £ 25'54	0°48'18	minimum elong	6671 Nov 15 18:50	26°M00'27	0°36'16
minimum elong	6665 Oct 16 16:19	27° - 25′54		max. Earth dist.	6671 Nov 14 23:56		19.29117 AU
•							19.2911/ AU
max. Earth dist.	6665 Oct 15 22:04	27 ≗ 23 04 28° ≗ 27'24	19.44758 AU	morning rise	6671 Dec 02 06:24	27°ML02'08 0°⊀	
morning rise	6665 Nov 02 07:35				6672 Feb 02 03:16		
. 1	6665 Nov 29 14:49	0°M,		retrograde	6672 Mar 03 11:15	0° ∡ 725'40	
retrograde	6666 Feb 03 09:59	1°M50'30		*.*	6672 Apr 03 07:07	30°RM	0020145
	6666 Apr 13 11:15	30° ₹ Ω		opposition	6672 May 16 02:51	28°M22'29	0°38'47
opposition	6666 Apr 18 07:05	29° £ 47′20		min. Earth dist.	6672 May 16 18:59		17.28786 AU
min. Earth dist.	6666 Apr 18 23:13		17.42827 AU	direct	6672 Jul 30 22:31	26°M16'15	
direct	6666 Jul 02 09:21	27° £ 42'14		evening set	6672 Nov 03 09:33	29°M45'29	
	6666 Sep 15 13:36	0°M₊			6672 Nov 07 07:43	0°⊀	
evening set	6666 Oct 05 03:50	1°M08'10					
				conjunction	6672 Nov 19 23:05	0° ≯ 47'30	0°33'13
conjunction	6666 Oct 21 20:15	2°M09'58	0°47'04	minimum elong	6672 Nov 19 23:06	0° ∡ 747'30	0°33'16
minimum elong	6666 Oct 21 20:15	2°M₀09'58	0°47'05	max. Earth dist.	6672 Nov 19 03:47	0° ∡ ¹44'29	19.28570 AU
max. Earth dist.	6666 Oct 21 00:30	2°M06'54	19.40936 AU	morning rise	6672 Dec 06 09:54	1° х² 49′08	
morning rise	6666 Nov 07 11:12	3°M11'34		retrograde	6673 Mar 08 11:07	5° х 12'34	
retrograde	6667 Feb 08 10:49	6°M34'55		opposition	6673 May 21 03:19	3° х 09′29	0°35'18
opposition	6667 Apr 23 05:20	4°M31'41	0°51'39	min. Earth dist.	6673 May 21 19:20	3° ∡ 07'44	17.28583 AU
min. Earth dist.	6667 Apr 23 21:21	4°M29'56	17.39207 AU	direct	6673 Aug 05 01:15	1° х *03′13	
direct	6667 Jul 07 11:11	2°M26'20		evening set	6673 Nov 08 14:17	4° ∡ ³32'42	
evening set	6667 Oct 10 08:27	5°M53'02		max. Earth dist.	6673 Nov 24 09:27		19.28710 AU
max. Earth dist.	6667 Oct 26 05:32		19.37523 AU				_
				conjunction	6673 Nov 25 03:14	5° х 34'40	0°29'59
				,	20 00.11	2 2. 31 10	. =. •.

	6685 Jul 12 19:16	30°R₹		direct	6691 Oct 30	21:26	24° ≈ 44'39	
opposition	6685 Jul 17 09:44	29° ප් 48'19 -0°1	16'36	evening set	6692 Feb 01	18:07	28° ≈ 02'11	
min. Earth dist.	6685 Jul 17 15:17	29° ප් 47'44 17.6	66279 AU					
direct	6685 Oct 02 10:26	27° る 43'54		conjunction	6692 Feb 17	14:12	28° ≈ 59'36	-0°36'23
	6685 Dec 16 18:39	0° ≈		minimum elong	6692 Feb 17	14:11	28° ≈ 59'36	0°36'22
evening set	6686 Jan 05 07:49	1° ≈ 07'47		max. Earth dist.	6692 Feb 17	17:38	29° ≈ 00'07	20.08806 AU
				morning rise	6692 Mar 04	08:31	29° ≈ 56'45	
conjunction	6686 Jan 21 09:07	2°≈07'07 -0°1	16'52		6692 Mar 05	06:23	0°)	
minimum elong	6686 Jan 21 09:06	2°≈07'07 0°1	16'49	retrograde	6692 Jun 03	21:20	3° ¥ 10′07	
max. Earth dist.	6686 Jan 21 03:25	2°≈06'15 19.6	69155 AU	opposition	6692 Aug 18	12:31	1°) 10′30	-0°41'48
morning rise	6686 Feb 06 07:42	3° ≈ 06'02		min. Earth dist.	6692 Aug 18	08:24	1°) 1 0′56	18.12260 AU
retrograde	6686 May 08 13:55	6° ≈ 23'19			6692 Sep 17	22:03	30° ₹ ≈	
opposition	6686 Jul 22 08:17	4°≈22'21 -0°2	20'47	direct	6692 Nov 03	16:24	29° ≈ 08'49	
min. Earth dist.	6686 Jul 22 11:48	4°≈21'58 17.7	72110 AU		6692 Dec 18	21:07	0° ∀	
direct	6686 Oct 07 10:15	2° ≈ 18'13		evening set	6693 Feb 05	08:40	2° ∺ 25′11	
evening set	6687 Jan 10 03:46	5° ≈ 41'08						
				conjunction	6693 Feb 21		3° ¥ 22′18	
conjunction	6687 Jan 26 04:17	6°≈40'09 -0°2		minimum elong	6693 Feb 21		3° ¥ 22′18	
minimum elong	6687 Jan 26 04:16		20'31	max. Earth dist.	6693 Feb 21			20.15708 AU
max. Earth dist.	6687 Jan 26 01:19	6°≈39'41 19.7	75175 AU	morning rise	6693 Mar 08		4° 升 19′10	
morning rise	6687 Feb 11 01:53	7° ≈ 38'46		retrograde	6693 Jun 08		7°) €31'54	
retrograde	6687 May 13 08:04	10°≈55'21		opposition	6693 Aug 23		5°) 32′28	
opposition	6687 Jul 27 06:12	8°≈54'37 -0°2		min. Earth dist.	6693 Aug 23			18.19114 AU
min. Earth dist.	6687 Jul 27 08:29	8°≈54'22 17.7	78298 AU	direct	6693 Nov 08		3°) (31′10	
direct	6687 Oct 12 08:47	6°≈50'51		evening set	6694 Feb 09	22:19	6°) 46′23	
evening set	6688 Jan 14 22:58	10°≈12'45			((04E 1 05	17.02	70 V 42111	0041112
. ,.	((00 I 20 22 24	11011126 000	24105	conjunction	6694 Feb 25		7°) (43'11	
conjunction	6688 Jan 30 22:24	11°≈11'26 -0°2		minimum elong	6694 Feb 25		7°) (43'11	0°41'13 20.22503 AU
minimum elong	6688 Jan 30 22:24		24'02	max. Earth dist.	6694 Feb 25			20.22503 AU
max. Earth dist.	6688 Jan 30 20:01	11°≈11'04 19.8	81531 AU	morning rise	6694 Mar 13		8° ¥ 39'48 11° ¥ 51'54	
morning rise	6688 Feb 15 19:22	12°≈09'45 15°≈		retrograde	6694 Jun 13		9° H 52'36	0016152
ratragrada	6688 Apr 16 04:55 6688 May 17 02:43	15 ≈ 15°≈25'42		opposition min. Earth dist.	6694 Aug 28 6694 Aug 27			-0 46 33 18.25854 AU
retrograde	6688 Jun 17 18:22	15 ≈25 42 15°R≈		direct	6694 Nov 13		7° H 51'39	16.23634 AU
opposition	6688 Jul 31 03:46	13°≈25'11 -0°2	28,38	evening set	6695 Feb 14		11° H 05'42	
min. Earth dist.	6688 Jul 31 04:27	13°≈25'07 17.8		evening set	0073100 14	11.00	11 /(03 42	
direct	6688 Oct 16 06:53	11°≈21'49	04002710	conjunction	6695 Mar 02	05:20	12° ¥ 02'13	-0°43'17
evening set	6689 Jan 18 17:00	14°≈42'39		minimum elong	6695 Mar 02		12° X 02'13	
e venning see	6689 Jan 23 11:51	15° ≈		max. Earth dist.	6695 Mar 02			20.29164 AU
	0000 0001 20 11.01			morning rise	6695 Mar 17		12°) 58'33	20.2910.110
conjunction	6689 Feb 03 15:39	15° ≈ 41'02 -0°2	27'27	retrograde	6695 Jun 17		16° ¥ 10′00	
minimum elong	6689 Feb 03 15:39	15° ≈ 41'02 0°2		opposition	6695 Sep 01		14°) (10′49	-0°49'01
max. Earth dist.	6689 Feb 03 15:49	15° ≈ 41'03 19.8	88156 AU	min. Earth dist.	6695 Sep 01			18.32426 AU
morning rise	6689 Feb 19 11:45	16° ≈ 39'03		direct	6695 Nov 18		12° ℋ 10′12	
retrograde	6689 May 21 20:11	19° ≈ 54'20		evening set	6696 Feb 18	23:03	15° ¥ 23′05	
opposition	6689 Aug 05 00:50	17° ≈ 54'04 -0°3	32'16	_				
min. Earth dist.	6689 Aug 05 00:01	17° ≈ 54'09 17.9	91520 AU	conjunction	6696 Mar 05	16:41	16° ₩ 19'19	-0°45'04
direct	6689 Oct 21 04:25	15° ≈ 51'08		minimum elong	6696 Mar 05	16:41	16° ₩ 19'19	0°45'04
evening set	6690 Jan 23 10:19	19° ≈ 10′53		max. Earth dist.	6696 Mar 06	00:42	16° ∺ 20'31	20.35655 AU
				morning rise	6696 Mar 21	09:23	17° ₩ 15'24	
conjunction	6690 Feb 08 07:58	20°≈08'56 -0°3	30'38	retrograde	6696 Jun 21	03:56	20° ∺ 26'14	
minimum elong	6690 Feb 08 07:58	20° ≈ 08'56 0°3	30'35	opposition	6696 Sep 05	11:22	18° ¥ 27′08	-0°50'51
max. Earth dist.	6690 Feb 08 08:45	20° ≈ 09'03 19.9	94959 AU	min. Earth dist.	6696 Sep 05	03:16	18° ¥ 27'57	18.38851 AU
morning rise	6690 Feb 24 03:30	21° ≈ 06'40		direct	6696 Nov 21	15:43	16° ∺ 26'49	
retrograde	6690 May 26 13:22	24° ≈ 21'18		evening set	6697 Feb 22	09:50	19° ∺ 38'31	
opposition	6690 Aug 09 21:16	22°≈21'16 -0°3	35'41					
min. Earth dist.	6690 Aug 09 19:22	22° ≈ 21'28 17.9	98399 AU	conjunction	6697 Mar 10		20°) 34′28	
direct	6690 Oct 26 00:41	20°≈18'44		minimum elong	6697 Mar 10		20°) (34′28	
evening set	6691 Jan 28 02:35	23° ≈ 37′24		max. Earth dist.	6697 Mar 10			20.42009 AU
				morning rise	6697 Mar 25		21°) € 30'19	
conjunction	6691 Feb 12 23:34	24°≈35'08 -0°3		retrograde	6697 Jun 25		24°) 40'33	
minimum elong	6691 Feb 12 23:34		33'35	opposition	6697 Sep 10		22°) (41′30	
max. Earth dist.	6691 Feb 13 02:26	24°≈35'34 20.0	01876 AU	min. Earth dist.	6697 Sep 09			18.45134 AU
morning rise	6691 Feb 28 18:24	25°≈32'34		direct	6697 Nov 26		20°) (41'28	
retrograde	6691 May 31 06:07	28° ≈ 46'34		evening set	6698 Feb 26	19:57	23°) € 52'01	
opposition	CCO1 A 14 15 00							
min. Earth dist.	6691 Aug 14 17:09 6691 Aug 14 13:41	26°≈46'45 -0°3 26°≈47'07 18.0		conjunction	6698 Mar 14	12.45	24°) 47'43	0047152

minimum elong	6698 Mar 14 12:45	24°) 47'43	0°47'53	min. Earth dist.	6704 Oct 10 08:55	21° Y 39'13	18.84712 AU
max. Earth dist.	6698 Mar 14 23:20		20.48224 AU	opposition	6704 Oct 11 00:46	21° Y 37'38	
morning rise	6698 Mar 30 05:02	25°) (43'20	20.10221710	direct	6704 Dec 26 18:30	19° Υ 39'51	0 22 00
retrograde	6698 Jun 30 02:40	28° H 52'59		evening set	6705 Mar 27 23:43	22° Υ 43'38	
opposition	6698 Sep 14 18:25	26°) 54'00	-0°53'38	evening sec	0703 Mai 27 23.13	22 1330	
min. Earth dist.	6698 Sep 14 08:02		18.51308 AU	conjunction	6705 Apr 12 15:37	23° Y 37'58	-0°49'26
direct	6698 Nov 30 21:52	24°) 54'15	10.31300710	minimum elong	6705 Apr 12 15:37	23° Y 37'58	
evening set	6699 Mar 03 05:13	28°) (03'43		max. Earth dist.	6705 Apr 13 08:31		20.86984 AU
evening set	0077 With 05 05.15	20 7(05 45		morning rise	6705 Apr 28 08:33	24° Y 32'28	20.00704710
conjunction	6699 Mar 18 21:43	28° ¥ 59'09	00/18/53	retrograde	6705 Jul 30 01:22	27° Υ 39'11	
minimum elong	6699 Mar 18 21:43	28° H 59'09	0°48'53	opposition	6705 Oct 15 11:58	25° Υ 40'52	0054115
max. Earth dist.	6699 Mar 19 09:32		20.54342 AU	min. Earth dist.	6705 Oct 14 18:44		18.89193 AU
	6699 Apr 03 13:54	29° H 54'34	20.34342 AU	direct	6705 Dec 31 05:03	23° Υ 42'33	10.09193 AU
morning rise		29 π 3434 0° Υ				26°\bar{4}321	
	6699 Apr 05 03:32	0° γ 3° Υ 03'40		evening set	6706 Apr 01 05:22	20 1 40 23	
retrograde	6699 Jul 04 14:32	1° Υ 04'45	0954125	:	(70(A 1(21-24	27° Ƴ 40'36	0949120
opposition	6699 Sep 19 08:52			conjunction	6706 Apr 16 21:24		
min. Earth dist.	6699 Sep 18 20:14		18.57366 AU	minimum elong	6706 Apr 16 21:24	27°Υ40'36	
	6699 Oct 17 13:42	30° ₹ ₩		max. Earth dist.	6706 Apr 17 14:50		20.91225 AU
direct	6699 Dec 05 12:11	29° ₩ 05'20		morning rise	6706 May 02 14:38	28° Y 35′00	
	6700 Jan 21 10:12	0° Υ			6706 May 29 11:12	0° 8	
evening set	6700 Mar 07 13:43	2° Y 13'43		retrograde	6706 Aug 03 08:55	1° 8 41'27	
		••			6706 Oct 12 21:27	30° ₹ Υ	
conjunction	6700 Mar 23 05:54	3° Y 08'56		opposition	6706 Oct 19 22:40	29° Ƴ 43'11	
minimum elong	6700 Mar 23 05:54	3° Y 08'56	0°49'37	min. Earth dist.	6706 Oct 19 06:22		18.93198 AU
max. Earth dist.	6700 Mar 23 18:59		20.60330 AU	direct	6707 Jan 04 12:37	27° Y 45′54	
morning rise	6700 Apr 07 22:01	4° Ƴ 04'09			6707 Mar 21 17:43	9° 8	
retrograde	6700 Jul 08 23:49	7° Ƴ 12'45		evening set	6707 Apr 05 10:39	0° 8 48'15	
opposition	6700 Sep 23 22:53	5° Ƴ 13'56					
min. Earth dist.	6700 Sep 23 10:05	5° Ƴ 15'14	18.63295 AU	conjunction	6707 Apr 21 02:52	1° 8 42'21	-0°47'37
direct	6700 Dec 09 23:52	3° Ƴ 14'51		minimum elong	6707 Apr 21 02:52	1° 8 42'21	0°47'39
evening set	6701 Mar 11 21:34	6° Y 22′13		max. Earth dist.	6707 Apr 21 20:06	1° 8 44'51	20.94980 AU
				morning rise	6707 May 06 20:31	2° 8 36'41	
conjunction	6701 Mar 27 13:36	7° Ƴ 17'13		retrograde	6707 Aug 07 18:32	5° 8 42'54	
minimum elong	6701 Mar 27 13:36	7° Ƴ 17'13	0°50'07	opposition	6707 Oct 24 08:58	3° 8 44'39	-0°51'58
max. Earth dist.	6701 Mar 28 03:40	7° Ƴ 19'17	20.66184 AU	min. Earth dist.	6707 Oct 23 15:35	3° 8 46'23	18.96686 AU
morning rise	6701 Apr 12 05:46	8° Ƴ 12'15		direct	6708 Jan 08 22:21	1° 8 47'33	
retrograde	6701 Jul 13 11:03	11° Ƴ 20′24		evening set	6708 Apr 08 15:31	4° 8 49'14	
opposition	6701 Sep 28 12:04	9° Ƴ 21'42	-0°55'36				
min. Earth dist.	6701 Sep 27 21:12	9° Ƴ 23'11	18.69055 AU	conjunction	6708 Apr 24 08:00	5° 8 43'16	-0°46'22
direct	6701 Dec 14 12:21	7° Ƴ 22'56		minimum elong	6708 Apr 24 08:00	5° 8 43'16	0°46'25
evening set	6702 Mar 16 04:48	10° Ƴ 29'20		max. Earth dist.	6708 Apr 25 01:39	5° 8 45'49	20.98193 AU
				morning rise	6708 May 10 02:05	6° 8 37'32	
conjunction	6702 Mar 31 20:43	11° Y 24'08	-0°50'18	retrograde	6708 Aug 11 01:51	9° 8 43'33	
minimum elong	6702 Mar 31 20:43	11° Y 24'08	0°50'19	opposition	6708 Oct 27 19:02	7° 8 45'16	-0°50'27
max. Earth dist.	6702 Apr 01 11:53	11° Y 26'22	20.71830 AU	min. Earth dist.	6708 Oct 27 02:36	7° 8 46'54	18.99636 AU
morning rise	6702 Apr 16 12:59	12° Y 19'01		direct	6709 Jan 12 05:24	5° 8 48'19	
retrograde	6702 Jul 17 19:56	15° Ƴ 26'45		evening set	6709 Apr 12 20:08	8° 8 49'23	
min. Earth dist.	6702 Oct 02 10:13	13° Ƴ 29'37	18.74584 AU	_	-		
opposition	6702 Oct 03 00:52	13° Ƴ 28′09	-0°55'41	conjunction	6709 Apr 28 12:58	9° 8 43'21	-0°44'53
direct	6702 Dec 18 22:22	11° Ƴ 29'44		minimum elong	6709 Apr 28 12:58	9° 8 43'21	0°44'55
evening set	6703 Mar 20 11:33	14° Ƴ 35'12		max. Earth dist.	6709 Apr 29 06:19	9° 8 45'51	21.00891 AU
Č				morning rise	6709 May 14 07:36	10° 8 37'35	
conjunction	6703 Apr 05 03:24	15° Y 29'50	-0°50'16	retrograde	6709 Aug 15 10:37	13° 8 43'24	
minimum elong	6703 Apr 05 03:24	15° Y 29'50		min. Earth dist.	6709 Oct 31 10:57		19.02078 AU
max. Earth dist.	6703 Apr 05 19:10		20.77223 AU	opposition	6709 Nov 01 04:20	11° 8 45'04	
morning rise	6703 Apr 20 19:50	16° Y 24'34		direct	6710 Jan 16 13:52	9° 8 48'13	
retrograde	6703 Jul 22 06:43	19° Υ 31'55		evening set	6710 Apr 17 00:27	12° 8 48'43	
opposition	6703 Oct 07 12:55	17° Y 33'25	-0°55'28	- ·		0 10 13	
min. Earth dist.	6703 Oct 06 20:32		18.79821 AU	conjunction	6710 May 02 17:41	13° 8 42'39	-0°43'12
direct	6703 Dec 23 09:48	15° Υ 35'19	10.7,021710	minimum elong	6710 May 02 17:41	13° 8 42'39	
evening set	6704 Mar 23 17:54	18° Y 39'56		max. Earth dist.	6710 May 03 11:31		21.03084 AU
o ronning set	5/011/101 2J 1/.J4	10 13/30		morning rise	6710 May 18 12:52	13° 6 43°12	21.03007 AU
conjunction	6704 Apr 08 09:44	19° Ƴ 34'25	-0°40'58	morning 1150	6710 May 18 12.32 6710 May 25 11:48	14 6 3631	
minimum elong	6704 Apr 08 09:44 6704 Apr 08 09:44	19° 7 34 25 19° Y 34'25	-0°49'58 0°49'59	retrograde	6710 May 25 11:48 6710 Aug 19 17:32	13° 8 42'32	
max. Earth dist.	6704 Apr 08 09:44 6704 Apr 09 02:23		0°49′59 20.82287 AU	opposition	6710 Aug 19 17:32 6710 Nov 05 13:25	15° 8 44'07	-0°46'41
	_	20° Y 29′01	20.0220/ AU	min. Earth dist.	6710 Nov 03 13:25 6710 Nov 04 20:56		19.04042 AU
morning rise retrograde	6704 Apr 24 02:21 6704 Jul 25 14:56	20°° \ '29'01 23° \' 36'02		ının. Earun üist.	6710 Nov 04 20:56 6710 Nov 24 11:10	15°R 8	17.04042 AU
renograue	0/04 Jul 23 14.30	23 13002			0/10 NOV 24 11.10	12 40	

t' .	(711 I 20 20 20	120 47121			(717.) (20.01.50	110 T 07122	0027110
direct	6711 Jan 20 20:30	13° 8 47'21		conjunction	6717 May 30 01:50	11° II 27'32	
	6711 Mar 16 12:40	15° 8		minimum elong	6717 May 30 01:50	11° Ⅱ 27'32	
evening set	6711 Apr 21 04:31	16° 8 47'22		max. Earth dist.	6717 May 30 19:10 6717 Jun 15 02:00	11° I I30'01 12° I I22'05	21.07271 AU
agniumation	6711 May 06 22:00	17° 8 41'15	0041110	morning rise retrograde	6717 Sep 17 01:45	12 H 2203	
conjunction	6711 May 06 22:08 6711 May 06 22:08	17 8 41 15	0°41'20	opposition	6717 Dec 03 20:40	13° I I2811 13° I I29'20	0027112
minimum elong max. Earth dist.	•		21.04839 AU	min. Earth dist.	6717 Dec 03 20:40 6717 Dec 03 04:04		19.06827 AU
	6711 May 07 15:45	17 8 43 47	21.04639 AU	direct	6717 Dec 03 04:04 6718 Feb 17 14:21	13 H 31 00	19.00827 AU
morning rise	6711 May 22 17:56 6711 Aug 24 02:04	21° 8 41'03		evening set	6718 May 18 09:25	11 H 32 33	
retrograde opposition	6711 Aug 24 02.04 6711 Nov 09 21:58	19° 8 42'33	0944120	evening set	0/16 Way 16 09.23	14 Д313/	
min. Earth dist.	6711 Nov 09 21:38	_	19.05592 AU	conjunction	6718 Jun 03 07:20	15° Ⅱ 25'51	0023100
direct	6712 Jan 25 03:29	19 8 45'51	19.03392 AU	minimum elong	6718 Jun 03 07:20	15° I I25'51	
	6712 Apr 24 08:29	20° 8 45'26		max. Earth dist.	6718 Jun 04 00:34		21.06223 AU
evening set	0/12 Apr 24 08.29	20 043 20			6718 Jun 19 08:14	15 H 2819 16° H 20'31	21.00223 AU
conjunction	6712 May 10 02:35	21° 8 39'19	0°20'12	morning rise retrograde	6718 Sep 21 08:35	10 H 2031 19° H 26'51	
minimum elong	6712 May 10 02:35	21° 8 39'19		opposition	6718 Dec 08 04:13	19 Ⅱ 2031 17° Ⅱ 27'57	0023148
max. Earth dist.	6712 May 10 02.33		21.06186 AU	min. Earth dist.	6718 Dec 07 13:02		19.05533 AU
	6712 May 10 20:40 6712 May 25 22:58	21° 6 33'32	21.00180 AU	direct	6719 Feb 21 18:55	17 II 2928 15° II 31'31	19.03333 AU
morning rise	•	25° 8 39'05			6719 May 22 14:27	18° II 30'20	
retrograde	6712 Aug 27 08:31 6712 Nov 13 06:21	23° 8 40'31	0942102	evening set	0/19 May 22 14.27	18 1130 20	
opposition min. Earth dist.			-0 42 03 19.06756 AU	agnismation	6719 Jun 07 13:03	19° Ⅱ 24'40	0010150
	6712 Nov 12 13:33 6713 Jan 28 09:49		19.00/30 AU	conjunction	6719 Jun 07 13:03		
direct		21° 8 43'53		minimum elong		19° Ⅱ 24'40	
evening set	6713 Apr 28 12:19	24° 8 43'07		max. Earth dist.	6719 Jun 08 05:07		21.04684 AU
	(712 Mars 14 06.56	250 427101	0027155	morning rise	6719 Jun 23 14:50	20° Ⅱ 19'28	
conjunction	6713 May 14 06:56	25° 8 37'01		retrograde	6719 Sep 25 18:28	23° II 26'05	002011.5
minimum elong	6713 May 14 06:56	25° 8 37'01		opposition	6719 Dec 12 11:46	21° II 27'05	
max. Earth dist.	6713 May 15 00:50	_	21.07174 AU	min. Earth dist.	6719 Dec 11 20:43		19.03726 AU
morning rise	6713 May 30 04:04	26° 8 31'16		direct	6720 Feb 26 01:25	19° Ⅲ 30'35	
retrograde	6713 Aug 31 17:44	29° 8 36'50	0020126	evening set	6720 May 25 19:59	22° Ⅱ 29'34	
opposition	6713 Nov 17 14:19	27° 8 38'11			(700 I 10 10 04	220 T 2402	0016144
min. Earth dist.	6713 Nov 16 20:35		19.07554 AU	conjunction	6720 Jun 10 19:24	23° II 24'03	
direct	6714 Feb 01 15:48	25° 8 41'36		minimum elong	6720 Jun 10 19:24	23° II 24'03	
evening set	6714 May 02 16:15	28° 8 40'36		max. Earth dist.	6720 Jun 11 11:03		21.02597 AU
	(714) (10 11 27	200 42 421	002.412.0	morning rise	6720 Jun 26 21:58	24° Ⅱ 18'59	
conjunction	6714 May 18 11:27	29° 8 34'31		retrograde	6720 Sep 29 02:09	27° II 25'55	001.00
minimum elong	6714 May 18 11:27	29° 8 34'31		opposition	6720 Dec 15 19:26	25° Ⅱ 26'47	
max. Earth dist.	6714 May 19 05:44		21.07777 AU	min. Earth dist.	6720 Dec 15 05:57		19.01361 AU
	6714 May 25 21:23	0°II		direct	6721 Mar 01 06:32	23° II 30'10	
morning rise	6714 Jun 03 09:14	0° Ⅱ 28'50		evening set	6721 May 30 01:54	26° Ⅱ 29'22	
retrograde	6714 Sep 04 23:50	3° Ⅱ 34'26	002 (127		(50.1) 15 00 00	250 T 22150	0010104
opposition	6714 Nov 21 22:02	1° Ⅱ 35'44		conjunction	6721 Jun 15 02:08	27° II 23'59	
min. Earth dist.	6714 Nov 21 05:13		19.07969 AU	minimum elong	6721 Jun 15 02:08	27° II 23'59	0°13'2'/
	6715 Jan 07 17:01	30° ₹8		behind sun begin	6721 Jun 14 22:24	27° II 23'28	
direct	6715 Feb 05 21:25	29° 8 39'14		behind sun end	6721 Jun 15 05:52	27° I I24'31	20 00067 177
	6715 Mar 06 12:56	0°II		max. Earth dist.	6721 Jun 15 16:09		20.99967 AU
evening set	6715 May 06 20:14	2° Ⅱ 38′02		morning rise	6721 Jul 01 05:39	28° Ⅱ 19'05	
	(715.) (22.16.02	201122100	0021151	. 1	6721 Aug 03 07:23	0°95	
conjunction	6715 May 22 16:02	3°∏32'00		retrograde	6721 Oct 03 11:56	1°526′20	
minimum elong	6715 May 22 16:02	3° Ⅱ 32'00		*.*	6721 Dec 06 08:17	30°RⅡ	0010151
max. Earth dist.	6715 May 23 09:49		21.08015 AU	opposition	6721 Dec 20 03:03	29° Ⅱ 27'02	
morning rise	6715 Jun 07 14:36	4° Ⅱ 26′23		min. Earth dist.	6721 Dec 19 13:59		18.98450 AU
retrograde	6715 Sep 09 09:33	7° Ⅱ 32'06	0022120	direct	6722 Mar 05 13:01	27° II 30'15	
opposition	6715 Nov 26 05:40	5° Ⅱ 33'21			6722 May 25 07:39	0°9	
min. Earth dist.	6715 Nov 25 12:10		19.08007 AU	evening set	6722 Jun 03 08:12	0° 5 29'43	
direct	6716 Feb 10 03:22	3° Ⅱ 36'53			(700) 10 00 10	1000 400	0000150
evening set	6716 May 10 00:15	6° Ⅱ 35'35		conjunction	6722 Jun 19 09:18	1°524'30	
	(#14) · · · · · · · · · · · · · · · · · · ·		000010-	minimum elong	6722 Jun 19 09:17	1°524'30	0~10'02
conjunction	6716 May 25 20:44	7° Ⅱ 29'38		behind sun begin	6722 Jun 19 03:57	1°523'46	
minimum elong	6716 May 25 20:44	7° Ⅱ 29'38		behind sun end	6722 Jun 19 14:38	1°525'15	20.06=0= :=:
max. Earth dist.	6716 May 26 14:51		21.07848 AU	max. Earth dist.	6722 Jun 19 22:47		20.96787 AU
morning rise	6716 Jun 10 20:02	8° Ⅱ 24'05		morning rise	6722 Jul 05 13:35	2°519'46	
retrograde	6716 Sep 12 15:56	11° Ⅱ 29'58	00001-	retrograde	6722 Oct 07 20:17	5° © 27'21	
opposition	6716 Nov 29 13:20	9° Ⅱ 31'11		opposition	6722 Dec 24 10:43	3°527'52	
min. Earth dist.	6716 Nov 28 20:54		19.07632 AU	min. Earth dist.	6722 Dec 23 23:10		18.95017 AU
direct	6717 Feb 13 08:07	7° Ⅱ 34'45		direct	6723 Mar 09 18:42	1°930'53	
evening set	6717 May 14 04:40	10° Ⅱ 33'25		evening set	6723 Jun 07 14:56	4°930'40	

conjunction	6723 Jun 23 16:50	5°\$25'38 -0°06'30	retrograde	6728 Nov 01 11:38	29° © 51'46
minimum elong	6723 Jun 23 16:50	5° © 25'38 0°06'33	opposition	6729 Jan 17 12:17	27°\$51'07 0°14'27
behind sun begin	6723 Jun 23 10:36	5° © 24'46	min. Earth dist.	6729 Jan 17 05:46	27°551'47 18.67162 AU
behind sun end	6723 Jun 23 23:04	5° 5 26′30	direct	6729 Apr 02 10:56	25°\$52'40
max. Earth dist.	6723 Jun 24 04:47	5°527'20 20.93141 A	AU evening set	6729 Jul 01 19:20	28°956'02
morning rise	6723 Jul 09 22:05	6° © 21′05			
retrograde	6723 Oct 12 06:14	9° 5 29'03	conjunction	6729 Jul 18 02:28	29°552'22 0°14'48
opposition	6723 Dec 28 18:28	7°\$29'20 -0°05'09	minimum elong	6729 Jul 18 02:28	29°552'22 0°14'44
min. Earth dist.	6723 Dec 28 07:18	7° 5 30'28 18.91157 A	AU behind sun begin	6729 Jul 17 23:51	29°952'00
direct	6724 Mar 13 01:12	5° © 32'06	behind sun end	6729 Jul 18 05:04	29°\$52'44
evening set	6724 Jun 10 22:00	8°532'18	max. Earth dist.	6729 Jul 18 08:40	29°953'15 20.64462 AU
				6729 Jul 20 07:02	0 $^{\circ}\Omega$
conjunction	6724 Jun 27 00:51	9° 5 27'28 -0°02'59	morning rise	6729 Aug 03 12:46	0° Ω 49'09
minimum elong	6724 Jun 27 00:50	9° 5 27'28 0°03'03	retrograde	6729 Nov 06 01:05	4° Ω 00′18
behind sun begin	6724 Jun 26 18:12	9° 5 26'32	opposition	6730 Jan 21 21:41	1° Ω 59'31 0°18'17
behind sun end	6724 Jun 27 07:27	9° 5 28'23	min. Earth dist.	6730 Jan 21 16:01	2° Ω 00'06 18.61685 AU
max. Earth dist.	6724 Jun 27 12:31	9° 5 29'08 20.89078 A	AU direct	6730 Apr 06 18:44	0° Ω 00'49
morning rise	6724 Jul 13 06:52	10° 5 23'06	evening set	6730 Jul 06 06:38	3° Ω 05′03
retrograde	6724 Oct 15 15:24	13° © 31'29			
opposition	6725 Jan 01 02:24	11°531'33 -0°01'14	conjunction	6730 Jul 22 14:42	4° Ω 01'40 0°18'13
min. Earth dist.	6724 Dec 31 16:32	11°532'34 18.86910 A	AU minimum elong	6730 Jul 22 14:42	4° Ω 01'40 0°18'11
direct	6725 Mar 17 07:15	9° © 34'05	max. Earth dist.	6730 Jul 22 20:40	4° Ω 02'31 20.58875 AU
asc. node	6725 Apr 26 14:55	10°©15'27	morning rise	6730 Aug 08 01:36	4° Ω 58'42
evening set	6725 Jun 15 05:49	12° © 34'46	retrograde	6730 Nov 10 14:00	8° Ω 10'31
			opposition	6731 Jan 26 07:33	6° Ω 09'37 0°22'03
conjunction	6725 Jul 01 09:28	13°530'08 0°00'39	min. Earth dist.	6731 Jan 26 03:05	6° Ω 10'05 18.55993 AU
minimum elong	6725 Jul 01 09:28	13°930'08 0°00'37	direct	6731 Apr 11 03:08	4° Ω 10'42
behind sun begin	6725 Jul 01 02:50	13° © 29'12	evening set	6731 Jul 10 18:59	7° Ω 15'51
behind sun end	6725 Jul 01 16:06	13° © 31'03			_
max. Earth dist.	6725 Jul 01 19:33	13°931'34 20.84677 A	3	6731 Jul 27 03:47	8°Ω12'44 0°21'35
morning rise	6725 Jul 17 16:28	14° © 25'58	minimum elong	6731 Jul 27 03:47	8° Ω 12'44 0°21'31
retrograde	6725 Oct 20 02:19	17° © 34'49	max. Earth dist.	6731 Jul 27 07:31	8° Ω 13'16 20.53090 AU
opposition	6726 Jan 05 10:19	15°S34'41 0°02'42	morning rise	6731 Aug 12 15:33	9° £ 10′03
min. Earth dist.	6726 Jan 05 00:56	15°S35'38 18.82354 /	· ·	6731 Nov 15 04:43	12° € 22'34
direct	6726 Mar 21 14:00	13° © 36'57	opposition	6732 Jan 30 17:56	10°Ω21'32 0°25'44
evening set	6726 Jun 19 14:10	16° © 38'11	min. Earth dist.	6732 Jan 30 14:43	10°Ω21'53 18.50099 AU
. ,.	(70 (X 1 05 10 42	170622147 0004116	direct	6732 Apr 14 11:41	8° Ω 22'22
conjunction	6726 Jul 05 18:43	17°533'47 0°04'16	evening set	6732 Jul 14 08:12	11° Ω 28'29
minimum elong	6726 Jul 05 18:44	17°\$33'47 0°04'13	. ,.	(722 1 1 20 17 50	120 025140 0024150
behind sun begin	6726 Jul 05 12:10	17°532'52	conjunction	6732 Jul 30 17:58	12° Q 25'40 0°24'50
behind sun end max. Earth dist.	6726 Jul 06 01:18 6726 Jul 06 04:36	17°934'42 17°935'11 20.79970 A	minimum elong AU max. Earth dist.	6732 Jul 30 17:58 6732 Jul 30 21:11	12° Ω 25'40 0°24'48 12° Ω 26'08 20.47068 AU
morning rise	6726 Jul 22 02:27	17 \$3311 20.799707 18°\$29'51	morning rise	6732 Aug 16 06:18	12 δ2 26 08 20.47008 AU 13° Ω 23'15
retrograde	6726 Oct 24 12:15	21°©39'12	morning rise	6732 Sep 15 22:01	15° Ω
opposition	6727 Jan 09 18:40	19°538'52 0°06'39	retrograde	6732 Nov 18 19:41	16° Ω 36'29
min. Earth dist.	6727 Jan 09 10:27	19° © 39'43 18.77514 A	•	6733 Jan 24 07:18	15°R Ω
direct	6727 Mar 25 20:28	17° 9 40'54	opposition	6733 Feb 03 04:54	14°Ω35'20 0°29'18
evening set	6727 Jun 23 23:03	20°542'46	min. Earth dist.	6733 Feb 03 03:03	14°Ω35'31 18.43947 AU
evening sec	0/2/ Van 25 25.05	20 2 .2 .0	direct	6733 Apr 18 21:41	12° Ω 35'53
conjunction	6727 Jul 10 04:25	21°538'35 0°07'48	unovi	6733 Jul 06 01:45	15° Ω
minimum elong	6727 Jul 10 04:25	21°538'35 0°07'45	evening set	6733 Jul 18 22:38	15° Ω 43'01
behind sun begin	6727 Jul 09 22:24	21° © 37'45	***************************************		
behind sun end	6727 Jul 10 10:25	21° © 39'26	conjunction	6733 Aug 04 09:03	16° Ω 40′29 0°28′00
max. Earth dist.	6727 Jul 10 12:42	21°539'46 20.75019 A	·	6733 Aug 04 09:03	16° Ω 40'29 0°27'58
morning rise	6727 Jul 26 13:05	22° © 34'53	max. Earth dist.	6733 Aug 04 09:30	16° Ω 40'33 20.40790 AU
retrograde	6727 Oct 29 00:30	25°5644'48	morning rise	6733 Aug 20 22:10	17° Ω 38'21
opposition	6728 Jan 14 03:21	23°9544'17 0°10'34	retrograde	6733 Nov 23 11:33	20° Ω 52'17
min. Earth dist.	6728 Jan 13 19:39	23°\$45'05 18.72449 A	•	6734 Feb 07 16:21	18° Ω 50'58 0°32'44
direct	6728 Mar 29 03:45	21°9546'04	min. Earth dist.	6734 Feb 07 16:08	18° Ω 50'59 18.37545 AU
evening set	6728 Jun 27 08:45	24°9548'39	direct	6734 Apr 23 07:51	16° £ 51′11
Ç			evening set	6734 Jul 23 13:50	19° € 59′22
conjunction	6728 Jul 13 15:06	25°5644'44 0°11'19	-		
minimum elong	6728 Jul 13 15:06	25°5644'44 0°11'16	conjunction	6734 Aug 09 01:10	20° Ω 57'08 0°31'01
behind sun begin	6728 Jul 13 10:12	25°5544'03	minimum elong	6734 Aug 09 01:10	20° Ω 57'08 0°30'59
behind sun end	6728 Jul 13 19:59	25°9545'25	max. Earth dist.	6734 Aug 09 00:57	20° Ω 57'06 20.34256 AU
max. Earth dist.	6728 Jul 13 23:12	25°545'53 20.69838 A	AU morning rise	6734 Aug 25 14:43	21° Ω 55'16
morning rise	6728 Jul 30 00:28	26° 5 41'16	retrograde	6734 Nov 28 03:49	25° ん 09'53

