

conjunction	7601 Aug 19 10:05	2°♎46'52	0°56'55			7606 Sep 04 13:46	0°♊
minimum elong	7601 Aug 19 07:49	2°♎42'44	0°56'50	retrograde		7606 Oct 31 21:15	16°♊56'18
	7601 Sep 26 17:05	0°♏		opposition		7606 Nov 30 18:01	11°♊58'20 -2°30'07
max. Earth dist.	7601 Sep 29 14:50	2°♏00'53	2.50922 AU	greatest brilliancy		7606 Nov 30 21:36	11°♊55'57 -3.0m
morning rise	7601 Oct 16 06:04	13°♏24'50		min. Earth dist.		7606 Nov 30 21:06	11°♊56'17 0.36692 AU
	7601 Nov 10 01:14	0°♎		direct		7606 Dec 30 07:50	7°♊03'08
	7601 Dec 26 18:17	0°♏		asc. node		7607 Jan 02 17:47	7°♊07'48
	7602 Feb 14 09:01	0°♏				7607 Mar 07 13:49	0°♏
	7602 Apr 10 22:37	0°♏				7607 Apr 26 04:25	0°♏
desc. node	7602 May 01 07:20	9°♏11'49				7607 Jun 11 18:27	0°♎
retrograde	7602 Jun 23 17:59	22°♏14'05				7607 Jul 28 09:11	0°♏
opposition	7602 Jul 31 07:04	13°♏58'15	-3°15'38			7607 Sep 13 14:49	0°♎
greatest brilliancy	7602 Aug 01 00:18	13°♏41'59	-1.7m			7607 Oct 31 05:41	0°♏
min. Earth dist.	7602 Aug 06 20:51	11°♏29'34	0.59148 AU	evening set		7607 Nov 08 08:00	5°♏06'16
direct	7602 Sep 09 23:58	4°♏12'19		max. Earth dist.		7607 Dec 14 22:34	28°♏17'13 2.67439 AU
	7602 Nov 23 11:29	0°♏				7607 Dec 17 15:07	0°♏
	7603 Jan 09 07:35	0°♏		desc. node		7607 Dec 22 00:26	2°♏47'59
	7603 Feb 19 10:06	0°♏					
asc. node	7603 Mar 30 17:07	0°♊15'24		conjunction		7607 Dec 23 02:47	3°♏30'03 -0°00'35
	7603 Mar 30 09:12	0°♊		minimum elong		7607 Dec 23 02:43	3°♏29'57 0°00'29
	7603 May 07 22:08	0°♏		behind sun begin		7607 Dec 22 08:24	3°♏00'42
	7603 Jun 16 04:20	0°♏		behind sun end		7607 Dec 23 21:03	3°♏59'13
	7603 Jul 26 22:44	0°♎				7608 Feb 02 04:25	0°♏
evening set	7603 Aug 17 03:02	15°♎03'17		morning rise		7608 Feb 04 22:10	1°♏47'20
	7603 Sep 07 15:47	0°♏				7608 Mar 18 12:21	0°♏
						7608 May 01 11:37	0°♏
conjunction	7603 Oct 09 17:47	21°♏39'50	1°04'19			7608 Jun 13 04:16	0°♏
minimum elong	7603 Oct 09 18:35	21°♏41'10	1°04'21			7608 Jul 24 21:59	0°♊
	7603 Oct 22 08:15	0°♎				7608 Sep 04 13:56	0°♏
max. Earth dist.	7603 Oct 30 08:00	5°♎14'18	2.61777 AU			7608 Oct 18 12:08	0°♏
morning rise	7603 Nov 27 03:04	23°♎13'17		asc. node		7608 Nov 19 16:45	18°♏43'30
	7603 Dec 07 17:49	0°♏				7608 Dec 17 17:30	0°♎
	7604 Jan 24 12:38	0°♏		retrograde		7609 Jan 07 10:50	2°♎58'25
	7604 Mar 13 18:35	0°♏				7609 Jan 27 15:37	30°♎♏
desc. node	7604 Mar 18 04:59	2°♏38'27		min. Earth dist.		7609 Feb 03 19:39	27°♏47'22 0.45207 AU
	7604 May 04 20:37	0°♏		greatest brilliancy		7609 Feb 10 19:30	25°♏22'39 -2.4m
	7604 Jul 07 14:11	0°♏		opposition		7609 Feb 12 06:12	24°♏52'25 4°36'21
retrograde	7604 Aug 14 21:12	7°♏30'06		direct		7609 Mar 16 18:04	18°♏17'39
opposition	7604 Sep 17 10:11	0°♏59'20	-5°51'01			7609 May 03 13:05	0°♎
greatest brilliancy	7604 Sep 19 05:23	0°♏23'25	-2.3m			7609 Jul 01 21:03	0°♏
	7604 Sep 20 09:26	30°♎♏				7609 Aug 22 14:16	0°♎
min. Earth dist.	7604 Sep 26 02:30	28°♏07'09	0.46295 AU			7609 Oct 11 06:26	0°♏
direct	7604 Oct 24 03:04	23°♏01'05		desc. node		7609 Nov 07 23:37	17°♏08'12