opposition	6735 Feb 12 04:28	23° Ω 08′23	0°36'01	conjunction	6741 Sep 09 17:04	21° m 42'27	0°46'50
min. Earth dist.	6735 Feb 12 05:24	23° Ω 08'17	18.30893 AU	minimum elong	6741 Sep 09 17:04	21° m 42'27	0°46'49
direct	6735 Apr 27 19:15	21° Ω 08'16		max. Earth dist.	6741 Sep 09 06:17	21° m 40'49	19.86617 AU
evening set	6735 Jul 28 05:55	24° Ω 17'29		morning rise	6741 Sep 26 09:29	22° m 42'27	
				retrograde	6741 Dec 29 09:26	26° m 01'39	
conjunction	6735 Aug 13 17:51	25° Ω 15'33	0°33'54	opposition	6742 Mar 14 09:02	23° m 58'45	0°52'49
minimum elong	6735 Aug 13 17:51	25° Ω 15'33	0°33'52	min. Earth dist.	6742 Mar 14 18:19	23° m 57'45	17.83476 AU
max. Earth dist.	6735 Aug 13 14:53	25° Ω 15'07	20.27514 AU	direct	6742 May 28 01:36	21° m 55'51	
morning rise	6735 Aug 30 08:10	26° Ω 13'58		evening set	6742 Aug 28 23:59	25° m 13'07	
retrograde	6735 Dec 02 20:38	29° Ω 29'17					
opposition	6736 Feb 16 17:11	27° Ω 27'33	0°39'08	conjunction	6742 Sep 14 15:59	26° Mp 13'14	0°48'06
min. Earth dist.	6736 Feb 16 19:50	27° Ω 27'16	18.24071 AU	minimum elong	6742 Sep 14 15:59	26° Mp 13'14	0°48'06
direct	6736 May 01 07:31	25° Ω 27'01		max. Earth dist.	6742 Sep 14 05:07	26° Mp 11'35	19.80388 AU
evening set	6736 Jul 31 22:55	28° Ω 37'20		morning rise	6742 Oct 01 08:26	27° m 13'28	
					6742 Nov 28 16:37	0° ⊽	
conjunction	6736 Aug 17 11:44	29° Ω 35'42	0°36'36	retrograde	6743 Jan 03 06:44	0° ჲ 33'18	
minimum elong	6736 Aug 17 11:44	29° Ω 35'42	0°36'33		6743 Feb 08 07:10	30°R, Mp	
max. Earth dist.	6736 Aug 17 08:20	29° Ω 35'12	20.20621 AU	opposition	6743 Mar 19 01:58	28° Mp 30'18	0°54'05
	6736 Aug 24 07:33	0° m y		min. Earth dist.	6743 Mar 19 11:09	28° m 29'19	17.77391 AU
morning rise	6736 Sep 03 02:24	0° Mp 34′24		direct	6743 Jun 01 20:07	26° Mp 27′06	
retrograde	6736 Dec 06 13:34	3° m 50'21		evening set	6743 Sep 02 23:21	29° m 45'33	
opposition	6737 Feb 20 06:12	1° M 48′25	0°42'02		6743 Sep 07 00:12	0° ⊽	
min. Earth dist.	6737 Feb 20 09:46	1°Mp48′02	18.17129 AU				
	6737 Apr 14 01:24	30° R Ω		conjunction	6743 Sep 19 15:34	0° ≏ 45'57	0°49'05
direct	6737 May 05 20:17	29° Ω 47'29		minimum elong	6743 Sep 19 15:34	0° ≙ 45'57	0°49'05
	6737 May 27 13:07	O° m y		max. Earth dist.	6743 Sep 19 02:59	0° ≏ 44'02	19.74451 AU
evening set	6737 Aug 05 16:59	2° Mp 58'54		morning rise	6743 Oct 06 08:11	1° ≏ 46'25	
				retrograde	6744 Jan 08 03:09	5° ≏ 06'51	
conjunction	6737 Aug 22 06:18	3° ™ 57'34	0°39'06	opposition	6744 Mar 22 19:47	3° ≏ 03'49	0°55'02
minimum elong	6737 Aug 22 06:18	3° ™ 57'34	0°39'05	min. Earth dist.	6744 Mar 23 06:47	3° ≏ 02'38	17.71611 AU
max. Earth dist.	6737 Aug 22 00:13	3° M 56'40	20.13658 AU	direct	6744 Jun 05 13:50	1° ≏ 00'19	
morning rise	6737 Sep 07 21:35	4° M 56'32		evening set	6744 Sep 06 23:40	4° £ 20'00	
retrograde	6737 Dec 11 07:09	8° Mp 13'10					
opposition	6738 Feb 24 19:59	6° Mp 10′59	0°44'44	conjunction	6744 Sep 23 16:15	5° ≏ 20'39	0°49'46
min. Earth dist.	6738 Feb 25 01:16	6° Mp 10′25	18.10169 AU	minimum elong	6744 Sep 23 16:15	5° ≏ 20'39	0°49'46
direct	6738 May 10 10:18	4° ™ 09'37		max. Earth dist.	6744 Sep 23 03:13	5° ≏ 18'39	19.68818 AU
evening set	6738 Aug 10 11:36	7° Mp 22'10		morning rise	6744 Oct 10 08:48	6° ≙ 21'20	
				retrograde	6745 Jan 12 02:14	9° ≏ 42'20	
conjunction	6738 Aug 27 01:41	8° m 21'09	0°41'24	opposition	6745 Mar 27 14:03	7° ≏ 39'17	0°55'38
minimum elong	6738 Aug 27 01:41	8° m 21'09	0°41'23	min. Earth dist.	6745 Mar 28 01:05	7° ≏ 38'05	17.66117 AU
max. Earth dist.	6738 Aug 26 19:29	8° m 20'13	20.06704 AU	direct	6745 Jun 10 10:27	5° ≏ 35'32	
morning rise	6738 Sep 12 17:11	9° m ,20′23		evening set	6745 Sep 12 00:59	8° ≏ 56'24	
retrograde	6738 Dec 16 00:51	12° m 37'40					
opposition	6739 Mar 01 10:16	10° m 35'16	0°47'10	conjunction	6745 Sep 28 17:40	9° ≙ 57'17	0°50'08
min. Earth dist.	6739 Mar 01 16:00	10° m 34'39	18.03247 AU	minimum elong	6745 Sep 28 17:40	9° £ 57'17	0°50'09
direct	6739 May 15 01:03	8° m 33'30		max. Earth dist.	6745 Sep 28 03:06	9° ≙ 55'04	19.63455 AU
evening set	6739 Aug 15 07:23	11° m)47'12		morning rise	6745 Oct 15 10:06	10° £ 58′10	
				retrograde	6746 Jan 16 23:50	14° ≏ 19'44	
conjunction	6739 Aug 31 21:52	12° Mp 46'28	0°43'28	opposition	6746 Apr 01 09:22	12° £ 16'41	0°55'54
minimum elong	6739 Aug 31 21:52	12° Mp 46'27	0°43'27	min. Earth dist.	6746 Apr 01 22:21		17.60899 AU
max. Earth dist.	6739 Aug 31 13:18	~	19.99835 AU	direct	6746 Jun 15 05:44	10° £ 12'40	
morning rise	6739 Sep 17 13:52	13° m 45'58		evening set	6746 Sep 17 02:51	13° ≏ 34'40	
retrograde	6739 Dec 20 19:00	17° m 03'54				_	
opposition	6740 Mar 05 01:11	15° Mp 01'18	0°49'20	conjunction	6746 Oct 03 19:39	14° ≙ 35'46	0°50'11
min. Earth dist.	6740 Mar 05 08:37	15° Mp 00'30	17.96458 AU	minimum elong	6746 Oct 03 19:39	14° ≙ 35'46	0°50'12
direct	6740 May 18 16:20	12° m 59'07		max. Earth dist.	6746 Oct 03 04:12		19.58367 AU
evening set	6740 Aug 19 03:58	16° Mp 13'59		morning rise	6746 Oct 20 11:58	15° ≙ 36'50	
				retrograde	6747 Jan 22 00:11	18° ≙ 58'54	
conjunction	6740 Sep 04 19:09	17° m 13'33	0°45'17	opposition	6747 Apr 06 05:14	16° ≙ 55'49	
minimum elong	6740 Sep 04 19:09	17° m 13'33	0°45'17	min. Earth dist.	6747 Apr 06 18:11		17.55940 AU
max. Earth dist.	6740 Sep 04 10:28	=	19.93123 AU	direct	6747 Jun 20 04:10	14° ≙ 51'32	
morning rise	6740 Sep 21 11:17	18° m 13'18		evening set	6747 Sep 22 05:39	18° ≏ 14'37	
retrograde	6740 Dec 24 14:23	21°m/31'52		_			
opposition	6741 Mar 09 16:44	19° m 29'06	0°51'14	conjunction	6747 Oct 08 22:30	19° ≙ 15'56	0°49'54
min. Earth dist.	6741 Mar 10 00:19	-	17.89844 AU	minimum elong	6747 Oct 08 22:30	19° ≙ 15'56	0°49'56
direct	6741 May 23 09:07	17° m 26'33		max. Earth dist.	6747 Oct 08 05:56		19.53529 AU
evening set	6741 Aug 24 01:37	20° m 42'37		morning rise	6747 Oct 25 14:30	20° ≏ 17'10	

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retrograde	6748 Jan 26 23:03	23° ₽ 39'39		opposition	6754 May 08 16:15	20°M03'41	0°44'44
opposition	6748 Apr 10 01:49	21° ≏ 36'32	0°55'18	min. Earth dist.	6754 May 09 08:57		17.31276 AU
min. Earth dist.	6748 Apr 10 16:40	21° ♀ 34'55	17.51245 AU	direct	6754 Jul 23 05:26	17° M 57'43	
direct	6748 Jun 24 01:17	19° ≏ 31'59		evening set	6754 Oct 26 12:26	21°M26'12	
evening set	6748 Sep 26 09:04	22° £ 56'06		max. Earth dist.	6754 Nov 11 07:15		19.30451 AU
max. Earth dist.	6748 Oct 12 07:57	23° £ 54'49	19.48984 AU				
				conjunction	6754 Nov 12 03:14	22°M28'16	0°38'47
conjunction	6748 Oct 13 01:51	23° ♀ 57'35	0°49'18	minimum elong	6754 Nov 12 03:14	22°M28'16	0°38'50
minimum elong	6748 Oct 13 01:51	23° ₽ 57'35	0°49'19	morning rise	6754 Nov 28 15:43	23°M30'00	
morning rise	6748 Oct 29 17:38	24° £ 58'58		retrograde	6755 Feb 28 23:53	26°M53'40	
retrograde	6749 Jan 30 23:56	28° ≏ 21'48		opposition	6755 May 13 16:09	24°M50'25	0°41'46
opposition	6749 Apr 14 22:57	26° £ 18'39	0°54'27	min. Earth dist.	6755 May 14 08:27		17.29854 AU
min. Earth dist.	6749 Apr 15 13:41		17.46852 AU	direct	6755 Jul 28 08:19	22°M44'19	
direct	6749 Jun 29 00:51	24° £ 13'49		evening set	6755 Oct 31 17:24	26°M13'15	
evening set	6749 Oct 01 12:52	27° £ 38'52					
max. Earth dist.	6749 Oct 17 11:23		19.44747 AU	conjunction	6755 Nov 17 07:48	27°M15'18	0°36'00
max. Earth dist.	0717 000 17 11.23	20 - 37 13	15.1171717110	minimum elong	6755 Nov 17 07:48	27°M15'18	0°36'03
conjunction	6749 Oct 18 05:35	28° ≏ 40'32	0°48'21	max. Earth dist.	6755 Nov 16 13:21		19.29355 AU
minimum elong	6749 Oct 18 05:35	28° ⊆ 40'32	0°48'23	morning rise	6755 Dec 03 19:22	28°M16'59	17.27555710
morning rise	6749 Nov 03 20:50	29° £ 42'02	0 40 23	morning risc	6756 Jan 03 04:07	0° x ⁷	
morning risc	6749 Nov 08 20:34	0°M		retrograde	6756 Mar 05 00:33	1° ₹ 140'34	
ratragrada	6750 Feb 04 23:36	3°ML05'10		renograde	6756 May 09 01:15	30°RM	
retrograde opposition	6750 Apr 19 20:46	1° ML 01'59	0°53'14	opposition	6756 May 17 16:16	29°M37'26	0°38'31
min. Earth dist.	•		0 33 14 17.42801 AU	min. Earth dist.	•		17.29081 AU
iiiii. Eartii tiist.	6750 Apr 20 12:58	*****	17.42601 AU	direct	6756 May 18 08:08	27°M31'18	17.29081 AU
J:	6750 May 14 13:22	30°R Ω		direct	6756 Aug 01 11:43	27 IIC31 18 0° √ 7	
direct	6750 Jul 03 23:36	28° £ 56'53			6756 Oct 18 20:16		
. ,	6750 Aug 22 07:35	0°M		evening set	6756 Nov 04 22:32	1° ≯ 00'33	
evening set	6750 Oct 06 17:11	2°M22'48			(75(N 21 12.0)	20 702124	0022157
	(7.50 0	207 2425	00.4510.4	conjunction	6756 Nov 21 12:06	2°×102'34	
conjunction	6750 Oct 23 09:35	3°M24'35	0°47'04	minimum elong	6756 Nov 21 12:06	2°×102'34	0°33'00
minimum elong	6750 Oct 23 09:35	3°M24'35	0°47'07	max. Earth dist.	6756 Nov 20 17:08		19.28924 AU
max. Earth dist.	6750 Oct 22 14:02		19.40902 AU	morning rise	6756 Dec 07 22:58	3° ₹ 04'12	
morning rise	6750 Nov 09 00:32	4°M26'11		retrograde	6757 Mar 10 00:52	6° ₹ 27'41	
retrograde	6751 Feb 10 00:17	7°M49'33		opposition	6757 May 22 16:50	4° ₹ 24'41	0°35'00
opposition	6751 Apr 24 18:52	5° M .46′19	0°51'38	min. Earth dist.	6757 May 23 08:29		17.28981 AU
min. Earth dist.	6751 Apr 25 10:51		17.39169 AU	direct	6757 Aug 06 14:21	2° ≯ 18'32	
direct	6751 Jul 09 00:10	3°M40'57		evening set	6757 Nov 10 03:14	5° ≯ 48'01	
evening set	6751 Oct 11 21:40	7° M 07'39				_	
				conjunction	6757 Nov 26 16:12	6° ∡ 149'59	
conjunction	6751 Oct 28 13:58	8°M09'34		minimum elong	6757 Nov 26 16:12	6° ≯ 49'59	
minimum elong	6751 Oct 28 13:58	8°M09'34	0°45'30	max. Earth dist.	6757 Nov 25 22:49		19.29145 AU
max. Earth dist.	6751 Oct 27 18:54		19.37487 AU	morning rise	6757 Dec 13 02:06	7° ≯ 51'32	
morning rise	6751 Nov 14 04:16	9°M11'14		retrograde	6758 Mar 15 02:17	11° ≯ 14'51	
retrograde	6752 Feb 15 00:17	12°M34'45		opposition	6758 May 27 17:37	9° ₹ 12'01	0°31'14
opposition	6752 Apr 28 17:38	10°M31'30	0°49'41	min. Earth dist.	6758 May 28 08:20		17.29496 AU
min. Earth dist.	6752 Apr 29 10:32		17.35990 AU	direct	6758 Aug 11 17:52	7° ∡ ¹05'55	
direct	6752 Jul 13 00:57	8°M25'54		evening set	6758 Nov 15 08:01	10° ≯ 35'32	
evening set	6752 Oct 16 02:37	11°ML53'17				_	
				conjunction	6758 Dec 01 20:05	11° ₹ 37'25	0°26'13
conjunction	6752 Nov 01 18:22	12°ML55'17	0°43'32	minimum elong	6758 Dec 01 20:05	11° ∡ ³37′25	0°26'17
minimum elong	6752 Nov 01 18:23	12°M55'17	0°43'36	max. Earth dist.	6758 Dec 01 02:35		19.29957 AU
max. Earth dist.	6752 Oct 31 22:02		19.34568 AU	morning rise	6758 Dec 18 05:10	12° ≯ 38'52	
morning rise	6752 Nov 18 08:14	13°M57'00		retrograde	6759 Mar 20 02:41	16° ₰ 01'56	
	6752 Dec 06 05:53	15° M ₊		opposition	6759 Jun 01 18:32	13° ₹ ′59'17	0°27'15
retrograde	6753 Feb 19 00:01	17°ML20'37		min. Earth dist.	6759 Jun 02 09:27		17.30594 AU
opposition	6753 May 03 16:40	15° M ₊17'20	0°47'22	direct	6759 Aug 16 20:11	11° ≯ 753'15	
min. Earth dist.	6753 May 04 09:14		17.33345 AU	evening set	6759 Nov 20 12:28	15° ≯ 22'54	
	6753 May 10 07:16	15°RM					
direct	6753 Jul 18 02:50	13°ML11'31		conjunction	6759 Dec 06 23:48	16° ₹ 24'39	0°22'34
	6753 Sep 21 23:24	15° M ₊		minimum elong	6759 Dec 06 23:48	16° ₹ 24'39	
evening set	6753 Oct 21 07:29	16°M39'31		max. Earth dist.	6759 Dec 06 07:22	16° ≯ 22'04	19.31322 AU
				morning rise	6759 Dec 23 07:55	17° ∡ 25'58	
conjunction	6753 Nov 06 22:57	17° M 41'34	0°41'19	retrograde	6760 Mar 24 04:04	20° ∡ ¹48'45	
minimum elong	6753 Nov 06 22:57	17°M41'34	0°41'21	opposition	6760 Jun 05 19:39	18° ∡ ¹46'18	0°23'05
max. Earth dist.	6753 Nov 06 03:49	17°M38'34	19.32201 AU	min. Earth dist.	6760 Jun 06 09:21	18° ⊀ ¹44'48	17.32199 AU
morning rise	6753 Nov 23 11:59	18°ML43'17		direct	6760 Aug 21 00:25	16° х 40′21	
retrograde	6754 Feb 24 00:14	22°ML06'57		evening set	6760 Nov 24 16:36	20° х 09′53	

max. Earth dist.	6760 Dec 10 10:55	21° ₹ 08'59	19.33167 AU	max. Earth dist.	6766 Jan 03 21:28		19.48940 AU
amiumatian	6760 Dag 11 02:50	21° ₹ 11'30	0°18'46	morning rise retrograde	6766 Jan 20 11:32 6766 Apr 21 20:57	15°පි52'04 19°පි11'58	
conjunction	6760 Dec 11 02:58 6760 Dec 11 02:58	21°×11'30 21°×11'30	0°18'50	opposition		19 3 11 38	0002150
minimum elong			0 18 30	11	6766 Jul 05 00:57 6766 Jul 05 09:50		-0 03 38 17.51083 AU
morning rise	6760 Dec 27 10:04	22° ₹ 12'39 25° ₹ 35'05		min. Earth dist.		17° る 09°26	17.51083 AU
retrograde	6761 Mar 29 03:24		0°18'46	direct	6766 Sep 19 20:33		
opposition	6761 Jun 10 20:58	23° 🗷 32'48		evening set	6766 Dec 24 03:31	18° る 31'49	
min. Earth dist.	6761 Jun 11 10:59	23° x '31'17 21° x '26'58	17.34285 AU		(7(7 1 00 00:05	19° る 32'03	0905142
direct	6761 Aug 26 02:44			conjunction	6767 Jan 09 08:05		
evening set	6761 Nov 29 20:12	24° ₹ 56'16		minimum elong	6767 Jan 09 08:05	19° る 32'03	0°05'39
	(7(1 D 1(05 20	250 755142	001.4150	behind sun begin	6767 Jan 09 01:41	19°る31'05	
conjunction	6761 Dec 16 05:38	25° 🖈 57'42	0°14'50	behind sun end	6767 Jan 09 14:28	19°る33'02	10.52242.441
minimum elong	6761 Dec 16 05:38	25° 🖈 57'42	0°14'53	max. Earth dist.	6767 Jan 08 22:42		19.53343 AU
behind sun begin	6761 Dec 16 03:08	25° 🖈 57'19		morning rise	6767 Jan 25 09:18	20°る31'50	
behind sun end	6761 Dec 16 08:08	25° ₹ 58'05	10.25406 444	retrograde	6767 Apr 26 16:08	23°る51'06	0000120
max. Earth dist.	6761 Dec 15 14:19		19.35486 AU	opposition	6767 Jul 10 00:47	21°る49'39	
morning rise	6762 Jan 01 11:49	26° ₹ 58'40		min. Earth dist.	6767 Jul 10 09:20		17.55702 AU
_	6762 Mar 06 21:45	0° ろ		direct	6767 Sep 24 21:50	19° る 44'43	
retrograde	6762 Apr 03 04:12	0° る 20'42		evening set	6767 Dec 29 02:31	23° る 10'28	
	6762 Apr 30 19:30	30°₹ ⋌ 7				–	
opposition	6762 Jun 15 22:04	28° ≯ 18'34		conjunction	6768 Jan 14 05:54	24° ろ 10'25	
min. Earth dist.	6762 Jun 16 10:30		17.36814 AU	minimum elong	6768 Jan 14 05:54	24° る 10'25	0°09'39
direct	6762 Aug 31 07:27	26° ≯ 12'51		behind sun begin	6768 Jan 14 00:24	24° る 09'35	
evening set	6762 Dec 04 23:09	29° ∡ ⁴41'49 —		behind sun end	6768 Jan 14 11:23	24° ප 11'15	
	6762 Dec 09 20:54	0°る		max. Earth dist.	6768 Jan 13 21:00		19.58192 AU
				morning rise	6768 Jan 30 06:20	25° る 09'55	
conjunction	6762 Dec 21 07:41	0° る 43'03	0°10'49	retrograde	6768 Apr 30 13:11	28° る 28'32	
minimum elong	6762 Dec 21 07:41	0° る 43'03	0°10'53	opposition	6768 Jul 14 00:14	26° る 27'14	-0°12'55
behind sun begin	6762 Dec 21 02:37	0° る 42'17		min. Earth dist.	6768 Jul 14 06:32	26° る 26'34	17.60777 AU
behind sun end	6762 Dec 21 12:45	0° る 43'50		direct	6768 Sep 29 00:02	24° る 22'33	
max. Earth dist.	6762 Dec 20 17:23	0° る 40'49	19.38228 AU	evening set	6769 Jan 02 00:17	27° る 47'25	
morning rise	6763 Jan 06 12:49	1° る 43'49					
retrograde	6763 Apr 08 02:15	5° る 05'23		conjunction	6769 Jan 18 02:48	28° る 47'04	
opposition	6763 Jun 20 23:14	3° る 03'25	0°09'48	minimum elong	6769 Jan 18 02:47	28° る 47'04	0°13'35
min. Earth dist.	6763 Jun 21 11:59		17.39765 AU	behind sun begin	6769 Jan 17 23:06	28° る 46'31	
direct	6763 Sep 05 09:43	0° る 57'49		behind sun end	6769 Jan 18 06:28	28° る 47'38	
evening set	6763 Dec 10 01:34	4° る 26'20		max. Earth dist.	6769 Jan 17 20:42	28° る 46'08	19.63486 AU
				morning rise	6769 Feb 03 02:08	29° る 46'17	
conjunction	6763 Dec 26 09:02	5° る 27'22	0°06'45		6769 Feb 06 21:08	0° ≈	
minimum elong	6763 Dec 26 09:02	5° る 27'22	0°06'48	retrograde	6769 May 05 07:45	3°≈04'15	
behind sun begin	6763 Dec 26 02:49	5° る 26'24		opposition	6769 Jul 18 23:22	1° ≈ 03'09	-0°17'15
behind sun end	6763 Dec 26 15:15	5° る 28'19		min. Earth dist.	6769 Jul 19 04:46	1° ≈ 02'34	17.66287 AU
max. Earth dist.	6763 Dec 25 19:08		19.41391 AU		6769 Aug 14 00:58	30°Ŗ₹	
morning rise	6764 Jan 11 13:17	6° る 27'54		direct	6769 Oct 04 00:09	28° る 58'46	
retrograde	6764 Apr 12 01:52	9° る 48'57			6769 Nov 22 03:44	0° ≈	
opposition	6764 Jun 24 23:59	7° る 47'07		evening set	6770 Jan 06 21:21	2° ≈ 22'42	
min. Earth dist.	6764 Jun 25 10:55	7° る 45'56	17.43122 AU				
direct	6764 Sep 09 14:24	5° る 41'40		conjunction	6770 Jan 22 22:42	3° ≈ 22'02	-0°17'27
evening set	6764 Dec 14 03:09	9° る 09'38		minimum elong	6770 Jan 22 22:42	3° ≈ 22'02	0°17'24
				max. Earth dist.	6770 Jan 22 17:11	3° ≈ 21'12	19.69217 AU
conjunction	6764 Dec 30 09:42	10°る10'25	0°02'38	morning rise	6770 Feb 07 21:21	4° ≈ 20'58	
minimum elong	6764 Dec 30 09:42	10°る10'25	0°02'42	retrograde	6770 May 10 03:30	7° ≈ 38'18	
behind sun begin	6764 Dec 30 03:02	10°る09'24		opposition	6770 Jul 23 21:47	5° ≈ 37'24	-0°21'25
behind sun end	6764 Dec 30 16:21	10°る11'26		min. Earth dist.	6770 Jul 24 01:06	5° ≈ 37'03	17.72218 AU
max. Earth dist.	6764 Dec 29 21:31		19.44954 AU	direct	6770 Oct 08 23:18	3° ≈ 33'21	
morning rise	6765 Jan 15 12:49	11° る 10'42		evening set	6771 Jan 11 17:17	6°≈56'20	
retrograde	6765 Apr 16 22:40	14° る 31'12					
opposition	6765 Jun 30 00:45	12° る 29'30	0°00'37	conjunction	6771 Jan 27 17:52	7°≈55'22	-0°21'08
min. Earth dist.	6765 Jun 30 11:42	12° る 28'19	17.46892 AU	minimum elong	6771 Jan 27 17:52	7°≈55'22	0°21'05
desc. node	6765 Aug 18 10:12	10° ප් 43'13		max. Earth dist.	6771 Jan 27 15:03	7° ≈ 54'56	19.75325 AU
direct	6765 Sep 14 16:22	10° පි 24'12		morning rise	6771 Feb 12 15:33	8° ≈ 53'59	
evening set	6765 Dec 19 03:46	13° る 51'30		retrograde	6771 May 14 22:01	12° ≈ 10′39	
				opposition	6771 Jul 28 19:52	10° ≈ 10′00	-0°25'26
conjunction	6766 Jan 04 09:13	14° ප 52'01	-0°01'36	min. Earth dist.	6771 Jul 28 22:09	10° ≈ 09'46	17.78474 AU
minimum elong	6766 Jan 04 09:12	14° る 52'01	0°01'32	direct	6771 Oct 13 22:19	8° ≈ 06′20	
behind sun begin	6766 Jan 04 02:33	14° ප 51'00		evening set	6772 Jan 16 12:29	11° ≈ 28′18	
behind sun end	6766 Jan 04 15:52	14° る 53'02					

conjunction	6772 Feb 01 11:57	12° ≈ 27'01	-0°24'40	minimum elong	6778 Feb 27 06:59	8° ¥ 59'30	0°41'40
minimum elong	6772 Feb 01 11:57	12°≈27'01	0°24'38	max. Earth dist.	6778 Feb 27 12:24		20.22189 AU
max. Earth dist.	6772 Feb 01 09:38		19.81724 AU	morning rise	6778 Mar 15 00:24	9° \ 56'06	20.22107710
morning rise	6772 Feb 17 08:59	13°≈25'21	19.01724710	retrograde	6778 Jun 14 16:02	13° ¥ 08'08	
morning 1130	6772 Mar 16 16:14	15° ≈		opposition	6778 Aug 29 14:55	11° H 08'44	-0°47'25
retrograde	6772 May 18 16:34	15 ~ 16° ≈ 41'22		min. Earth dist.	6778 Aug 29 09:00		18.25483 AU
retrograde	6772 Jul 25 02:31	10 ≈41 22 15°R≈		direct	6778 Nov 14 19:41	9° H 07'39	16.23463 AU
opposition	6772 Aug 01 17:26	13 k∞ 14°≈40'57	0°20'16	evening set	6779 Feb 16 00:52	12° X 21'39	
min. Earth dist.	-		17.84999 AU	evening set	07/9160 10 00.32	12 / 21 39	
	6772 Aug 01 18:04		17.84999 AU		(770 M 02 10 11	1201/10100	0042144
direct	6772 Oct 17 19:19	12° ≈ 37'40		conjunction	6779 Mar 03 19:11	13°) 18′09	
	6773 Jan 03 08:43	15° ≈		minimum elong	6779 Mar 03 19:10	13° ¥ 18′09	
evening set	6773 Jan 20 06:39	15° ≈ 58'36		max. Earth dist.	6779 Mar 04 02:11		20.28750 AU
				morning rise	6779 Mar 19 12:10	14°) 14′29	
conjunction	6773 Feb 05 05:22	16° ≈ 56'59		retrograde	6779 Jun 19 05:13	17° ∺ 25'51	
minimum elong	6773 Feb 05 05:22	16° ≈ 56'59		opposition	6779 Sep 03 08:07	15° ∺ 26'32	
max. Earth dist.	6773 Feb 05 05:34	16° ≈ 57'01	19.88348 AU	min. Earth dist.	6779 Sep 03 00:24		18.31979 AU
morning rise	6773 Feb 21 01:30	17° ≈ 55'01		direct	6779 Nov 19 14:17	13° ¥ 25'46	
retrograde	6773 May 23 10:33	21° ≈ 10′22		evening set	6780 Feb 20 12:36	16° ∺ 38'33	
opposition	6773 Aug 06 14:32	19° ≈ 10'11	-0°32'54				
min. Earth dist.	6773 Aug 06 13:57	19° ≈ 10'15	17.91698 AU	conjunction	6780 Mar 07 06:16	17°) (34′47	-0°45'30
direct	6773 Oct 22 17:47	17° ≈ 07'19		minimum elong	6780 Mar 07 06:16	17°)(34'47	0°45'29
evening set	6774 Jan 24 23:58	20° ≈ 27'08		max. Earth dist.	6780 Mar 07 14:07	17°) 35′57	20.35191 AU
Č				morning rise	6780 Mar 22 23:00	18° ¥ 30′52	
conjunction	6774 Feb 09 21:40	21° ≈ 25'12	-0°31'12	retrograde	6780 Jun 22 17:19	21°) (41'36	
minimum elong	6774 Feb 09 21:40	21° ≈ 25'12		opposition	6780 Sep 07 00:46	19°) 42′21	-0°51'18
max. Earth dist.	6774 Feb 09 22:19		19.95107 AU	min. Earth dist.	6780 Sep 06 16:35		18.38390 AU
morning rise	6774 Feb 25 17:17	21°≈22'57	17.75107 AO	direct	6780 Nov 23 05:37	17° X 4311	10.30370 AC
•	6774 May 28 03:35	25°≈37'39		evening set	6781 Feb 23 23:23	20°\(\frac{1}{53}\)'29	
retrograde opposition	•	23°≈37'39 23°≈37'40	0026110	evening set	0/81 Feb 23 23.23	20 1 33 29	
	6774 Aug 11 11:05				(701 M 11 16 40	210 1/40/26	0047100
min. Earth dist.	6774 Aug 11 09:19		17.98509 AU	conjunction	6781 Mar 11 16:40	21°) 49'26	
direct	6774 Oct 27 13:41	21°≈35'11		minimum elong	6781 Mar 11 16:40	21°) 49'26	
evening set	6775 Jan 29 16:22	24° ≈ 53'53		max. Earth dist.	6781 Mar 12 02:13		20.41563 AU
				morning rise	6781 Mar 27 09:07	22°) 45′17	
conjunction	6775 Feb 14 13:23	25° ≈ 51'37		retrograde	6781 Jun 27 05:34	25° ¥ 55'25	
minimum elong	6775 Feb 14 13:23	25° ≈ 51'37		opposition	6781 Sep 11 16:29	23° ¥ 56′14	
max. Earth dist.	6775 Feb 14 16:08	25° ≈ 52'02	20.01936 AU	min. Earth dist.	6781 Sep 11 06:09		18.44727 AU
morning rise	6775 Mar 02 08:13	26° ≈ 49'04		direct	6781 Nov 27 22:00	21° ¥ 56′04	
	6775 May 22 00:26	0° ∀		evening set	6782 Feb 28 09:23	25° ∺ 06'34	
retrograde	6775 Jun 01 20:05	0° ₩ 03'05					
	6775 Jun 12 15:56	30° R ≈		conjunction	6782 Mar 16 02:12	26° ₩ 02'15	-0°48'13
opposition	6775 Aug 16 06:54	28° ≈ 03'18	-0°39'28	minimum elong	6782 Mar 16 02:12	26°) €02'15	0°48'14
min. Earth dist.	6775 Aug 16 03:50	28° ≈ 03'37	18.05336 AU	max. Earth dist.	6782 Mar 16 12:48	26°) €03'50	20.47860 AU
direct	6775 Nov 01 11:24	26°≈01'13		morning rise	6782 Mar 31 18:32	26° ∺ 57'52	
evening set	6776 Feb 03 08:02	29° ≈ 18'45		•	6782 Jun 14 16:30	0 ° Υ	
C	6776 Feb 14 17:52	0° ∀		retrograde	6782 Jul 01 16:18	0° Ƴ 07'27	
				J	6782 Jul 18 21:58	30° ₹ ₩	
conjunction	6776 Feb 19 04:08	0° ₩ 16'11	-0°36'55	opposition	6782 Sep 16 07:41	28°) 08'22	-0°54'00
minimum elong	6776 Feb 19 04:08	0° ₩ 16'11		min. Earth dist.	6782 Sep 15 20:59		18.50998 AU
max. Earth dist.	6776 Feb 19 07:15		20.08754 AU	direct	6782 Dec 02 11:14	26°) (08'32	10.50770710
morning rise	6776 Mar 05 22:29	1° ¥ 13′20	20.00751710	evening set	6783 Mar 04 18:35	29° H 17'57	
retrograde	6776 Jun 05 11:32	4° ¥ 26'42		evening set	6783 Mar 16 16:56	0° Υ	
Č		2° ∺ 27'04	0042122		0765 Wai 10 10.50	0 1	
opposition	6776 Aug 20 02:21				(702 M 20 11.00	000013134	0940!11
min. Earth dist.	6776 Aug 19 22:28		18.12146 AU	conjunction	6783 Mar 20 11:08	0°Υ13'24	
direct	6776 Nov 05 06:09	0° ¥ 25′20		minimum elong	6783 Mar 20 11:08	0°Υ13'24	
evening set	6777 Feb 06 22:28	3°) 41′43		max. Earth dist.	6783 Mar 20 23:10		20.54086 AU
	(888 F	40340	0000:5	morning rise	6783 Apr 05 03:17	1°Υ08'48	
conjunction	6777 Feb 22 17:59	4° ∺ 38'49		retrograde	6783 Jul 06 03:56	4° Υ 17'51	
minimum elong	6777 Feb 22 17:59	4°) 38'49		opposition	6783 Sep 20 22:01	2° Y 18'53	
max. Earth dist.	6777 Feb 22 22:56		20.15525 AU	min. Earth dist.	6783 Sep 20 09:11		18.57167 AU
morning rise	6777 Mar 10 11:45	5° ∺ 35'42		direct	6783 Dec 07 01:50	0° Υ 19'26	
retrograde	6777 Jun 10 02:17	8°) 48′24		evening set	6784 Mar 08 03:10	3° Y 27'49	
opposition	6777 Aug 24 21:02	6°) 48′54	-0°45'02				
min. Earth dist.	6777 Aug 24 15:34	6°) 49′28	18.18864 AU	conjunction	6784 Mar 23 19:23	4° Υ 23'02	-0°49'53
direct	6777 Nov 10 02:43	4°) 47'31		minimum elong	6784 Mar 23 19:23	4° Υ 23'02	0°49'54
evening set	6778 Feb 11 12:13	8°) €02'41		max. Earth dist.	6784 Mar 24 08:30	4° Y 24'58	20.60190 AU
-				morning rise	6784 Apr 08 11:33	5° Ƴ 18'15	
conjunction	6778 Feb 27 06:59	8° ¥ 59'30	-0°41'43	retrograde	6784 Jul 09 13:36	8° Y 26'50	
•				S		•	

opposition	6784 Sep 24 12:02	6° Y 28'01	-0°55'30	conjunction	6791 Apr 21 16:37	2° 8 57'52	-0°47'37
min. Earth dist.	6784 Sep 23 23:05		18.63207 AU	minimum elong	6791 Apr 21 16:37	2° 8 57'52	
direct	6784 Dec 10 13:06	4° Y 28'55		max. Earth dist.	6791 Apr 22 09:43	3° 8 00'21	20.94936 AU
evening set	6785 Mar 12 10:57	7° Ƴ 36'18		morning rise	6791 May 07 10:17	3° 8 52'12	
-				retrograde	6791 Aug 08 08:09	6° 8 58'26	
conjunction	6785 Mar 28 03:02	8° Ƴ 31'19	-0°50'19	opposition	6791 Oct 24 22:22	5° 8 00'12	-0°51'57
minimum elong	6785 Mar 28 03:02	8° Ƴ 31'19	0°50'20	min. Earth dist.	6791 Oct 24 05:05	5° 8 01'56	18.96622 AU
max. Earth dist.	6785 Mar 28 17:19	8° Y 33'25	20.66144 AU	direct	6792 Jan 09 11:23	3° 8 03'06	
morning rise	6785 Apr 12 19:13	9° Ƴ 26'21		evening set	6792 Apr 09 05:16	6° 8 04'48	
retrograde	6785 Jul 14 00:53	12° Y 34'30					
min. Earth dist.	6785 Sep 28 10:22	10° Ƴ 37'19	18.69049 AU	conjunction	6792 Apr 24 21:46	6° 8 58'50	-0°46'19
opposition	6785 Sep 29 01:15	10° Ƴ 35'49	-0°55'50	minimum elong	6792 Apr 24 21:46	6° 8 58'50	0°46'22
direct	6785 Dec 15 01:56	8° Y 37'06		max. Earth dist.	6792 Apr 25 15:12	7° 8 01'21	20.98124 AU
evening set	6786 Mar 16 18:20	11° Y 43'33		morning rise	6792 May 10 15:53	7° 8 53'06	
				retrograde	6792 Aug 11 14:48	10° 8 59'05	
conjunction	6786 Apr 01 10:15	12° Ƴ 38′22	-0°50'30	opposition	6792 Oct 28 08:20	9° 8 00'48	-0°50'23
minimum elong	6786 Apr 01 10:15	12° Ƴ 38′22	0°50'31	min. Earth dist.	6792 Oct 27 15:55	9° 8 02'26	18.99574 AU
max. Earth dist.	6786 Apr 02 01:23	12° Ƴ 40'35	20.71857 AU	direct	6793 Jan 12 19:01	7° 8 03'50	
morning rise	6786 Apr 17 02:33	13° Y 33'15		evening set	6793 Apr 13 09:41	10° 8 04'52	
retrograde	6786 Jul 18 09:28	16° Ƴ 41′00					
opposition	6786 Oct 03 13:56	14° Ƴ 42'28	-0°55'52	conjunction	6793 Apr 29 02:34	10° 8 58'50	-0°44'48
min. Earth dist.	6786 Oct 02 23:23	14° Ƴ 43'55	18.74635 AU	minimum elong	6793 Apr 29 02:34	10° 8 58'50	0°44'52
direct	6786 Dec 19 11:49	12° Y 44'05		max. Earth dist.	6793 Apr 29 20:02	11° 8 01'21	21.00854 AU
evening set	6787 Mar 21 01:11	15° Ƴ 49'39		morning rise	6793 May 14 21:13	11° 8 53'04	
				retrograde	6793 Aug 16 00:23	14° 8 58'50	
conjunction	6787 Apr 05 17:04	16° Ƴ 44'17	-0°50'25	opposition	6793 Nov 01 17:36	13° 8 00'28	-0°48'34
minimum elong	6787 Apr 05 17:04	16° Ƴ 44'17	0°50'26	min. Earth dist.	6793 Nov 01 00:01	13° 8 02'13	19.02078 AU
max. Earth dist.	6787 Apr 06 08:54	16° Ƴ 46'37	20.77294 AU	direct	6794 Jan 17 03:27	11° 8 03'35	
morning rise	6787 Apr 21 09:30	17° Ƴ 39'02		evening set	6794 Apr 17 13:58	14° 8 04'03	
retrograde	6787 Jul 22 20:17	20° Ƴ 46′25					
min. Earth dist.	6787 Oct 07 09:55	18° Ƴ 49'38	18.79900 AU	conjunction	6794 May 03 07:11	14° 8 57'58	-0°43'04
opposition	6787 Oct 08 02:08	18° Ƴ 48'00	-0°55'37	minimum elong	6794 May 03 07:11	14° 8 57'58	0°43'06
direct	6787 Dec 23 22:56	16° Ƴ 49'58			6794 May 03 21:21	15° 8	
evening set	6788 Mar 24 07:30	19° Ƴ 54'40		max. Earth dist.	6794 May 04 01:05	15° 8 00'32	21.03138 AU
				morning rise	6794 May 19 02:21	15° 8 52'10	
conjunction	6788 Apr 08 23:20	20° Ƴ 49'10	-0°50'05	retrograde	6794 Aug 20 06:13	18° 8 57'46	
minimum elong	6788 Apr 08 23:20	20° Ƴ 49'10	0°50'07	min. Earth dist.	6794 Nov 05 09:45	17° 8 01'00	19.04168 AU
max. Earth dist.	6788 Apr 09 15:52	20° Ƴ 51'34	20.82367 AU	opposition	6794 Nov 06 02:30	16° 8 59'20	-0°46'32
morning rise	6788 Apr 24 15:59	21° Y 43'47		direct	6795 Jan 21 09:38	15° 8 02'32	
retrograde	6788 Jul 26 04:29	24° Ƴ 50'51		evening set	6795 Apr 21 18:01	18° 8 02'30	
opposition	6788 Oct 11 14:03	22° Ƴ 52'32	-0°55'06				
min. Earth dist.	6788 Oct 10 22:25	22° Y 54'06	18.84786 AU	conjunction	6795 May 07 11:38	18° 8 56'22	-0°41'08
direct	6788 Dec 27 08:03	20° Ƴ 54'48		minimum elong	6795 May 07 11:38	18° 8 56'22	0°41'11
evening set	6789 Mar 28 13:30	23° Y 58'41		max. Earth dist.	6795 May 08 05:35	18° 8 58'57	21.05045 AU
				morning rise	6795 May 23 07:23	19° 8 50'33	
conjunction	6789 Apr 13 05:26	24° Y 53'02	-0°49'30	retrograde	6795 Aug 24 15:15	22° 8 56'03	
minimum elong	6789 Apr 13 05:26	24° Y 53'02	0°49'32	opposition	6795 Nov 10 11:01	20° 8 57'33	-0°44'17
max. Earth dist.	6789 Apr 13 22:15	24° Ƴ 55'29	20.87041 AU	min. Earth dist.	6795 Nov 09 17:05	20° 8 59'20	19.05887 AU
morning rise	6789 Apr 28 22:22	25° Ƴ 47'33		direct	6796 Jan 25 17:33	19° 8 00'49	
retrograde	6789 Jul 30 14:41	28° Ƴ 54'18		evening set	6796 Apr 24 21:49	22° 8 00'21	
min. Earth dist.	6789 Oct 15 08:13	26° Ƴ 57'45	18.89231 AU				
opposition	6789 Oct 16 01:11	26° Ƴ 56′04	-0°54'19	conjunction	6796 May 10 15:54	22° 8 54'13	-0°39'00
direct	6789 Dec 31 17:49	24° Ƴ 58'35		minimum elong	6796 May 10 15:54	22° 8 54'13	0°39'03
evening set	6790 Apr 01 19:10	28° Ƴ 01'43		max. Earth dist.	6796 May 11 10:20	22° 8 56'52	21.06573 AU
				morning rise	6796 May 26 12:17	23° 8 48'25	
conjunction	6790 Apr 17 11:13	28° Ƴ 55'56		retrograde	6796 Aug 27 21:32	26° 8 53'53	
minimum elong	6790 Apr 17 11:13	28° Ƴ 55'56		opposition	6796 Nov 13 19:23	24° 8 55'18	-0°41'49
max. Earth dist.	6790 Apr 18 04:20	28° Ƴ 58'25	20.91236 AU	min. Earth dist.	6796 Nov 13 02:18	24° 8 57'00	19.07233 AU
morning rise	6790 May 03 04:30	29° Ƴ 50′21		direct	6797 Jan 28 22:31	22° 8 58'40	
	6790 May 06 00:51	9° 8		evening set	6797 Apr 29 01:41	25° 8 57'51	
retrograde	6790 Aug 03 22:21	2° 8 56'50					
opposition	6790 Oct 20 12:05	0° 8 58'37	-0°53'15	conjunction	6797 May 14 20:19	26° 8 51'43	-0°36'41
min. Earth dist.	6790 Oct 19 20:00	1° 8 00'14	18.93182 AU	minimum elong	6797 May 14 20:19	26° 8 51'43	0°36'44
	6790 Nov 15 03:21	30° ₹Ƴ		max. Earth dist.	6797 May 15 14:36	26° 8 54'20	21.07741 AU
direct	6791 Jan 05 02:17	29° Ƴ 01'22		morning rise	6797 May 30 17:24	27° 8 45'57	
	6791 Feb 22 23:24	9° 8			6797 Jul 16 16:43	$\Pi^{\circ}0$	
evening set	6791 Apr 06 00:22	2° 8 03'45		retrograde	6797 Sep 01 06:03	0°Ⅲ51′24	

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	6797 Oct 19 06:29	30° ₹ 8		conjunction	6804 Jun 11 08:54	24° Ⅲ 38′07	-0°16'19
min. Earth dist.	6797 Nov 17 09:11	28° 8 54'35	19.08206 AU	minimum elong	6804 Jun 11 08:54	24° Ⅱ 38′07	0°16'22
opposition	6797 Nov 18 03:10	28° 8 52'47	-0°39'09	max. Earth dist.	6804 Jun 12 00:00	24° Ⅱ 40′16	21.03421 AU
direct	6798 Feb 02 05:42	26° 8 56'13		morning rise	6804 Jun 27 11:26	25° Ⅲ 33′02	
evening set	6798 May 03 05:36	29° 8 55'09		retrograde	6804 Sep 29 15:27	28° Ⅲ 39'51	
	6798 May 04 16:13	Π $^{\circ}0$		opposition	6804 Dec 16 08:33	26° Ⅱ 40'46	-0°16'07
				min. Earth dist.	6804 Dec 15 19:20	26° Ⅱ 42'06	19.02128 AU
conjunction	6798 May 19 00:47	0°Ⅱ49′03	-0°34'12	direct	6805 Mar 01 19:34	24° Ⅱ 44'12	
minimum elong	6798 May 19 00:47	0° Ⅱ 49'03	0°34'16	evening set	6805 May 30 15:22	27° Ⅱ 43'19	
max. Earth dist.	6798 May 19 19:18	0° Ⅱ 51'42	21.08511 AU				
morning rise	6798 Jun 03 22:34	1° Ⅱ 43′20		conjunction	6805 Jun 15 15:34	28° Ⅲ 37'55	-0°12'57
retrograde	6798 Sep 05 12:57	4° Ⅱ 48'50		minimum elong	6805 Jun 15 15:34	28° Ⅲ 37'55	0°13'01
opposition	6798 Nov 22 11:02	2° Ⅲ 50′11	-0°36'19	behind sun begin	6805 Jun 15 11:34	28° ∏ 37′22	
min. Earth dist.	6798 Nov 21 18:07	2° Ⅱ 51'53	19.08775 AU	behind sun end	6805 Jun 15 19:35	28° ∏ 38′29	
direct	6799 Feb 06 10:16	0° Ⅱ 53'43		max. Earth dist.	6805 Jun 16 05:19	28° Ⅲ 39'53	21.00691 AU
evening set	6799 May 07 09:28	3° Ⅱ 52'27		morning rise	6805 Jul 01 19:01	29° Ⅱ 32'59	
					6805 Jul 09 23:37	0 \circ \odot	
conjunction	6799 May 23 05:16	4° ∏ 46′24	-0°31'34	retrograde	6805 Oct 04 01:49	2°5540'08	
minimum elong	6799 May 23 05:16	4° ∏ 46′24	0°31'37	opposition	6805 Dec 20 15:56	0°9540'52	-0°12'21
max. Earth dist.	6799 May 23 23:25	4° Ⅱ 48'59	21.08885 AU	min. Earth dist.	6805 Dec 20 03:00	0°9542'10	18.99136 AU
morning rise	6799 Jun 08 03:48	5° Ⅱ 40'44			6806 Jan 06 21:18	30°R Ⅱ	
retrograde	6799 Sep 09 21:42	8° Ⅱ 46′22		direct	6806 Mar 06 02:08	28° Ⅱ 44'06	
opposition	6799 Nov 26 18:43	6° Ⅱ 47'41			6806 Apr 30 15:52	0 \circ	
min. Earth dist.	6799 Nov 26 01:06		19.08930 AU	evening set	6806 Jun 03 21:34	1° 5 43'31	
direct	6800 Feb 10 16:32	4° ∏ 51'16					
evening set	6800 May 10 13:41	7° Ⅱ 49'54		conjunction	6806 Jun 19 22:36	2° 5 38'17	-0°09'31
				minimum elong	6806 Jun 19 22:36	2° © 38'17	0°09'34
conjunction	6800 May 26 10:07	8° Ⅱ 43'55	-0°28'46	behind sun begin	6806 Jun 19 17:07	2° © 37'31	
minimum elong	6800 May 26 10:07	8° Ⅱ 43'55	0°28'50	behind sun end	6806 Jun 20 04:06	2° 5 39'03	
max. Earth dist.	6800 May 27 04:17	8° Ⅱ 46'31	21.08814 AU	max. Earth dist.	6806 Jun 20 11:52	2°5540'10	20.97455 AU
morning rise	6800 Jun 11 09:23	9° Ⅱ 38′21		morning rise	6806 Jul 06 02:52	3° 5 33'31	
retrograde	6800 Sep 13 05:01	12° Ⅱ 44′08		retrograde	6806 Oct 08 09:08	6°≌41'00	
min. Earth dist.	6800 Nov 29 10:02	10° Ⅱ 47′03	19.08630 AU	opposition	6806 Dec 24 23:36	4° © 41'33	-0°08'30
opposition	6800 Nov 30 02:20	10° Ⅱ 45′25	-0°30'08	min. Earth dist.	6806 Dec 24 12:11	4° © 42'42	18.95675 AU
direct	6801 Feb 13 21:17	8° Ⅱ 49'04		direct	6807 Mar 10 07:26	2° 5 44'35	
evening set	6801 May 14 18:06	11° Ⅱ 47'40		evening set	6807 Jun 08 04:01	5° © 44'19	
	(001 M 20 15 15	120 T 4114 C	0025150	. ,.	(007.1 24.05.54	(062011)	0007101
conjunction	6801 May 30 15:15	12° ∏ 41'46		conjunction	6807 Jun 24 05:54	6°939'16	
•	6801 May 30 15:15 6801 May 31 08:36	12° Π 41'46	0 23 33 21.08283 AU	minimum elong	6807 Jun 24 05:53	6°939'15	0 0000
max. Earth dist.	6801 May 31 08:36 6801 Jun 15 15:22	12°Щ44°13 13°Щ36'17	21.08283 AU	behind sun begin behind sun end	6807 Jun 23 23:35	6°538'23	
morning rise	6801 Sep 17 14:25	13 Д 3617 16° Д 42'18			6807 Jun 24 12:12	6°540'08	20.93803 AU
retrograde	1	16°Щ42′18 14°Щ43′32	0026140	max. Earth dist.	6807 Jun 24 17:59		20.93803 AU
opposition min. Earth dist.	6801 Dec 04 09:48		19.07839 AU	morning rise retrograde	6807 Jul 10 11:05	7°534'41 10°542'34	
direct	6801 Dec 03 17:17 6802 Feb 18 02:54	14 Ⅲ 43 11 12° Ⅱ 47'11	19.07839 AU	opposition	6807 Oct 12 20:00 6807 Dec 29 07:18	8°942'53	0904126
evening set	6802 May 18 22:56	12 Ⅱ 4711 15° Ⅱ 45'51		min. Earth dist.	6807 Dec 28 20:04		18.91832 AU
evening set	0802 May 18 22.30	13 114331		direct	6808 Mar 13 14:28	6°945'42	16.91632 AU
conjunction	6802 Jun 03 20:46	16° Ⅱ 40'03	-0°22'46	evening set	6808 Jun 11 11:07	9°9945'50	
minimum elong	6802 Jun 03 20:46	16° Д 40'03		Stelling Set	5000 Juli 11 11.0/) -1 550	
max. Earth dist.	6802 Jun 04 13:41		21.07216 AU	conjunction	6808 Jun 27 13:52	10° © 40'59	0.05,50
morning rise	6802 Jun 19 21:36	10 II 42 27 17° II 34'41	21.07210710	minimum elong	6808 Jun 27 13:52	10°540'59	
retrograde	6802 Sep 21 21:51	20° П 40'56		behind sun begin	6808 Jun 27 07:14	10°940'04	0 02 32
opposition	6802 Dec 08 17:20	18° ∏ 42'07	-0°23'22	behind sun end	6808 Jun 27 20:31	10°941'55	
min. Earth dist.	6802 Dec 08 02:24		19.06499 AU	max. Earth dist.	6808 Jun 28 01:37		20.89777 AU
direct	6803 Feb 22 08:12	16° Ⅱ 45'45	19.00499 AU	morning rise	6808 Jul 13 19:52	10 \$34240 11°\$36'36	20.89/// AU
evening set	6803 May 23 04:05	10 ∏ 43 43 19° ∏ 44'30		retrograde	6808 Oct 16 03:59	11 9 30 30	
ovening set	5505 May 25 04.05	17 H74 30		opposition	6809 Jan 01 15:04	14 \$344 34 12°\$45'02	-0°00'41
conjunction	6803 Jun 08 02:39	20° Ⅱ 38'49	-0°19'36	min. Earth dist.	6809 Jan 01 05:15		18.87643 AU
minimum elong	6803 Jun 08 02:39	20° I I38'49		asc. node	6809 Mar 05 20:17	12 \$340 02 10° \$51'17	10.07043 AU
max. Earth dist.	6803 Jun 08 18:22		21.05609 AU	direct	6809 Mar 17 20:01	10 \$31 17 10°\$47'36	
morning rise	6803 Jun 24 04:21	20 H 41 04 21° H 33'35	21.03009 AU	evening set	6809 Jun 15 18:46	10 \$54736 13°\$548'14	
retrograde	6803 Sep 26 07:55	21 H 33 33 24° H 40'07		evening set	0007 Juli 13 10.40	14 0+0	
min. Earth dist.	6803 Sep 26 07:55 6803 Dec 12 09:59		19.04602 AU	conjunction	6809 Jul 01 22:21	14° © 43'35	0°01'11
		22° II 42'41 22° II 41'11		•	6809 Jul 01 22:21	14°943'35	
opposition	6803 Dec 13 00:53 6804 Feb 26 14:05	22° Ⅲ 41'11 20° Ⅲ 44'44	-U 1740	minimum elong	6809 Jul 01 22:22 6809 Jul 01 15:43		0 010/
direct				behind sun begin		14°542'39	
evening set	6804 May 26 09:30	23° ∏ 43'39		behind sun end max. Earth dist.	6809 Jul 02 05:01 6809 Jul 02 08:44	14°9944'31	20.85446 AU
				man. Laith uist.	0007 Jul 02 00.44	17	20.03440 AU

morning rise	6809 Jul 18 05:18	15° © 39'24		conjunction	6815 Jul 27 16:19	9° Ω 26'03	0022106
retrograde	6809 Oct 20 15:16	18° © 48'11		minimum elong	6815 Jul 27 16:19	9° Ω 26'03	0°22'04
opposition	6810 Jan 05 23:02	16°9548'07	0°03'16	max. Earth dist.	6815 Jul 27 19:50		20.54105 AU
min. Earth dist.	6810 Jan 05 13:29	16°949'05	18.83166 AU	morning rise	6815 Aug 13 04:01	10° Ω 23'20	20.54105710
direct	6810 Mar 22 03:03	14°950'27	10.03100710	retrograde	6815 Nov 15 17:27	13° Ω 35'45	
evening set	6810 Jun 20 02:55	17° © 51'39		opposition	6816 Jan 31 06:31	11°Ω34'46	0°26'19
<i>8</i>				min. Earth dist.	6816 Jan 31 03:27	11° Ω 35'05	18.51059 AU
conjunction	6810 Jul 06 07:25	18° © 47'13	0°04'47	direct	6816 Apr 15 00:57	9° Ω 35'37	
minimum elong	6810 Jul 06 07:24	18° © 47'13	0°04'44	evening set	6816 Jul 14 20:54	12° Ω 41'38	
behind sun begin	6810 Jul 06 00:53	18° 5 46'18					
behind sun end	6810 Jul 06 13:55	18° 5 48'08		conjunction	6816 Jul 31 06:34	13° Ω 38'46	0°25'22
max. Earth dist.	6810 Jul 06 17:27	18° 5 348'39	20.80822 AU	minimum elong	6816 Jul 31 06:34	13° Ω 38'46	0°25'19
morning rise	6810 Jul 22 15:03	19° 5 43'15		max. Earth dist.	6816 Jul 31 09:17	13° Ω 39'10	20.47956 AU
retrograde	6810 Oct 25 00:48	22° © 52'33		morning rise	6816 Aug 16 18:48	14° Ω 36′19	
opposition	6811 Jan 10 07:21	20°552'18	0°07'13		6816 Aug 23 18:58	15° Ω	
min. Earth dist.	6811 Jan 09 23:03	20°953'09	18.78413 AU	retrograde	6816 Nov 19 07:43	17° Ω 49'24	
direct	6811 Mar 26 09:13	18°954'24		opposition	6817 Feb 03 17:22	15° Ω 48'15	0°29'53
evening set	6811 Jun 24 11:49	21° © 56'13		min. Earth dist.	6817 Feb 03 15:53	15° Ω 48′24	18.44759 AU
					6817 Feb 23 12:09	15° ŖΩ	
conjunction	6811 Jul 10 17:08	22° 9 52'01	0°08'19	direct	6817 Apr 19 10:26	13° Ω 48'48	
minimum elong	6811 Jul 10 17:08	22° 9 52'01	0°08'16		6817 Jun 11 13:59	15° Ω	
behind sun begin	6811 Jul 10 11:15	22° © 51'12		evening set	6817 Jul 19 11:12	16° Ω 55'47	
behind sun end	6811 Jul 10 23:01	22° © 52'51					
max. Earth dist.	6811 Jul 11 01:40	22° © 53'14	20.75962 AU	conjunction	6817 Aug 04 21:32	17° Ω 53'12	
morning rise	6811 Jul 27 01:43	23° © 48'17		minimum elong	6817 Aug 04 21:32	17° Ω 53'12	
retrograde	6811 Oct 29 12:52	26° © 58'09		max. Earth dist.	6817 Aug 04 21:36		20.41521 AU
opposition	6812 Jan 14 15:54	24°957'44	0°11'09	morning rise	6817 Aug 21 10:34	18° Ω 51′02	
min. Earth dist.	6812 Jan 14 08:01		18.73435 AU	retrograde	6817 Nov 23 23:26	22° Ω 04'48	
direct	6812 Mar 29 16:34	22° © 59'36		opposition	6818 Feb 08 04:50	20° Ω 03′26	
evening set	6812 Jun 27 21:25	26° © 02'08		min. Earth dist.	6818 Feb 08 04:47		18.38190 AU
				direct	6818 Apr 23 21:15	18° Ω 03'37	
conjunction	6812 Jul 14 03:42	26°958'11	0°11'51	evening set	6818 Jul 24 02:04	21° Ω 11'37	
minimum elong	6812 Jul 14 03:42	26°958'11	0°11'47		(010 1 00 10 10	222 0 222	0001100
behind sun begin	6812 Jul 13 23:03	26°957'31		conjunction	6818 Aug 09 13:19	22° Ω 09'20	0°31'32
behind sun end	6812 Jul 14 08:21	26°958'50	20.70060 444	minimum elong	6818 Aug 09 13:19	22° Ω 09'20	0°31'30
max. Earth dist.	6812 Jul 14 11:51		20.70860 AU	max. Earth dist.	6818 Aug 09 12:47		20.34824 AU
morning rise	6812 Jul 30 13:01	27° 9 54'41		morning rise	6818 Aug 26 02:47	23° Ω 07'26	
	6812 Sep 10 19:13	0° Ω 1° Ω 05'08		retrograde	6818 Nov 28 15:02 6819 Feb 12 16:48	26° £ 21'53	0026125
retrograde	6812 Nov 02 00:10 6812 Dec 25 17:55	30°RS		opposition min. Earth dist.	6819 Feb 12 16:48 6819 Feb 12 18:02	24° Ω 20'18	18.31389 AU
opposition	6813 Jan 18 00:55	30 k≊ 29°904'34	0°15'02	direct	6819 Apr 28 08:42	24 δι 2011 22° Ω 20'06	16.51569 AU
min. Earth dist.	6813 Jan 17 18:22		18.68212 AU	evening set	6819 Jul 28 18:06	25° Ω 29'09	
direct	6813 Apr 02 23:23	27°506'12	16.06212 AU	evening set	0819 Jul 28 18.00	23 662909	
direct	6813 Jun 29 12:23	0°Ω		conjunction	6819 Aug 14 05:57	26° Ω 27'10	0°34'23
evening set	6813 Jul 02 07:58	0° Ω 09'31		minimum elong	6819 Aug 14 05:57	26° Ω 27'10	
e venning see	0013 341 02 07.30	0 000731		max. Earth dist.	6819 Aug 14 02:50		20.27951 AU
conjunction	6813 Jul 18 15:02	1° Ω 05'49	0°15'20	morning rise	6819 Aug 30 20:11	27° Ω 25'32	20.27931710
minimum elong	6813 Jul 18 15:02	1° Ω 05'49	0°15'17	. 8	6819 Oct 24 01:13	0° m	
behind sun begin	6813 Jul 18 13:07	1° Ω 05'33		retrograde	6819 Dec 03 07:21	0° m/40'40	
behind sun end	6813 Jul 18 16:57	1° Ω 06′05		C	6820 Jan 13 03:12	30°R Ω	
max. Earth dist.	6813 Jul 18 21:18		20.65531 AU	opposition	6820 Feb 17 05:13	28° Ω 38'51	0°39'40
morning rise	6813 Aug 04 01:14	2° Ω 02'34		min. Earth dist.	6820 Feb 17 07:57	28° Ω 38'34	18.24458 AU
retrograde	6813 Nov 06 13:38	5° Ω 13'39		direct	6820 May 01 20:18	26° Ω 38'14	
opposition	6814 Jan 22 10:11	3° Ω 12'57	0°18'52	evening set	6820 Aug 01 10:52	29° Ω 48′22	
min. Earth dist.	6814 Jan 22 04:26	3° Ω 13'33	18.62761 AU		6820 Aug 04 19:00	0°Щ	
direct	6814 Apr 07 07:35	1° Ω 14'21					
evening set	6814 Jul 06 19:21	4° Ω 18'30		conjunction	6820 Aug 17 23:37	0° Mp 46′42	0°37'04
				minimum elong	6820 Aug 17 23:37	0° Mp 46′42	0°37'03
conjunction	6814 Jul 23 03:19	5° Ω 15′05	0°18'45	max. Earth dist.	6820 Aug 17 20:07	0° ™ 46'11	20.20968 AU
minimum elong	6814 Jul 23 03:19	5° Ω 15′05		morning rise	6820 Sep 03 14:12	1°M/45'21	
max. Earth dist.	6814 Jul 23 09:05		20.59948 AU	retrograde	6820 Dec 07 00:44	5° ™ 01'09	
morning rise	6814 Aug 08 14:08	6° Ω 12'05		opposition	6821 Feb 20 18:12	2° m 59'07	0°42'33
retrograde	6814 Nov 11 02:26	9° Ω 23'49		min. Earth dist.	6821 Feb 20 21:54		18.17447 AU
opposition	6815 Jan 26 20:06	7° Ω 23'00	0°22'39	direct	6821 May 06 09:37	0° ™ 58'06	
min. Earth dist.	6815 Jan 26 15:50		18.57046 AU	evening set	6821 Aug 06 04:41	4° ™ 09'21	
direct	6815 Apr 11 15:22	5° Ω 24'09					
evening set	6815 Jul 11 07:36	8° Ω 29'12		conjunction	6821 Aug 22 17:54	5° ™ 07'59	0°39'33

minimum elong	6821 Aug 22 17:54	5° m 07'59	0°39'31	opposition	6828 Mar 23 07:09	4° £ 13'31	0°55'18
max. Earth dist.	6821 Aug 22 11:54	-	20.13953 AU	min. Earth dist.	6828 Mar 23 18:15		17.71964 AU
morning rise	6821 Sep 08 09:05	6° m) 06'55		direct	6828 Jun 06 00:57	2° ≙ 10'07	
retrograde	6821 Dec 11 17:33	9° m 23'24		evening set	6828 Sep 07 10:48	5° Ω 29'49	
opposition	6822 Feb 25 07:45	7° m 21'09	0°45'12				
min. Earth dist.	6822 Feb 25 12:57	7° m 20'36	18.10454 AU	conjunction	6828 Sep 24 03:20	6° ჲ 30′28	0°49'59
direct	6822 May 10 22:12	5° m 19'43		minimum elong	6828 Sep 24 03:20	6° ჲ 30′28	0°50'00
evening set	6822 Aug 10 23:13	8° m 32'08		max. Earth dist.	6828 Sep 23 14:12	6° £ 28′28	19.69125 AU
				morning rise	6828 Oct 10 19:50	7° △ 31'09	
conjunction	6822 Aug 27 13:13	9° m 31'04	0°41'49	retrograde	6829 Jan 12 13:36	10° ≏ 52'14	
minimum elong	6822 Aug 27 13:13	9° m 31'04	0°41'48	opposition	6829 Mar 28 01:34	8° ≏ 49'15	0°55'52
max. Earth dist.	6822 Aug 27 07:08	9° m 30'10	20.06985 AU	min. Earth dist.	6829 Mar 28 12:48	8° ≏ 48'02	17.66365 AU
morning rise	6822 Sep 13 04:38	10° m 30'16		direct	6829 Jun 10 21:39	6° ≏ 45'35	
retrograde	6822 Dec 16 12:37	13° m 47'26		evening set	6829 Sep 12 12:02	10° ≏ 06′28	
opposition	6823 Mar 01 21:54	11° m 45'00	0°47'36				
min. Earth dist.	6823 Mar 02 03:39	11° Mp 44'23	18.03536 AU	conjunction	6829 Sep 29 04:38	11° ≏ 07'20	0°50'19
direct	6823 May 15 13:12	9° m 43'11		minimum elong	6829 Sep 29 04:38	11° ≏ 07'20	0°50'20
evening set	6823 Aug 15 18:47	12° m 56'46		max. Earth dist.	6829 Sep 28 13:41	11° ჲ 05'03	19.63626 AU
				morning rise	6829 Oct 15 21:03	12° ≙ 08'14	
conjunction	6823 Sep 01 09:12	13° m 56'00	0°43'51	retrograde	6830 Jan 17 11:04	15° ≏ 29'51	
minimum elong	6823 Sep 01 09:12	13° m 56'00	0°43'50	opposition	6830 Apr 01 20:55	13° ≏ 26'49	0°56'05
max. Earth dist.	6823 Sep 01 00:47	13° m 54'45	20.00133 AU	min. Earth dist.	6830 Apr 02 10:05	13° ≏ 25'23	17.60990 AU
morning rise	6823 Sep 18 01:09	14° m 55'29		direct	6830 Jun 15 17:15	11° ≏ 22'51	
retrograde	6823 Dec 21 06:11	18° m 13'21		evening set	6830 Sep 17 13:59	14° ≏ 44'51	
opposition	6824 Mar 05 12:49	16° m 10'43	0°49'45				
min. Earth dist.	6824 Mar 05 20:05	16°№09'56	17.96770 AU	conjunction	6830 Oct 04 06:46	15° ≙ 45'57	0°50'20
direct	6824 May 19 03:29	14° Mp 08'32		minimum elong	6830 Oct 04 06:46	15° ≙ 45'57	0°50'22
evening set	6824 Aug 19 15:16	17° m 23'19		max. Earth dist.	6830 Oct 03 15:01	15° ≏ 43'32	19.58369 AU
				morning rise	6830 Oct 20 23:02	16° ≏ 47'02	
conjunction	6824 Sep 05 06:22	18° m 22'52	0°45'38	retrograde	6831 Jan 22 11:37	20° ≏ 09'08	
minimum elong	6824 Sep 05 06:22	18° m 22'52	0°45'37	opposition	6831 Apr 06 16:42	18° ≏ 06'02	0°55'56
max. Earth dist.	6824 Sep 04 21:55	18° m 21'35	19.93451 AU	min. Earth dist.	6831 Apr 07 05:50	18° ≏ 04'36	17.55855 AU
morning rise	6824 Sep 21 22:25	19° m 22'36		direct	6831 Jun 20 15:45	16° ≏ 01'45	
retrograde	6824 Dec 25 02:19	22° Mp 41'07		evening set	6831 Sep 22 16:43	19° ≙ 24'49	
opposition	6825 Mar 10 04:12	20° m 38'22	0°51'36				
min. Earth dist.	6825 Mar 10 11:44	20° m 37'34	17.90192 AU	conjunction	6831 Oct 09 09:32	20° ≙ 26′08	0°50'01
direct	6825 May 23 20:17	18° m 35'51		minimum elong	6831 Oct 09 09:32	20° ≙ 26′08	0°50'02
evening set	6825 Aug 24 12:49	21°M 51'52		max. Earth dist.	6831 Oct 08 16:30	20° ≏ 23'31	19.53359 AU
				morning rise	6831 Oct 26 01:33	21° ≏ 27'23	
conjunction	6825 Sep 10 04:13	22° m 51'42	0°47'09	retrograde	6832 Jan 27 09:55	24° ≏ 49'52	
minimum elong	6825 Sep 10 04:13	22° m 51'42	0°47'09	opposition	6832 Apr 10 13:21	22° ≏ 46'43	0°55'24
max. Earth dist.	6825 Sep 09 17:34	22° m 50'05	19.86990 AU	min. Earth dist.	6832 Apr 11 04:21	22° ≏ 45'05	17.50995 AU
morning rise	6825 Sep 26 20:36	23° m 51'41		direct	6832 Jun 24 12:28	20° ≏ 42'07	
retrograde	6825 Dec 29 20:56	27° m 10'54		evening set	6832 Sep 26 20:01	24° ≙ 06'11	
opposition	6826 Mar 14 20:32	25° m 08'02	0°53'09				
min. Earth dist.	6826 Mar 15 05:37	25° m 07'03	17.83864 AU	conjunction	6832 Oct 13 12:47	25° ≙ 07'41	0°49'22
direct	6826 May 28 12:19	23°M/05'12		minimum elong	6832 Oct 13 12:47	25° ≏ 07'41	0°49'24
evening set	6826 Aug 29 10:58	26° Mp 22′27		max. Earth dist.	6832 Oct 12 18:44	25° ♀ 04'53	19.48661 AU
				morning rise	6832 Oct 30 04:33	26° ჲ 09'04	
conjunction	6826 Sep 15 02:56	27° m 22'34	0°48'23	retrograde	6833 Jan 31 11:14	29° ₽ 31'55	
minimum elong	6826 Sep 15 02:56	27° m 22'34	0°48'22	opposition	6833 Apr 15 10:20	27° ≏ 28'41	0°54'31
max. Earth dist.	6826 Sep 14 16:19	27° m 20'57	19.80788 AU	min. Earth dist.	6833 Apr 16 01:05	27° ≏ 27'04	17.46468 AU
morning rise	6826 Oct 01 19:21	28° m 22'47		direct	6833 Jun 29 12:44	25° ≏ 23'47	
	6826 Oct 31 09:35	0∘ ⊽		evening set	6833 Oct 01 23:48	28° ≏ 48'46	
retrograde	6827 Jan 03 18:27	1° ≙ 42'40					
	6827 Mar 11 17:34	30°R, Mp		conjunction	6833 Oct 18 16:30	29° ჲ 50′26	0°48'23
opposition	6827 Mar 19 13:28	29° m 39'45		minimum elong	6833 Oct 18 16:30	29° ჲ 50′26	0°48'25
min. Earth dist.	6827 Mar 19 22:38	29° m 38'45	17.77786 AU	max. Earth dist.	6833 Oct 17 22:03		19.44319 AU
direct	6827 Jun 02 07:08	27° m 36'38			6833 Oct 21 06:09	0° M	
	6827 Aug 18 09:23	0∘ ⊽		morning rise	6833 Nov 04 07:46	0° ™ 51'56	
evening set	6827 Sep 03 10:28	0° £ 55'07		retrograde	6834 Feb 05 09:56	4°M15'03	
				opposition	6834 Apr 20 08:07	2°M11'46	0°53'14
conjunction	6827 Sep 20 02:37	1° ≏ 55'30	0°49'20	min. Earth dist.	6834 Apr 21 00:18	2°M09'59	17.42338 AU
minimum elong	6827 Sep 20 02:37	1° ≏ 55'30	0°49'20	direct	6834 Jul 04 10:47	0°M06'34	
max. Earth dist.	6827 Sep 19 13:57	1° ≏ 53'34	19.74834 AU	evening set	6834 Oct 07 03:53	3°M32'25	
morning rise	6827 Oct 06 19:12	2° ≏ 55'58					
retrograde	6828 Jan 08 14:26	6° ≏ 16′28		conjunction	6834 Oct 23 20:19	4°M34'12	0°47'03