	7604 Nov 26 08:53	0°♏				7609 Nov 28 10:51	0°♏
	7605 Jan 19 21:13	0°♏		evening set		7609 Dec 13 08:54	9°♏30'14
asc. node	7605 Feb 14 18:01	17°♏49'41		max. Earth dist.		7610 Jan 06 16:45	25°♏15'20 2.62085 AU
	7605 Mar 03 15:06	0°♊				7610 Jan 13 22:07	0°♏
	7605 Apr 13 07:02	0°♏					
	7605 May 24 04:38	0°♏		conjunction		7610 Jan 27 18:52	9°♏11'45 -0°40'32
	7605 Jul 05 08:49	0°♎		minimum elong		7610 Jan 27 17:45	9°♏09'53 0°40'26
	7605 Aug 18 06:06	0°♏				7610 Feb 27 11:09	0°♏
evening set	7605 Oct 01 07:19	29°♏02'39		morning rise		7610 Mar 15 13:05	11°♏10'06
	7605 Oct 02 18:39	0°♎				7610 Apr 11 01:51	0°♏
						7610 May 21 24:00	0°♏
conjunction	7605 Nov 17 10:37	29°♎20'06	0°38'19			7610 Jun 30 16:04	0°♊
minimum elong	7605 Nov 17 11:38	29°♎21'44	0°38'24			7610 Aug 08 18:40	0°♏
	7605 Nov 18 11:40	0°♏				7610 Sep 17 07:44	0°♏
max. Earth dist.	7605 Nov 22 08:43	2°♏28'12	2.67365 AU	asc. node		7610 Oct 07 15:46	14°♏57'55
morning rise	7605 Dec 31 20:32	27°♏32'15				7610 Oct 28 20:48	0°♎
	7606 Jan 04 17:47	0°♏				7610 Dec 15 00:52	0°♏
desc. node	7606 Feb 03 02:39	18°♏37'21		retrograde		7611 Feb 21 20:37	23°♏39'22
	7606 Feb 21 00:33	0°♏		min. Earth dist.		7611 Mar 27 03:18	16°♏15'37 0.58313 AU
	7606 Apr 09 03:27	0°♏		greatest brilliancy		7611 Apr 01 05:58	14°♏15'28 -1.7m
	7606 May 26 07:35	0°♏		opposition		7611 Apr 02 06:48	13°♏51'07 4°52'36
	7606 Jul 13 10:38	0°♏		direct		7611 May 09 05:52	5°♏25'17

	7611 Jul 26 12:13	0°♌		conjunction	7616 Jul 24 17:48	8°♏11'32	0°37'24
	7611 Sep 20 05:07	0°♊		minimum elong	7616 Jul 24 14:51	8°♏05'57	0°37'17
desc. node	7611 Sep 25 23:56	3°♊20'22			7616 Aug 22 22:45	0°♐	
	7611 Nov 09 11:04	0°♊		max. Earth dist.	7616 Sep 12 16:05	15°♐01'07	2.45506 AU
	7611 Dec 26 12:04	0°♐		morning rise	7616 Sep 26 10:10	24°♐46'29	
evening set	7612 Jan 21 07:17	17°♐15'08			7616 Oct 03 21:25	0°♑	
max. Earth dist.	7612 Feb 05 15:26	27°♐47'16	2.51683 AU		7616 Nov 17 05:05	0°♌	
	7612 Feb 08 19:47	0°♋			7617 Jan 03 06:57	0°♊	
					7617 Feb 23 09:38	0°♊	
conjunction	7612 Mar 11 07:32	22°♋22'51	-1°05'52		7617 Apr 27 23:29	0°♐	
minimum elong	7612 Mar 11 07:01	22°♋21'53	1°05'52	desc. node	7617 May 17 21:39	5°♐43'22	
	7612 Mar 21 18:19	0°♑		retrograde	7617 Jun 07 08:19	8°♐01'10	
	7612 Apr 30 19:21	0°♋			7617 Jul 14 02:16	30°♋♊	
morning rise	7612 May 06 17:06	4°♋31'13		opposition	7617 Jul 15 21:55	29°♊18'10	-2°06'36
	7612 Jun 08 14:05	0°♐		greatest brilliancy	7617 Jul 16 06:30	29°♊09'54	-1.5m
	7612 Jul 16 21:05	0°♑		min. Earth dist.	7617 Jul 21 02:22	27°♊18'28	0.62847 AU
asc. node	7612 Aug 24 12:44	29°♑58'37		direct	7617 Aug 26 05:26	19°♊19'26	
	7612 Aug 24 13:27	0°♏			7617 Oct 10 15:55	0°♐	
	7612 Oct 03 14:50	0°♐			7617 Dec 05 13:15	0°♋	
	7612 Nov 15 07:36	0°♑			7618 Jan 18 21:13	0°♑	
	7613 Jan 02 03:19	0°♌			7618 Feb 28 05:04	0°♋	
	7613 Mar 15 13:14	0°♊			7618 Apr 07 19:03	0°♐	
retrograde	7613 Mar 29 03:57	1°♊08'52		asc. node	7618 Apr 16 10:36	6°♐47'43	
	7613 Apr 11 05:21	30°♋♌			7618 May 16 00:45	0°♑	