minimum elong	6834 Oct 23 20:19	4°M34'12	0°47'05	max. Earth dist.	6840 Nov 21 04:13	3° ₹08'23	19.28863 AU
max. Earth dist.	6834 Oct 23 00:52		19.40418 AU	morning rise	6840 Dec 08 09:53	4°×12'59	17.20003710
morning rise	6834 Nov 09 11:19	5°M35'48	19.40418 AU	retrograde	6841 Mar 10 12:38	7° x ⁷ 36'34	
Č	6835 Feb 10 11:13			opposition		5° × ⁷ 33'37	0024142
retrograde		8°M59'09	0051127	11	6841 May 23 04:16		
opposition	6835 Apr 25 06:13	6°M55'48	0°51'36	min. Earth dist.	6841 May 23 19:45		17.28931 AU
min. Earth dist.	6835 Apr 25 21:58		17.38670 AU	direct	6841 Aug 07 01:12	3° ∡ 127'32	
direct	6835 Jul 09 12:26	4°M50'20		evening set	6841 Nov 10 14:21	6° ₹ 57'06	
evening set	6835 Oct 12 08:24	8°M16'57		max. Earth dist.	6841 Nov 26 10:05	7°×156'23	19.29090 AU
max. Earth dist.	6835 Oct 28 05:40	9°11∟15′53	19.36991 AU			_	
				conjunction	6841 Nov 27 03:21	7° ∡ ¹59'05 −	0°29'25
conjunction	6835 Oct 29 00:41	9°M18'51	0°45'25	minimum elong	6841 Nov 27 03:21	7° ∡ ¹59'05	0°29'29
minimum elong	6835 Oct 29 00:41	9°M18'51	0°45'28	morning rise	6841 Dec 13 13:17	9° ∡ 00'40	
morning rise	6835 Nov 14 15:00	10°M20'32		retrograde	6842 Mar 15 13:59	12° ≯ 24'06	
retrograde	6836 Feb 15 10:10	13°M44'01		opposition	6842 May 28 05:07	10° ∡ ′21′20	0°30'55
opposition	6836 Apr 29 04:50	11°M40'38	0°49'36	min. Earth dist.	6842 May 28 20:02	10° ∡ 19'42	17.29422 AU
min. Earth dist.	6836 Apr 29 21:35	11°MJ38'48	17.35510 AU	direct	6842 Aug 12 04:52	8° ∡ 15'19	
direct	6836 Jul 13 12:05	9°M34'56		evening set	6842 Nov 15 19:15	11° ∡ ⁴45′02	
evening set	6836 Oct 16 13:16	13°M02'15					
max. Earth dist.	6836 Nov 01 09:02	14° M 01'07	19.34116 AU	conjunction	6842 Dec 02 07:22	12° ∡ ¹46'56	0°25'55
				minimum elong	6842 Dec 02 07:22	12° ∡ ¹46'56	0°25'59
conjunction	6836 Nov 02 05:03	14° M .04'14	0°43'27	max. Earth dist.	6842 Dec 01 13:41	12° ∡ ⁴44'09	19.29843 AU
minimum elong	6836 Nov 02 05:03	14° M .04'14	0°43'29	morning rise	6842 Dec 18 16:30	13° ∡ ¹48'25	
Č	6836 Nov 17 03:57	15°M		retrograde	6843 Mar 20 14:16	17° ∡ 11'38	
morning rise	6836 Nov 18 18:56	15°M05'58		opposition	6843 Jun 02 06:16	15° х 09'03	0°26'54
retrograde	6837 Feb 19 11:25	18°M29'34		min. Earth dist.	6843 Jun 02 21:20		17.30429 AU
opposition	6837 May 04 03:56	16°M26'10	0°47'15	direct	6843 Aug 17 07:44	13°×°03'06	17.50 (2) 110
min. Earth dist.	6837 May 04 09:96		17.32933 AU	evening set	6843 Nov 20 23:52	16° ₹ 32'51	
mm. Larm dist.	6837 Jun 09 06:10	15°RM	17.32733 AO	evening set	0043 1107 20 23.32	10 × 32 31	
direct	6837 Jul 18 14:49	14°M20'17		conjunction	6843 Dec 07 11:13	17° ∡ ³34'38	0°22'14
uncet		14 1162017 15°M		•	6843 Dec 07 11:13	17° × 34'38	0°22'18
avanina aat	6837 Aug 26 09:29 6837 Oct 21 18:00	17°ML48'12		minimum elong max. Earth dist.	6843 Dec 0/ 11:13		19.31091 AU
evening set	083/ Oct 21 18.00	1/ 11646 12					19.31091 AU
	(027.)1 07.00.20	100 m 50115	0041111	morning rise	6843 Dec 23 19:22	18° ∡ 35'59	
conjunction	6837 Nov 07 09:29	18°M50'15	0°41'11	retrograde	6844 Mar 24 16:08	21° х 58'55	0000110
minimum elong	6837 Nov 07 09:29	18°M50'15	0°41'14	opposition	6844 Jun 06 07:27	19° ₹ 56'31	0°22'42
max. Earth dist.	6837 Nov 06 14:45		19.31837 AU	min. Earth dist.	6844 Jun 06 21:30		17.31898 AU
morning rise	6837 Nov 23 22:32	19°M51'59		direct	6844 Aug 21 11:48	17° ₹ 50'39	
retrograde	6838 Feb 24 10:49	23°M15'39		evening set	6844 Nov 25 04:11	21° ≯ 20′18	
opposition	6838 May 09 03:34	21°M12'18	0°44'34				
min. Earth dist.	6838 May 09 19:57	21°M10'30	17.30968 AU	conjunction	6844 Dec 11 14:34	22° ∡ ¹21'57	
direct	6838 Jul 23 15:59	19° M 06'17		minimum elong	6844 Dec 11 14:35	22° ∡ ¹21'57	
evening set	6838 Oct 26 23:08	22°M34'45		max. Earth dist.	6844 Dec 10 22:09	22° ∡ 19'22	19.32791 AU
				morning rise	6844 Dec 27 21:45	23° ∡ ′23′08	
conjunction	6838 Nov 12 13:56	23°M36'48	0°38'37	retrograde	6845 Mar 29 15:43	26° ∡ ¹45'44	
minimum elong	6838 Nov 12 13:56	23°M36'48	0°38'40	opposition	6845 Jun 11 08:53	24° ∡ ⁴43'29	0°18'21
max. Earth dist.	6838 Nov 11 18:21	23°M33'44	19.30205 AU	min. Earth dist.	6845 Jun 11 23:09	24° ∡ ⁴41'56	17.33831 AU
morning rise	6838 Nov 29 02:28	24°M38'33		direct	6845 Aug 26 14:22	22° ∡ ³37'41	
retrograde	6839 Mar 01 11:44	28°M02'14		evening set	6845 Nov 30 07:44	26° ∡ ¹07'08	
opposition	6839 May 14 03:21	25°M58'58	0°41'34				
min. Earth dist.	6839 May 14 19:13	25°M57'13	17.29665 AU	conjunction	6845 Dec 16 17:15	27° ∡ ¹08'36	0°14'27
direct	6839 Jul 28 19:07	23°M52'52		minimum elong	6845 Dec 16 17:15	27° ∡ ¹08'36	0°14'31
evening set	6839 Nov 01 04:12	27°M21'48		behind sun begin	6845 Dec 16 14:22	27° ∡ 08'10	
				behind sun end	6845 Dec 16 20:08	27° ∡ ¹09'03	
conjunction	6839 Nov 17 18:37	28°M23'52	0°35'48	max. Earth dist.	6845 Dec 16 01:45	27° ∡ ¹06'10	19.34951 AU
minimum elong	6839 Nov 17 18:38	28°M23'52		morning rise	6846 Jan 01 23:30	28° х 09'37	
max. Earth dist.	6839 Nov 17 00:32		19.29223 AU		6846 Feb 03 19:34	0°ਰ	
morning rise	6839 Dec 04 06:14	29°M25'34	17.27223 110	retrograde	6846 Apr 03 16:42	0 3 1° る 31'48	
morning rise	6839 Dec 13 18:57	0° x 7		retrograde	6846 Jun 04 15:02	30°R. ₹	
retrograde	6840 Mar 05 12:05	2° х 49'13		opposition	6846 Jun 16 10:06	29° × ⁷ 29'42	0°13'52
opposition	6840 May 18 03:40	2 x 4913 0° x 46'06	0°38'16	min. Earth dist.	6846 Jun 16 22:52		17.36196 AU
min. Earth dist.	6840 May 18 19:21		17.28990 AU	direct	6846 Aug 31 18:35	29 x ·28 19 27° x ⁷ 24'01	17.30170 AU
mm. Lattii üist.	•		17.40770 AU	uncci	•	2/* メ ・2401 0°る	
J:4	6840 Jun 05 02:45	30°RM			6846 Nov 20 13:26		
direct	6840 Aug 01 21:53	28°M40'00		evening set	6846 Dec 05 10:54	0° る 53'06	
	6840 Sep 26 20:15	0° ⊀ 7			(04(D 21 10 20	1075.00	0010124
evening set	6840 Nov 05 09:23	2° ₹ 09'18		conjunction	6846 Dec 21 19:29	1° 3 54'24	
	604037	20 = 1	0000112	minimum elong	6846 Dec 21 19:30	1° 3 54'24	0°10'28
conjunction	6840 Nov 21 22:58	3°×11'20	0°32'43	behind sun begin	6846 Dec 21 14:16	1°る53'35	
minimum elong	6840 Nov 21 22:58	3° ≯ 11′20	0°32'48	behind sun end	6846 Dec 22 00:43	1° る 55'12	

max. Earth dist.	6846 Dec 21 04:49	1°る52'06	19.37535 AU	evening set	6853 Jan 02 12:35	29° පි 00'17	
morning rise	6847 Jan 07 00:43	2° る 55'12					
retrograde	6847 Apr 08 14:54	6° る 16'55		conjunction	6853 Jan 18 15:10	29° る 59'58	-0°14'08
opposition	6847 Jun 21 11:12	4° ರ 14'56	0°09'19	minimum elong	6853 Jan 18 15:10	29° る 59'58	0°14'04
min. Earth dist.	6847 Jun 22 00:14	4° ප 13'32	17.39002 AU	behind sun begin	6853 Jan 18 11:50	29° る 59'28	
direct	6847 Sep 05 21:09	2° る 09'20		behind sun end	6853 Jan 18 18:30	0° ≈ 00′28	
evening set	6847 Dec 10 13:24	5°₹38'00		max. Earth dist.	6853 Jan 18 09:18	29° る 59'04	19.62720 AU
					6853 Jan 18 15:23	0° ≈	
conjunction	6847 Dec 26 20:57	6° る 39'04	0°06'19	morning rise	6853 Feb 03 14:35	0° ≈ 59'13	
minimum elong	6847 Dec 26 20:58	6° る 39'04	0°06'23	retrograde	6853 May 05 20:44	4° ≈ 17'19	
behind sun begin	6847 Dec 26 14:40	6° ප 38'06		opposition	6853 Jul 19 11:55	2° ≈ 16'12	-0°17'48
behind sun end	6847 Dec 27 03:15	6° ප 40'02		min. Earth dist.	6853 Jul 19 17:04	2° ≈ 15'39	17.65567 AU
max. Earth dist.	6847 Dec 26 06:58		19.40569 AU	direct	6853 Oct 04 11:50	0° ≈ 11'49	
morning rise	6848 Jan 12 01:17	7° る 39'39		evening set	6854 Jan 07 09:44	3° ≈ 35'53	
retrograde	6848 Apr 12 14:25	11° る 00'50					
opposition	6848 Jun 25 12:05	8° 중 58'58	0°04'43	conjunction	6854 Jan 23 11:11	4°≈35'16	
min. Earth dist.	6848 Jun 25 23:13		17.42247 AU	minimum elong	6854 Jan 23 11:11	4°≈35'16	
direct	6848 Sep 10 01:53	6° そ 53'30		max. Earth dist.	6854 Jan 23 05:51		19.68536 AU
evening set	6848 Dec 14 14:54	10° る 21'35		morning rise	6854 Feb 08 09:57	5° ≈ 34'14	
				retrograde	6854 May 10 16:57	8° ≈ 51'42	
conjunction	6848 Dec 30 21:31	11° る 22'24		opposition	6854 Jul 24 10:33	6° ≈ 50'48	-0°21'59
minimum elong	6848 Dec 30 21:32	11° る 22'24	0°02'15	min. Earth dist.	6854 Jul 24 13:37		17.71561 AU
behind sun begin	6848 Dec 30 14:52	11° る 21'23		direct	6854 Oct 09 12:02	4° ≈ 46'46	
behind sun end	6848 Dec 31 04:12	11° る 23'25		evening set	6855 Jan 12 05:58	8° ≈ 09'53	
max. Earth dist.	6848 Dec 30 09:18		19.44038 AU				
morning rise	6849 Jan 16 00:46	12° る 22'44		conjunction	6855 Jan 28 06:37	9° ≈ 08'57	
retrograde	6849 Apr 17 11:03	15° る 43'22		minimum elong	6855 Jan 28 06:37	9° ≈ 08'56	
opposition	6849 Jun 30 12:54	13° る 41'37		max. Earth dist.	6855 Jan 28 03:54		19.74685 AU
min. Earth dist.	6849 Jun 30 23:57		17.45950 AU	morning rise	6855 Feb 13 04:21	10° ≈ 07'36	
desc. node	6849 Jul 08 02:47	13° る 22'10		retrograde	6855 May 15 11:11	13° ≈ 24'25	
direct	6849 Sep 15 04:29	11° පි 36'16		opposition	6855 Jul 29 08:47	11° ≈ 23'46	
evening set	6849 Dec 19 15:41	15° る 03'41		min. Earth dist.	6855 Jul 29 11:05		17.77843 AU
		_		direct	6855 Oct 14 10:35	9° ≈ 20'07	
conjunction	6850 Jan 04 21:11	16° පි 04'14		evening set	6856 Jan 17 01:30	12° ≈ 42'13	
minimum elong	6850 Jan 04 21:12	16° ප 04'14	0°02'01				
behind sun begin	6850 Jan 04 14:32	16° පි 03'13		conjunction	6856 Feb 02 01:01	13° ≈ 40'57	
behind sun end	6850 Jan 05 03:52	16° る 05'15		minimum elong	6856 Feb 02 01:01	13° ≈ 40'57	
max. Earth dist.	6850 Jan 04 09:39		19.47986 AU	max. Earth dist.	6856 Feb 01 22:39		19.81093 AU
morning rise	6850 Jan 20 23:36	17° る 04'19		morning rise	6856 Feb 17 22:07	14°≈39'20	
retrograde	6850 Apr 22 08:58	20°る24'21	000 4120	. 1	6856 Feb 23 16:50	15° ≈	
opposition	6850 Jul 05 13:02	18° ろ 22'42		retrograde	6856 May 19 06:14	17°≈55'29	0020150
min. Earth dist.	6850 Jul 05 21:51		17.50134 AU	opposition	6856 Aug 02 06:36	15°≈55'04	
direct	6850 Sep 20 08:19	16°₹17'31		min. Earth dist.	6856 Aug 02 07:11		17.84358 AU
evening set	6850 Dec 24 15:30	19° る 44'11		J:4	6856 Aug 24 23:47	15°R≈	
· · · · · · · · · · · · ·	(051 I 00 20.07	200744120	0007111	direct	6856 Oct 18 09:12	13°≈51'47	
conjunction	6851 Jan 09 20:07 6851 Jan 09 20:08	20°る44'28 20°る44'28			6856 Dec 09 13:50	15° ≈	
minimum elong behind sun begin	6851 Jan 09 13:49	20°る4428 20°る43'30	0°06'07	evening set	6857 Jan 20 19:47	17° ≈ 12'50	
behind sun end	6851 Jan 10 02:27	20° ろ 45'26		conjunction	6857 Feb 05 18:33	18° ≈ 11'15	0028132
max. Earth dist.	6851 Jan 09 10:56		19.52410 AU	minimum elong	6857 Feb 05 18:33	18°≈11'15	
morning rise	6851 Jan 25 21:26	20 843 03 21° 8 44'17	19.32410 AU	max. Earth dist.	6857 Feb 05 18:41		19.87684 AU
retrograde	6851 Apr 27 04:44	21 34417 25°る03'40		morning rise	6857 Feb 21 14:45	19°≈09'20	19.87084 AU
opposition	6851 Jul 10 13:08	23°る03'40 23°る02'10	-0°09'02	retrograde	6857 May 23 23:43	19 ≈09 20 22°≈24'49	
min. Earth dist.	6851 Jul 10 21:29		17.54803 AU	opposition	6857 Aug 07 03:55	22 ≈2449 20°≈24'38	0033138
direct	6851 Sep 25 09:57	20°る57'12	17.54003 AC	min. Earth dist.	6857 Aug 07 03:32		17.91007 AU
evening set	6851 Dec 29 14:34	24° පි 23'03		direct	6857 Oct 23 06:43	18°≈21'45	17.51007 AC
evening set	0031 Dec 27 14.54	24 023 03		evening set	6858 Jan 25 13:27	21°≈41'42	
conjunction	6852 Jan 14 18:00	25° පි 23'02	-0°10'12	2. cg 50t	5555 tan 25 15.27		
minimum elong	6852 Jan 14 18:00	25° පි 23'02		conjunction	6858 Feb 10 11:12	22° ≈ 39'48	-0°31'42
behind sun begin	6852 Jan 14 12:41	25° පි 22'14	0 1007	minimum elong	6858 Feb 10 11:11	22°≈39'47	
behind sun end	6852 Jan 14 23:19	25° る 23'51		max. Earth dist.	6858 Feb 10 11:31		19.94379 AU
max. Earth dist.	6852 Jan 14 09:26		19.57330 AU	morning rise	6858 Feb 26 06:51	22 ≈ 3731 23° ≈ 37'34	-,,, 151,/110
morning rise	6852 Jan 30 18:30	26°පි22'34	17.57550 AU	retrograde	6858 May 28 17:04	25 ≈57 34 26°≈52'24	
retrograde	6852 May 01 01:36	20 3 22 34 29° 3 41'20		opposition	6858 Aug 12 00:28	20 ≈52 24 24°≈52'24	-0°36'52
opposition	6852 Jul 14 12:40	29 3 41 20 27° 3 39'59	-0°13'29	min. Earth dist.	6858 Aug 11 22:51		17.97740 AU
min. Earth dist.	6852 Jul 14 18:34		17.59961 AU	direct	6858 Oct 28 03:30	24 ≈32 54 22°≈49'53	
direct	6852 Sep 29 12:04	25° ප 35'17	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	evening set	6859 Jan 30 06:03	26°≈08'43	
	27 2.0 т						

agniunation	6859 Feb 15 03:08	27°≈06'30	0024140	ratragrada	6865 Jun 27 19:57	27° ₩ 11'31	
conjunction				retrograde			00.53100
minimum elong	6859 Feb 15 03:08	27°≈06'30		opposition	6865 Sep 12 06:13	25°) 12'18	
max. Earth dist.	6859 Feb 15 05:34		20.01119 AU	min. Earth dist.	6865 Sep 11 19:42		18.43889 AU
morning rise	6859 Mar 02 22:00	28° ≈ 03'59		direct	6865 Nov 28 11:48	23° ∺ 12'07	
	6859 Apr 08 03:26	0° ∀		evening set	6866 Feb 28 23:19	26°) 22'45	
retrograde	6859 Jun 02 09:43	1° ∺ 18′07					
	6859 Jul 30 17:14	30°R≈		conjunction	6866 Mar 16 16:10	27° ₩ 18'28	-0°48'32
opposition	6859 Aug 16 20:34	29° ≈ 18'19	-0°40'01	minimum elong	6866 Mar 16 16:10	27°) 18′28	0°48'31
min. Earth dist.	6859 Aug 16 17:47	29°≈18'36	18.04471 AU	max. Earth dist.	6866 Mar 17 02:58	27°) € 20'04	20.47097 AU
direct	6859 Nov 02 00:22	27°≈16'11		morning rise	6866 Apr 01 08:32	28°) 14′07	
	6860 Jan 25 05:11	0°) €			6866 May 04 21:02	0° Υ	
evening set	6860 Feb 03 21:45	0°) 33′51		retrograde	6866 Jul 02 06:17	1° Υ 23'48	
evening set	0000100 03 21.43	0 7(3331		retrograde		30°R) €	
	6060 F.1. 10. 17.54	101/21110	0027124		6866 Sep 02 03:54	*	0054110
conjunction	6860 Feb 19 17:54	1° ∺ 31'19		opposition	6866 Sep 16 21:18	29°) € 24'42	
minimum elong	6860 Feb 19 17:54	1° ∺ 31'19		min. Earth dist.	6866 Sep 16 10:21		18.50310 AU
max. Earth dist.	6860 Feb 19 20:37		20.07835 AU	direct	6866 Dec 03 00:48	27° ∺ 24'53	
morning rise	6860 Mar 06 12:19	2° ∺ 28'31			6867 Feb 23 05:49	0 ° $\mathbf{\Upsilon}$	
retrograde	6860 Jun 06 01:09	5° ∺ 41'59		evening set	6867 Mar 05 08:34	0° Ƴ 34'26	
opposition	6860 Aug 20 16:04	3°) 42′19	-0°42'55				
min. Earth dist.	6860 Aug 20 12:19	3°) 42'42	18.11177 AU	conjunction	6867 Mar 21 01:11	1° Y 29'54	-0°49'27
direct	6860 Nov 05 19:34	1°) 40′32		minimum elong	6867 Mar 21 01:11	1° Y 29'54	0°49'27
evening set	6861 Feb 07 12:22	4°) €57'01		max. Earth dist.	6867 Mar 21 13:33	1°℃31'44	20.53473 AU
evening set	0001100 07 12.22	4 7(37 01		morning rise	6867 Apr 05 17:23	2° Υ 25'21	20.33473710
:	(0(1 E-L 22 07.50	5° ₩ 54'11	0920154	-	6867 Jul 06 17:57	5° Υ 34'29	
conjunction	6861 Feb 23 07:58			retrograde			0055110
minimum elong	6861 Feb 23 07:57	5° ¥ 54'11		opposition	6867 Sep 21 11:46	3° Y 35'33	
max. Earth dist.	6861 Feb 23 12:40		20.14511 AU	min. Earth dist.	6867 Sep 20 22:46		18.56619 AU
morning rise	6861 Mar 11 01:46	6° ∺ 51'05		direct	6867 Dec 07 15:21	1° Y 36'06	
retrograde	6861 Jun 10 16:48	10°) €03'53		evening set	6868 Mar 08 17:06	4° Ƴ 44'35	
opposition	6861 Aug 25 10:41	8°) €04'20	-0°45'33				
min. Earth dist.	6861 Aug 25 05:32	8° ₩ 04'52	18.17813 AU	conjunction	6868 Mar 24 09:22	5° Ƴ 39'50	-0°50'07
direct	6861 Nov 10 15:32	6° ₩ 02'52		minimum elong	6868 Mar 24 09:22	5° Ƴ 39'50	0°50'07
evening set	6862 Feb 12 02:05	9° ∺ 18'10		max. Earth dist.	6868 Mar 24 22:37	5° Ƴ 41'48	20.59704 AU
•				morning rise	6868 Apr 09 01:35	6° Ƴ 35′05	
conjunction	6862 Feb 27 20:55	10°) 15′00	-0°42'09	retrograde	6868 Jul 10 03:49	9° Ƴ 43'45	
minimum elong	6862 Feb 27 20:55	10° ₩ 15'00		opposition	6868 Sep 25 01:51	7° Y 44'56	-0°55'44
max. Earth dist.	6862 Feb 28 02:07		20.21113 AU	min. Earth dist.	6868 Sep 24 12:42		18.62771 AU
	6862 Mar 15 14:26	10 X 1347	20.21113 AU	direct	6868 Dec 11 02:50	5° Υ 45'51	16.02//1 AU
morning rise							
retrograde	6862 Jun 15 05:50	14°) €23'47		evening set	6869 Mar 13 01:03	8° Y 53′20	
opposition	6862 Aug 30 04:41	12°) 24′18				••	
min. Earth dist.	6862 Aug 29 22:50		18.24393 AU	conjunction	6869 Mar 28 17:12	9° Ƴ 48'23	
direct	6862 Nov 15 09:01	10° ∺ 23'09		minimum elong	6869 Mar 28 17:12	9° Ƴ 48'23	0°50'32
evening set	6863 Feb 16 14:41	13°) 37′15		max. Earth dist.	6869 Mar 29 07:39	9° Ƴ 50'30	20.65751 AU
				morning rise	6869 Apr 13 09:25	10° Ƴ 43'26	
conjunction	6863 Mar 04 09:02	14°) 33′48	-0°44'09	retrograde	6869 Jul 14 14:45	13° Y 51'39	
minimum elong	6863 Mar 04 09:02	14°) €33'48	0°44'08	opposition	6869 Sep 29 15:01	11° Y 52'59	-0°56'01
max. Earth dist.	6863 Mar 04 16:12	14°) 34′52	20.27661 AU	min. Earth dist.	6869 Sep 29 00:07	11° Y 54'29	18.68691 AU
morning rise	6863 Mar 20 02:03	15° ¥ 30'10		direct	6869 Dec 15 15:40	9° Ƴ 54'15	
retrograde	6863 Jun 19 19:59	18°) €41'37		evening set	6870 Mar 17 08:32	13° Y ′00'47	
opposition	6863 Sep 03 21:51	16°) 42'14	-0°49'57		55.5 E.M. 1, 00.52	1 00 17	
min. Earth dist.	6863 Sep 03 14:11		18.30912 AU	conjunction	6870 Apr 02 00:29	13° Y ′55'37	0°50'20
	_		16.30912 AU		•		
direct	6863 Nov 20 03:49	14°) (41'24		minimum elong	6870 Apr 02 00:29	13° Y 55'37	
evening set	6864 Feb 21 02:31	17° ∺ 54'18		max. Earth dist.	6870 Apr 02 15:31		20.71524 AU
				morning rise	6870 Apr 17 16:50	14° Y 50'31	
conjunction	6864 Mar 07 20:13	18° ¥ 50′34		retrograde	6870 Jul 18 24:00	17° Ƴ 58'19	
minimum elong	6864 Mar 07 20:13	18° ¥ 50'34	0°45'53	opposition	6870 Oct 04 03:56	15° Ƴ 59'46	
max. Earth dist.	6864 Mar 08 04:14	18°) 51′46	20.34163 AU	min. Earth dist.	6870 Oct 03 13:21	16° Ƴ 01'13	18.74318 AU
morning rise	6864 Mar 23 13:00	19°) 46'41		direct	6870 Dec 20 01:34	14° Y 01′22	
retrograde	6864 Jun 23 07:17	22°) 57′31		evening set	6871 Mar 21 15:23	17° Ƴ 06'58	
opposition	6864 Sep 07 14:29	20° ¥ 58'12	-0°51'42	-			
min. Earth dist.	6864 Sep 07 06:04		18.37419 AU	conjunction	6871 Apr 06 07:18	18° Ƴ 01'38	-0°50'31
direct	6864 Nov 23 18:58	18° ¥ 57'40		minimum elong	6871 Apr 06 07:18	18° Υ 01'38	
evening set	6865 Feb 24 13:12	22°\(\frac{10}{10}\)		max. Earth dist.	6871 Apr 06 23:08		20.76977 AU
evening set	0000 1 00 24 13.12	22 NU723			-	18° Y 56'23	20.10311 AU
a aminy ti	6065 M 12 06 22	220 14 05124	0947120	morning rise	6871 Apr 21 23:44		
conjunction	6865 Mar 12 06:32	23° ₩ 05'24		retrograde	6871 Jul 23 10:29	22°\bar{\gamma}03'47	0055113
minimum elong	6865 Mar 12 06:32	23°) €05'24		opposition	6871 Oct 08 16:12	20° ℃ 05'21	
max. Earth dist.	6865 Mar 12 16:29		20.40655 AU	min. Earth dist.	6871 Oct 08 00:03		18.79580 AU
morning rise	6865 Mar 27 23:01	24° ∺ 01'17		direct	6871 Dec 24 13:32	18° Ƴ 07'16	

evening set	6872 Mar 24 21:55	21° Y 12'00		conjunction minimum elong	6878 May 03 21:14 6878 May 03 21:14	16° 8 13'23	
conjunction	6872 Apr 09 13:46	22° Y ′06'29 -	-0°50'09	max. Earth dist.	6878 May 04 15:22	_	21.02879 AU
minimum elong	6872 Apr 09 13:46		0°50'11	morning rise	6878 May 19 16:24	17° 8 07'35	
max. Earth dist.	6872 Apr 10 06:00	22° Y '08'51 2		retrograde	6878 Aug 20 19:28	20° 8 13'08	
morning rise	6872 Apr 25 06:27	23° Y '01'07		opposition	6878 Nov 06 16:09	18° 8 14'39	-0°46'19
retrograde	6872 Jul 26 18:55	26° Ƴ 08'10		min. Earth dist.	6878 Nov 05 23:10	. •	19.03997 AU
opposition	6872 Oct 12 04:07	24° Y ′09'48 -	-0°55'09	direct	6879 Jan 21 23:53	16° 8 17'48	
min. Earth dist.	6872 Oct 11 12:38	24° Y 11'21 1	18.84431 AU	evening set	6879 Apr 22 07:53	19° 8 17'45	
direct	6872 Dec 27 22:10	22° Y 11'59		C	1	_	
evening set	6873 Mar 29 03:53	25° Ƴ 15'52		conjunction	6879 May 08 01:31	20° 8 11'38	-0°40'55
Č				minimum elong	6879 May 08 01:31	20° 8 11'38	0°40'58
conjunction	6873 Apr 13 19:53	26° Y 10'13 -	-0°49'32	max. Earth dist.	6879 May 08 19:55	20° 8 14'16	21.04963 AU
minimum elong	6873 Apr 13 19:53	26° Ƴ 10'13	0°49'34	morning rise	6879 May 23 21:15	21° 8 05'49	
max. Earth dist.	6873 Apr 14 12:29	26° Y 12'38 2		retrograde	6879 Aug 25 04:12	24° 8 11'17	
morning rise	6873 Apr 29 12:49	27° Y ′04'44		min. Earth dist.	6879 Nov 10 06:20	_	19.05900 AU
8 33	6873 Jul 09 17:46	0°8		opposition	6879 Nov 11 00:38	22° 8 12'47	
retrograde	6873 Jul 31 04:53	0° 8 11'27		direct	6880 Jan 26 06:38	20° 8 16'03	
	6873 Aug 21 23:47	30° R Υ		evening set	6880 Apr 25 11:46	23° 8 15'37	
opposition	6873 Oct 16 15:20	28° Y 13'07 -	-0°54'19		p		
min. Earth dist.	6873 Oct 15 22:32	28° Y 14'48		conjunction	6880 May 11 05:51	24° 8 09'28	-0°38'45
direct	6874 Jan 01 09:09	26° Y 15'33		minimum elong	6880 May 11 05:51	24° 8 09'28	
evening set	6874 Apr 02 09:34	29° Y 18'38		max. Earth dist.	6880 May 12 00:31	_	21.06680 AU
e venning see	6874 Apr 14 09:05	0°8		morning rise	6880 May 27 02:14	25° 8 03'40	21.00000110
	оо, р	• •		retrograde	6880 Aug 28 10:39	28° 8 09'07	
conjunction	6874 Apr 18 01:38	0° 8 12'52 -	-0°48'40	opposition	6880 Nov 14 08:52	26° 8 10'35	-0°41'31
minimum elong	6874 Apr 18 01:38	0° 8 12'52		min. Earth dist.	6880 Nov 13 15:29		19.07437 AU
max. Earth dist.	6874 Apr 18 18:24	_	20.90784 AU	direct	6881 Jan 29 12:17	24° 8 13'59	17.07 137 110
morning rise	6874 May 03 18:55	1° 8 07'17	20.90,01110	evening set	6881 Apr 29 15:35	27° 8 13'13	
retrograde	6874 Aug 04 12:16	4° 8 13'41		evening sec	000111p1 25 10.50	27 013 13	
min. Earth dist.	6874 Oct 20 10:12	.T.	18.92701 AU	conjunction	6881 May 15 10:14	28° 8 07'05	-0°36'25
opposition	6874 Oct 21 02:06	2° 8 15'22 -		minimum elong	6881 May 15 10:14	28° 8 07'05	
direct	6875 Jan 05 16:55	0° 8 17'58	0 00 10	max. Earth dist.	6881 May 16 04:51	_	21.08035 AU
evening set	6875 Apr 06 14:43	3° 8 20'19		morning rise	6881 May 31 07:18	29° 8 01'19	21.00000 110
e venning see	0073 Tip1 00 Ti.13	3 02019		morning rise	6881 Jun 18 13:07	0°II	
conjunction	6875 Apr 22 07:02	4° 8 14'26 -	-0°47'34	retrograde	6881 Sep 01 20:16	2° Ⅱ 06'47	
minimum elong	6875 Apr 22 07:02	4°814'26		opposition	6881 Nov 18 16:45	0° П 08'15	-0°38'50
max. Earth dist.	6875 Apr 23 00:05	_	20.94445 AU	min. Earth dist.	6881 Nov 17 22:24		19.08584 AU
morning rise	6875 May 08 00:42	5° 8 08'45	20.74443 110	mm. Earth dist.	6881 Nov 22 03:28	30°R₩	17.00304710
retrograde	6875 Aug 08 21:25	8° 8 14'53		direct	6882 Feb 02 18:21	28° 8 11'45	
opposition	6875 Oct 25 12:19	6° 8 16'32 -	-0°51'51	411001	6882 Apr 11 10:51	0°II	
min. Earth dist.	6875 Oct 24 19:07		18.96126 AU	evening set	6882 May 03 19:28	1° Ⅱ 10'44	
direct	6876 Jan 10 02:43	4° 8 19'18	10.90120110	evening sec	0002 1114, 05 17:20		
evening set	6876 Apr 09 19:24	7° 8 20'56		conjunction	6882 May 19 14:37	2° ∏ 04'38	-0°33'54
	**************************************	, 0====		minimum elong	6882 May 19 14:37	2°П04'38	
conjunction	6876 Apr 25 11:56	8° 8 14'57 -	-0°46'13	max. Earth dist.	6882 May 20 09:17		21.08968 AU
minimum elong	6876 Apr 25 11:56	8° 8 14'57		morning rise	6882 Jun 04 12:22	2° I 58'55	
max. Earth dist.	6876 Apr 26 05:23	8° 8 17'28 2	20.97646 AU	retrograde	6882 Sep 06 02:26	6° Ⅱ 04'26	
morning rise	6876 May 11 06:05	9° 8 09'13		min. Earth dist.	6882 Nov 22 07:25	4° Ⅱ 07'37	19.09303 AU
retrograde	6876 Aug 12 04:18	12° 8 15'07		opposition	6882 Nov 23 00:36	4° Ⅱ 05'54	-0°35'58
opposition	6876 Oct 28 22:10	10° 8 16'42 -	-0°50'15	direct	6883 Feb 06 23:24	2° ∏ 09'31	
min. Earth dist.	6876 Oct 28 05:46	10° 8 18'21		evening set	6883 May 07 23:28	5° Ⅱ 08'19	
direct	6877 Jan 13 09:39	8° 8 19'36					
evening set	6877 Apr 13 23:49	11° 8 20'36		conjunction	6883 May 23 19:16	6° Ⅱ 02'15	-0°31'13
				minimum elong	6883 May 23 19:16	6° Ⅱ 02'15	
conjunction	6877 Apr 29 16:42	12° 8 14'33 -	-0°44'40	max. Earth dist.	6883 May 24 13:37		21.09477 AU
minimum elong	6877 Apr 29 16:42	12° 8 14'33		morning rise	6883 Jun 08 17:45	6° Ⅱ 56'36	
max. Earth dist.	6877 Apr 30 10:28	12° 8 17'07 2		retrograde	6883 Sep 10 12:32	10° П 02'14	
morning rise	6877 May 15 11:20	13° 8 08'47		opposition	6883 Nov 27 08:16	8° П 03'41	-0°32'55
	6877 Jun 21 08:22	15°8		min. Earth dist.	6883 Nov 26 14:28		19.09573 AU
retrograde	6877 Aug 16 12:46	16° 8 14'28		direct	6884 Feb 11 05:44	6°П07'22	.7.07515 AU
. ca o grade	6877 Oct 14 11:08	15°R 8		evening set	6884 May 11 03:40	9° П 06'03	
opposition	6877 Nov 02 07:12	14° 8 16'01 -	-0°48'24	Croning Sot	500 : 111uy 11 05.70	, <u>1</u> 00 03	
min. Earth dist.	6877 Nov 02 07:12 6877 Nov 01 13:29	14° 8 17'47 1		conjunction	6884 May 27 00:05	10° Ⅱ 00'04	-0°28'24
direct	6878 Jan 17 17:46	12° 8 19'02	17.01/73 AU	minimum elong	6884 May 27 00:05	10° Д 00'04	
ancei	6878 Apr 12 07:41	12 8 1902		max. Earth dist.	6884 May 27 18:12		21.09494 AU
evening set	6878 Apr 18 04:02	15° 8 19'29		morning rise	6884 Jun 11 23:20	10 П 02 39 10° П 54'29	21.07474 AU
o , oming sec	5575 ripi 10 07.02	10 (1)2)			550 (Sun 11 25.20	10 <u>11</u> 3747	

retrograde	6884 Sep 13 19:05	14° Ⅱ 00'17	max. Earth dist.	6890 Jun 21 01:19	3°\$55'40 20.97993 AU
opposition	6884 Nov 30 15:57	14 Д 00 17 12° Д 01'41 -0°29'43	morning rise	6890 Jul 06 16:17	4°9548'59
min. Earth dist.	6884 Nov 29 23:42	12° Д 03'19 19.09331 AU	retrograde	6890 Oct 08 22:14	7°\$56'19
direct	6885 Feb 14 10:01	10° I 105′26	opposition	6890 Dec 25 12:56	5°\$56'49 -0°07'57
evening set	6885 May 15 08:13	13° Ⅱ 04'04	min. Earth dist.	6890 Dec 25 01:31	5°957'58 18.96239 AU
3	.,		direct	6891 Mar 10 21:26	3°959'48
conjunction	6885 May 31 05:20	13° Ц 58'09 -0°25'26	evening set	6891 Jun 08 17:33	6°959'24
minimum elong	6885 May 31 05:20	13° II 58'09 0°25'30	<u>0</u>		
max. Earth dist.	6885 May 31 22:39	14° Ⅱ 00′37 21.08989 AU	conjunction	6891 Jun 24 19:22	7°954'19 -0°05'31
morning rise	6885 Jun 16 05:22	14° I 52'40	minimum elong	6891 Jun 24 19:22	7°954'19 0°05'35
retrograde	6885 Sep 18 04:49	17° Ⅲ 58'39	behind sun begin	6891 Jun 24 12:59	7° 9 53'25
opposition	6885 Dec 04 23:20	15° Ⅲ 59'59 -0°26'22	behind sun end	6891 Jun 25 01:45	7° 9 55'12
min. Earth dist.	6885 Dec 04 06:57	16° Ⅲ 01'38 19.08538 AU	max. Earth dist.	6891 Jun 25 07:37	7°556'04 20.94398 AU
direct	6886 Feb 18 17:01	14° Ⅱ 03'43	morning rise	6891 Jul 11 00:29	8°549'42
evening set	6886 May 19 13:05	17° Ⅲ 02′23	retrograde	6891 Oct 13 08:15	11°957'26
_	•		opposition	6891 Dec 29 20:28	9°557'43 -0°04'03
conjunction	6886 Jun 04 10:53	17° Ⅲ 56'34 -0°22'21	min. Earth dist.	6891 Dec 29 09:01	9°558'53 18.92470 AU
minimum elong	6886 Jun 04 10:53	17° Ⅲ 56'34 0°22'24	direct	6892 Mar 14 03:46	8° 5 00'30
max. Earth dist.	6886 Jun 05 03:30	17° 耳 58'56 21.07896 AU	evening set	6892 Jun 12 00:30	11°500'31
morning rise	6886 Jun 20 11:42	18° Ⅲ 51'11	-		
retrograde	6886 Sep 22 11:52	21° Ⅲ 57′23	conjunction	6892 Jun 28 03:13	11°955'37 -0°01'58
opposition	6886 Dec 09 07:00	19° Ⅲ 58'37 -0°22'54	minimum elong	6892 Jun 28 03:12	11°955'37 0°02'02
min. Earth dist.	6886 Dec 08 16:20	20° Ⅲ 00′06 19.07149 AU	behind sun begin	6892 Jun 27 20:33	11° 9 54'42
direct	6887 Feb 22 21:23	18° Ⅲ 02'18	behind sun end	6892 Jun 28 09:51	11°956'33
evening set	6887 May 23 18:02	21° Ⅲ 01′00	max. Earth dist.	6892 Jun 28 14:56	11°957'18 20.90454 AU
_	•		morning rise	6892 Jul 14 09:09	12° 9 51'12
conjunction	6887 Jun 08 16:37	21° Ⅲ 55′18 -0°19′09	retrograde	6892 Oct 16 17:12	15°959'22
minimum elong	6887 Jun 08 16:37	21° II 55'18 0°19'13	opposition	6893 Jan 02 04:17	13°959'29 -0°00'06
max. Earth dist.	6887 Jun 09 08:12	21° Д 57'32 21.06225 AU	min. Earth dist.	6893 Jan 01 18:17	14°500'30 18.88366 AU
morning rise	6887 Jun 24 18:17	22° I I50'03	asc. node	6893 Jan 12 05:12	13°935'06
retrograde	6887 Sep 26 21:22	25° Ⅲ 56′29	direct	6893 Mar 18 09:23	12°502'03
opposition	6887 Dec 13 14:31	23° Ⅲ 57'35 -0°19'18	evening set	6893 Jun 16 08:05	15°902'34
min. Earth dist.	6887 Dec 12 23:51	23° Ⅲ 59'03 19.05180 AU	-		
direct	6888 Feb 27 04:33	22° Ⅲ 01′07	conjunction	6893 Jul 02 11:37	15°957'53 0°01'43
evening set	6888 May 26 23:26	24° Ⅲ 59'57	minimum elong	6893 Jul 02 11:37	15°957'53 0°01'40
			behind sun begin	6893 Jul 02 04:58	15° 9 56'57
conjunction	6888 Jun 11 22:48	25° Ⅲ 54'23 -0°15'51	behind sun end	6893 Jul 02 18:16	15° © 58'49
minimum elong	6888 Jun 11 22:49	25° II 54'23 0°15'55	max. Earth dist.	6893 Jul 02 22:09	15°559'23 20.86211 AU
behind sun begin	6888 Jun 11 21:56	25° Ⅲ 54'16	morning rise	6893 Jul 18 18:26	16°953'40
behind sun end	6888 Jun 11 23:41	25° Ⅲ 54'31	retrograde	6893 Oct 21 04:23	20° © 02'19
max. Earth dist.	6888 Jun 12 13:40	25° I I56'30 21.03972 AU	opposition	6894 Jan 06 12:08	18°902'16 0°03'51
morning rise	6888 Jun 28 01:20	26° Ⅱ 49'16	min. Earth dist.	6894 Jan 06 02:15	18°503'17 18.83977 AU
retrograde	6888 Sep 30 04:48	29° Ⅱ 55'58	direct	6894 Mar 22 16:08	16° 5 04'38
opposition	6888 Dec 16 21:57	27° II 56'52 -0°15'36	evening set	6894 Jun 20 16:16	19° 5 05'44
min. Earth dist.	6888 Dec 16 09:03	27° Ⅲ 58'10 19.02659 AU			
direct	6889 Mar 02 09:28	26° Ⅱ 00′16	conjunction	6894 Jul 06 20:39	20°501'16 0°05'18
evening set	6889 May 31 05:07	28° Ⅲ 59′16	minimum elong	6894 Jul 06 20:40	20°501'16 0°05'14
			behind sun begin	6894 Jul 06 14:13	20°900'22
conjunction	6889 Jun 16 05:19	29° Ⅱ 53'51 -0°12'28	behind sun end	6894 Jul 07 03:07	20° © 02'10
minimum elong	6889 Jun 16 05:19	29° Ⅲ 53'51 0°12'32	max. Earth dist.	6894 Jul 07 06:44	20°902'42 20.81678 AU
behind sun begin	6889 Jun 16 01:02	29° Ⅲ 53'15	morning rise	6894 Jul 23 04:16	20°957'16
behind sun end	6889 Jun 16 09:35	29° Ⅲ 54′27	retrograde	6894 Oct 25 14:07	24° © 06'28
max. Earth dist.	6889 Jun 16 19:06	29° I 55'49 21.01215 AU	opposition	6895 Jan 10 20:29	22° 5 06'16 0°07'48
	6889 Jun 18 00:15	0ං ව	min. Earth dist.	6895 Jan 10 12:02	22°507'08 18.79310 AU
morning rise	6889 Jul 02 08:43	0° 5 48'53	direct	6895 Mar 26 22:04	20° © 08′26
retrograde	6889 Oct 04 14:13	3° © 55'52	evening set	6895 Jun 25 01:02	23° © 10'11
opposition	6889 Dec 21 05:21	1°956'35 -0°11'48			
min. Earth dist.	6889 Dec 20 16:27	1° 5 57'53 18.99662 AU	conjunction	6895 Jul 11 06:19	24°905'57 0°08'51
	6890 Mar 03 15:33	30° Ŗ Ⅱ	minimum elong	6895 Jul 11 06:19	24°\$05'57 0°08'47
direct	6890 Mar 06 16:03	29° Ⅱ 59'46	behind sun begin	6895 Jul 11 00:34	24° © 05'09
	6890 Mar 09 16:06	0ං ම	behind sun end	6895 Jul 11 12:04	24° © 06'46
evening set	6890 Jun 04 11:05	2° © 59'02	max. Earth dist.	6895 Jul 11 15:03	24°507'12 20.76893 AU
			morning rise	6895 Jul 27 14:50	25° © 02'11
conjunction	6890 Jun 20 12:04	3°553'46 -0°09'01	retrograde	6895 Oct 30 02:53	28°911'59
minimum elong	6890 Jun 20 12:04	3°553'46 0°09'06	opposition	6896 Jan 15 05:06	26°9511'38 0°11'44
behind sun begin	6890 Jun 20 06:25	3° © 52'59	min. Earth dist.	6896 Jan 14 21:02	26°512'28 18.74387 AU
behind sun end	6890 Jun 20 17:42	3° 9 54'34	direct	6896 Mar 30 05:38	24°9513'36

evening set	6896 Jun 28 10:47	27° © 16'05		direct	6902 Apr 25 11:00	19° Ω 18'16	
				evening set	6902 Jul 25 15:25	22° Ω 26′15	
conjunction	6896 Jul 14 16:58	28° © 12'07					
minimum elong	6896 Jul 14 16:58	28° © 12'07	0°12'19	conjunction	6902 Aug 11 02:35	23° Ω 23'57	
behind sun begin	6896 Jul 14 12:35	28° © 11'30		minimum elong	6902 Aug 11 02:35	23° Ω 23'57	
behind sun end	6896 Jul 14 21:21	28° © 12'44		max. Earth dist.	6902 Aug 11 01:42		20.35096 AU
max. Earth dist.	6896 Jul 15 01:05		20.71828 AU	morning rise	6902 Aug 27 16:00	24° Ω 22'02	
morning rise	6896 Jul 31 02:13	29° © 08'35		retrograde	6902 Nov 30 03:34	27° Ω 36'27	
	6896 Aug 15 19:20	0 $^{\circ}\Omega$		opposition	6903 Feb 14 05:57	25° Ω 34'53	0°37'08
retrograde	6896 Nov 02 13:35	2° Ω 18'59		min. Earth dist.	6903 Feb 14 07:27	25° Ω 34'44	18.31614 AU
opposition	6897 Jan 18 14:00	0° Ω 18'33	0°15'38	direct	6903 Apr 29 21:43	23° Ω 34'41	
min. Earth dist.	6897 Jan 18 07:38		18.69180 AU	evening set	6903 Jul 30 07:14	26° Ω 43'42	
	6897 Jan 26 02:27	30° ₹ ∽				_	
direct	6897 Apr 03 12:24	28° © 20'18		conjunction	6903 Aug 15 19:02	27° Ω 41'42	0°34'53
	6897 Jun 06 11:19	0 \circ Ω		minimum elong	6903 Aug 15 19:02	27° Ω 41'42	
evening set	6897 Jul 02 21:22	1° Ω 23'35		max. Earth dist.	6903 Aug 15 15:46		20.28141 AU
		_		morning rise	6903 Sep 01 09:12	28° Ω 40'04	
conjunction	6897 Jul 19 04:22	2° Ω 19'52	0°15'52		6903 Sep 25 22:29	0°Щ	
minimum elong	6897 Jul 19 04:22	2° Ω 19'52	0°15'48	retrograde	6903 Dec 04 20:41	1° m 55'10	
behind sun begin	6897 Jul 19 03:33	2° Ω 19'45			6904 Feb 16 03:21	30°R Ω	
behind sun end	6897 Jul 19 05:10	2° Ω 19'59		opposition	6904 Feb 18 18:20	29° Ω 53′21	0°40'12
max. Earth dist.	6897 Jul 19 10:40		20.66489 AU	min. Earth dist.	6904 Feb 18 21:05		18.24620 AU
morning rise	6897 Aug 04 14:29	3° Ω 16'36		direct	6904 May 03 10:05	27° Ω 52'43	
retrograde	6897 Nov 07 03:28	6° Ω 27'40			6904 Jul 15 01:33	0°Щ	
opposition	6898 Jan 22 23:25	4° Ω 27'05	0°19'28	evening set	6904 Aug 02 23:56	1° ™ 02'49	
min. Earth dist.	6898 Jan 22 17:50		18.63689 AU				
direct	6898 Apr 07 20:48	2° Ω 28'36		conjunction	6904 Aug 19 12:35	2°Mp01'08	0°37'32
evening set	6898 Jul 07 08:43	5° Ω 32'46		minimum elong	6904 Aug 19 12:35	2°m/01'08	0°37'30
		_		max. Earth dist.	6904 Aug 19 08:57		20.21112 AU
conjunction	6898 Jul 23 16:36	6° Ω 29'19	0°19'18	morning rise	6904 Sep 05 03:05	2° m 59'46	
minimum elong	6898 Jul 23 16:36	6° Ω 29'19	0°19'15	retrograde	6904 Dec 08 12:57	6° Mp 15'31	
max. Earth dist.	6898 Jul 23 22:07		20.60828 AU	opposition	6905 Feb 22 07:09	4° Mp 13′29	0°43'04
morning rise	6898 Aug 09 03:20	7° Ω 26′19		min. Earth dist.	6905 Feb 22 10:55		18.17586 AU
retrograde	6898 Nov 11 15:50	10° Ω 38′03		direct	6905 May 07 22:00	2°M) 12'27	
opposition	6899 Jan 27 09:26	8° Ω 37'20	0°23'14	evening set	6905 Aug 07 17:38	5° ™ 23'39	
min. Earth dist.	6899 Jan 27 05:36		18.57864 AU				
direct	6899 Apr 12 05:02	6° Ω 38'36		conjunction	6905 Aug 24 06:46	6° Mp 22'16	0°40'00
evening set	6899 Jul 11 21:09	9° Ω 43'39		minimum elong	6905 Aug 24 06:46	6°₩22'16	0°39'59
				max. Earth dist.	6905 Aug 24 00:48	~	20.14097 AU
conjunction	6899 Jul 28 05:48	10° Ω 40′29	0°22'39	morning rise	6905 Sep 09 21:54	7° m/21'10	
minimum elong	6899 Jul 28 05:48	10° Ω 40′29	0°22'35	retrograde	6905 Dec 13 07:01	10° Mp 37′37	
max. Earth dist.	6899 Jul 28 09:01		20.54846 AU	opposition	6906 Feb 26 20:42	8° My 35'21	0°45'41
morning rise	6899 Aug 13 17:23	11° Ω 37'45		min. Earth dist.	6906 Feb 27 01:41		18.10610 AU
retrograde	6899 Nov 16 06:39	14° Ω 50′10	0000155	direct	6906 May 12 11:55	6° My 33'54	
opposition	6900 Jan 31 19:48	12° Ω 49'16	0°26'55	evening set	6906 Aug 12 11:55	9° m 46'15	
min. Earth dist.	6900 Jan 31 17:05		18.51717 AU			100% 45110	0040114
direct	6900 Apr 16 14:31	10° Ω 50'13		conjunction	6906 Aug 29 01:52	10° mp 45'10	0°42'14
evening set	6900 Jul 16 10:24	13° Ω 56′13		minimum elong	6906 Aug 29 01:51	10° mp 45'10	0°42'12
	(000 A 01 20 00	1.40 0.5005	0025154	max. Earth dist.	6906 Aug 28 19:54		20.07157 AU
conjunction	6900 Aug 01 20:00	14° Ω 53'21	0°25'54	morning rise	6906 Sep 14 17:13	11° mp 44'21	
minimum elong	6900 Aug 01 19:59	14° Ω 53'21	0°25'52	retrograde	6906 Dec 18 00:27	15° m 01'29	0040102
max. Earth dist.	6900 Aug 01 22:13		20.48526 AU	opposition	6907 Mar 03 10:53	12° Mp 59'01	0°48'03
	6900 Aug 03 17:31	15° Ω		min. Earth dist.	6907 Mar 03 16:29		18.03729 AU
morning rise	6900 Aug 18 08:10	15° Ω 50'52		direct	6907 May 17 01:48	10° m 57'12	
retrograde	6900 Nov 20 20:34	19° Ω 03'57	0020120	evening set	6907 Aug 17 07:30	14° Mp 10'43	
opposition	6901 Feb 05 06:45	17° Ω 02'52	0°30'28		6007.G 02.21.52	1.50 m. 0015 ć	0044114
min. Earth dist.	6901 Feb 05 05:43		18.45241 AU	conjunction	6907 Sep 02 21:52	15° Mp 09'56	0°44'14
direct	6901 Apr 21 00:11	15° Ω 03′27		minimum elong	6907 Sep 02 21:52	15° Mp 09'56	0°44'13
evening set	6901 Jul 21 00:32	18° Ω 10′25		max. Earth dist.	6907 Sep 02 13:35		20.00352 AU
	COO1 A OC 10 40	100 00000	0920102	morning rise	6907 Sep 19 13:45	16° Mp 09'23	
conjunction	6901 Aug 06 10:48	19° Ω 07'50	0°29'03	retrograde	6907 Dec 22 19:12	19° Mp 27'13	0950100
minimum elong	6901 Aug 06 10:48	19° Ω 07'50	0°29'00	opposition	6908 Mar 07 01:39	17° m 24'34	0°50'09
max. Earth dist.	6901 Aug 06 10:33		20.41923 AU	min. Earth dist.	6908 Mar 07 08:37		17.97018 AU
morning rise	6901 Aug 22 23:44	20° Ω 05'38		direct	6908 May 20 16:54	15° Mp 22'23	
retrograde	6901 Nov 25 12:25	23° Ω 19'23	00001	evening set	6908 Aug 21 03:55	18° m 37'07	
opposition min. Earth dist.	6902 Feb 09 18:05 6902 Feb 09 18:15	21°Ω18'04	0°33'53 18.38519 AU		6908 Sep 06 18:58	100*** * ***	0045:50
				conjunction		19° m 36'38	

minimum elong	6908 Sep 06 18:58	19° m 36'38	0°45'58	opposition	6915 Apr 08 05:45	19° ჲ 19'00	0°56'03
max. Earth dist.	6908 Sep 06 10:42	-	19.93726 AU	min. Earth dist.	6915 Apr 08 19:09		17.55545 AU
morning rise	6908 Sep 23 10:58	20° m/36'21		direct	6915 Jun 22 04:55	17° £ 14'40	
retrograde	6908 Dec 26 14:27	23° m 54'51		evening set	6915 Sep 24 05:20	20° ≏ 37'41	
opposition	6909 Mar 11 17:10	21° m/52'06	0°51'58	C	•		
min. Earth dist.	6909 Mar 12 00:32	21° m 51'18	17.90489 AU	conjunction	6915 Oct 10 22:07	21° ≏ 38'59	0°50'06
direct	6909 May 25 09:03	19° m 49'36		minimum elong	6915 Oct 10 22:07	21° ≏ 38'59	0°50'08
evening set	6909 Aug 26 01:20	23° m 05'32		max. Earth dist.	6915 Oct 10 04:46	21° ≏ 36'19	19.52978 AU
				morning rise	6915 Oct 27 14:07	22° ≏ 40'13	
conjunction	6909 Sep 11 16:39	24° m 05'21	0°47'28	retrograde	6916 Jan 28 22:16	26° ≏ 02'43	
minimum elong	6909 Sep 11 16:39	24° Mp 05'21	0°47'27	opposition	6916 Apr 12 02:13	23° ჲ 59'29	0°55'28
max. Earth dist.	6909 Sep 11 06:11	24° Mp 03'46	19.87303 AU	min. Earth dist.	6916 Apr 12 17:27	23° ♀ 57'49	17.50547 AU
morning rise	6909 Sep 28 09:00	25° m 05'19		direct	6916 Jun 26 02:05	21° ≏ 54'49	
retrograde	6909 Dec 31 09:58	28° m 24'31		evening set	6916 Sep 28 08:33	25° ≙ 18'51	
opposition	6910 Mar 16 09:29	26° Mp 21'40	0°53'29	max. Earth dist.	6916 Oct 14 07:16	26° ≏ 17'33	19.48162 AU
min. Earth dist.	6910 Mar 16 18:25	26° Mp 20'42	17.84180 AU				
direct	6910 May 30 01:22	24° m 18'51		conjunction	6916 Oct 15 01:19	26° ≏ 20'21	0°49'24
evening set	6910 Aug 30 23:41	27° Mp 36'03		minimum elong	6916 Oct 15 01:19	26° ≏ 20'21	0°49'25
				morning rise	6916 Oct 31 17:04	27° ≏ 21'44	
conjunction	6910 Sep 16 15:34	28° Mp 36'09	0°48'40		6916 Dec 23 04:54	0°M	
minimum elong	6910 Sep 16 15:34	28° Mp 36'09	0°48'41	retrograde	6917 Feb 01 22:56	0°M44'36	
max. Earth dist.	6910 Sep 16 05:03	28° Mp 34'33	19.81094 AU		6917 Mar 15 10:02	30° ₹ Ω	
morning rise	6910 Oct 03 07:55	29° m 36'22		opposition	6917 Apr 16 23:12	28° ≙ 41'17	0°54'32
	6910 Oct 10 01:54	0∘ ಹ		min. Earth dist.	6917 Apr 17 14:04	28° ഫ 39'39	17.45922 AU
retrograde	6911 Jan 05 07:14	2° ≏ 56'13		direct	6917 Jul 01 01:52	26° £ 36'19	
opposition	6911 Mar 21 02:22	0° ჲ 53'19	0°54'41	evening set	6917 Oct 03 12:06	0°M01'17	
min. Earth dist.	6911 Mar 21 11:42		17.78069 AU		6917 Oct 03 03:37	0°M₊	
	6911 Apr 11 08:14	30°R, Mp		max. Earth dist.	6917 Oct 19 10:20	1°M00'05	19.43740 AU
direct	6911 Jun 03 19:43	28° m 50'13					
	6911 Jul 25 21:41	0∘ ⊽		conjunction	6917 Oct 20 04:46	1°M02'57	0°48'22
evening set	6911 Sep 04 23:12	2° ≏ 08'39		minimum elong	6917 Oct 20 04:46	1°M02'57	0°48'24
				morning rise	6917 Nov 05 20:04	2°M04'28	
conjunction	6911 Sep 21 15:17	3° ₾ 09'01	0°49'35	retrograde	6918 Feb 06 22:27	5°M27'38	
minimum elong	6911 Sep 21 15:17	3° ₽ 09'01	0°49'36	opposition	6918 Apr 21 20:55	3°M24'15	0°53'12
max. Earth dist.	6911 Sep 21 02:27	3° ₽ 07'04	19.75073 AU	min. Earth dist.	6918 Apr 22 13:10		17.41735 AU
morning rise	6911 Oct 08 07:50	4° £ 09'28		direct	6918 Jul 06 00:17	1°M18'59	
retrograde	6912 Jan 10 03:50	7° £ 29'58	0055122	evening set	6918 Oct 08 16:12	4°M44'50	
opposition	6912 Mar 24 20:12	5° £ 27'00	0°55'33		(010.0 + 25.00.20	50 m 46120	0047100
min. Earth dist.	6912 Mar 25 07:29		17.72147 AU	conjunction	6918 Oct 25 08:38	5°M46'38	
direct	6912 Jun 07 13:38	3° £ 23'36		minimum elong	6918 Oct 25 08:38	5°M46'38	
evening set	6912 Sep 08 23:32	6° £ 43'15		max. Earth dist. morning rise	6918 Oct 24 13:27 6918 Nov 10 23:38	6°M48'16	19.39803 AU
conjunction	6012 San 25 16:00	7° ≙ 43'53	0°50'12	•		10°M11'39	
conjunction minimum elong	6912 Sep 25 16:00 6912 Sep 25 16:00	7° £ 43′53	0°50'13	retrograde opposition	6919 Feb 11 23:21 6919 Apr 26 18:51	8°M08'14	0°51'31
max. Earth dist.	6912 Sep 25 10:00		19.69232 AU	min. Earth dist.	6919 Apr 27 10:31		17.38057 AU
morning rise	6912 Oct 12 08:25	8° £ 44'33	19.09232 AU	direct	6919 Jul 11 00:58	6°M02'42	17.38037 AU
retrograde	6913 Jan 14 02:35	12° £ 05'37		evening set	6919 Oct 13 20:39	9°M29'21	
opposition	6913 Mar 29 14:38	12 ⊆ 0337 10° ⊆ 02'36	0°56'05	evening set	0)1) 001 13 20.3)) 1102)21	
min. Earth dist.	6913 Mar 30 02:08		17.66394 AU	conjunction	6919 Oct 30 12:55	10°M31'17	0°45'18
direct	6913 Jun 12 10:31	7° £ 58'55	17.0003	minimum elong	6919 Oct 30 12:55	10°M31'17	0°45'21
evening set	6913 Sep 14 00:50	11° ⊆ 19'44		max. Earth dist.	6919 Oct 29 18:08		19.36389 AU
	.,p			morning rise	6919 Nov 16 03:16	11°M32'59	
conjunction	6913 Sep 30 17:22	12° £ 20'36	0°50'30	retrograde	6920 Feb 16 23:20	14°M56'33	
minimum elong	6913 Sep 30 17:22	12° £ 20'36		opposition	6920 Apr 30 17:34	12°M53'07	0°49'27
max. Earth dist.	6913 Sep 30 02:02		19.63571 AU	min. Earth dist.	6920 May 01 10:08		17.34934 AU
morning rise	6913 Oct 17 09:45	13° £ 21'29		direct	6920 Jul 15 00:47	10°M47'23	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
retrograde	6914 Jan 18 23:55	16° £ 43'05		evening set	6920 Oct 18 01:23	14°M14'45	
opposition	6914 Apr 03 09:57	14° £ 40′00	0°56'15	5	6920 Oct 30 06:04	15° ™	
min. Earth dist.	6914 Apr 03 23:23		17.60849 AU			***	
direct	6914 Jun 17 06:04	12° ≙ 35'58		conjunction	6920 Nov 03 17:09	15°M16'45	0°43'18
evening set	6914 Sep 19 02:36	15° ≙ 57'55		minimum elong	6920 Nov 03 17:09	15°M16'45	
Č				max. Earth dist.	6920 Nov 02 21:34		19.33573 AU
conjunction	6914 Oct 05 19:22	16° ≏ 59'01	0°50'28	morning rise	6920 Nov 20 07:02	16°M18'30	
minimum elong	6914 Oct 05 19:22	16° ≏ 59'01	0°50'29	retrograde	6921 Feb 20 23:45	19°M42'13	
max. Earth dist.	6914 Oct 05 03:28	16° ≏ 56'34	19.58144 AU	opposition	6921 May 05 16:37	17° M 38'48	0°47'03
morning rise	6914 Oct 22 11:37	18° ≏ 00'05		min. Earth dist.	6921 May 06 08:21	17°M37'04	17.32435 AU
retrograde	6915 Jan 23 23:52	21° ≏ 22'10		direct	6921 Jul 20 02:37	15°M32'54	

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evening set	6921 Oct 23 06:15	19° M 00'54		minimum elong	6927 Dec 09 00:06	18° ∡ ¹49'02	0°21'53
-				morning rise	6927 Dec 25 08:17	19° ∡ 50′24	
conjunction	6921 Nov 08 21:44	20°ML02'58	0°40'59	retrograde	6928 Mar 26 04:57	23° ∡ 13'21	
minimum elong	6921 Nov 08 21:44	20°M02'58	0°41'02	opposition	6928 Jun 07 20:41	21° ∡ 10'54	0°22'13
max. Earth dist.	6921 Nov 08 03:19	20°M00'05	19.31391 AU	min. Earth dist.	6928 Jun 08 10:43	21° ₹ ′09′22	17.31614 AU
morning rise	6921 Nov 25 10:48	21°M04'44		direct	6928 Aug 23 01:02	19° ∡ 04'59	
retrograde	6922 Feb 26 00:06	24°M28'31		evening set	6928 Nov 26 16:54	22° х 34′36	
opposition	6922 May 10 16:12	22°M25'11	0°44'20	max. Earth dist.	6928 Dec 12 10:46	23° х ⁴33'39	19.32485 AU
min. Earth dist.	6922 May 11 08:18	22° M $_23'25$	17.30577 AU				
direct	6922 Jul 25 04:09	20°M19'12		conjunction	6928 Dec 13 03:20	23° х 36′15	0°17'57
evening set	6922 Oct 28 11:22	23°M47'45		minimum elong	6928 Dec 13 03:20	23° х 36′15	0°18'02
max. Earth dist.	6922 Nov 13 06:59	24°M46'50	19.29869 AU	morning rise	6928 Dec 29 10:35	24° ∡ ³37′27	
				retrograde	6929 Mar 31 04:24	28° ₹ 00'03	
conjunction	6922 Nov 14 02:14	24°M49'51	0°38'24	opposition	6929 Jun 12 22:05	25° ₹ 57'43	0°17'50
minimum elong	6922 Nov 14 02:14	24°M49'51	0°38'27	min. Earth dist.	6929 Jun 13 12:13		17.33505 AU
morning rise	6922 Nov 30 14:49	25°M51'37		direct	6929 Aug 28 03:38	23° ∡ ′51′52	
retrograde	6923 Mar 03 00:24	29°M15'27		evening set	6929 Dec 01 20:34	27° ∡ ²21'15	
opposition	6923 May 15 16:08	27°M12'13	0°41'17				
min. Earth dist.	6923 May 16 07:36		17.29372 AU	conjunction	6929 Dec 18 06:09		0°13'59
direct	6923 Jul 30 07:15	25°M06'10		minimum elong	6929 Dec 18 06:09	28° ₹ 22'44	0°14'02
evening set	6923 Nov 02 16:34	28°M35'13		behind sun begin	6929 Dec 18 02:51	28° ≯ 22'13	
				behind sun end	6929 Dec 18 09:27	28° ₹ 23'14	
conjunction	6923 Nov 19 07:00	29°M37'18	0°35'32	max. Earth dist.	6929 Dec 17 14:42		19.34609 AU
minimum elong	6923 Nov 19 07:00	29°M37'18	0°35'36	morning rise	6930 Jan 03 12:27	29° ∡ ²23'44	
max. Earth dist.	6923 Nov 18 13:12		19.28969 AU		6930 Jan 13 13:08	0° る	
	6923 Nov 25 07:25	0°⊀		retrograde	6930 Apr 05 05:16	2° る 45'54	
morning rise	6923 Dec 05 18:38	0° ∡ ³39'02		opposition	6930 Jun 17 23:10	0° る 43'42	
retrograde	6924 Mar 07 01:06	4° ∡ *02'49		min. Earth dist.	6930 Jun 18 11:55		17.35844 AU
opposition	6924 May 19 16:28	1° ₹ 59'45	0°37'57		6930 Jul 05 03:41	30°Ŗ ⋌ ¹	
min. Earth dist.	6924 May 20 08:02		17.28764 AU	direct	6930 Sep 02 08:28	28° ⋌ 37'55	
	6924 Jul 19 01:30	30°RM.			6930 Oct 29 06:47	0°る	
direct	6924 Aug 03 10:16	29°M53'43		evening set	6930 Dec 06 23:43	2° る 06'57	
	6924 Aug 18 16:44	0°⊀¹			(020 D	20-700114	0000155
evening set	6924 Nov 06 21:56	3° ҂ 23′07		conjunction	6930 Dec 23 08:21	3° る 08'14	0°09'55
	(024) 22 11 22	40 705111	0022125	minimum elong	6930 Dec 23 08:21	3°る08'14	0°10'00
conjunction	6924 Nov 23 11:32	4° 🗷 25'11	0°32'25	behind sun begin	6930 Dec 23 02:57	3°る07'25 3°る09'04	
minimum elong	6924 Nov 23 11:32	4° ₹25'11	0°32'29	behind sun end	6930 Dec 23 13:45		10.27170 ATT
max. Earth dist.	6924 Nov 22 16:55		19.28657 AU	max. Earth dist.	6930 Dec 22 17:36		19.37179 AU
morning rise	6924 Dec 09 22:30	5°×726'51		morning rise	6931 Jan 08 13:40	4° る 09'03	
retrograde opposition	6925 Mar 12 01:48 6925 May 24 17:13	8° ₹ 50'33 6° ₹ 47'38	0°34'21	retrograde opposition	6931 Apr 10 03:15 6931 Jun 23 00:20	7°る30'43 5°る28'39	0000145
min. Earth dist.	6925 May 25 08:28		17.28735 AU	min. Earth dist.	6931 Jun 23 13:14		17.38646 AU
direct	6925 Aug 08 13:43	6 x · 43 38 4° x ⁷ 41 '36	17.28733 AU	direct	6931 Sep 07 10:33	3° る 2713	17.38040 AU
evening set	6925 Nov 12 02:53	8° ₹ 11'15		evening set	6931 Dec 12 02:05	5 3 2237 6° 3 51'32	
evening set	0923 NOV 12 02.33	0 X-1113		evening set	0931 Dec 12 02.03	0 03132	
conjunction	6925 Nov 28 15:56	9° ⊀ 13'15	0°29'05	conjunction	6931 Dec 28 09:42	7° る 52'36	0°05'48
minimum elong	6925 Nov 28 15:57	9° × 13'15	0°29'09	minimum elong	6931 Dec 28 09:42	7° る 52'36	
max. Earth dist.	6925 Nov 27 22:48		19.28891 AU	behind sun begin	6931 Dec 28 03:19	7° る 52'30	3 03 32
morning rise	6925 Dec 15 01:56	10°×714'51	17.20071710	behind sun end	6931 Dec 28 16:05	7° る 53'34	
retrograde	6926 Mar 17 03:06	13° ∡ 38′22		max. Earth dist.	6931 Dec 27 19:55		19.40221 AU
opposition	6926 May 29 18:14	11° 🗷 35'37	0°30'31			8°る53'11	->5221 110
min. Earth dist.				morning rise	6932 Ian 13 14:04	8.503311	
	-			morning rise	6932 Jan 13 14:04 6932 Apr 14 03:14		
	6926 May 30 09:08	11° ₹ 34'00	17.29213 AU	retrograde	6932 Apr 14 03:14	12° る 14'20	0°04'08
direct	6926 May 30 09:08 6926 Aug 13 17:32	11° х 34′00 9° х 29′38		retrograde opposition	6932 Apr 14 03:14 6932 Jun 27 01:09	12°පි14'20 10°පි12'22	
	6926 May 30 09:08	11° ₹ 34'00		retrograde	6932 Apr 14 03:14 6932 Jun 27 01:09 6932 Jun 27 12:07	12°පි14'20 10°පි12'22 10°පි11'11	0°04'08 17.41916 AU
direct evening set	6926 May 30 09:08 6926 Aug 13 17:32 6926 Nov 17 08:00	11° 尽 34′00 9° 尽 29′38 12° 尽 59′22	17.29213 AU	retrograde opposition min. Earth dist. direct	6932 Apr 14 03:14 6932 Jun 27 01:09 6932 Jun 27 12:07 6932 Sep 11 15:19	12°314'20 10°312'22 10°311'11 8°306'47	
direct	6926 May 30 09:08 6926 Aug 13 17:32	11° х 34′00 9° х 29′38		retrograde opposition min. Earth dist.	6932 Apr 14 03:14 6932 Jun 27 01:09 6932 Jun 27 12:07	12°පි14'20 10°පි12'22 10°පි11'11	
direct evening set conjunction minimum elong	6926 May 30 09:08 6926 Aug 13 17:32 6926 Nov 17 08:00 6926 Dec 03 20:08 6926 Dec 03 20:08	11° ₹34'00 9° ₹29'38 12° ₹59'22 14° ₹01'17	17.29213 AU 0°25'32 0°25'36	retrograde opposition min. Earth dist. direct evening set	6932 Apr 14 03:14 6932 Jun 27 01:09 6932 Jun 27 12:07 6932 Sep 11 15:19 6932 Dec 16 03:39	12°ব14'20 10°ব12'22 10°ব11'11 8°ব06'47 11°ব34'49	17.41916 AU
direct evening set conjunction minimum elong max. Earth dist.	6926 May 30 09:08 6926 Aug 13 17:32 6926 Nov 17 08:00 6926 Dec 03 20:08	11° ₹34'00 9° ₹29'38 12° ₹59'22 14° ₹01'17	17.29213 AU 0°25'32	retrograde opposition min. Earth dist. direct	6932 Apr 14 03:14 6932 Jun 27 01:09 6932 Jun 27 12:07 6932 Sep 11 15:19	12°314'20 10°312'22 10°311'11 8°306'47	
direct evening set conjunction minimum elong max. Earth dist. morning rise	6926 May 30 09:08 6926 Aug 13 17:32 6926 Nov 17 08:00 6926 Dec 03 20:08 6926 Dec 03 02:19 6926 Dec 20 05:20	11° ₹34′00 9° ₹29′38 12° ₹59′22 14° ₹01′17 14° ₹01′17 13° ₹58′29 15° ₹02′47	17.29213 AU 0°25'32 0°25'36	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	6932 Apr 14 03:14 6932 Jun 27 01:09 6932 Jun 27 12:07 6932 Sep 11 15:19 6932 Dec 16 03:39 6933 Jan 01 10:18 6933 Jan 01 10:18	12° 14'20 10° 12'22 10° 311'11 8° 306'47 11° 334'49 12° 35'38 12° 35'38	17.41916 AU 0°01'38
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	6926 May 30 09:08 6926 Aug 13 17:32 6926 Nov 17 08:00 6926 Dec 03 20:08 6926 Dec 03 02:19	11°₹34′00 9°₹29′38 12°₹59′22 14°₹01′17 14°₹01′17	17.29213 AU 0°25'32 0°25'36	retrograde opposition min. Earth dist. direct evening set conjunction	6932 Apr 14 03:14 6932 Jun 27 01:09 6932 Jun 27 12:07 6932 Sep 11 15:19 6932 Dec 16 03:39 6933 Jan 01 10:18	12° 14'20 10° 12'22 10° 311'11 8° 306'47 11° 334'49	17.41916 AU 0°01'38
direct evening set conjunction minimum elong max. Earth dist. morning rise	6926 May 30 09:08 6926 Aug 13 17:32 6926 Nov 17 08:00 6926 Dec 03 20:08 6926 Dec 03 02:19 6926 Dec 20 05:20 6927 Mar 22 03:35 6927 Jun 03 19:20	11° \$\tilde{\pi} 34'00 9° \$\tilde{\pi} 29'38 12° \$\tilde{\pi} 59'22 14° \$\tilde{\pi} 01'17 14° \$\tilde{\pi} 01'17 13° \$\tilde{\pi} 58'29 15° \$\tilde{\pi} 02'47 18° \$\tilde{\pi} 26'03 16° \$\tilde{\pi} 23'27	17.29213 AU 0°25'32 0°25'36 19.29619 AU 0°26'28	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end	6932 Apr 14 03:14 6932 Jun 27 01:09 6932 Jun 27 12:07 6932 Sep 11 15:19 6932 Dec 16 03:39 6933 Jan 01 10:18 6933 Jan 01 03:37 6933 Jan 01 03:37 6933 Jan 01 16:59	12°る14'20 10°る12'22 10°る11'11 8°る06'47 11°る34'49 12°る35'38 12°る35'38 12°る34'37 12°る36'39	17.41916 AU 0°01'38 0°01'42
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	6926 May 30 09:08 6926 Aug 13 17:32 6926 Nov 17 08:00 6926 Dec 03 20:08 6926 Dec 03 02:19 6926 Dec 20 05:20 6927 Mar 22 03:35 6927 Jun 03 19:20 6927 Jun 04 10:17	11° \$\tilde{\pi} 34'00 9° \$\tilde{\pi} 29'38 12° \$\tilde{\pi} 59'22 14° \$\tilde{\pi} 01'17 14° \$\tilde{\pi} 01'17 13° \$\tilde{\pi} 58'29 15° \$\tilde{\pi} 02'47 18° \$\tilde{\pi} 26'03 16° \$\tilde{\pi} 23'27	17.29213 AU 0°25'32 0°25'36 19.29619 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist.	6932 Apr 14 03:14 6932 Jun 27 01:09 6932 Jun 27 12:07 6932 Sep 11 15:19 6932 Dec 16 03:39 6933 Jan 01 10:18 6933 Jan 01 10:18 6933 Jan 01 03:37	12°る14'20 10°る12'22 10°る11'11 8°る06'47 11°る34'49 12°る35'38 12°る35'38 12°る34'37 12°る36'39	17.41916 AU 0°01'38
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6926 May 30 09:08 6926 Aug 13 17:32 6926 Nov 17 08:00 6926 Dec 03 20:08 6926 Dec 03 02:19 6926 Dec 20 05:20 6927 Mar 22 03:35 6927 Jun 03 19:20	11° ₹34'00 9° ₹29'38 12° ₹59'22 14° ₹01'17 14° ₹01'17 13° ₹58'29 15° ₹02'47 18° ₹26'03 16° ₹23'27 16° ₹21'49	17.29213 AU 0°25'32 0°25'36 19.29619 AU 0°26'28	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end	6932 Apr 14 03:14 6932 Jun 27 01:09 6932 Jun 27 12:07 6932 Sep 11 15:19 6932 Dec 16 03:39 6933 Jan 01 10:18 6933 Jan 01 10:18 6933 Jan 01 03:37 6933 Jan 01 16:59 6932 Dec 31 22:10	12° \overline{314'20} 10° \overline{312'22} 10° \overline{311'11} 8° \overline{306'47} 11° \overline{334'49} 12° \overline{335'38} 12° \overline{335'38} 12° \overline{336'39} 12° \overline{333'45}	17.41916 AU 0°01'38 0°01'42
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6926 May 30 09:08 6926 Aug 13 17:32 6926 Nov 17 08:00 6926 Dec 03 20:08 6926 Dec 03 02:19 6926 Dec 03 02:19 6926 Dec 20 05:20 6927 Mar 22 03:35 6927 Jun 03 19:20 6927 Jun 04 10:17 6927 Aug 18 20:38	11° \$\tilde{\tilde{A}} 34'00 9° \$\tilde{A} 29'38 12° \$\tilde{A} 59'22 14° \$\tilde{A} 01'17 14° \$\tilde{A} 01'17 13° \$\tilde{A} 58'29 15° \$\tilde{A} 02'47 18° \$\tilde{A} 23'27 16° \$\tilde{A} 21'49 14° \$\tilde{A} 17'29 17° \$\tilde{A} 47'14	17.29213 AU 0°25'32 0°25'36 19.29619 AU 0°26'28	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise	6932 Apr 14 03:14 6932 Jun 27 01:09 6932 Jun 27 12:07 6932 Sep 11 15:19 6932 Dec 16 03:39 6933 Jan 01 10:18 6933 Jan 01 10:18 6933 Jan 01 03:37 6933 Jan 01 16:59 6932 Dec 31 22:10 6933 Jan 17 13:36	12° \(\frac{1}{3}\) 12'22 10° \(\frac{1}{3}\) 12'22 10° \(\frac{1}{3}\) 11'11 8° \(\frac{3}{3}\) 6'47 11° \(\frac{3}{3}\) 34'49 12° \(\frac{3}{3}\) 5'38 12° \(\frac{3}{3}\) 3'37 12° \(\frac{3}{3}\) 3'39 12° \(\frac{3}{3}\) 3'45 13° \(\frac{3}{3}\) 5'59	17.41916 AU 0°01'38 0°01'42
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6926 May 30 09:08 6926 Aug 13 17:32 6926 Nov 17 08:00 6926 Dec 03 20:08 6926 Dec 03 02:19 6926 Dec 03 02:19 6926 Dec 20 05:20 6927 Mar 22 03:35 6927 Jun 03 19:20 6927 Jun 04 10:17 6927 Aug 18 20:38 6927 Nov 22 12:41	11° \$\tilde{\tilde{A}} 34'00 9° \$\tilde{A} 29'38 12° \$\tilde{A} 59'22 14° \$\tilde{A} 01'17 14° \$\tilde{A} 01'17 13° \$\tilde{A} 58'29 15° \$\tilde{A} 02'47 18° \$\tilde{A} 23'27 16° \$\tilde{A} 21'49 14° \$\tilde{A} 17'29 17° \$\tilde{A} 47'14	17.29213 AU 0°25'32 0°25'36 19.29619 AU 0°26'28 17.30187 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde	6932 Apr 14 03:14 6932 Jun 27 01:09 6932 Jun 27 12:07 6932 Sep 11 15:19 6932 Dec 16 03:39 6933 Jan 01 10:18 6933 Jan 01 10:18 6933 Jan 01 03:37 6933 Jan 01 16:59 6932 Dec 31 22:10 6933 Jan 17 13:36 6933 Apr 18 23:53	12° \overline{3}14'20 10° \overline{3}12'22 10° \overline{3}11'11 8° \overline{3}06'47 11° \overline{3}34'49 12° \overline{3}35'38 12° \overline{3}36'39 12° \overline{3}3'45 13° \overline{3}35'59 16° \overline{5}56'35	17.41916 AU 0°01'38 0°01'42 19.43738 AU
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6926 May 30 09:08 6926 Aug 13 17:32 6926 Nov 17 08:00 6926 Dec 03 20:08 6926 Dec 03 02:19 6926 Dec 03 02:19 6926 Dec 20 05:20 6927 Mar 22 03:35 6927 Jun 03 19:20 6927 Jun 04 10:17 6927 Aug 18 20:38 6927 Nov 22 12:41	11° \$\tilde{\tilde{A}} 34'00 9° \$\tilde{A} 29'38 12° \$\tilde{A} 59'22 14° \$\tilde{A} 01'17 14° \$\tilde{A} 01'17 13° \$\tilde{A} 58'29 15° \$\tilde{A} 02'47 18° \$\tilde{A} 23'27 16° \$\tilde{A} 21'49 14° \$\tilde{A} 17'29 17° \$\tilde{A} 47'14	17.29213 AU 0°25'32 0°25'36 19.29619 AU 0°26'28 17.30187 AU 19.30828 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde desc. node	6932 Apr 14 03:14 6932 Jun 27 01:09 6932 Jun 27 12:07 6932 Sep 11 15:19 6932 Dec 16 03:39 6933 Jan 01 10:18 6933 Jan 01 10:18 6933 Jan 01 03:37 6933 Jan 01 16:59 6932 Dec 31 22:10 6933 Jan 17 13:36 6933 Apr 18 23:53 6933 May 23 12:32	12°る14'20 10°る12'22 10°る11'11 8°る06'47 11°る34'49 12°る35'38 12°る35'38 12°る34'37 12°る36'39 12°る33'45 13°る55'59 16°る56'35 16°る25'12 14°る54'45	17.41916 AU 0°01'38 0°01'42 19.43738 AU

max. Earth dist.