min. Earth dist.	7613 May 06 06:37	22°♌08'41	0.66334 AU		7618 Jun 23 23:33	0°♏	
opposition	7613 May 08 15:29	21°♌11'58	3°04'47	evening set	7618 Jul 25 19:27	23°♏43'32	
greatest brilliancy	7613 May 08 09:41	21°♌17'44	-1.4m		7618 Aug 03 10:02	0°♐	
direct	7613 Jun 17 13:59	11°♌45'14			7618 Sep 14 19:30	0°♑	
desc. node	7613 Aug 13 00:06	25°♌58'02					
	7613 Aug 22 04:09	0°♊		conjunction	7618 Sep 21 16:56	4°♑44'30	1°07'07
	7613 Oct 18 05:18	0°♊		minimum elong	7618 Sep 21 16:54	4°♑44'27	1°07'08
	7613 Dec 06 03:13	0°♐		max. Earth dist.	7618 Oct 19 18:41	23°♑42'03	2.58089 AU
	7614 Jan 19 20:41	0°♋			7618 Oct 29 06:46	0°♌	
	7614 Mar 02 14:17	0°♑		morning rise	7618 Nov 11 23:04	8°♌58'05	
evening set	7614 Mar 09 22:01	5°♑26'39			7618 Dec 14 16:31	0°♊	
max. Earth dist.	7614 Apr 03 21:45	24°♑22'53	2.38540 AU		7619 Jan 31 22:27	0°♊	
	7614 Apr 11 04:50	0°♋			7619 Mar 23 16:20	0°♐	
				desc. node	7619 Apr 04 19:10	6°♐48'38	
conjunction	7614 May 10 17:48	23°♋04'00	-0°41'43		7619 May 19 22:18	0°♋	
minimum elong	7614 May 10 20:56	23°♋10'10	0°41'47	retrograde	7619 Jul 23 16:20	18°♋09'52	
	7614 May 19 12:47	0°♐		opposition	7619 Aug 28 02:24	10°♋50'56	-5°01'15
	7614 Jun 26 11:31	0°♑		greatest brilliancy	7619 Aug 29 12:58	10°♋20'09	-2.0m
asc. node	7614 Jul 12 10:42	12°♑32'35		min. Earth dist.	7619 Sep 05 10:58	7°♋53'13	0.51727 AU
morning rise	7614 Jul 21 23:28	19°♑58'49		direct	7619 Oct 05 21:41	1°♋53'55	
	7614 Aug 03 22:19	0°♏			7619 Dec 20 08:24	0°♑	
	7614 Sep 12 17:13	0°♐			7620 Feb 02 23:28	0°♋	
	7614 Oct 24 15:07	0°♑		asc. node	7620 Mar 03 09:43	21°♋42'50	
	7614 Dec 08 12:58	0°♌			7620 Mar 14 09:12	0°♐	
	7615 Jan 27 07:39	0°♊			7620 Apr 22 20:05	0°♑	
	7615 Apr 04 07:24	0°♊			7620 Jun 01 20:45	0°♏	
retrograde	7615 May 02 08:41	4°♊15'06			7620 Jul 13 07:54	0°♐	
	7615 May 28 04:32	30°♋♊			7620 Aug 25 15:19	0°♑	
opposition	7615 Jun 11 12:12	24°♊43'35	0°40'09	evening set	7620 Sep 14 16:50	13°♑28'50	
greatest brilliancy	7615 Jun 11 13:17	24°♊42'31	-1.3m		7620 Oct 09 17:56	0°♌	
min. Earth dist.	7615 Jun 12 22:45	24°♊09'27	0.67882 AU				
desc. node	7615 Jun 30 23:14	17°♊49'43		conjunction	7620 Nov 02 18:23	15°♌34'59	0°50'43
direct	7615 Jul 22 22:19	14°♊45'59		minimum elong	7620 Nov 02 19:34	15°♌36'54	0°50'47
	7615 Sep 18 21:34	0°♊		max. Earth dist.	7620 Nov 13 08:04	22°♌22'40	2.65815 AU
	7615 Nov 14 02:16	0°♐			7620 Nov 25 06:09	0°♊	
	7615 Dec 30 14:34	0°♋		morning rise	7620 Dec 18 06:57	14°♊38'22	
	7616 Feb 10 18:20	0°♑			7621 Jan 11 14:42	0°♊	
	7616 Mar 21 08:21	0°♋		desc. node	7621 Feb 19 17:01	24°♊32'20	
	7616 Apr 28 13:34	0°♐			7621 Feb 28 10:43	0°♐	
evening set	7616 May 15 15:12	13°♐31'23			7621 Apr 17 20:24	0°♋	
asc. node	7616 May 29 10:56	24°♐27'52			7621 Jun 06 18:50	0°♑	
	7616 Jun 05 11:18	0°♑			7621 Aug 01 15:01	0°♋	
	7616 Jul 14 00:05	0°♏		retrograde	7621 Sep 28 20:59	16°♋21'27	

opposition	7621 Oct 29 09:59	11°♏10'23 -5°15'29			7626 Sep 28 11:47	0°♏
greatest brilliancy	7621 Oct 30 14:45	10°♏50'06 -2.8m	desc. node		7626 Oct 12 13:13	8°♏24'32