6939 Jan 29 17:09

10°≈23'02 19.74871 AU

opposition

6945 Aug 27 00:17

9°\ 20'29 -0°46'03

· F d F d	(045 A 26 10 10	001/21100	10 17402 ATT		(052.14 25 22.25	(00055122	0050120
min. Earth dist.	6945 Aug 26 19:19		18.17403 AU	conjunction	6952 Mar 25 23:25	6°Υ55'32	
direct	6945 Nov 12 05:34	7°) 18'57		minimum elong	6952 Mar 25 23:25	6°Υ55'32	
evening set	6946 Feb 13 15:43	10°) 34'14		max. Earth dist.	6952 Mar 26 12:35		20.59687 AU
				morning rise	6952 Apr 10 15:41	7° Y 50'48	
conjunction	6946 Mar 01 10:37	11° ∺ 31′05		retrograde	6952 Jul 11 18:24	10° Y 59'30	
minimum elong	6946 Mar 01 10:37	11° ∺ 31′05	0°42'33	opposition	6952 Sep 26 15:38	9° Y 00'44	
max. Earth dist.	6946 Mar 01 15:41		20.20692 AU	min. Earth dist.	6952 Sep 26 02:36		18.62758 AU
morning rise	6946 Mar 17 04:11	12° ∺ 27'43		direct	6952 Dec 12 16:27	7° Ƴ 01'41	
retrograde	6946 Jun 16 19:38	15° ¥ 39'49		evening set	6953 Mar 14 15:08	10° Ƴ 09'14	
opposition	6946 Aug 31 18:09	13°) (40′15	-0°48'21				
min. Earth dist.	6946 Aug 31 12:12	13°) (40′52	18.23977 AU	conjunction	6953 Mar 30 07:19	11° Ƴ 04'17	
direct	6946 Nov 16 23:00	11°) 39'00		minimum elong	6953 Mar 30 07:19	11° Ƴ 04'17	0°50'42
evening set	6947 Feb 18 04:21	14° ¥ 53′05		max. Earth dist.	6953 Mar 30 21:46	11° Ƴ 06′25	20.65729 AU
				morning rise	6953 Apr 14 23:33	11° Ƴ 59'21	
conjunction	6947 Mar 05 22:46	15°) 49′38	-0°44'33	retrograde	6953 Jul 16 05:44	15° Ƴ 07'37	
minimum elong	6947 Mar 05 22:46	15°) 49′38	0°44'32	opposition	6953 Oct 01 04:59	13° Y 09'00	-0°56'12
max. Earth dist.	6947 Mar 06 06:04	15°) 50'44	20.27266 AU	min. Earth dist.	6953 Sep 30 14:20	13° Ƴ 10′28	18.68650 AU
morning rise	6947 Mar 21 15:49	16°){ 46'01		direct	6953 Dec 17 05:39	11° Ƴ 10'19	
retrograde	6947 Jun 21 08:30	19° ¥ 57'26		evening set	6954 Mar 18 22:45	14°Υ16'54	
opposition	6947 Sep 05 11:25	17°) 57'58	-0°50'22	- · · · · · · · · · · · · · · · · · · ·			
min. Earth dist.	6947 Sep 05 03:36		18.30554 AU	conjunction	6954 Apr 03 14:41	15° Ƴ 11'46	-0°50'47
direct	6947 Nov 21 17:15	15°) 57'03	10.5055 1710	minimum elong	6954 Apr 03 14:41	15° Υ 11'46	
evening set	6948 Feb 22 16:06	19° X 09'56		max. Earth dist.	6954 Apr 04 05:29		20.71452 AU
evening set	0948 FC0 22 10.00	19 7(0930		morning rise	6954 Apr 19 07:02	16° Υ 06'40	20.71432 AU
aamiumatiam	6948 Mar 09 09:50	20°) €06'12	0046!14	retrograde	6954 Jul 20 14:24	10 γ 00 40 19° γ 14'32	
conjunction				•			0056100
minimum elong	6948 Mar 09 09:50	20°) €06'12		opposition	6954 Oct 05 17:54	17° Y 16′01	
max. Earth dist.	6948 Mar 09 17:54		20.33849 AU	min. Earth dist.	6954 Oct 05 03:37		18.74210 AU
morning rise	6948 Mar 25 02:40	21°) (02'19		direct	6954 Dec 21 15:57	15° Y 17'40	
retrograde	6948 Jun 24 21:07	24°) 13′08		evening set	6955 Mar 23 05:46	18° Y 23'21	
opposition	6948 Sep 09 04:04	22°) 13′46					
min. Earth dist.	6948 Sep 08 19:19		18.37155 AU	conjunction	6955 Apr 07 21:43	19° Ƴ 18′02	
direct	6948 Nov 25 08:39	20° ∺ 13'11		minimum elong	6955 Apr 07 21:43	19° Ƴ 18′02	0°50'39
evening set	6949 Feb 26 02:56	23°) 24′56		max. Earth dist.	6955 Apr 08 13:21		20.76825 AU
				morning rise	6955 Apr 23 14:08	20° Ƴ 12'47	
conjunction	6949 Mar 13 20:20	24° ∺ 20'55	-0°47'40	retrograde	6955 Jul 25 01:00	23° Y 20'15	
minimum elong	6949 Mar 13 20:20	24° ∺ 20'55	0°47'40	opposition	6955 Oct 10 06:15	21° Y 21'51	-0°55'49
max. Earth dist.	6949 Mar 14 06:26	24° ℋ 22'26	20.40443 AU	min. Earth dist.	6955 Oct 09 14:28	21° Y 23'25	18.79376 AU
morning rise	6949 Mar 29 12:51	25° 升 16'48		direct	6955 Dec 26 03:31	19° Ƴ 23'47	
retrograde	6949 Jun 29 09:24	28°) 27'01		evening set	6956 Mar 26 12:16	22° Y 28'35	
opposition	6949 Sep 13 19:43	26°) 27'47	-0°53'30				
min. Earth dist.	6949 Sep 13 09:04	26° ∺ 28'53	18.43726 AU	conjunction	6956 Apr 11 04:08	23° Y 23'06	-0°50'13
direct	6949 Nov 30 00:42	24°) €27'35		minimum elong	6956 Apr 11 04:08	23° Y 23'06	0°50'15
evening set	6950 Mar 02 13:07	27°) 38'14		max. Earth dist.	6956 Apr 11 19:56		20.81769 AU
8				morning rise	6956 Apr 26 20:50	24° Ƴ 17'44	
conjunction	6950 Mar 18 06:01	28°) 33′58	-0°48'49	retrograde	6956 Jul 28 09:01	27° Y 24'50	
minimum elong	6950 Mar 18 06:01	28°\(\frac{1}{33}\)'58		opposition	6956 Oct 13 18:10	25°Υ26'29	-0°55'12
max. Earth dist.	6950 Mar 18 16:49		20.46982 AU	min. Earth dist.	6956 Oct 13 03:01		18.84106 AU
morning rise	6950 Apr 02 22:27	29° H 29'37	20.10702710	direct	6956 Dec 29 12:54	23° Y 28'40	10.01100110
morning rise	6950 Apr 11 19:10	0°Υ		evening set	6957 Mar 30 18:17	26° Υ 32'37	
retrograde	6950 Jul 03 20:36	2° Υ 39'18		evening set	0)3/ Wai 30 10.1/	20 13237	
opposition	6950 Sep 18 10:59	0° Υ 40'13	0054127	conjunction	6057 Amr. 15 10:10	27° Y 26'59	0940122
min. Earth dist.	-		18.50230 AU		6957 Apr 15 10:19	27° Y 26'59	
IIIII. Eartii dist.	6950 Sep 17 23:52		18.30230 AU	minimum elong	6957 Apr 15 10:19		0 49 34 20.86272 AU
	6950 Oct 05 07:15	30° ₹		max. Earth dist.	6957 Apr 16 02:37		20.86272 AU
direct	6950 Dec 04 14:11	28°) (40'24		morning rise	6957 May 01 03:16	28° Y 21'30	
	6951 Jan 30 17:12	0°Υ			6957 Jun 01 18:07	0° 8	
evening set	6951 Mar 06 22:22	1° Ƴ 49'59		retrograde	6957 Aug 01 18:37	1° 8 28'14	
					6957 Oct 05 12:40	30° Ŗ ♈	
conjunction	6951 Mar 22 15:02	2° Υ 45'28		opposition	6957 Oct 18 05:11	29° Y 29'54	
minimum elong	6951 Mar 22 15:01	2° Y 45′28	0°49'43	min. Earth dist.	6957 Oct 17 12:45		18.88372 AU
max. Earth dist.	6951 Mar 23 03:33		20.53423 AU	direct	6958 Jan 02 23:05	27° Ƴ 32'17	
morning rise	6951 Apr 07 07:15	3° Y 40′55			6958 Mar 24 08:12	9° 8	
retrograde	6951 Jul 08 08:32	6° Ƴ 50′05		evening set	6958 Apr 03 23:53	0° 8 35'26	
opposition	6951 Sep 23 01:33	4° Y 51′10	-0°55'26				
min. Earth dist.	6951 Sep 22 12:35	4° Y 52′29	18.56588 AU	conjunction	6958 Apr 19 15:59	1° 8 29'40	-0°48'38
direct	6951 Dec 09 04:51	2° Y 51'44		minimum elong	6958 Apr 19 15:59	1° 8 29'40	0°48'40
evening set	6952 Mar 10 07:08	6° Ƴ 00'17		max. Earth dist.	6958 Apr 20 08:24	1° 8 32'03	20.90309 AU
				morning rise	6958 May 05 09:19	2° 8 24'05	

retrograde	6958 Aug 06 01:54	5° 8 30'30	evening set	6965 May 01 05:30	28° 8 29'29
opposition	6958 Oct 22 15:58	3° 8 32'08 -0°53	•		
min. Earth dist.	6958 Oct 22 00:13	3° 8 33'42 18.92	2200 AU conjunction	6965 May 17 00:10	29° 8 23'21 -0°36'06
direct	6959 Jan 07 07:18	1° 8 34'41	minimum elong	6965 May 17 00:10	29° 8 23'21 0°36'09
evening set	6959 Apr 08 04:47	4° 8 37'03	max. Earth dist.	6965 May 17 19:04	29° 8 26'03 21.08196 AU
				6965 May 27 16:30	Π $^{\circ}$ 0
conjunction	6959 Apr 23 21:08	5° 8 31'11 -0°47	"29 morning rise	6965 Jun 01 21:12	0° I 17′34
minimum elong	6959 Apr 23 21:08	5° 8 31'11 0°47	"32 retrograde	6965 Sep 03 09:08	3° Ⅱ 22'58
max. Earth dist.	6959 Apr 24 14:12	5° 8 33'39 20.93	min. Earth dist.	6965 Nov 19 11:52	1° Ⅱ 26'17 19.08794 AU
morning rise	6959 May 09 14:48	6° 8 25'31	opposition	6965 Nov 20 06:16	1° Ⅱ 24'27 -0°38'28
retrograde	6959 Aug 10 11:00	9° 8 31'38		6965 Dec 29 16:32	30° ₹ 8
min. Earth dist.	6959 Oct 26 08:51	7° と 34'57 18.95		6966 Feb 04 08:49	29° 8 27'58
opposition	6959 Oct 27 02:04	7° 8 33'14 -0°51		6966 Mar 12 02:11	0°Щ
direct	6960 Jan 11 16:38	5° 8 35'55	evening set	6966 May 05 09:29	2° Ⅱ 26′55
evening set	6960 Apr 11 09:31	8° 8 37'35			
			conjunction	6966 May 21 04:38	3°П20'49 -0°33'33
conjunction	6960 Apr 27 02:02	9° 8 31'37 -0°46	0	6966 May 21 04:38	3° I I20'49 0°33'37
minimum elong	6960 Apr 27 02:02	9° 8 31'37 0°46		6966 May 21 23:21	3° П 23'30 21.09225 AU
max. Earth dist.	6960 Apr 27 19:27	9° 8 34'07 20.97	0	6966 Jun 06 02:23	4° Ⅱ 15'05
morning rise	6960 May 12 20:12	10° 8 25'53	retrograde	6966 Sep 07 16:24	7° I I20'33
retrograde	6960 Aug 13 17:35	13° 8 31'46	opposition	6966 Nov 24 14:16	5° I 22'02 -0°35'34
opposition	6960 Oct 30 11:42	11° 8 33'18 -0°50		6966 Nov 23 21:08	5° ∏ 23'44 19.09595 AU
min. Earth dist.	6960 Oct 29 19:10	11° 8 34'57 18.98		6967 Feb 08 13:18	3° П 25'39 6°П24'25
direct	6961 Jan 14 23:22	9° と 36'08 12° と 37'09	evening set	6967 May 09 13:26	6°Щ24°25
evening set	6961 Apr 15 13:48	12 03/09	agniumation	6067 May 25, 00:15	7° Ⅱ 18'21 -0°30'51
conjunction	6961 May 01 06:43	13° 8 31'07 -0°44	conjunction '30 minimum elong	6967 May 25 09:15 6967 May 25 09:15	7° П 18'21 -0 30'51 7° П 18'21 0°30'54
minimum elong	6961 May 01 06:43	13° 8 31'07 0°44	2	6967 May 26 03:45	7° П 21'00 21.09792 AU
max. Earth dist.	6961 May 02 00:40	13° 8 33'42 21.00		6967 Jun 10 07:42	8° П 12'41
morning rise	6961 May 17 01:20	14° 8 25'20	retrograde	6967 Sep 12 01:15	11° I 18'15
morning risc	6961 May 27 13:00	15° 8	opposition	6967 Nov 28 21:58	9° П 19'43 -0°32'29
retrograde	6961 Aug 18 02:41	17° 8 31'00	min. Earth dist.	6967 Nov 28 04:17	9° П 21'29 19.09900 AU
opposition	6961 Nov 03 20:47	15° 8 32'31 -0°48		6968 Feb 12 19:41	7° П 23'24
min. Earth dist.	6961 Nov 03 02:48	15° 8 34'19 19.01		6968 May 12 17:50	10° Ⅲ 22'03
mm. Barm alst.	6961 Nov 17 15:11	15°R8	t is title to thing set	0,00 1,14, 12 17.00	10 222 03
direct	6962 Jan 19 07:45	13° 8 35'29	conjunction	6968 May 28 14:13	11° I I16'03 -0°28'00
	6962 Mar 19 13:10	15° 8	minimum elong	6968 May 28 14:13	11° I 16'03 0°28'04
evening set	6962 Apr 19 17:54	16° 8 35'57	max. Earth dist.	6968 May 29 08:07	11° Ⅱ 18'36 21.09822 AU
	•		morning rise	6968 Jun 13 13:27	12° Ⅱ 10′28
conjunction	6962 May 05 11:06	17° 8 29'51 -0°42	retrograde	6968 Sep 15 08:32	15° Ⅱ 16'11
minimum elong	6962 May 05 11:06	17° 8 29'51 0°42	d'44 opposition	6968 Dec 02 05:35	13° Ⅱ 17'36 -0°29'15
max. Earth dist.	6962 May 06 05:21	17° 8 32'29 21.02	2636 AU min. Earth dist.	6968 Dec 01 13:34	13° Ⅱ 19'12 19.09654 AU
morning rise	6962 May 21 06:16	18° 8 24'03	direct	6969 Feb 16 00:30	11° Ⅱ 21'19
retrograde	6962 Aug 22 08:55	21° 8 29'35	evening set	6969 May 16 22:22	14° Ⅱ 19'55
opposition	6962 Nov 08 05:41	19° 8 31'04 -0°46			
min. Earth dist.	6962 Nov 07 12:26	19° 8 32'47 19.03		6969 Jun 01 19:30	15° Ⅱ 13'59 -0°25'00
direct	6963 Jan 23 13:13	17° 8 34'11	minimum elong	6969 Jun 01 19:30	15° Ⅱ 13'59 0°25'04
evening set	6963 Apr 23 21:49	20° 8 34'09	max. Earth dist.	6969 Jun 02 12:39	15° Ⅱ 16'26 21.09296 AU
			morning rise	6969 Jun 17 19:29	16°Ⅲ08'29
conjunction	6963 May 09 15:29	21° 8 28'01 -0°40	· ·	6969 Sep 19 18:00	19° Ⅲ 14'23
minimum elong	6963 May 09 15:29	21° 8 28'01 0°40	**	6969 Dec 06 13:06	17° I 15'43 -0°25'53
max. Earth dist.	6963 May 10 10:10	21° 8 30'43 21.04		6969 Dec 05 20:49	17° I 17'21 19.08827 AU
morning rise	6963 May 25 11:13	22° 8 22'13	direct	6970 Feb 20 06:26	15° Ⅱ 19'24
retrograde	6963 Aug 26 17:52	25° 8 27'39	evening set	6970 May 21 03:05	18° Ⅱ 18′00
opposition	6963 Nov 12 14:08	23° 8 29'07 -0°43		(070 I 0(00.51	100TT12110 0021152
min. Earth dist. direct	6963 Nov 11 19:36 6964 Jan 27 21:01	23° 8 30'58 19.05 21° 8 32'23	5874 AU conjunction minimum elong	6970 Jun 06 00:51 6970 Jun 06 00:51	19° Д 12'10 -0°21'53 19° Д 12'10 0°21'58
evening set	6964 Apr 27 01:38	24° 8 31'56	max. Earth dist.	6970 Jun 06 00.31	19° Д 1210 0 2138 19° Д 14'30 21.08170 AU
ovening set	0707 11pt 21 01.30	27 031 30	morning rise	6970 Jun 22 01:39	20° I 106'47
conjunction	6964 May 12 19:44	25° 8 25'48 -0°38	•	6970 Sep 24 00:58	23° I 12'53
minimum elong	6964 May 12 19:44	25° 6 25'48 0°38	· ·	6970 Dec 10 20:44	21° I 14'06 -0°22'22
max. Earth dist.	6964 May 13 14:33	25° 8 28'30 21.06	11	6970 Dec 10 26:44	21° I I15'34 19.07413 AU
morning rise	6964 May 28 16:09	26° 8 20'00	direct	6971 Feb 24 11:46	19° I 17'43
retrograde	6964 Aug 30 00:36	29° 8 25'24	evening set	6971 May 25 08:01	22° I 16'21
opposition	6964 Nov 15 22:28	27° 8 26'52 -0°41	•		
min. Earth dist.	6964 Nov 15 04:56	27° 8 28'37 19.07		6971 Jun 10 06:36	23° Ⅱ 10'38 -0°18'40
direct	6965 Jan 31 01:39	25° 8 30'16	minimum elong	6971 Jun 10 06:36	23° Ⅲ 10'38 0°18'44
			· ·		

max. Earth dist.	6971 Jun 10 22:12	23°∏12'52	21.06496 AU	opposition	6977 Jan 03 17:09	15° © 13'46	0°00'29
morning rise	6971 Jun 26 08:14	24° I I05'21	21.001,90110	min. Earth dist.	6977 Jan 03 06:52		18.89529 AU
retrograde	6971 Sep 28 10:59	27° Ⅱ 11'41		direct	6977 Mar 19 22:00	13°9516'26	
opposition	6971 Dec 15 04:03	25° Ⅱ 12'44	-0°18'45	evening set	6977 Jun 17 21:17	16°©16'54	
min. Earth dist.	6971 Dec 14 13:16	25° Ⅱ 14'14	19.05470 AU	· ·			
direct	6972 Feb 28 17:55	23° Ⅱ 16′14		conjunction	6977 Jul 04 00:47	17° © 12'11	0°02'16
evening set	6972 May 28 13:14	26° Ⅱ 15′00		minimum elong	6977 Jul 04 00:46	17° © 12'11	0°02'11
	•			behind sun begin	6977 Jul 03 18:07	17° © 11'15	
conjunction	6972 Jun 13 12:35	27° Ⅲ 09′24	-0°15'21	behind sun end	6977 Jul 04 07:25	17° © 13'07	
minimum elong	6972 Jun 13 12:35	27° Ⅲ 09'24	0°15'25	max. Earth dist.	6977 Jul 04 11:51	17° © 13'46	20.87481 AU
behind sun begin	6972 Jun 13 10:41	27° Ⅲ 09'08		morning rise	6977 Jul 20 07:31	18° © 07'56	
behind sun end	6972 Jun 13 14:29	27° Ⅲ 09'40		retrograde	6977 Oct 22 17:36	21° © 16'30	
max. Earth dist.	6972 Jun 14 03:28	27° Ⅲ 11'31	21.04300 AU	opposition	6978 Jan 08 01:02	19° © 16'35	0°04'27
morning rise	6972 Jun 29 15:05	28° Ⅲ 04'16		min. Earth dist.	6978 Jan 07 14:47	19° 5 17'37	18.85347 AU
	6972 Aug 07 15:00	0° ©		direct	6978 Mar 24 05:13	17° 5 019'04	
retrograde	6972 Oct 01 17:53	1° © 10'51		evening set	6978 Jun 22 05:16	20° © 20'06	
	6972 Nov 27 21:38	30°Ŗ Ⅱ					
opposition	6972 Dec 18 11:28	29° Ⅱ 11'44	-0°15'02	conjunction	6978 Jul 08 09:37	21° © 15'36	0°05'51
min. Earth dist.	6972 Dec 17 22:20	29° Ⅱ 13′04	19.03039 AU	minimum elong	6978 Jul 08 09:36	21° © 15'36	0°05'47
direct	6973 Mar 03 22:48	27° Ⅱ 15′06		behind sun begin	6978 Jul 08 03:14	21° © 14'42	
	6973 May 28 13:19	0 \circ \mathfrak{s}		behind sun end	6978 Jul 08 15:59	21° © 16'29	
evening set	6973 Jun 01 18:45	0° 5 14'02		max. Earth dist.	6978 Jul 08 20:01	21° © 17'05	20.83140 AU
				morning rise	6978 Jul 24 17:09	22° © 11'34	
conjunction	6973 Jun 17 18:53	1° 5 08'35	-0°11'57	retrograde	6978 Oct 27 03:19	25° © 20'40	
minimum elong	6973 Jun 17 18:53	1° © 08'35	0°12'01	opposition	6979 Jan 12 09:23	23° 5 20'37	0°08'24
behind sun begin	6973 Jun 17 14:21	1° 5 07'57		min. Earth dist.	6979 Jan 12 00:46	23°521'30	18.80852 AU
behind sun end	6973 Jun 17 23:26	1° 5 09'12		direct	6979 Mar 28 11:00	21° 5 22'56	
max. Earth dist.	6973 Jun 18 09:04	1° 5 0'36	21.01660 AU	evening set	6979 Jun 26 14:08	24° 5 24'36	
morning rise	6973 Jul 03 22:13	2° 5 03'35					
retrograde	6973 Oct 06 04:08	5° © 10'28		conjunction	6979 Jul 12 19:21	25° © 20'20	0°09'23
opposition	6973 Dec 22 18:38	3° © 11'11	-0°11'14	minimum elong	6979 Jul 12 19:21	25° © 20'20	0°09'19
min. Earth dist.	6973 Dec 22 05:19	3° © 12'31	19.00191 AU	behind sun begin	6979 Jul 12 13:46	25° © 19'33	
direct	6974 Mar 08 05:33	1° © 14'22		behind sun end	6979 Jul 13 00:56	25° © 21'07	
evening set	6974 Jun 06 00:40	4° © 13'35		max. Earth dist.	6979 Jul 13 04:26	25° © 21'38	20.78504 AU
				morning rise	6979 Jul 29 03:47	26° © 16'32	
conjunction	6974 Jun 22 01:35	5° ॐ 08'17	-0°08'29	retrograde	6979 Oct 31 15:27	29° © 26'13	
minimum elong	6974 Jun 22 01:35	5° ॐ 08'17	0°08'33	opposition	6980 Jan 16 17:51	27° © 26'03	0°12'19
behind sun begin	6974 Jun 21 19:47	5° © 07'29		min. Earth dist.	6980 Jan 16 09:38	27° © 26'53	18.76052 AU
behind sun end	6974 Jun 22 07:22	5°509'06		direct	6980 Mar 31 18:33	25° © 28'09	
max. Earth dist.	6974 Jun 22 15:10	5° © 10'13	20.98616 AU	evening set	6980 Jun 29 23:52	28° © 30'33	
morning rise	6974 Jul 08 05:44	6° ॐ 03′28					
retrograde	6974 Oct 10 11:20	9° © 10'42		conjunction	6980 Jul 16 05:58	29° 5 26'32	0°12'55
opposition	6974 Dec 27 02:07	7° © 11'14	-0°07'22	minimum elong	6980 Jul 16 05:58	29° 5 26'32	0°12'50
min. Earth dist.	6974 Dec 26 14:19	7° © 12'26	18.96969 AU	behind sun begin	6980 Jul 16 01:52	29° © 25'57	
direct	6975 Mar 12 09:57	5° © 14'16		behind sun end	6980 Jul 16 10:03	29° 5 27'06	
evening set	6975 Jun 10 06:54	8° 5 13'48		max. Earth dist.	6980 Jul 16 14:03	29° 5 27'41	20.73528 AU
					6980 Jul 25 21:53	0 $^{\circ}$ Ω	
conjunction	6975 Jun 26 08:42	9° © 08'41	-0°04'59	morning rise	6980 Aug 01 15:08	0° Ω 22'58	
minimum elong	6975 Jun 26 08:41	9° © 08'41	0°05'04	retrograde	6980 Nov 04 02:45	3° £ 33′15	
behind sun begin	6975 Jun 26 02:14	9° © 07'47		opposition	6981 Jan 20 02:53	1° Ω 32'57	
behind sun end	6975 Jun 26 15:08	9° © 09'35		min. Earth dist.	6981 Jan 19 20:35		18.70900 AU
max. Earth dist.	6975 Jun 26 21:31		20.95232 AU		6981 Mar 04 08:55	30°ષ્	
morning rise	6975 Jul 12 13:44	10°9504'02		direct	6981 Apr 05 01:15	29° 9 34'50	
retrograde	6975 Oct 14 22:09	13° © 11'41			6981 May 06 04:23	0 ° Ω	
opposition	6975 Dec 31 09:33	11° © 12'03		evening set	6981 Jul 04 10:24	2° Ω 38′01	
min. Earth dist.	6975 Dec 30 21:39		18.93413 AU			_	
direct	6976 Mar 15 17:11	9° © 14'53		conjunction	6981 Jul 20 17:17		0°16'24
evening set	6976 Jun 13 13:49	12° © 14'51		minimum elong	6981 Jul 20 17:17	3° Ω 34'15	
				max. Earth dist.	6981 Jul 20 23:33		20.68202 AU
conjunction	6976 Jun 29 16:26	13° © 09'56		morning rise	6981 Aug 06 03:16	4° Ω 30'55	
minimum elong	6976 Jun 29 16:26	13° © 09'56	0°01'28	retrograde	6981 Nov 08 16:08	7° Ω 41'51	
behind sun begin	6976 Jun 29 09:47	13° © 09'00		opposition	6982 Jan 24 12:16		0°20'03
behind sun end	6976 Jun 29 23:05	13° © 10'51		min. Earth dist.	6982 Jan 24 06:41		18.65385 AU
max. Earth dist.	6976 Jun 30 04:34		20.91506 AU	direct	6982 Apr 09 09:56	3° Ω 43'01	
morning rise	6976 Jul 15 22:18	14° © 05'28		evening set	6982 Jul 08 21:49	6° Ω 47'01	
retrograde	6976 Oct 18 06:12	17° © 13'33				0 :	
asc. node	6976 Nov 18 22:53	16° © 49'48		conjunction	6982 Jul 25 05:35	7° Ω 43'31	0~19'49

minimum elong	6982 Jul 25 05:35	7°Ω43'31	0°19'45	max. Earth dist.	6988 Aug 19 20:55	3° Tb 11'20	20.22531 AU
max. Earth dist.	6982 Jul 25 10:42		20.62489 AU	morning rise	6988 Sep 05 14:46	4° m) 10'24	20.22031110
morning rise	6982 Aug 10 16:14	8° Ω 40'27		retrograde	6988 Dec 09 00:05	7° m) 25'56	
retrograde	6982 Nov 13 04:33	11° Ω 52'00		opposition	6989 Feb 22 19:06	5° m) 23'55	0°43'31
opposition	6983 Jan 28 22:13	9° Ω 51'23	0°23'49	min. Earth dist.	6989 Feb 22 22:47		18.19033 AU
min. Earth dist.	6983 Jan 28 18:35	9° Ω 51'45	18.59485 AU	direct	6989 May 08 11:09	3° m) 22'55	
direct	6983 Apr 13 17:50	7° Ω 52'42		evening set	6989 Aug 08 05:08	6° m 33'53	
evening set	6983 Jul 13 10:02	10° Ω 57'34			•	•	
				conjunction	6989 Aug 24 18:11	7° m/32'26	0°40'23
conjunction	6983 Jul 29 18:38	11° Ω 54′20	0°23'10	minimum elong	6989 Aug 24 18:11	7° m 32'26	0°40'21
minimum elong	6983 Jul 29 18:38	11° Ω 54′20	0°23'08	max. Earth dist.	6989 Aug 24 12:35	7° m 31'36	20.15571 AU
max. Earth dist.	6983 Jul 29 21:34	11° Ω 54'46	20.56417 AU	morning rise	6989 Sep 10 09:13	8° m 31'17	
morning rise	6983 Aug 15 06:09	12° Ω 51'32		retrograde	6989 Dec 13 17:24	11° m)47'33	
	6983 Sep 27 10:00	15° Ω		opposition	6990 Feb 27 08:32	9° m 45'19	0°46'06
retrograde	6983 Nov 17 19:15	16° Ω 03'44		min. Earth dist.	6990 Feb 27 13:13	9° m 44'49	18.12117 AU
	6984 Jan 09 11:58	15° R Ω		direct	6990 May 12 23:46	7° Mp 43'56	
opposition	6984 Feb 02 08:32	14° Ω 02'52	0°27'29	evening set	6990 Aug 12 23:24	10°M 56'05	
min. Earth dist.	6984 Feb 02 05:52	• • • • • • • • • • • • • • • • • • • •	18.53235 AU				
direct	6984 Apr 17 03:47	12° Ω 03′50		conjunction	6990 Aug 29 13:14	11° m 54'57	0°42'36
	6984 Jul 14 03:22	15° Ω		minimum elong	6990 Aug 29 13:13	11° m 54'57	0°42'35
evening set	6984 Jul 16 23:09	15° Ω 09'37		max. Earth dist.	6990 Aug 29 07:31	11° m 54'06	20.08695 AU
				morning rise	6990 Sep 15 04:30	12° m 54'04	
conjunction	6984 Aug 02 08:38	16° Ω 06'40	0°26'25	retrograde	6990 Dec 18 12:04	16° Mp 11'02	
minimum elong	6984 Aug 02 08:38	16° Ω 06'40	0°26'22	opposition	6991 Mar 03 22:29	14°M 08'40	0°48'26
max. Earth dist.	6984 Aug 02 10:31		20.49999 AU	min. Earth dist.	6991 Mar 04 04:00	-	18.05304 AU
morning rise	6984 Aug 18 20:43	17° Ω 04'08		direct	6991 May 17 13:46	12° TQ 06'57	
retrograde	6984 Nov 21 08:39	20° Ω 16'57		evening set	6991 Aug 17 18:48	15°Mp20'18	
opposition	6985 Feb 05 19:13	18° Ω 15'53	0°31'02		6001.0	1.60 ** 1.010.7	004494
min. Earth dist.	6985 Feb 05 18:23		18.46674 AU	conjunction	6991 Sep 03 09:04	16° Mp 19'27	0°44'34
direct	6985 Apr 21 13:12	16° Ω 16'28		minimum elong	6991 Sep 03 09:04	16° Mp 19'27	0°44'33
evening set	6985 Jul 21 13:04	19° Ω 23'12		max. Earth dist.	6991 Sep 03 01:01	-	20.01956 AU
	(005 A 0(22.1(20° Ω 20'32	0°29'32	morning rise	6991 Sep 20 00:53	17° Mp 18'51	
conjunction	6985 Aug 06 23:16	20° Ω 20'32		retrograde opposition	6991 Dec 23 06:24	20° Mp 36'33	0°50'31
minimum elong max. Earth dist.	6985 Aug 06 23:16 6985 Aug 06 23:00		20.43332 AU	min. Earth dist.	6992 Mar 07 13:15 6992 Mar 07 20:00	18° Mp 34'02	17.98643 AU
morning rise	6985 Aug 23 12:08	20 δι 20 30 21° Ω 18'16	20.43332 AU	direct	6992 May 21 04:04	16° Mp 32'00	17.98043 AU
retrograde	6985 Nov 26 00:06	24° Ω 31'45		evening set	6992 Aug 21 15:05	19° Mp 46'35	
opposition	6986 Feb 10 06:26	$22^{\circ}\Omega 30'25$	0°34'25	evening set	0))2 Aug 21 13.03	17 111 10 33	
min. Earth dist.	6986 Feb 10 06:33		18.39909 AU	conjunction	6992 Sep 07 06:01	20° m 46'03	0°46'17
direct	6986 Apr 26 00:05	20° Ω 30'37	10.57707 110	minimum elong	6992 Sep 07 06:01	20° m/ 46'03	
evening set	6986 Jul 26 03:37	23°Ω38'19		max. Earth dist.	6992 Sep 06 21:56		19.95363 AU
e vennig see	0,000 041 20 05.57	20 000019		morning rise	6992 Sep 23 21:55	21° mp 45'43	17.70000110
conjunction	6986 Aug 11 14:42	24° Ω 35'58	0°32'31	retrograde	6992 Dec 27 02:26	25° m) 04'07	
minimum elong	6986 Aug 11 14:42	24° Ω 35'58	0°32'29	opposition	6993 Mar 12 04:36	23° m) 01'32	0°52'18
max. Earth dist.	6986 Aug 11 13:51		20.36477 AU	min. Earth dist.	6993 Mar 12 12:02		17.92126 AU
morning rise	6986 Aug 28 04:04	25° Ω 33'58		direct	6993 May 25 19:48	20° m 59'12	
retrograde	6986 Nov 30 15:02	28° Ω 48′08		evening set	6993 Aug 26 12:32	24° m/ 15'02	
opposition	6987 Feb 14 18:12	26° Ω 46'34	0°37'39				
min. Earth dist.	6987 Feb 14 19:45	26° Ω 46′24	18.32992 AU	conjunction	6993 Sep 12 03:45	25° Mp 14'48	0°47'45
direct	6987 Apr 30 11:01	24° Ω 46′21		minimum elong	6993 Sep 12 03:44	25° m 14'48	0°47'45
evening set	6987 Jul 30 19:18	27° Ω 55′06		max. Earth dist.	6993 Sep 11 17:15	25° Mp 13'13	19.88928 AU
				morning rise	6993 Sep 28 20:01	26° m 14'44	
conjunction	6987 Aug 16 07:02	28° Ω 53′02	0°35'20	retrograde	6993 Dec 31 21:46	29° m 33'51	
minimum elong	6987 Aug 16 07:02	28° Ω 53′02	0°35'17	opposition	6994 Mar 16 20:49	27° Mp 31'10	0°53'47
max. Earth dist.	6987 Aug 16 03:59		20.29526 AU	min. Earth dist.	6994 Mar 17 05:51	27° Mp 30'11	17.85774 AU
morning rise	6987 Sep 01 21:07	29° Ω 51′20		direct	6994 May 30 12:14	25° TD 28'32	
	6987 Sep 04 09:35	0° m		evening set	6994 Aug 31 10:46	28° m 45'37	
retrograde	6987 Dec 05 07:20	3°Mp06'11					
opposition	6988 Feb 19 06:18	1° Mp 04'21	0°40'41	conjunction	6994 Sep 17 02:34	29° m 45'40	0°48'55
min. Earth dist.	6988 Feb 19 08:53		18.26020 AU	minimum elong	6994 Sep 17 02:34	29° m 45'40	0°48'55
	6988 Mar 17 00:05	30°R Ω		max. Earth dist.	6994 Sep 16 15:53		19.82635 AU
direct	6988 May 03 22:41	29° Ω 03'44			6994 Sep 21 01:09	0∘ ʊ	
	6988 Jun 19 17:52	0° Mp		morning rise	6994 Oct 03 18:51	0° Ω 45'51	
evening set	6988 Aug 03 11:47	2°Mp13'35		retrograde	6995 Jan 05 18:53	4° Ω 05'38	0054:
	(000 A 20 00 T	20******	0027150	opposition	6995 Mar 21 13:46	2° Ω 02'53	0°54'57
conjunction minimum elong	6988 Aug 20 00:20 6988 Aug 20 00:20	3°Mp11'50	0°37'58 0°37'56	min. Earth dist.	6995 Mar 21 23:24 6995 Jun 02 17:53	2°₽01'50 30°RM)	17.79541 AU

direct	6995 Jun 04 06:23 6995 Jun 05 18:55	29°№59'56 0° 乒		conjunction minimum elong	7001 Oct 21 14:39 7001 Oct 21 14:39	2°M10'23 2°M10'23	0°48'20 0°48'23
evening set	6995 Sep 05 10:18	0 == 3° £ 18'15		max. Earth dist.	7001 Oct 21 14.39 7001 Oct 20 20:00		19.44115 AU
evening sec	оээг бер оз толо	3 -1013		morning rise	7001 Nov 07 05:57	3°M11'52	17.11110110
conjunction	6995 Sep 22 02:17	4° £ 18'34	0°49'48	retrograde	7002 Feb 08 07:25	6°M34'53	
minimum elong	6995 Sep 22 02:17	4° ≏ 18'34	0°49'49	opposition	7002 Apr 23 07:10	4°M31'25	0°53'09
max. Earth dist.	6995 Sep 21 12:59	4° Ω 16'33	19.76460 AU	min. Earth dist.	7002 Apr 23 23:27	4°M29'37	17.42075 AU
morning rise	6995 Oct 08 18:46	5° ≙ 18'59		direct	7002 Jul 07 10:45	2°M26'04	
retrograde	6996 Jan 10 15:00	8° ჲ 39'24		evening set	7002 Oct 10 01:53	5°M51'43	
opposition	6996 Mar 25 07:27	6° ≏ 36'33	0°55'46				
min. Earth dist.	6996 Mar 25 18:58		17.73440 AU	conjunction	7002 Oct 26 18:20	6°M53′29	0°46'56
direct	6996 Jun 08 00:58	4° ≏ 33'16		minimum elong	7002 Oct 26 18:20	6°M53′29	0°46'59
evening set	6996 Sep 09 10:31	7° ≙ 52'47		max. Earth dist.	7002 Oct 25 23:12	6° ™ 50'30	19.40111 AU
	60066 06 00 55	00.0.50100	0050100	morning rise	7002 Nov 12 09:20	7°M55'04	
conjunction	6996 Sep 26 02:55	8° ₾ 53'22	0°50'23	retrograde	7003 Feb 13 09:00	11°M18'20	0051125
minimum elong max. Earth dist.	6996 Sep 26 02:55	8° Ω 53'22	0°50'23	opposition	7003 Apr 28 05:05	9°M14'49	
max. Earth dist.	6996 Sep 25 13:13 6996 Oct 12 19:17	8° £ 51'17 9° £ 54'00	19.70424 AU	min. Earth dist.	7003 Apr 28 20:36 7003 Jul 12 11:55	7°M09'13	17.38342 AU
retrograde	6997 Jan 14 13:22	9 2 34 00 13° 2 14'59		evening set	7003 Jul 12 11:33 7003 Oct 15 06:13	10°M35'41	
opposition	6997 Mar 30 01:51	13 ⊆ 14 39	0°56'16	evening set	7003 Oct 13 00.13	10 1163341	
min. Earth dist.	6997 Mar 30 13:39		17.67481 AU	conjunction	7003 Oct 31 22:26	11° M 37'34	0°45'12
direct	6997 Jun 12 21:30	9° Ω 08'24	17.07.01110	minimum elong	7003 Oct 31 22:26	11°M37'34	0°45'16
evening set	6997 Sep 14 11:29	12° £ 29'04		max. Earth dist.	7003 Oct 31 03:35		19.36656 AU
<i>3</i> - 1 - 1	r			morning rise	7003 Nov 17 12:47	12°M39'15	
conjunction	6997 Oct 01 03:57	13° ≏ 29'53	0°50'38	•	7003 Dec 31 22:58	15°M	
minimum elong	6997 Oct 01 03:57	13° ≏ 29'53	0°50'39	retrograde	7004 Feb 18 07:57	16°M02'42	
max. Earth dist.	6997 Sep 30 12:07	13° ≏ 27'28	19.64556 AU		7004 Apr 08 00:12	15°RM	
morning rise	6997 Oct 17 20:20	14° ≏ 30'44		opposition	7004 May 02 03:39	13°M59'12	
retrograde	6998 Jan 19 10:25	17° ≏ 52'14		min. Earth dist.	7004 May 02 20:07		17.35193 AU
opposition	6998 Apr 03 21:01	15° Ω 49'09	0°56'23	direct	7004 Jul 16 11:08	11°M53'24	
min. Earth dist.	6998 Apr 04 10:40	15° Ω 47'40	17.61731 AU	_	7004 Oct 13 17:56	15° ™	
direct	6998 Jun 17 17:40	13° Ω 45'10		evening set	7004 Oct 19 10:52	15°M20'38	10.22027 111
evening set	6998 Sep 19 13:11	17° ≏ 06'56		max. Earth dist.	7004 Nov 04 07:12	16°IIL19'34	19.33827 AU
						1.60 m 2212.6	00.4211.0
	6998 Oct 06 05:55	18°42107'50	0°50'34	conjunction	7004 Nov 05 02:39	160111 77736	
conjunction minimum elong	6998 Oct 06 05:55	18° Ω 07'59	0°50'34 0°50'36	conjunction minimum elong	7004 Nov 05 02:39 7004 Nov 05 02:39	16°M,22'36	0°43'10 0°43'12
minimum elong	6998 Oct 06 05:55	18° ≏ 07'59	0°50'36	minimum elong	7004 Nov 05 02:39	16°M22'36	0°43'10 0°43'12
minimum elong max. Earth dist.	6998 Oct 06 05:55 6998 Oct 05 13:42		0°50'36	minimum elong morning rise	7004 Nov 05 02:39 7004 Nov 21 16:34	16°M22'36 17°M24'20	
minimum elong	6998 Oct 06 05:55	18° £ 07'59 18° £ 05'30	0°50'36	minimum elong	7004 Nov 05 02:39	16°M22'36	0°43'12
minimum elong max. Earth dist. morning rise	6998 Oct 06 05:55 6998 Oct 05 13:42 6998 Oct 22 22:07	18° ೨ 07'59 18° ೨ 05'30 19° ೨ 09'01	0°50'36 19.58932 AU	minimum elong morning rise retrograde	7004 Nov 05 02:39 7004 Nov 21 16:34 7005 Feb 22 09:47	16°M22'36 17°M24'20 20°M47'58 18°M44'30	0°43'12
minimum elong max. Earth dist. morning rise retrograde	6998 Oct 06 05:55 6998 Oct 05 13:42 6998 Oct 22 22:07 6999 Jan 24 10:11	18° ♣ 07'59 18° ♣ 05'30 19° ♣ 09'01 22° ♣ 30'58 20° ♣ 27'47	0°50'36 19.58932 AU	minimum elong morning rise retrograde opposition	7004 Nov 05 02:39 7004 Nov 21 16:34 7005 Feb 22 09:47 7005 May 07 02:39	16°M22'36 17°M24'20 20°M47'58 18°M44'30	0°43'12 0°46'53
minimum elong max. Earth dist. morning rise retrograde opposition	6998 Oct 06 05:55 6998 Oct 05 13:42 6998 Oct 22 22:07 6999 Jan 24 10:11 6999 Apr 08 16:32	18° ♣ 07'59 18° ♣ 05'30 19° ♣ 09'01 22° ♣ 30'58 20° ♣ 27'47	0°50'36 19.58932 AU 0°56'08	minimum elong morning rise retrograde opposition min. Earth dist.	7004 Nov 05 02:39 7004 Nov 21 16:34 7005 Feb 22 09:47 7005 May 07 02:39 7005 May 07 18:11	16°M22'36 17°M24'20 20°M47'58 18°M44'30 18°M42'48	0°43'12 0°46'53
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6998 Oct 06 05:55 6998 Oct 05 13:42 6998 Oct 22 22:07 6999 Jan 24 10:11 6999 Apr 08 16:32 6999 Apr 09 06:11	18° \(\Omega 07'59\) 18° \(\Omega 05'30\) 19° \(\Omega 09'01\) 22° \(\Omega 30'58\) 20° \(\Omega 27'47\) 20° \(\Omega 26'18\)	0°50'36 19.58932 AU 0°56'08	minimum elong morning rise retrograde opposition min. Earth dist. direct	7004 Nov 05 02:39 7004 Nov 21 16:34 7005 Feb 22 09:47 7005 May 07 02:39 7005 May 07 18:11 7005 Jul 21 13:11	16°M22'36 17°M24'20 20°M47'58 18°M44'30 18°M42'48 16°M38'36	0°43'12 0°46'53
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6998 Oct 06 05:55 6998 Oct 05 13:42 6998 Oct 22 22:07 6999 Jan 24 10:11 6999 Apr 08 16:32 6999 Apr 09 06:11 6999 Jun 22 15:59 6999 Sep 24 15:41	18° \(\Omega\) 07'59 18° \(\Omega\) 05'30 19° \(\Omega\) 09'01 22° \(\Omega\) 30'58 20° \(\Omega\) 27'47 20° \(\Omega\) 26'18 18° \(\Omega\) 23'26 21° \(\Omega\) 46'16	0°50'36 19.58932 AU 0°56'08 17.56243 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set	7004 Nov 05 02:39 7004 Nov 21 16:34 7005 Feb 22 09:47 7005 May 07 02:39 7005 May 07 18:11 7005 Jul 21 13:11 7005 Oct 24 15:32 7005 Nov 10 07:04	16°M22'36 17°M24'20 20°M47'58 18°M44'30 18°M42'48 16°M38'36 20°M06'29	0°43'12 0°46'53 17.32679 AU 0°40'49
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	6998 Oct 06 05:55 6998 Oct 05 13:42 6998 Oct 22 22:07 6999 Jan 24 10:11 6999 Apr 08 16:32 6999 Apr 09 06:11 6999 Jun 22 15:59 6999 Sep 24 15:41 6999 Oct 11 08:25	18° \(\Omega 07'59\) 18° \(\Omega 05'30\) 19° \(\Omega 09'01\) 22° \(\Omega 30'58\) 20° \(\Omega 27'47\) 20° \(\Omega 26'18\) 18° \(\Omega 23'26\) 21° \(\Omega 46'16\) 22° \(\Omega 47'32\)	0°50'36 19.58932 AU 0°56'08 17.56243 AU 0°50'10	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	7004 Nov 05 02:39 7004 Nov 21 16:34 7005 Feb 22 09:47 7005 May 07 02:39 7005 May 07 18:11 7005 Jul 21 13:11 7005 Oct 24 15:32 7005 Nov 10 07:04 7005 Nov 10 07:04	16°M22'36 17°M24'20 20°M47'58 18°M44'30 18°M42'48 16°M38'36 20°M06'29 21°M08'32 21°M08'32	0°43'12 0°46'53 17.32679 AU 0°40'49 0°40'53
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	6998 Oct 06 05:55 6998 Oct 05 13:42 6998 Oct 22 22:07 6999 Jan 24 10:11 6999 Apr 08 16:32 6999 Apr 09 06:11 6999 Jun 22 15:59 6999 Sep 24 15:41 6999 Oct 11 08:25 6999 Oct 11 08:25	18° 207'59 18° 205'30 19° 209'01 22° 230'58 20° 227'47 20° 226'18 18° 223'26 21° 246'16 22° 247'32 22° 247'32	0°50'36 19.58932 AU 0°56'08 17.56243 AU 0°50'10 0°50'11	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	7004 Nov 05 02:39 7004 Nov 21 16:34 7005 Feb 22 09:47 7005 May 07 02:39 7005 May 07 18:11 7005 Jul 21 13:11 7005 Oct 24 15:32 7005 Nov 10 07:04 7005 Nov 10 07:04 7005 Nov 09 12:40	16°M22'36 17°M24'20 20°M47'58 18°M44'30 18°M42'48 16°M38'36 20°M06'29 21°M08'32 21°M08'32 21°M05'39	0°43'12 0°46'53 17.32679 AU 0°40'49
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	6998 Oct 06 05:55 6998 Oct 05 13:42 6998 Oct 22 22:07 6999 Jan 24 10:11 6999 Apr 08 16:32 6999 Apr 09 06:11 6999 Jun 22 15:59 6999 Sep 24 15:41 6999 Oct 11 08:25 6999 Oct 10 14:41	18° \(\Omega 07'59\) 18° \(\Omega 05'30\) 19° \(\Omega 09'01\) 22° \(\Omega 30'58\) 20° \(\Omega 27'47\) 20° \(\Omega 26'18\) 18° \(\Omega 23'26\) 21° \(\Omega 46'16\) 22° \(\Omega 47'32\) 22° \(\Omega 44'48\)	0°50'36 19.58932 AU 0°56'08 17.56243 AU 0°50'10	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	7004 Nov 05 02:39 7004 Nov 21 16:34 7005 Feb 22 09:47 7005 May 07 02:39 7005 May 07 18:11 7005 Jul 21 13:11 7005 Oct 24 15:32 7005 Nov 10 07:04 7005 Nov 10 07:04 7005 Nov 09 12:40 7005 Nov 26 20:13	16°M22'36 17°M24'20 20°M47'58 18°M44'30 18°M42'48 16°M38'36 20°M06'29 21°M08'32 21°M08'32 21°M05'39 22°M10'18	0°43'12 0°46'53 17.32679 AU 0°40'49 0°40'53
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	6998 Oct 06 05:55 6998 Oct 05 13:42 6998 Oct 22 22:07 6999 Jan 24 10:11 6999 Apr 08 16:32 6999 Apr 09 06:11 6999 Jun 22 15:59 6999 Sep 24 15:41 6999 Oct 11 08:25 6999 Oct 10 14:41 6999 Oct 28 00:26	18° 207'59 18° 205'30 19° 209'01 22° 230'58 20° 227'47 20° 226'18 18° 223'26 21° 246'16 22° 247'32 22° 244'48 23° 248'44	0°50'36 19.58932 AU 0°56'08 17.56243 AU 0°50'10 0°50'11	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	7004 Nov 05 02:39 7004 Nov 21 16:34 7005 Feb 22 09:47 7005 May 07 02:39 7005 May 07 18:11 7005 Jul 21 13:11 7005 Oct 24 15:32 7005 Nov 10 07:04 7005 Nov 10 07:04 7005 Nov 09 12:40 7005 Nov 26 20:13 7006 Feb 27 09:25	16°M22'36 17°M24'20 20°M47'58 18°M44'30 18°M42'48 16°M38'36 20°M06'29 21°M08'32 21°M08'32 21°M05'39 22°M10'18 25°M34'03	0°43'12 0°46'53 17.32679 AU 0°40'49 0°40'53 19.31623 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	6998 Oct 06 05:55 6998 Oct 05 13:42 6998 Oct 22 22:07 6999 Jan 24 10:11 6999 Apr 08 16:32 6999 Apr 09 06:11 6999 Jun 22 15:59 6999 Sep 24 15:41 6999 Oct 11 08:25 6999 Oct 10 14:41 6999 Oct 28 00:26 7000 Jan 29 08:04	18° 207'59 18° 205'30 19° 209'01 22° 230'58 20° 227'47 20° 226'18 18° 223'26 21° 246'16 22° 247'32 22° 244'48 23° 248'44 27° 211'05	0°50'36 19.58932 AU 0°56'08 17.56243 AU 0°50'10 0°50'11 19.53597 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	7004 Nov 05 02:39 7004 Nov 21 16:34 7005 Feb 22 09:47 7005 May 07 02:39 7005 May 07 18:11 7005 Jul 21 13:11 7005 Oct 24 15:32 7005 Nov 10 07:04 7005 Nov 10 07:04 7005 Nov 09 12:40 7005 Nov 26 20:13 7006 Feb 27 09:25 7006 May 12 02:14	16°M22'36 17°M24'20 20°M47'58 18°M44'30 18°M42'48 16°M38'36 20°M06'29 21°M08'32 21°M08'32 21°M05'39 22°M10'18 25°M34'03 23°M30'42	0°43'12 0°46'53 17.32679 AU 0°40'49 0°40'53 19.31623 AU 0°44'07
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minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6998 Oct 06 05:55 6998 Oct 05 13:42 6998 Oct 22 22:07 6999 Jan 24 10:11 6999 Apr 08 16:32 6999 Apr 09 06:11 6999 Jun 22 15:59 6999 Sep 24 15:41 6999 Oct 11 08:25 6999 Oct 10 14:41 6999 Oct 28 00:26 7000 Jan 29 08:04 7000 Apr 13 12:55 7000 Apr 14 04:17	18° 207'59 18° 205'30 19° 209'01 22° 230'58 20° 227'47 20° 226'18 18° 223'26 21° 246'16 22° 247'32 22° 244'48 23° 248'44 27° 211'05 25° 207'48 25° 206'07	0°50'36 19.58932 AU 0°56'08 17.56243 AU 0°50'10 0°50'11 19.53597 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	7004 Nov 05 02:39 7004 Nov 21 16:34 7005 Feb 22 09:47 7005 May 07 02:39 7005 May 07 18:11 7005 Jul 21 13:11 7005 Oct 24 15:32 7005 Nov 10 07:04 7005 Nov 10 07:04 7005 Nov 09 12:40 7005 Nov 26 20:13 7006 Feb 27 09:25 7006 May 12 02:14 7006 May 12 18:26 7006 Jul 26 13:43	16°M22'36 17°M24'20 20°M47'58 18°M44'30 18°M42'48 16°M38'36 20°M06'29 21°M08'32 21°M05'39 22°M10'18 25°M34'03 23°M30'42 23°M28'55 21°M24'43	0°43'12 0°46'53 17.32679 AU 0°40'49 0°40'53 19.31623 AU 0°44'07
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6998 Oct 06 05:55 6998 Oct 05 13:42 6998 Oct 22 22:07 6999 Jan 24 10:11 6999 Apr 08 16:32 6999 Apr 09 06:11 6999 Jun 22 15:59 6999 Sep 24 15:41 6999 Oct 11 08:25 6999 Oct 10 14:41 6999 Oct 28 00:26 7000 Jan 29 08:04 7000 Apr 13 12:55 7000 Apr 14 04:17 7000 Jun 27 12:56	18° 207'59 18° 205'30 19° 209'01 22° 230'58 20° 227'47 20° 226'18 18° 223'26 21° 246'16 22° 247'32 22° 247'32 22° 244'48 23° 248'44 27° 211'05 25° 207'48 25° 206'07 23° 203'05	0°50'36 19.58932 AU 0°56'08 17.56243 AU 0°50'10 0°50'11 19.53597 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	7004 Nov 05 02:39 7004 Nov 21 16:34 7005 Feb 22 09:47 7005 May 07 02:39 7005 May 07 18:11 7005 Jul 21 13:11 7005 Oct 24 15:32 7005 Nov 10 07:04 7005 Nov 10 07:04 7005 Nov 09 12:40 7005 Nov 26 20:13 7006 Feb 27 09:25 7006 May 12 02:14 7006 May 12 18:26	16°M22'36 17°M24'20 20°M47'58 18°M44'30 18°M42'48 16°M38'36 20°M06'29 21°M08'32 21°M05'39 22°M10'18 25°M34'03 23°M30'42 23°M28'55	0°43'12 0°46'53 17.32679 AU 0°40'49 0°40'53 19.31623 AU 0°44'07
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6998 Oct 06 05:55 6998 Oct 05 13:42 6998 Oct 22 22:07 6999 Jan 24 10:11 6999 Apr 08 16:32 6999 Apr 09 06:11 6999 Jun 22 15:59 6999 Sep 24 15:41 6999 Oct 11 08:25 6999 Oct 10 14:41 6999 Oct 28 00:26 7000 Jan 29 08:04 7000 Apr 13 12:55 7000 Apr 14 04:17	18° 207'59 18° 205'30 19° 209'01 22° 230'58 20° 227'47 20° 226'18 18° 223'26 21° 246'16 22° 247'32 22° 244'48 23° 248'44 27° 211'05 25° 207'48 25° 206'07	0°50'36 19.58932 AU 0°56'08 17.56243 AU 0°50'10 0°50'11 19.53597 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	7004 Nov 05 02:39 7004 Nov 21 16:34 7005 Feb 22 09:47 7005 May 07 02:39 7005 May 07 18:11 7005 Jul 21 13:11 7005 Oct 24 15:32 7005 Nov 10 07:04 7005 Nov 10 07:04 7005 Nov 09 12:40 7005 Nov 26 20:13 7006 Feb 27 09:25 7006 May 12 02:14 7006 May 12 18:26 7006 Jul 26 13:43 7006 Oct 29 20:45	16°M22'36 17°M24'20 20°M47'58 18°M44'30 18°M42'48 16°M38'36 20°M06'29 21°M08'32 21°M08'32 21°M05'39 22°M10'18 25°M34'03 23°M30'42 23°M28'55 21°M224'43 24°M53'13	0°44'53 17.32679 AU 0°40'49 0°40'53 19.31623 AU 0°44'07 17.30781 AU
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minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min Earth dist. direct evening set retrograde opposition minimum elong max. Earth dist. morning rise retrograde opposition minimum elong max. Earth dist. morning rise	6998 Oct 06 05:55 6998 Oct 05 13:42 6998 Oct 22 22:07 6999 Jan 24 10:11 6999 Apr 08 16:32 6999 Apr 09 06:11 6999 Jun 22 15:59 6999 Sep 24 15:41 6999 Oct 11 08:25 6999 Oct 10 14:41 6999 Oct 10 14:41 6999 Oct 28 00:26 7000 Jan 29 08:04 7000 Apr 13 12:55 7000 Apr 14 04:17 7000 Jun 27 12:56 7000 Sep 29 18:34 7000 Oct 16 11:17 7000 Oct 16 11:17 7000 Oct 16 11:17 7000 Oct 15 17:13 7000 Nov 02 03:00 7000 Nov 28 18:31 7001 Feb 03 09:07 7001 Apr 14 05:24 7001 Apr 19 00:36 7001 Jul 02 12:54 7001 Sep 15 01:45	18° \(\Omega 07'59\) 18° \(\Omega 05'30\) 19° \(\Omega 09'01\) 22° \(\Omega 30'58\) 20° \(\Omega 27'47\) 20° \(\Omega 26'18\) 18° \(\Omega 23'26\) 21° \(\Omega 46'16\) 22° \(\Omega 47'32\) 22° \(\Omega 44'48\) 23° \(\Omega 48'44\) 27° \(\Omega 11'05\) 25° \(\Omega 06'07\) 23° \(\Omega 06'07\) 23° \(\Omega 06'07\) 23° \(\Omega 06'07\) 23° \(\Omega 26'55\) 27° \(\Omega 28'22\)	0°50'36 19.58932 AU 0°56'08 17.56243 AU 0°50'10 0°50'11 19.53597 AU 0°55'31 17.51093 AU 0°49'25 0°49'28 19.48641 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min Earth dist. direct evening rise retrograde opposition minimum elong max. Earth dist. morning rise retrograde opposition minimum elong max. Earth dist. morning rise	7004 Nov 05 02:39 7004 Nov 21 16:34 7005 Feb 22 09:47 7005 May 07 02:39 7005 May 07 18:11 7005 Jul 21 13:11 7005 Oct 24 15:32 7005 Nov 10 07:04 7005 Nov 10 07:04 7005 Nov 09 12:40 7005 Nov 26 20:13 7006 Feb 27 09:25 7006 May 12 02:14 7006 May 12 18:26 7006 Jul 26 13:43 7006 Oct 29 20:45 7006 Nov 15 11:38 7006 Nov 15 11:38 7006 Nov 15 11:38 7006 Nov 15 11:38 7006 Nov 14 16:23 7006 Dec 02 00:16 7007 Feb 05 01:41 7007 Mar 04 11:08 7007 May 17 02:03 7007 May 17 17:39 7007 Jul 31 16:44	16° M.22'36 17° M.24'20 20° M.47'58 18° M.44'30 18° M.42'48 16° M.38'36 20° M.06'29 21° M.08'32 21° M.05'39 22° M.10'18 25° M.34'03 23° M.30'42 23° M.28'55 21° M.24'43 24° M.53'13 25° M.55'18 26° M.11'40	0°43'12 0°46'53 17.32679 AU 0°40'49 0°40'53 19.31623 AU 0°44'07 17.30781 AU 0°38'11 0°38'15 19.30037 AU
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minimum elong	7007 Nov 20 16:28	0° ∡ ¹42'47	0°35'21	opposition	7014 Jun 19 09:21	1°る50'26	0°12'52
max. Earth dist.	7007 Nov 19 22:29	0° ∡ ³39'57	19.29016 AU	min. Earth dist.	7014 Jun 19 22:21		17.34644 AU
morning rise	7007 Dec 07 04:09	1° ∡ ⁴44'31			7014 Aug 10 08:54	30°₹ ৴	
retrograde	7008 Mar 08 11:21	5° ≯ 08'20		direct	7014 Sep 03 17:54	29° ∡ ⁴44'35	
opposition	7008 May 21 02:32	3° ∡ ¹05'17			7014 Sep 27 20:54	0°ಕ	
min. Earth dist.	7008 May 21 18:29		17.28731 AU	evening set	7014 Dec 08 09:30	3° る 13'45	
direct	7008 Aug 04 19:16	0° ∡ 759'16					
evening set	7008 Nov 08 07:17	4° ∡ ¹28'40		conjunction	7014 Dec 24 18:11	4° ප 15'05	0°09'29
				minimum elong	7014 Dec 24 18:12	4° る 15'05	0°09'33
conjunction	7008 Nov 24 20:54	5° ∡ ³30'44	0°32'09	behind sun begin	7014 Dec 24 12:39	4° る 14'14	
minimum elong	7008 Nov 24 20:54	5° ₹ 30'44	0°32'14	behind sun end	7014 Dec 24 23:45	4° る 15'56	
max. Earth dist.	7008 Nov 24 02:02		19.28530 AU	max. Earth dist.	7014 Dec 24 03:19		19.35937 AU
morning rise	7008 Dec 11 07:56	6° ≯ ³32′26		morning rise	7015 Jan 09 23:36	5° る 15'57	
retrograde	7009 Mar 13 12:20	9° ∡ 756′12		retrograde	7015 Apr 11 14:01	8° る 37'47	
opposition	7009 May 26 03:19	7° ∡ ¹53'17		opposition	7015 Jun 24 10:27	6° る 35'37	
min. Earth dist.	7009 May 26 18:50		17.28506 AU	min. Earth dist.	7015 Jun 24 23:21		17.37381 AU
direct	7009 Aug 09 23:09	5° ∡ ¹47'16		direct	7015 Sep 08 20:41	4° る 29'50	
evening set	7009 Nov 13 12:27	9° ∡ 16'56		evening set	7015 Dec 13 11:55	7° る 58'34	
max. Earth dist.	7009 Nov 29 08:04	10° ≯ 16′13	19.28550 AU				
				conjunction	7015 Dec 29 19:37	8° る 59'40	
conjunction	7009 Nov 30 01:32	10° ∡ 18'57	0°28'47	minimum elong	7015 Dec 29 19:38	8° る 59'40	0°05'26
minimum elong	7009 Nov 30 01:32	10° ∡ 18'57	0°28'50	behind sun begin	7015 Dec 29 13:11	8° る 58'41	
morning rise	7009 Dec 16 11:35	11° ∡ ¹20'34		behind sun end	7015 Dec 30 02:05	9° ට 00'40	
retrograde	7010 Mar 18 13:02	14° √ 44'11		max. Earth dist.	7015 Dec 29 06:07		19.38951 AU
opposition	7010 May 31 04:16	12° ∡ ′41′25	0°30'10	morning rise	7016 Jan 15 00:05	10° る 00'19	
min. Earth dist.	7010 May 31 19:41	12° ₹ 39'44	17.28762 AU	retrograde	7016 Apr 15 13:22	13° る 21'37	
direct	7010 Aug 15 03:05	10° ∡ ³35′25		opposition	7016 Jun 28 11:23	11° る 19'34	
evening set	7010 Nov 18 17:38	14° ₹ 05'14		min. Earth dist.	7016 Jun 28 22:11		17.40661 AU
max. Earth dist.	7010 Dec 04 11:33	15° ₹ 04'18	19.29052 AU	direct	7016 Sep 13 00:42	9° る 13'55	
				evening set	7016 Dec 17 13:25	12° る 42'05	
conjunction	7010 Dec 05 05:49	15° ₹ 07'11	0°25'12				
minimum elong	7010 Dec 05 05:49	15° ₹ 07'11	0°25'17	conjunction	7017 Jan 02 20:09	13° る 42'57	0°01'11
morning rise	7010 Dec 21 15:06	16° ∡ 08'42		minimum elong	7017 Jan 02 20:09	13° る 42'57	0°01'15
retrograde	7011 Mar 23 13:32	19° ∡ ³32'06		behind sun begin	7017 Jan 02 13:29	13° ح 41'56	
opposition	7011 Jun 05 05:31	17° ∡ ¹29'28	0°26'05	behind sun end	7017 Jan 03 02:50	13° 云 43'59	
min. Earth dist.	7011 Jun 05 20:46		17.29507 AU	max. Earth dist.	7017 Jan 02 08:16		19.42512 AU
direct	7011 Aug 20 06:53	15° ∡ ¹23'28		morning rise	7017 Jan 18 23:34	14° る 43'21	
evening set	7011 Nov 23 22:18	18° ∡ 53'19		desc. node	7017 Apr 14 07:11	18° る 03'04	
				retrograde	7017 Apr 20 10:37	18° る 04'07	
conjunction	7011 Dec 10 09:47	19° ∡ 55'09	0°21'28	opposition	7017 Jul 03 12:11	16° ප 02'12	
minimum elong	7011 Dec 10 09:47	19° ₹ 55'09	0°21'32	min. Earth dist.	7017 Jul 03 22:38		17.44512 AU
max. Earth dist.	7011 Dec 09 16:58		19.30036 AU	direct	7017 Sep 18 03:01	13° る 56'44	
morning rise	7011 Dec 26 18:00	20° ∡ 56'32		evening set	7017 Dec 22 14:20	17° る 24'16	
retrograde	7012 Mar 27 14:41	24° ∡ 19'38	0001110		5 010 1 0 5 2 0 00	100-70-450	0000105
opposition	7012 Jun 09 06:50	22°×17'08		conjunction	7018 Jan 07 20:00	18°る24'53	
min. Earth dist.	7012 Jun 09 21:18		17.30719 AU	minimum elong	7018 Jan 07 20:00	18° る 24'53	0°03'01
direct	7012 Aug 24 11:04	20° 🖈 11'11		behind sun begin	7018 Jan 07 13:22	18°る23'52	
evening set	7012 Nov 28 02:41	23° ∡ 740′55		behind sun end	7018 Jan 08 02:39	18° る 25'54	10 46651 ATT
. ,.	7010 D 14 12 10	240 74207	0017124	max. Earth dist.	7018 Jan 07 09:13		19.46651 AU
conjunction	7012 Dec 14 13:10	24° 🖈 42'37		morning rise	7018 Jan 23 22:32	19° る 25'01	
minimum elong	7012 Dec 14 13:10	24° 🖈 42'37	0°17'39	retrograde	7018 Apr 25 08:48	22°る45'12	0005127
max. Earth dist.	7012 Dec 13 20:14		19.31498 AU	opposition	7018 Jul 08 12:23	20°₹43′28	
morning rise	7012 Dec 30 20:32	25° 🖈 43'51		min. Earth dist.	7018 Jul 08 20:29		17.48916 AU
retrograde	7013 Apr 01 14:35	29° 🗷 06'36	0017104	direct	7018 Sep 23 06:33	18°る38'14	
opposition	7013 Jun 14 08:09	27° ∡ 704'13	0°17'24	evening set	7018 Dec 27 14:26	22° る 05'05	
min. Earth dist.	7013 Jun 14 22:33		17.32437 AU		7010 1 10 10 10	220	0007111
direct	7013 Aug 29 14:05	24° 🖈 58'17		conjunction	7019 Jan 12 19:10	23°る05'25	
evening set	7013 Dec 03 06:18	28° ₹ 27'48		minimum elong	7019 Jan 12 19:10	23° る 05'25	0-0706
	7012 D 10 16 00	200 72002	0012124	behind sun begin	7019 Jan 12 13:02	23° る 04'29	
conjunction	7013 Dec 19 16:00	29° 🖈 29'20	0°13'34	behind sun end	7019 Jan 13 01:19	23° ろ 06'21	10.51220 433
minimum elong	7013 Dec 19 16:00	29° 🗷 29'20	0°13'39	max. Earth dist.	7019 Jan 12 10:27		19.51320 AU
behind sun begin	7013 Dec 19 12:24	29° ₹ 28'47		morning rise	7019 Jan 28 20:37	24°₹05'17	
behind sun end	7013 Dec 19 19:36	29° 🖈 29'53	10.22.450 : **	retrograde	7019 Apr 30 05:02	27°る24'53	0010100
max. Earth dist.	7013 Dec 19 00:28		19.33470 AU	opposition	7019 Jul 13 12:37	25° る 23'22	
	7013 Dec 27 18:47	0°る		min. Earth dist.	7019 Jul 13 20:23		17.53835 AU
morning rise	7014 Jan 04 22:24	0°る30'24		direct	7019 Sep 28 08:07	23°る18'26	
retrograde	7014 Apr 06 15:14	3° る 52'42		evening set	7020 Jan 01 13:39	26° る 44'30	

minimum elong	7032 Mar 10 22:14	21° ₩ 18'15	0°46'34	opposition	7038 Oct 07 07:12	18° Ƴ 31'51	-0°56'16
max. Earth dist.	7032 Mar 11 06:31		20.32843 AU	min. Earth dist.	7038 Oct 06 17:06		18.73392 AU
morning rise	7032 Mar 26 15:08	22° ∺ 14'25		direct	7038 Dec 23 04:56	16° Ƴ 33'27	
retrograde	7032 Jun 26 10:09	25° ∺ 25'27		evening set	7039 Mar 24 19:28	19° Ƴ 39'15	
opposition	7032 Sep 10 16:11	23° ∺ 26′07	-0°52'26	-			
min. Earth dist.	7032 Sep 10 07:14	23°) €27'02	18.36214 AU	conjunction	7039 Apr 09 11:28	20° Ƴ 33'57	-0°50'43
direct	7032 Nov 26 19:40	21°) €25'36		minimum elong	7039 Apr 09 11:28	20° Ƴ 33'57	0°50'45
evening set	7033 Feb 27 15:24	24°) €37'35		max. Earth dist.	7039 Apr 10 02:49	20° Ƴ 36′12	20.75960 AU
				morning rise	7039 Apr 25 03:55	21° Y 28'44	
conjunction	7033 Mar 15 08:54	25°) 33′38	-0°47'58	retrograde	7039 Jul 26 14:34	24° Y 36'17	
minimum elong	7033 Mar 15 08:54	25° ∺ 33'38	0°47'57	opposition	7039 Oct 11 19:40	22° Y 37'49	-0°55'54
max. Earth dist.	7033 Mar 15 19:17	25° ₩ 35'11	20.39560 AU	min. Earth dist.	7039 Oct 11 04:10	22° Ƴ 39'22	18.78463 AU
morning rise	7033 Mar 31 01:27	26° ∺ 29'34		direct	7039 Dec 27 17:25	20° Ƴ 39'40	
retrograde	7033 Jun 30 22:56	29°) 40′00		evening set	7040 Mar 28 02:09	23° Y 44'33	
opposition	7033 Sep 15 08:08	27°) 40′51					
min. Earth dist.	7033 Sep 14 21:27	27°) 41′56	18.42892 AU	conjunction	7040 Apr 12 18:04	24° Y 39'05	-0°50'16
direct	7033 Dec 01 12:46	25°) 40′43		minimum elong	7040 Apr 12 18:04	24° Ƴ 39'05	
evening set	7034 Mar 04 01:47	28° ¥ 51'36		max. Earth dist.	7040 Apr 13 09:26		20.80812 AU
				morning rise	7040 Apr 28 10:49	25° Ƴ 33'44	
conjunction	7034 Mar 19 18:44	29°) 47′23		retrograde	7040 Jul 29 22:56	28° Ƴ 40'52	
minimum elong	7034 Mar 19 18:44	29°) 47′23	0°49'06	opposition	7040 Oct 15 07:30	26° Ƴ 42'24	
max. Earth dist.	7034 Mar 20 05:38		20.46191 AU	min. Earth dist.	7040 Oct 14 16:36		18.83111 AU
	7034 Mar 23 07:19	$0^{\circ}\mathbf{\Upsilon}$		direct	7040 Dec 31 02:20	24° Ƴ 44'28	
morning rise	7034 Apr 04 11:12	0° Y 43′06		evening set	7041 Apr 01 08:08	27° Ƴ 48'28	
retrograde	7034 Jul 05 10:19	3° Y 53′00					
opposition	7034 Sep 19 23:33	1° Y 53'59		conjunction	7041 Apr 17 00:14	28° Y 42'51	
min. Earth dist.	7034 Sep 19 12:19		18.49473 AU	minimum elong	7041 Apr 17 00:15	28° Y 42'51	0°49'35
	7034 Nov 20 21:44	30° ₹		max. Earth dist.	7041 Apr 17 16:25	28° Y 45'13	20.85252 AU
direct	7034 Dec 06 02:06	29° ¥ 54'15		morning rise	7041 May 02 17:13	29° Ƴ 37'23	
	7034 Dec 21 02:43	$0^{\circ}\Upsilon$			7041 May 09 10:19	0°8	
evening set	7035 Mar 08 11:21	3° Y 04′03		retrograde	7041 Aug 03 08:14	2° 8 44'08	
		2000		opposition	7041 Oct 19 18:40	0° 8 45'39	
conjunction	7035 Mar 24 04:04	3° Y 59'36		min. Earth dist.	7041 Oct 19 02:25	_	18.87337 AU
minimum elong	7035 Mar 24 04:04	3° Y 59'36	0°49'58		7041 Nov 08 07:21	30°RΥ	
max. Earth dist.	7035 Mar 24 16:42		20.52694 AU	direct	7042 Jan 04 13:35	28° Y 47'54	
morning rise	7035 Apr 08 20:19	4°Υ55'05			7042 Feb 27 22:32	0° 8	
retrograde	7035 Jul 09 21:49	8° Y 04'27		evening set	7042 Apr 05 13:38	1° 8 51'03	
opposition	7035 Sep 24 14:21	6° Y 05'37			5040 4 05 46	2014.5110	0040125
min. Earth dist.	7035 Sep 24 01:26		18.55877 AU	conjunction	7042 Apr 21 05:46	2° 8 45'19	
direct	7035 Dec 10 17:15	4°Υ'06'15		minimum elong	7042 Apr 21 05:46	2° 8 45'19	
evening set	7036 Mar 11 20:15	7° Y 15′00		max. Earth dist.	7042 Apr 21 22:09		20.89278 AU
· · · · · · · · · · · ·	7026 Maii 27, 12-25	8° Ƴ 10'18	0950122	morning rise	7042 May 06 23:07	3° と 39'45 6° と 46'09	
conjunction	7036 Mar 27 12:35 7036 Mar 27 12:35	8° Υ 10'18		retrograde	7042 Aug 07 15:28 7042 Oct 24 05:27	4° 8 47'39	0952105
minimum elong max. Earth dist.	7036 Mar 27 12.33 7036 Mar 28 01:36		20.58982 AU	opposition min. Earth dist.	7042 Oct 24 03.27 7042 Oct 23 13:42		-0 33 03 18.91190 AU
morning rise	7036 Mai 28 01:30 7036 Apr 12 04:54	9° Υ 05'36	20.36962 AU	direct	7042 Oct 23 13.42 7043 Jan 08 21:27	2° 8 50'03	18.91190 AU
retrograde	7036 Apr 12 04:34 7036 Jul 13 08:26	12° Υ 14'29		evening set	7043 Apr 09 18:39	5° 8 52'27	
opposition	7036 Sep 28 04:39	12 γ 14 29 10° Υ 15'46	-0°56'10	evening set	7043 Apr 09 18.39	3 03221	
min. Earth dist.	7036 Sep 27 15:39		18.62048 AU	conjunction	7043 Apr 25 11:02	6° 8 46'35	-0°47'23
direct	7036 Dec 14 05:07	8° Υ 16'45	10.02010110	minimum elong	7043 Apr 25 11:02	6° 8 46'35	
evening set	7037 Mar 16 04:34	11° Υ 24'30		max. Earth dist.	7043 Apr 26 04:21	_	20.92964 AU
e venning see	7037 17141 10 01.51	11 12130		morning rise	7043 May 11 04:43	7° 8 40'56	20.92901710
conjunction	7037 Mar 31 20:49	12° Y 19'35	-0°50'52	retrograde	7043 Aug 12 00:17	10° 8 47'03	
minimum elong	7037 Mar 31 20:48	12° Υ 19'35		opposition	7043 Oct 28 15:32	8° 8 48'31	-0°51'37
max. Earth dist.	7037 Apr 01 11:05		20.65003 AU	min. Earth dist.	7043 Oct 27 22:14		18.94710 AU
morning rise	7037 Apr 01 11:03 7037 Apr 16 13:02	13° Υ 14'42	20.02003710	direct	7044 Jan 13 06:58	6° 8 51'05	-0.5 1710 110
retrograde	7037 Jul 17 18:58	16° Υ 23'06		evening set	7044 Apr 12 23:18	9° 8 52'46	
opposition	7037 Oct 02 18:02	14° Υ 24'30	-0°56'22		-r	. 552.0	
min. Earth dist.	7037 Oct 02 10:02 7037 Oct 02 03:38		18.67901 AU	conjunction	7044 Apr 28 15:52	10° 8 46'50	-0°45'58
direct	7037 Dec 18 18:34	12° Y 25'49		minimum elong	7044 Apr 28 15:52	10° 8 46'50	
evening set	7038 Mar 20 12:25	15° Υ 32'34		max. Earth dist.	7044 Apr 29 09:26		20.96317 AU
C				morning rise	7044 May 14 10:03	11° 8 41'07	
conjunction	7038 Apr 05 04:23	16° Ƴ 27'27	-0°50'55	retrograde	7044 Aug 15 07:06	14° 8 47'00	
minimum elong	7038 Apr 05 04:23	16° Ƴ 27'27	0°50'56	min. Earth dist.	7044 Oct 31 08:31		18.97913 AU
max. Earth dist.	7038 Apr 05 18:45	16° Ƴ 29'34	20.70672 AU	opposition	7044 Nov 01 01:16	12° 8 48'27	
morning rise	7038 Apr 20 20:46	17° Ƴ 22'24		direct	7045 Jan 16 13:42	10° 8 51'11	
retrograde	7038 Jul 22 04:33	20° Ƴ 30′22		evening set	7045 Apr 17 03:38	13° 8 52'16	