min. Earth dist.	7621 Nov 03 20:45	9°♏38'44 0.38766 AU			7626 Nov 16 17:09	0°♏
direct	7621 Nov 30 06:57	5°♏21'33			7627 Jan 02 11:07	0°♏
asc. node	7622 Jan 19 10:11	19°♏59'33	evening set		7627 Jan 05 10:16	1°♏57'22
	7622 Feb 06 14:35	0°♏	max. Earth dist.		7627 Jan 23 17:53	14°♏11'30 2.56324 AU
	7622 Mar 25 08:35	0°♏			7627 Feb 15 20:05	0°♏
	7622 May 08 05:16	0°♏				
	7622 Jun 21 07:20	0°♏	conjunction		7627 Feb 21 23:38	4°♏16'59 -0°59'23
	7622 Aug 05 12:13	0°♏	minimum elong		7627 Feb 21 22:28	4°♏14'58 0°59'19
	7622 Sep 20 21:48	0°♏			7627 Mar 30 00:04	0°♏
evening set	7622 Oct 25 00:51	21°♏43'48	morning rise		7627 Apr 14 10:26	11°♏20'09
	7622 Nov 07 01:57	0°♏			7627 May 09 08:10	0°♏
max. Earth dist.	7622 Dec 06 06:27	18°♏30'12 2.68063 AU			7627 Jun 17 09:42	0°♏
					7627 Jul 25 22:12	0°♏
conjunction	7622 Dec 09 08:42	20°♏28'04 0°15'15			7627 Sep 02 19:22	0°♏
minimum elong	7622 Dec 09 09:09	20°♏28'47 0°15'21	asc. node		7627 Sep 11 06:20	6°♏24'40
behind sun begin	7622 Dec 09 04:09	20°♏20'51			7627 Oct 13 03:59	0°♏
behind sun end	7622 Dec 09 14:09	20°♏36'43			7627 Nov 25 16:29	0°♏
	7622 Dec 24 08:26	0°♏			7628 Jan 16 00:10	0°♏
desc. node	7623 Jan 07 15:19	9°♏07'01	retrograde		7628 Mar 15 14:40	17°♏38'39
morning rise	7623 Jan 22 01:17	18°♏21'31	min. Earth dist.		7628 Apr 21 00:19	9°♏11'49 0.63954 AU
	7623 Feb 09 02:31	0°♏	opposition		7628 Apr 24 21:17	7°♏39'17 3°52'50
	7623 Mar 26 23:21	0°♏	greatest brilliancy		7628 Apr 24 09:04	7°♏51'26 -1.5m
	7623 May 10 20:21	0°♏			7628 May 18 16:52	30°♏
	7623 Jun 23 20:28	0°♏	direct		7628 Jun 02 20:25	28°♏31'59
	7623 Aug 06 11:04	0°♏			7628 Jun 18 22:04	0°♏
	7623 Sep 20 08:52	0°♏	desc. node		7628 Aug 29 13:27	27°♏31'47
	7623 Nov 14 23:53	0°♏			7628 Sep 03 08:20	0°♏
asc. node	7623 Dec 07 10:16	5°♏52'30			7628 Oct 26 14:12	0°♏
retrograde	7623 Dec 16 10:20	6°♏27'00			7628 Dec 13 13:29	0°♏
min. Earth dist.	7624 Jan 11 09:42	1°♏59'06 0.40173 AU			7629 Jan 27 01:38	0°♏
	7624 Jan 17 21:07	30°♏	evening set		7629 Feb 17 04:33	14°♏57'02
opposition	7624 Jan 18 15:58	29°♏45'27 2°51'45	max. Earth dist.		7629 Mar 03 22:26	25°♏38'49 2.43621 AU
greatest brilliancy	7624 Jan 17 19:35	0°♏01'11 -2.8m			7629 Mar 09 20:30	0°♏
direct	7624 Feb 18 04:04	24°♏08'35				
	7624 Mar 20 21:25	0°♏	conjunction		7629 Apr 14 07:11	26°♏41'23 -1°00'14
	7624 May 22 09:58	0°♏	minimum elong		7629 Apr 14 09:06	26°♏45'05 1°00'17
	7624 Jul 12 12:04	0°♏			7629 Apr 18 14:38	0°♏
	7624 Aug 30 20:04	0°♏			7629 May 27 02:15	0°♏
	7624 Oct 18 12:01	0°♏	morning rise		7629 Jun 20 05:38	19°♏02'17
desc. node	7624 Nov 24 13:36	23°♏12'20			7629 Jul 04 03:21	0°♏
evening set	7624 Nov 29 06:35	26°♏11'01	asc. node		7629 Jul 29 04:58	19°♏37'16
	7624 Dec 05 06:58	0°♏			7629 Aug 11 15:02	0°♏
max. Earth dist.	7624 Dec 27 23:32	14°♏31'48 2.64817 AU			7629 Sep 20 10:22	0°♏
					7629 Nov 01 11:13	0°♏
conjunction	7625 Jan 13 01:41	24°♏58'25 -0°25'42			7629 Dec 16 23:37	0°♏
minimum elong	7625 Jan 13 00:56	24°♏57'10 0°25'35			7630 Feb 07 10:49	0°♏
	7625 Jan 20 17:47	0°♏	retrograde		7630 Apr 19 00:22	21°♏46'01
morning rise	7625 Feb 27 03:19	24°♏58'08	opposition		7630 May 29 10:41	12°♏01'47 1°38'56
	7625 Mar 06 12:40	0°♏	greatest brilliancy		7630 May 29 10:58	12°♏01'31 -1.3m
	7625 Apr 18 13:41	0°♏	min. Earth dist.		7630 May 29 09:29	12°♏02'59 0.68055 AU
	7625 May 30 00:43	0°♏	direct		7630 Jul 09 11:14	2°♏13'13
	7625 Jul 09 06:41	0°♏	desc. node		7630 Jul 17 12:45	2°♏36'01
	7625 Aug 17 23:55	0°♏			7630 Oct 01 21:53	0°♏
	7625 Sep 27 08:40	0°♏			7630 Nov 22 21:06	0°♏
asc. node	7625 Oct 24 07:47	19°♏04'55			7631 Jan 07 10:54	0°♏
	7625 Nov 09 16:41	0°♏			7631 Feb 18 08:49	0°♏
	7626 Jan 04 23:22	0°♏			7631 Mar 29 22:08	0°♏
retrograde	7626 Feb 05 19:18	6°♏24'11	evening set		7631 Apr 17 19:19	14°♏44'11
	7626 Mar 08 08:00	30°♏			7631 May 07 03:47	0°♏
min. Earth dist.	7626 Mar 08 19:33	29°♏49'14 0.53592 AU			7631 Jun 14 01:10	0°♏
greatest brilliancy	7626 Mar 14 21:31	27°♏30'11 -1.9m	asc. node		7631 Jun 16 03:00	1°♏38'14
opposition	7626 Mar 16 06:08	26°♏59'03 5°11'59				
direct	7626 Apr 20 14:54	19°♏09'16	conjunction		7631 Jun 26 14:03	9°♏51'32 0°07'31
	7626 Jun 06 13:53	0°♏	minimum elong		7631 Jun 26 13:14	9°♏49'56 0°07'23
	7626 Aug 07 01:59	0°♏	behind sun begin		7631 Jun 25 09:51	8°♏56'18

behind sun end	7631 Jun 27 16:37	10°☾43'33		greatest brilliancy	7636 Oct 03 01:53	13°♊58'37	-2.5m
	7631 Jul 22 12:17	0°♌		min. Earth dist.	7636 Oct 09 10:26	11°♊58'54	0.43287 AU
max. Earth dist.	7631 Aug 17 13:30	19°♌46'06	2.39978 AU	direct	7636 Nov 05 10:18	7°♊18'05	
	7631 Aug 31 08:20	0°♍			7637 Jan 08 22:11	0°♋	
morning rise	7631 Sep 04 05:47	2°♍51'37		asc. node	7637 Feb 05 01:49	17°♋09'05	
	7631 Oct 12 04:45	0°♎			7637 Feb 23 19:14	0°♌	
	7631 Nov 25 14:20	0°♏			7637 Apr 06 16:31	0°☊	
	7632 Jan 12 06:58	0°♐			7637 May 18 07:26	0°♌	
	7632 Mar 05 23:35	0°♑			7637 Jun 29 24:00	0°♍	
retrograde	7632 May 23 06:40	24°♑42'00			7637 Aug 13 06:01	0°♎	
desc. node	7632 Jun 03 11:22	23°♑54'25			7637 Sep 28 00:35	0°♏	
opposition	7632 Jul 01 15:12	15°♑36'50	-0°59'45	evening set	7637 Oct 10 04:11	7°♏49'58	
greatest brilliancy	7632 Jul 01 18:01	15°♑34'06	-1.4m		7637 Nov 13 20:34	0°♐	
min. Earth dist.	7632 Jul 05 08:47	14°♑09'29	0.65591 AU				
direct	7632 Aug 12 05:20	5°♑33'52		conjunction	7637 Nov 25 12:08	7°♐24'22	0°30'12
	7632 Oct 26 11:52	0°♒		minimum elong	7637 Nov 25 13:00	7°♐25'44	0°30'17
	7632 Dec 15 10:36	0°♓		max. Earth dist.	7637 Nov 27 11:51	8°♐40'09	2.67854 AU
	7633 Jan 27 13:22	0°♊			7637 Dec 31 02:11	0°♑	
	7633 Mar 08 11:01	0°♋		morning rise	7638 Jan 08 12:38	5°♑21'37	
	7633 Apr 15 19:44	0°♌		desc. node	7638 Jan 24 05:21	15°♑21'04	
asc. node	7633 May 03 02:22	13°♌38'40			7638 Feb 16 03:50	0°♒	
	7633 May 23 20:45	0°☊			7638 Apr 03 18:24	0°♓	
evening set	7633 Jun 30 04:57	28°☊56'40			7638 May 19 22:46	0°♊	
	7633 Jul 01 14:10	0°♌			7638 Jul 05 02:35	0°♋	
	7633 Aug 10 18:41	0°♍			7638 Aug 21 16:59	0°♌	
					7638 Oct 19 16:13	0°☊	
conjunction	7633 Sep 01 07:30	15°♍30'47	1°03'11	retrograde	7638 Nov 18 13:11	5°☊36'22	