behind sun end	7057 Jun 19 13:28	2°\$25'16	direct	7063 Mar 29 23:51	22° © 37'51	
max. Earth dist.	7057 Jun 19 23:07	2°526'40 21.01352	2 AU evening set	7063 Jun 28 03:49	25° © 39'30	
morning rise	7057 Jul 05 11:57	3° © 19'36	-			
retrograde	7057 Oct 07 16:26	6°\$26'24	conjunction	7063 Jul 14 09:00	26° © 35'13	0°10'00
opposition	7057 Dec 24 08:01	4°\$27'02 -0°10'36	minimum elong	7063 Jul 14 09:00	26° © 35'13	0°09'56
min. Earth dist.	7057 Dec 23 18:28	4°928'24 18.99951	AU behind sun begin	7063 Jul 14 03:36	26° © 34'27	
direct	7058 Mar 09 19:16	2°ള30'08	behind sun end	7063 Jul 14 14:23	26° © 35'58	
evening set	7058 Jun 07 14:16	5° 5 29'17	max. Earth dist.	7063 Jul 14 18:19	26° 5 36'32	20.79071 AU
			morning rise	7063 Jul 30 17:21	27° 5 31'23	
conjunction	7058 Jun 23 15:09	6°\$23'59 -0°07'55		7063 Sep 22 00:34	$0 {\circ} \Omega$	
minimum elong	7058 Jun 23 15:09	6°523'59 0°08'00	retrograde	7063 Nov 02 06:02	0° Ω 41′02	
behind sun begin	7058 Jun 23 09:13	6° 5 23'09		7063 Dec 14 04:07	30° ₹ 5	
behind sun end	7058 Jun 23 21:04	6° ॐ 24'48	opposition	7064 Jan 18 07:23	28° © 40'55	
max. Earth dist.	7058 Jun 24 04:55	6°\$25'56 20.98449		7064 Jan 17 23:04		18.76648 AU
morning rise	7058 Jul 09 19:17	7° © 19'09	direct	7064 Apr 02 07:56	26°5643'05	
retrograde	7058 Oct 12 00:26	10°526'18	evening set	7064 Jul 01 13:39	29°5645'28	
opposition	7058 Dec 28 15:30	8°526'46 -0°06'43		7064 Jul 05 20:01	$0 {\circ} \Omega$	
min. Earth dist.	7058 Dec 28 03:27	8°\$27'59 18.96881		5064 X 1 15 10 20	00.044106	0010101
direct	7059 Mar 14 00:15	6°529'43	conjunction	7064 Jul 17 19:38	0° Ω 41′26	
evening set	7059 Jun 11 20:33	9° 5 29'12	minimum elong	7064 Jul 17 19:38	0° Ω 41'26	0°13'28
	7050 1 27 22 10	10062405 000424	behind sun begin	7064 Jul 17 15:57	0° Ω 40'55	
conjunction	7059 Jun 27 22:18 7059 Jun 27 22:19	10°524'05 -0°04'24	behind sun end	7064 Jul 17 23:20	0° Ω 41'57	20.74124 ATT
minimum elong	7059 Jun 27 22:19 7059 Jun 27 15:49	10°\$24'05 0°04'28 10°\$23'10	max. Earth dist.	7064 Jul 18 03:40	1° Ω 37'51	20.74134 AU
behind sun begin behind sun end	7059 Jun 28 04:50	10 \$23 10 10°\$24'59	morning rise retrograde	7064 Aug 03 04:44 7064 Nov 05 16:23	4°Ω48'06	
max. Earth dist.	7059 Jun 28 11:29	10 \$24 39 10°\$25'57 20.95225	•	7064 Nov 03 16:23 7065 Jan 21 16:22	2°Ω47'52	0016154
morning rise	7059 Jul 14 03:18	10 \$23 37 20.93223 11°\$19'25	min. Earth dist.	7065 Jan 21 10:13		18.71508 AU
retrograde	7059 Oct 16 10:44	14° © 26'58	direct	7065 Apr 06 14:27	0° Ω 49'48	16.71306 AU
opposition	7060 Jan 01 22:50	12°527'18 -0°02'48	evening set	7065 Jul 06 00:13	3°Ω52'58	
min. Earth dist.	7060 Jan 01 10:33	12° 5 28'33 18.93491	•	7003 341 00 00.13	J 6632 30	
direct	7060 Mar 17 06:21	10° © 30'06	conjunction	7065 Jul 22 07:04	4° Ω 49'11	0°17'00
evening set	7060 Jun 15 03:26	13° © 30'01	minimum elong	7065 Jul 22 07:04	4°Ω49'11	0°16'56
evening sec	7000 3411 13 03.20	13 30001	max. Earth dist.	7065 Jul 22 13:18		20.68799 AU
conjunction	7060 Jul 01 06:02	14°\$25'04 -0°00'48	morning rise	7065 Aug 07 16:57	5°Ω45'50	20.00733110
minimum elong	7060 Jul 01 06:01	14°525'04 0°00'54	retrograde	7065 Nov 10 06:19	8° Ω 56'43	
behind sun begin	7060 Jun 30 23:23	14°524'09	opposition	7066 Jan 26 01:49	6° Ω 56'18	0°20'44
behind sun end	7060 Jul 01 12:39	14°926'00	min. Earth dist.	7066 Jan 25 20:19		18.65963 AU
max. Earth dist.	7060 Jul 01 18:20	14°526'50 20.91669	AU direct	7066 Apr 10 23:40	4° Ω 57'59	
morning rise	7060 Jul 17 11:52	15° 5 20'36	evening set	7066 Jul 10 11:28	8° Ω 01'56	
asc. node	7060 Sep 19 11:35	18° 5 06'13				
retrograde	7060 Oct 19 19:35	18° 5 28'36	conjunction	7066 Jul 26 19:11	8° Ω 58′25	0°20'26
opposition	7061 Jan 05 06:36	16°\$28'49 0°01'09	minimum elong	7066 Jul 26 19:11	8° Ω 58′25	0°20'23
min. Earth dist.	7061 Jan 04 19:58	16°529'54 18.89775	AU max. Earth dist.	7066 Jul 27 00:08	8° N 59'08	20.63045 AU
direct	7061 Mar 21 11:31	14° © 31'29	morning rise	7066 Aug 12 05:48	9° £ 55′20	
evening set	7061 Jun 19 10:48	17° 5 31'53	retrograde	7066 Nov 14 17:54	13° Ω 06′50	
			opposition	7067 Jan 30 11:47	11° Ω 06′14	0°24'29
conjunction	7061 Jul 05 14:14	18°\$27'09 0°02'52	min. Earth dist.	7067 Jan 30 08:22		18.60015 AU
minimum elong	7061 Jul 05 14:14	18°527'09 0°02'48	direct	7067 Apr 15 07:44	9° Ω 07'36	
behind sun begin	7061 Jul 05 07:36	18° © 26'13	evening set	7067 Jul 14 23:38	12° Ω 12'24	
behind sun end	7061 Jul 05 20:52	18° © 28'05			_	
max. Earth dist.	7061 Jul 06 01:45	18°528'47 20.87805	•	7067 Jul 31 08:11	13° Ω 09'09	
morning rise	7061 Jul 21 20:55	19° © 22'53	minimum elong	7067 Jul 31 08:11	13° Ω 09'09	
retrograde	7061 Oct 24 07:14	22° © 31'24	max. Earth dist.	7067 Jul 31 11:09		20.56932 AU
opposition	7062 Jan 09 14:29	20°531'29 0°05'07	morning rise	7067 Aug 16 19:37	14° Ω 06'20	
min. Earth dist.	7062 Jan 09 03:50	20°532'34 18.85744		7067 Sep 02 03:01	15° Ω	
direct	7062 Mar 25 18:24	18°\$34'00 21°\$35'00	retrograde	7067 Nov 19 08:20	17° Ω 18'27 15° Ω 17'38	0020100
evening set	7062 Jun 23 18:58	21 3 55 00	opposition min. Earth dist.	7068 Feb 03 21:51 7068 Feb 03 19:15		18.53738 AU
conjunction	7062 Jul 09 23:13	22° © 30'29 0°06'27	mm. Earth dist.	7068 Feb 03 19:15 7068 Feb 10 23:55	15°RΩ	10.33/30 AU
minimum elong	7062 Jul 09 23:14	22°S30'29 0°06'22	direct	7068 Apr 18 17:47	13° Ω 18'37	
behind sun begin	7062 Jul 09 25:14 7062 Jul 09 16:57	22°\$29'36	uncet	7068 Jun 22 01:46	15 δί 18 57	
behind sun end	7062 Jul 10 05:31	22° © 31'22	evening set	7068 Jul 18 12:35	15 δ ε 16° Ω 24'20	
max. Earth dist.	7062 Jul 10 03:31 7062 Jul 10 09:49	22°©31'59 20.83606	•	7000 Jul 10 12.33	10 062420	
morning rise	7062 Jul 26 06:43	23° © 26'26	conjunction	7068 Aug 03 22:00	17° Ω 21'22	0°27'00
retrograde	7062 Oct 28 16:55	26° © 35'29	minimum elong	7068 Aug 03 22:00	17° Ω 21'22	
opposition	7063 Jan 13 22:49	24°\$35'29 0°09'04	max. Earth dist.	7068 Aug 03 23:52		20.50505 AU
min. Earth dist.	7063 Jan 13 14:03	24°\$36'23 18.81376		7068 Aug 20 10:02	18° Ω 18'49	
					. 55-5 .7	

retrograde	7068 Nov 22 21:19	21° Ω 31'34		evening set	7075 Aug 19 07:40	16° m 34'33	
opposition	7069 Feb 07 08:35	19° Ω 30'31	0°31'40	C	Č	•	
min. Earth dist.	7069 Feb 07 07:47	19° Ω 30'36	18.47189 AU	conjunction	7075 Sep 04 21:51	17° ™ 33'40	0°44'59
direct	7069 Apr 23 02:54	17° Ω 31′08		minimum elong	7075 Sep 04 21:51	17° m 33'40	0°44'58
evening set	7069 Jul 23 02:12	20° Ω 37'47		max. Earth dist.	7075 Sep 04 14:00	17° m 32'30	20.03022 AU
				morning rise	7075 Sep 21 13:35	18° m 33'02	
conjunction	7069 Aug 08 12:20	21° Ω 35′06	0°30'06	retrograde	7075 Dec 24 19:43	21° m 50'40	
minimum elong	7069 Aug 08 12:20	21° Ω 35′06	0°30'03	opposition	7076 Mar 09 02:09	19° m 48'16	0°50'57
max. Earth dist.	7069 Aug 08 12:18	21° Ω 35′06	20.43864 AU	min. Earth dist.	7076 Mar 09 08:43	19° m 47'34	17.99726 AU
morning rise	7069 Aug 25 01:07	22° Ω 32'49		direct	7076 May 22 17:12	17° m 46'20	
retrograde	7069 Nov 27 12:55	25° Ω 46'15		evening set	7076 Aug 23 04:01	21° m 00'51	
opposition	7070 Feb 11 19:39	23° Ω 44'57					
min. Earth dist.	7070 Feb 11 19:33		18.40467 AU	conjunction	7076 Sep 08 18:52	22° Mp 00'17	0°46'40
direct	7070 Apr 27 13:56	21° Ω 45'10		minimum elong	7076 Sep 08 18:52	22° Mp 00'17	0°46'40
evening set	7070 Jul 27 16:45	24° Ω 52'49		max. Earth dist.	7076 Sep 08 10:50	-	19.96453 AU
				morning rise	7076 Sep 25 10:42	22° m 59'55	
conjunction	7070 Aug 13 03:43	25° Ω 50′26	0°33'04	retrograde	7076 Dec 28 14:59	26° Mp 18'15	
minimum elong	7070 Aug 13 03:43	25° Ω 50′26	0°33'01	opposition	7077 Mar 13 17:40	24° Mp 15'46	
max. Earth dist.	7070 Aug 13 02:59		20.37066 AU	min. Earth dist.	7077 Mar 14 01:12		17.93202 AU
morning rise	7070 Aug 29 17:00	26° Ω 48'25		direct	7077 May 27 08:57	22° Mp 13'32	
	7070 Nov 22 06:22	0° Mp		evening set	7077 Aug 28 01:24	25° m 29'16	
retrograde	7070 Dec 02 03:16	0° m/02'31			7077 0 12 16 22	2.60 m- 20150	0040107
annagition	7070 Dec 12 03:07	30°R Ω 28° Ω 00'58	0020114	conjunction	7077 Sep 13 16:32	26° Mp 28'59	0°48'06
opposition min. Earth dist.	7071 Feb 16 07:13 7071 Feb 16 08:39		0°38'14 18.33625 AU	minimum elong max. Earth dist.	7077 Sep 13 16:32 7077 Sep 13 05:59	26° Mp 28'59	0°48'05 19.89973 AU
direct	7071 Feb 16 08.39	26°Ω00'49	18.33023 AU		7077 Sep 13 03.39 7077 Sep 30 08:45	20 m/27 24 27° m/28'53	19.89973 AU
evening set	7071 May 01 23.36 7071 Aug 01 08:17	20° Ω 09'30		morning rise	7077 Nov 20 07:27	27 iliµ2633 0° Ω	
evening set	7071 Aug 01 08.17 7071 Aug 15 17:44	29 8 (09 30		retrograde	7077 Nov 20 07.27 7078 Jan 02 10:53	0° ≗ 47'56	
	70/1 Aug 13 17.44	V III		retrograde	7078 Feb 15 06:59	0 ==4730 30°RM)	
conjunction	7071 Aug 17 19:56	0° Mp 07'24	0°35'51	opposition	7078 Mar 18 09:59	28° Mp 45'20	0°54'09
minimum elong	7071 Aug 17 19:55	0° Mp 07'24	0°35'49	min. Earth dist.	7078 Mar 18 19:05	28° Mp 44'21	
max. Earth dist.	7071 Aug 17 17:07		20.30200 AU	direct	7078 Jun 01 01:20	26° Mp 42'46	17.00770710
morning rise	7071 Sep 03 09:55	1° Mp 05'40	20.30200710	evening set	7078 Sep 01 23:47	29° m 59'44	
retrograde	7071 Dec 06 20:31	4° m/20'28		evening sec	7078 Sep 02 01:34	0° ⊽	
opposition	7072 Feb 20 19:19	2° mp 18'41	0°41'15		7070 Sep 02 01.5 .	v –	
min. Earth dist.	7072 Feb 20 21:32		18.26745 AU	conjunction	7078 Sep 18 15:31	0° £ 59'45	0°49'14
direct	7072 May 05 12:10	0° m) 18'08		minimum elong	7078 Sep 18 15:31	0° ჲ 59'45	0°49'15
evening set	7072 Aug 05 00:37	3° m) 27'55		max. Earth dist.	7078 Sep 18 04:36	0° ჲ 58'06	19.83567 AU
Č	Č	•		morning rise	7078 Oct 05 07:43	1° ≏ 59'53	
conjunction	7072 Aug 21 13:03	4° Mp 26′07	0°38'27	retrograde	7079 Jan 07 07:54	5° ≏ 19'35	
minimum elong	7072 Aug 21 13:02	4° Mp 26′07	0°38'25	opposition	7079 Mar 23 02:52	3° ≏ 16'52	0°55'16
max. Earth dist.	7072 Aug 21 09:48	4° m 25′39	20.23303 AU	min. Earth dist.	7079 Mar 23 12:49	3° ≏ 15'47	17.80403 AU
morning rise	7072 Sep 07 03:22	5° m 24'40		direct	7079 Jun 05 19:43	1° ≏ 13'58	
retrograde	7072 Dec 10 12:23	8° Mp 40'09		evening set	7079 Sep 06 23:16	4° £ 32'09	
opposition	7073 Feb 24 08:02	6°₩38′11	0°44'02				
min. Earth dist.	7073 Feb 24 11:28	6°₩37'49	18.19862 AU	conjunction	7079 Sep 23 15:11	5° ≏ 32'26	0°50'05
direct	7073 May 09 23:26	4° ™ 37'15		minimum elong	7079 Sep 23 15:11	5° £ 32'26	0°50'05
evening set	7073 Aug 09 18:00	7°Mp48'10		max. Earth dist.	7079 Sep 23 01:35		19.77247 AU
				morning rise	7079 Oct 10 07:37	6° £ 32'49	
conjunction	7073 Aug 26 06:58	8° Mp 46'40	0°40'51	retrograde	7080 Jan 12 04:14	9° ≙ 53'07	
minimum elong	7073 Aug 26 06:58	8° Mp 46'40	0°40'50	opposition	7080 Mar 26 20:37	7° £ 50'16	0°56'03
max. Earth dist.	7073 Aug 26 01:37		20.16456 AU	min. Earth dist.	7080 Mar 27 08:20		17.74149 AU
morning rise	7073 Sep 11 21:54	9° m 45'29		direct	7080 Jun 09 13:49	5° Ω 47'00	
retrograde	7073 Dec 15 06:51	13° Mp 01'42	0046126	evening set	7080 Sep 10 23:17	9° ഫ 06'22	
opposition	7074 Feb 28 21:24	10° m 59'32	0°46'36		7000 0 27 15 27	100 0 00155	0050127
min. Earth dist.	7074 Mar 01 01:41		18.13058 AU	conjunction	7080 Sep 27 15:37	10° Ω 06'55	0°50'37 0°50'38
direct evening set	7074 May 14 13:02 7074 Aug 14 12:11	8° Mp 58'15 12° Mp 10'20		minimum elong max. Earth dist.	7080 Sep 27 15:37 7080 Sep 27 01:48	10° Ω 06'55	19.71059 AU
evening set	1017 Aug 14 12.11	12 HV 1020		morning rise	7080 Sep 27 01.48 7080 Oct 14 07:55	10 2 04 49 11° 2 07'31	17./1037 AU
conjunction	7074 Aug 31 01:56	13° m 09'09	0°43'02	retrograde	7080 Oct 14 07:33 7081 Jan 16 02:25	11 = 0731 14° £ 28'23	
minimum elong	7074 Aug 31 01:56	13°M)09'09	0°43'00	opposition	7081 Jan 10 02:25	14 = 28 23 12° £ 25'25	0°56'30
max. Earth dist.	7074 Aug 31 01:30 7074 Aug 30 20:25	•	20.09687 AU	min. Earth dist.	7081 Mai 31 14:30 7081 Apr 01 03:01		17.68046 AU
morning rise	7074 Aug 30 20:23 7074 Sep 16 17:09	14° Mp 08' 15	20.0700/ AU	direct	7081 Apr 01 03:01 7081 Jun 14 10:38	12 ≅ 24 00 10° £ 21'47	17.000TO AU
retrograde				evening set	7081 Sep 16 00:16	13° ⊆ 42'18	
opposition	7074 Dec 20 00:24	1/*1102510					
opposition	7074 Dec 20 00:24 7075 Mar 05 11:29	17° m/25'10 15° m/22'53	0°48'54	evening sec	7001 Sep 10 00.10	13 — 12 10	
min. Earth dist.		15° m 22'53	0°48'54 18.06335 AU		7081 Oct 02 16:41	14° ≙ 43'05	0°50'49
	7075 Mar 05 11:29	15° m 22'53		conjunction minimum elong	•		

max. Earth dist.	7081 Oct 02 00:40	14° ≏ 40'38	19.65064 AU	opposition	7088 May 02 16:12	15° M 11'21	
morning rise	7081 Oct 19 09:02	15° £ 43'54		min. Earth dist.	7088 May 03 08:25		17.35694 AU
retrograde	7082 Jan 20 23:12	19° £ 05'18	005604		7088 May 06 23:37	15°RM	
opposition	7082 Apr 05 09:55	17° £ 02'11		direct	7088 Jul 16 23:12	13°M05'40	
min. Earth dist.	7082 Apr 05 23:45		17.62187 AU	. ,	7088 Sep 22 17:13	15°M	
direct	7082 Jun 19 06:15	14° £ 58'11		evening set	7088 Oct 19 22:40	16°M32'52	
evening set	7082 Sep 21 01:48	18° ≏ 19'49		conjunction	7088 Nov 05 14:28	17° M .34'50	0°43'00
conjunction	7082 Oct 07 18:31	19° £ 20'50	0°50'42	minimum elong	7088 Nov 05 14:28	17°M34'50	0°43'04
minimum elong	7082 Oct 07 18:31 7082 Oct 07 18:31	19° £ 20′50	0°50'44	max. Earth dist.	7088 Nov 04 19:24	17°M31'52	
max. Earth dist.	7082 Oct 07 10:31 7082 Oct 07 02:21	19° ⊆ 18'21		morning rise	7088 Nov 22 04:24	18°M36'34	17.54555710
morning rise	7082 Oct 24 10:41	20° £ 21'50	17.075 10 110	retrograde	7089 Feb 22 22:14	22°M00'15	
retrograde	7083 Jan 25 22:34	23° ≏ 43'42		opposition	7089 May 07 15:09	19°M56'53	0°46'41
opposition	7083 Apr 10 05:27	21° ≏ 40'29	0°56'16	min. Earth dist.	7089 May 08 06:29		17.33216 AU
min. Earth dist.	7083 Apr 10 19:13	21° ≏ 38'58	17.56620 AU	direct	7089 Jul 22 01:00	17°M51'06	
direct	7083 Jun 24 05:03	19° ≏ 36′07		evening set	7089 Oct 25 03:32	21°M18'59	
evening set	7083 Sep 26 04:10	22° ≏ 58'49					
				conjunction	7089 Nov 10 19:02	22°M21'02	0°40'37
conjunction	7083 Oct 12 20:49	24° ≏ 00'03	0°50'15	minimum elong	7089 Nov 10 19:02	22°M21'02	0°40'41
minimum elong	7083 Oct 12 20:49	24° ≙ 00'03	0°50'18	max. Earth dist.	7089 Nov 10 00:42	22°M18'10	19.32162 AU
max. Earth dist.	7083 Oct 12 03:05	23° ≏ 57'19	19.53949 AU	morning rise	7089 Nov 27 08:12	23°M22'48	
morning rise	7083 Oct 29 12:49	25° ≏ 01'14		retrograde	7090 Feb 27 22:33	26°M46'36	
retrograde	7084 Jan 30 20:17	28° ≙ 23'31		opposition	7090 May 12 14:38	24°M43'21	0°43'52
opposition	7084 Apr 14 01:39	26° £ 20'11	0°55'36	min. Earth dist.	7090 May 13 06:53		17.31305 AU
min. Earth dist.	7084 Apr 14 17:00		17.51431 AU	direct	7090 Jul 27 01:31	22°M37'29	
direct	7084 Jun 28 02:03	24° £ 15′28		evening set	7090 Oct 30 08:50	26°M05'59	
evening set	7084 Sep 30 06:54	27° ≏ 39'12		conjunction	7090 Nov 15 23:43	27°M08'04	0°37'57
conjunction	7084 Oct 16 23:37	28° ≏ 40'38	0°49'28	minimum elong	7090 Nov 15 23:43	27°11L08'04 27°11L08'04	0°38'01
minimum elong	7084 Oct 16 23:37 7084 Oct 16 23:37	28° ⊆ 40'38	0°49'30	max. Earth dist.	7090 Nov 15 23:43 7090 Nov 15 04:25	27°11L08'04	
max. Earth dist.	7084 Oct 16 25:37 7084 Oct 16 05:47		19.48974 AU	morning rise	7090 Dec 02 12:21	28°M09'50	17.50526 AC
morning rise	7084 Nov 02 15:19	29° £ 41'57	19.10971110	morning rise	7091 Jan 04 07:57	0° ⊼	
morning not	7084 Nov 07 15:57	0°M		retrograde	7091 Mar 04 23:31	1° × ⁷ 33'42	
retrograde	7085 Feb 03 20:37	3°ML04'37			7091 May 06 07:12	30°RM₊	
opposition	7085 Apr 18 22:22	1°M01'12	0°54'32	opposition	7091 May 17 14:35	29°M30'33	0°40'45
min. Earth dist.	7085 Apr 19 13:09	0°M59'35	17.46685 AU	min. Earth dist.	7091 May 18 06:12	29°M28'50	17.29930 AU
	7085 May 13 06:42	30° ₹ Ω		direct	7091 Aug 01 04:57	27°M24'37	
direct	7085 Jul 03 01:45	28° ≏ 56'11			7091 Oct 20 12:39	0° ∡ ″	
	7085 Aug 21 14:15	0° M		evening set	7091 Nov 04 14:04	0° ≯ 53'37	
evening set	7085 Oct 05 10:07	2°M20'51		max. Earth dist.	7091 Nov 20 10:18	1° ₹ 52'51	19.29397 AU
max. Earth dist.	7085 Oct 21 08:14	3°M₁9'36	19.44469 AU			_	
				conjunction	7091 Nov 21 04:31	1° ₹ 55'43	0°35'00
conjunction	7085 Oct 22 02:43	3°M22'27	0°48'20	minimum elong	7091 Nov 21 04:31	1° 🖈 55'43	0°35'05
minimum elong	7085 Oct 22 02:43	3°M22'27	0°48'23	morning rise	7091 Dec 07 16:12	2° x ⁷ 57'27	
morning rise	7085 Nov 07 18:04 7086 Feb 08 19:49	4°M23'56 7°M46'55		retrograde	7092 Mar 08 23:53	6° ≯ 21'18 4° ≯ 18'16	0°37'20
retrograde opposition	7086 Apr 23 19:50	5°M43'27	0°53'07	opposition min. Earth dist.	7092 May 21 15:05 7092 May 22 07:15		17.29045 AU
min. Earth dist.	7086 Apr 24 11:54		17.42449 AU	direct	7092 Aug 05 07:27	2°×10'30	17.27043 AO
direct	7086 Jul 07 23:47	3°M38'09	-,211,710	evening set	7092 Nov 08 19:29	5° × ⁷ 41'39	
evening set	7086 Oct 10 13:56	7° ML 03'44		evening sec	70,21101 00 1,.2	0 7. 1107	
max. Earth dist.	7086 Oct 26 11:37		19.40511 AU	conjunction	7092 Nov 25 09:07	6° ∡ ¹43'43	0°31'49
				minimum elong	7092 Nov 25 09:07	6° х 43'43	0°31'53
conjunction	7086 Oct 27 06:22	8°ML05'29	0°46'53	max. Earth dist.	7092 Nov 24 13:53	6° х 40′42	19.28765 AU
minimum elong	7086 Oct 27 06:22	8°ML05'29	0°46'55	morning rise	7092 Dec 11 20:10	7° ∡ ¹45'24	
morning rise	7086 Nov 12 21:20	9° M 07'04		retrograde	7093 Mar 14 00:40	11° ₹ 09′10	
retrograde	7087 Feb 13 20:54	12°MJ30'19		opposition	7093 May 26 15:45	9° ₰ 06'14	0°33'39
opposition	7087 Apr 28 17:35	10°M26'51	0°51'20	min. Earth dist.	7093 May 27 07:25		17.28659 AU
min. Earth dist.	7087 Apr 29 08:49		17.38775 AU	direct	7093 Aug 10 11:48	7° ∡ °00′13	
direct	7087 Jul 13 00:22	8°M21'19		evening set	7093 Nov 14 00:33	10° ₹ 29'49	
evening set	7087 Oct 15 18:11	11° M 47'45				=-	
	5 00 5	1000	0045105	conjunction	7093 Nov 30 13:42	11° 🗷 31'50	0°28'24
conjunction	7087 Nov 01 10:24	12°M49'38	0°45'06	minimum elong	7093 Nov 30 13:42	11° 🗷 31'50	0°28'29
minimum elong	7087 Nov 01 10:24	12°M49'38	0°45'08	max. Earth dist.	7093 Nov 29 19:49		19.28615 AU
max. Earth dist.	7087 Oct 31 15:46	12°IIL46'44 13°IL51'18	19.37125 AU	morning rise	7093 Dec 16 23:46	12° х 33'27 15° х 57'02	
morning rise	7087 Nov 18 00:46 7087 Dec 07 16:55	13°11651'18		retrograde opposition	7094 Mar 19 01:16 7094 May 31 16:46	13° × '5/'02 13° × '54'13	0°29'44
retrograde	7087 Dec 07 16:55 7088 Feb 18 20:52	13°11L 17°11L14'47		min. Earth dist.	7094 May 31 16:46 7094 Jun 01 08:29		17.28738 AU
.0.1051440	7000100 10 20.32	1, IIV177/		urur urst.	70713un 01 00.29	15 7 32 30	. , .20130 AU

direct	7094 Aug 15 15:30	11° ∡¹ 48'09		opposition	7100 Jun 29 23:17	12° る 29'56	0°03'02
evening set	7094 Nov 19 05:42	15° ∡ 17'53		min. Earth dist.	7100 Jun 30 09:55	12° る 28'47 1	17.40178 AU
				direct	7100 Sep 14 13:10	10° る 24'12	
conjunction	7094 Dec 05 17:54	16° ∡ 19'49	0°24'48	evening set	7100 Dec 19 01:01	13°る52'20	
				evening set	/100 Dec 17 01.01	13 032 20	
minimum elong	7094 Dec 05 17:54	16° х 19'49	0°24'52				
max. Earth dist.	7094 Dec 04 23:11		19.28940 AU	conjunction	7101 Jan 04 07:48		0°00'37
morning rise	7094 Dec 22 03:13	17° ₹ '21'20		minimum elong	7101 Jan 04 07:47	14° る 53'14	0°00'42
retrograde	7095 Mar 24 01:39	20° х 44'40		behind sun begin	7101 Jan 04 01:08	14° る 52'12	
opposition	7095 Jun 05 17:50	18° ∡ ¹41'57	0°25'36	behind sun end	7101 Jan 04 14:27	14° る 54'15	
min. Earth dist.	7095 Jun 06 09:14	18° ∡ 740'16	17.29312 AU	max. Earth dist.	7101 Jan 03 19:57	14° る 51'23 1	19.42063 AU
direct	7095 Aug 20 19:25	16° х 35′52	17.27312110	morning rise	7101 Jan 20 11:17	15° る 53'38	2003 110
	-			-			
evening set	7095 Nov 24 10:18	20° ∡ 05'37		desc. node	7101 Feb 25 16:18	17° る 53'09	
				retrograde	7101 Apr 21 22:04	19° る 14'25	
conjunction	7095 Dec 10 21:50	21° ₹ 07'26	0°21'01	opposition	7101 Jul 04 23:55	17° る 12'27 -	0°01'37
minimum elong	7095 Dec 10 21:50	21° ₹ 07'26	0°21'06	min. Earth dist.	7101 Jul 05 10:10	17° る 11'21 1	17.44103 AU
max. Earth dist.	7095 Dec 10 04:43	21° ₹ '04'45	19.29766 AU	direct	7101 Sep 19 13:59	15° る 06'56	
morning rise	7095 Dec 27 06:07	22° ∡ 08'49		evening set	7101 Dec 24 01:53	18° ප 34'31	
-				evening set	7101 Dec 24 01.33	10 05451	
retrograde	7096 Mar 28 02:28	25° ∡ 31'51					
opposition	7096 Jun 09 19:06	23° х 29'14	0°21'18	conjunction	7102 Jan 09 07:41	19° る 35'09 -	
min. Earth dist.	7096 Jun 10 09:47	23° х 27'38	17.30381 AU	minimum elong	7102 Jan 09 07:40	19° る 35'09	0°03'34
direct	7096 Aug 24 23:35	21° х 23'09		behind sun begin	7102 Jan 09 01:04	19° る 34'08	
evening set	7096 Nov 28 14:25	24° х 52'46		behind sun end	7102 Jan 09 14:17	19° る 36'09	
max. Earth dist.	7096 Dec 14 07:44		19.31101 AU	max. Earth dist.	7102 Jan 08 21:05	19° る 33'30 1	19 46280 AU
max. Latti dist.	7070 DCC 14 07.44	23 × 31 43	17.51101710	max. Earth dist.	/102 Juli 00 21.03	17 03330 1	19.40200710
	700 (D 15 00 50	250 75 427	0017106				
conjunction	7096 Dec 15 00:59	25° ∡ 54′27	0°17'06				
minimum elong	7096 Dec 15 00:59	25° ₹ 54'27	0°17'11				
morning rise	7096 Dec 31 08:27	26° ₹ 55'42					
	7097 Mar 07 12:17	0°ರ					
retrograde	7097 Apr 02 01:57	0°る18'22					
retrograde	-	30°R <i>≯</i> 7					
	7097 Apr 28 01:59	•	0016171				
opposition	7097 Jun 14 20:19	28° ≯ 15'50	0°16'51				
min. Earth dist.	7097 Jun 15 10:43	28° ҂ 14'16	17.31985 AU				
direct	7097 Aug 30 02:31	26° х 09′45					
evening set	7097 Dec 03 18:01	29° ₹ 39'10					
8	7097 Dec 09 08:40	0°る					
	7077 Dec 07 00.10	ů					
. ,.	7007 D 20 02 40	00-740141	0012104				
conjunction	7097 Dec 20 03:48	0° ರ 40'41	0°13'04				
minimum elong	7097 Dec 20 03:47	0° ප් 40'41	0°13'08				
behind sun begin	7097 Dec 19 23:51	0° ට 40'05					
behind sun end	7097 Dec 20 07:44	0° ට 41'18					
max. Earth dist.	7097 Dec 19 12:12	0°중38'15	19.32980 AU				
morning rise	7098 Jan 05 10:15	1° る 41'45					
•							
retrograde	7098 Apr 07 02:34	5° る 03'59	0010110				
opposition	7098 Jun 19 21:18	3° る 01'34					
min. Earth dist.	7098 Jun 20 10:23	3°₹00'08	17.34128 AU				
direct	7098 Sep 04 07:02	0° る 55'33					
evening set	7098 Dec 08 21:09	4° る 24'38					
Č							
conjunction	7098 Dec 25 05:54	5° る 25'58	0°08'58				
minimum elong	7098 Dec 25 05:53	5° る 25'58	0°09'03				
behind sun begin	7098 Dec 25 00:12	5° る 25'05					
behind sun end	7098 Dec 25 11:35	5° පි 26'50					
max. Earth dist.	7098 Dec 24 14:57	5° ಕ 23'37	19.35410 AU				
morning rise	7099 Jan 10 11:23	6° る 26'50					
retrograde	7099 Apr 12 00:45	9° ප් 48'36					
	-		0007141				
opposition	7099 Jun 24 22:26	7°る46'18	0°07'41				
min. Earth dist.	7099 Jun 25 11:09		17.36857 AU				
direct	7099 Sep 09 08:50	5° る 40'23					
evening set	7099 Dec 13 23:22	9° ට 09'02					
Č							
conjunction	7099 Dec 30 07:09	10° ට 10'09	0°04'50				
minimum elong							
minimim elono	7000 D 20 07 00		0°04'54				
_	7099 Dec 30 07:09	10°る10'09	0 0.0.				
behind sun begin	7099 Dec 30 00:38	10° ろ 09'10	0 0.5.				
_	7099 Dec 30 00:38 7099 Dec 30 13:39						
behind sun begin	7099 Dec 30 00:38	10°පි09'10 10°ප11'09	19.38440 AU				
behind sun begin behind sun end	7099 Dec 30 00:38 7099 Dec 30 13:39	10°පි09'10 10°ප11'09					

retrograde

7100 Apr 17 01:07

14°**る**32'05