minimum elong	7633 Sep 01 06:06	15°♍28'18	1°03'09	min. Earth dist.	7638 Dec 16 02:21	1°☊08'02	0.37009 AU
	7633 Sep 21 22:25	0°♎		opposition	7638 Dec 19 06:36	0°☊15'55	-0°22'08
max. Earth dist.	7633 Oct 07 14:01	10°♎45'36	2.53676 AU	greatest brilliancy	7638 Dec 19 06:02	0°☊16'18	-3.1m
morning rise	7633 Oct 26 10:51	23°♎28'59			7638 Dec 20 05:57	30°♒♌	
	7633 Nov 05 06:28	0°♏		asc. node	7638 Dec 24 02:17	28°♌58'23	
	7633 Dec 21 19:06	0°♐		direct	7639 Jan 17 13:58	25°♌20'48	
	7634 Feb 08 18:17	0°♑			7639 Feb 14 02:13	0°☊	
	7634 Apr 02 22:37	0°♒			7639 Apr 16 19:53	0°♌	
desc. node	7634 Apr 21 10:00	9°♒20'05			7639 Jun 04 23:21	0°♍	
	7634 Jun 17 20:39	0°♓			7639 Jul 22 17:22	0°♎	
retrograde	7634 Jul 03 21:42	1°♓27'40			7639 Sep 08 13:39	0°♏	
	7634 Jul 19 03:44	30°♒♒			7639 Oct 26 12:11	0°♐	
opposition	7634 Aug 09 19:00	23°♒29'47	-3°55'38	evening set	7639 Nov 16 08:36	13°♐06'33	
greatest brilliancy	7634 Aug 10 18:12	23°♒08'14	-1.8m	desc. node	7639 Dec 12 03:27	29°♐26'24	
min. Earth dist.	7634 Aug 17 02:03	20°♒47'42	0.56715 AU		7639 Dec 13 00:33	0°♑	
direct	7634 Sep 18 23:37	13°♒56'39		max. Earth dist.	7639 Dec 20 01:08	4°♑28'50	2.66742 AU
	7634 Nov 13 10:05	0°♓					
	7635 Jan 02 12:29	0°♊		conjunction	7639 Dec 31 00:10	11°♑30'16	-0°09'57
	7635 Feb 13 11:25	0°♋		minimum elong	7639 Dec 30 23:52	11°♑29'47	0°09'51
asc. node	7635 Mar 21 02:50	27°♋08'03		behind sun begin	7639 Dec 30 09:03	11°♑05'58	
	7635 Mar 24 19:54	0°♌		behind sun end	7639 Dec 31 14:42	11°♑53'36	
	7635 May 02 14:41	0°☊			7640 Jan 28 12:56	0°♒	
	7635 Jun 11 01:41	0°♌		morning rise	7640 Feb 13 02:14	10°♒13'48	
	7635 Jul 22 00:24	0°♍			7640 Mar 13 16:01	0°♓	
evening set	7635 Aug 28 10:34	26°♍16'27			7640 Apr 26 06:58	0°♊	
	7635 Sep 02 20:54	0°♎			7640 Jun 07 11:52	0°♋	
	7635 Oct 17 15:45	0°♏			7640 Jul 18 14:32	0°♌	
					7640 Aug 28 08:25	0°☊	
conjunction	7635 Oct 19 04:11	0°♏59'49	1°00'22		7640 Oct 09 08:55	0°♌	
minimum elong	7635 Oct 19 05:15	1°♏01'34	1°00'26	asc. node	7640 Nov 10 02:33	20°♌36'00	
max. Earth dist.	7635 Nov 05 02:10	12°♏01'47	2.63442 AU		7640 Nov 26 16:47	0°♍	
	7635 Dec 03 01:08	0°♐		retrograde	7641 Jan 18 19:16	16°♍21'56	
morning rise	7635 Dec 05 08:38	1°♐28'25		min. Earth dist.	7641 Feb 16 10:06	10°♍41'11	0.48216 AU
	7636 Jan 19 14:58	0°♑		greatest brilliancy	7641 Feb 23 05:15	8°♍13'46	-2.2m
desc. node	7636 Mar 08 07:48	0°♒02'43		opposition	7641 Feb 24 17:52	7°♍40'28	5°03'09
	7636 Mar 08 06:01	0°♓		direct	7641 Mar 30 06:11	0°♎36'32	
	7636 Apr 27 14:44	0°♓			7641 Jun 23 19:39	0°♏	
	7636 Jun 22 04:57	0°♊			7641 Aug 16 17:44	0°♌	
retrograde	7636 Aug 29 22:22	20°♊33'44			7641 Oct 06 05:09	0°♐	
opposition	7636 Oct 01 06:24	14°♊33'00	-6°01'24	desc. node	7641 Oct 29 02:26	14°♐00'27	

	7641 Nov 23 17:39	0°♄			7646 Jul 30 01:27	0°♈	
evening set	7641 Dec 21 14:08	17°♄46'59		morning rise	7646 Aug 07 23:24	6°♈50'07	
	7642 Jan 09 07:26	0°♌			7646 Sep 07 19:40	0°♍	
max. Earth dist.	7642 Jan 12 13:37	2°♌09'00	2.60238 AU		7646 Oct 19 15:23	0°♎	
					7646 Dec 03 06:12	0°♏	
conjunction	7642 Feb 05 13:46	18°♌12'55	-0°48'20		7647 Jan 20 23:49	0°♐	
minimum elong	7642 Feb 05 12:32	18°♌10'50	0°48'15		7647 Mar 21 00:23	0°♑	
	7642 Feb 22 19:10	0°♒		retrograde	7647 May 10 03:47	11°♑55'30	
morning rise	7642 Mar 25 15:54	21°♒40'18		opposition	7647 Jun 19 02:08	2°♑32'22	0°04'11
	7642 Apr 06 06:12	0°♓		greatest brilliancy	7647 Jun 19 02:23	2°♑32'07	-1.3m
	7642 May 16 23:12	0°♈		min. Earth dist.	7647 Jun 21 08:27	1°♑38'56	0.67339 AU
	7642 Jun 25 09:52	0°♉		desc. node	7647 Jun 21 02:09	1°♑45'07	
	7642 Aug 03 06:41	0°♊			7647 Jun 25 14:28	30°♒♐	
	7642 Sep 11 12:24	0°♋		direct	7647 Jul 30 15:37	22°♒31'31	
asc. node	7642 Sep 27 23:53	12°♋17'44			7647 Sep 06 22:46	0°♌	
	7642 Oct 22 11:16	0°♍			7647 Nov 07 18:06	0°♌	
	7642 Dec 06 16:07	0°♎			7647 Dec 25 05:09	0°♍	
	7643 Feb 08 09:23	0°♏			7648 Feb 05 16:13	0°♎	
retrograde	7643 Mar 02 09:10	3°♏03'15			7648 Mar 16 08:44	0°♏	
	7643 Mar 23 06:31	30°♒♎			7648 Apr 23 15:09	0°♉	
min. Earth dist.	7643 Apr 05 20:08	25°♎15'35	0.60566 AU	asc. node	7648 May 19 18:57	20°♉42'12	
greatest brilliancy	7643 Apr 10 08:39	23°♎28'28	-1.6m		7648 May 31 13:46	0°♊	
opposition	7643 Apr 11 04:44	23°♎08'37	4°34'00	evening set	7648 Jun 01 11:07	0°♊42'00	
direct	7643 May 18 22:48	14°♎26'19			7648 Jul 09 03:34	0°♋	
	7643 Jul 17 02:19	0°♌					
	7643 Sep 14 06:14	0°♐		conjunction	7648 Aug 08 16:26	23°♋01'28	0°49'55
desc. node	7643 Sep 16 02:36	1°♐02'04		minimum elong	7648 Aug 08 13:39	22°♋56'18	0°49'50
	7643 Nov 04 09:33	0°♑			7648 Aug 18 03:30	0°♍	
	7643 Dec 21 18:16	0°♒		max. Earth dist.	7648 Sep 22 20:19	25°♍36'59	2.48560 AU
evening set	7644 Jan 30 21:34	27°♒02'17			7648 Sep 29 02:47	0°♎	
	7644 Feb 04 03:57	0°♒		morning rise	7648 Oct 07 23:46	6°♎08'46	
max. Earth dist.	7644 Feb 14 02:59	6°♒58'59	2.48909 AU		7648 Nov 12 09:04	0°♏	
	7644 Mar 17 01:38	0°♓			7648 Dec 29 03:45	0°♐	
					7649 Feb 17 05:55	0°♑	
conjunction	7644 Mar 22 16:54	4°♓09'24	-1°06'34		7649 Apr 16 01:12	0°♒	
minimum elong	7644 Mar 22 17:05	4°♓09'43	1°06'35	desc. node	7649 May 08 00:26	8°♒46'46	
	7644 Apr 26 00:18	0°♈		retrograde	7649 Jun 16 10:42	16°♒28'15	
morning rise	7644 May 21 13:44	19°♈45'20		opposition	7649 Jul 24 12:06	7°♒59'26	-2°46'23
	7644 Jun 03 16:23	0°♉		greatest brilliancy	7649 Jul 25 01:16	7°♒46'54	-1.6m
	7644 Jul 11 20:48	0°♊		min. Earth dist.	7649 Jul 30 11:36	5°♒42'56	0.60922 AU
asc. node	7644 Aug 14 21:03	26°♊29'22			7649 Aug 17 16:06	30°♒♑	
	7644 Aug 19 10:36	0°♋		direct	7649 Sep 03 13:24	28°♑06'28	
	7644 Sep 28 08:27	0°♍			7649 Sep 21 05:44	0°♌	
	7644 Nov 09 16:35	0°♎			7649 Nov 28 07:26	0°♍	
	7644 Dec 26 07:57	0°♏			7650 Jan 12 22:59	0°♎	
retrograde	7645 Feb 23 03:28	0°♐			7650 Feb 22 17:09	0°♏	
	7645 Apr 05 18:48	9°♐04'35			7650 Apr 02 12:07	0°♉	
	7645 May 14 06:29	30°♒♏		asc. node	7650 Apr 06 18:15	3°♉19'43	
min. Earth dist.	7645 May 14 18:37	29°♏47'56	0.67225 AU		7650 May 10 21:12	0°♊	
opposition	7645 May 16 07:28	29°♏11'14	2°34'22		7650 Jun 18 23:00	0°♋	
greatest brilliancy	7645 May 16 04:30	29°♏14'11	-1.3m		7650 Jul 29 12:40	0°♌	
direct	7645 Jun 25 16:52	19°♏35'37		evening set	7650 Aug 07 20:29	6°♍42'25	
desc. node	7645 Aug 03 02:50	26°♏54'37			7650 Sep 10 00:52	0°♎	
	7645 Aug 11 15:44	0°♐					
	7645 Oct 12 03:51	0°♑		conjunction	7650 Oct 02 05:15	15°♎06'23	1°06'10
	7645 Nov 30 23:32	0°♒		minimum elong	7650 Oct 02 05:46	15°♎07'15	1°06'12
	7646 Jan 14 23:59	0°♒			7650 Oct 24 13:46	0°♏	
	7646 Feb 25 19:36	0°♓		max. Earth dist.	7650 Oct 26 01:18	0°♏58'33	2.60239 AU
evening set	7646 Mar 22 23:01	18°♓53'37		morning rise	7650 Nov 20 18:07	17°♏43'23	
	7646 Apr 06 10:03	0°♈			7650 Dec 09 22:05	0°♐	
	7646 May 14 17:21	0°♉			7651 Jan 26 20:25	0°♑	
max. Earth dist.	7646 May 16 01:51	1°♉04'13	2.36722 AU		7651 Mar 17 15:13	0°♒	
				desc. node	7651 Mar 25 22:15	4°♒50'26	
conjunction	7646 May 27 02:19	9°♉47'35	-0°25'48		7651 May 10 09:09	0°♒	
minimum elong	7646 May 27 04:51	9°♉52'36	0°25'53	retrograde	7651 Aug 05 06:32	29°♒11'15	
	7646 Jun 21 15:20	0°♊		opposition	7651 Sep 08 16:40	22°♒17'47	-5°32'32
asc. node	7646 Jul 02 20:38	8°♊50'00		greatest brilliancy	7651 Sep 10 08:59	21°♒43'05	-2.2m

min. Earth dist.	7651 Sep 17 08:50	19° H 19'28	0.48759 AU		7656 Nov 30 14:47	0° Z	
direct	7651 Oct 16 11:20	13° H 49'46		evening set	7656 Dec 07 07:32	4° Z 15'23	
	7651 Dec 09 01:47	0° Y		max. Earth dist.	7657 Jan 02 12:39	21° Z 07'08	2.63407 AU
	7652 Jan 26 10:29	0° X			7657 Jan 16 02:43	0° \approx	
asc. node	7652 Feb 22 19:32	19° X 34'01					
	7652 Mar 07 22:25	0° II		conjunction	7657 Jan 21 09:13	3° \approx 28'27	-0°34'32
	7652 Apr 16 23:05	0° D		minimum elong	7657 Jan 21 08:13	3° \approx 26'49	0°34'26
	7652 May 27 09:10	0° Q			7657 Mar 01 19:13	0° H	
	7652 Jul 08 03:57	0° P		morning rise	7657 Mar 08 06:46	4° H 27'28	
	7652 Aug 20 17:19	0° L			7657 Apr 13 15:27	0° Y	
evening set	7652 Sep 24 08:30	23° L 01'53			7657 May 24 19:48	0° X	
	7652 Oct 05 00:17	0° M			7657 Jul 03 18:13	0° II	
					7657 Aug 12 02:39	0° D	
conjunction	7652 Nov 11 06:08	24° M 01'56	0°43'44		7657 Sep 20 22:12	0° Q	
minimum elong	7652 Nov 11 07:15	24° M 03'45	0°43'49	asc. node	7657 Oct 14 17:15	17° Q 17'14	
max. Earth dist.	7652 Nov 18 14:47	28° M 44'12	2.66784 AU		7657 Nov 02 00:07	0° P	
	7652 Nov 20 14:19	0° X			7657 Dec 21 06:54	0° L	
morning rise	7652 Dec 26 02:14	22° X 32'37		retrograde	7658 Feb 15 03:16	16° L 57'53	
	7653 Jan 06 21:05	0° Z		min. Earth dist.	7658 Mar 19 10:09	9° L 55'32	0.56292 AU
desc. node	7653 Feb 09 19:42	21° Z 26'25		greatest brilliancy	7658 Mar 25 00:10	7° L 45'44	-1.8m
	7653 Feb 23 09:15	0° \approx		opposition	7658 Mar 26 04:40	7° L 18'05	5°03'41
	7653 Apr 12 00:15	0° H			7658 Apr 19 22:05	30° R P	
	7653 May 30 04:51	0° Y		direct	7658 May 01 12:00	29° P 07'18	
	7653 Jul 19 15:26	0° X			7658 May 13 14:53	0° L	
	7653 Sep 23 01:03	0° II			7658 Jul 30 20:38	0° M	
retrograde	7653 Oct 17 09:54	3° II 31'37			7658 Sep 22 23:56	0° X	
	7653 Nov 10 20:21	30° R X		desc. node	7658 Oct 02 16:25	5° X 40'53	
opposition	7653 Nov 16 05:31	28° X 35'27	-3°56'01		7658 Nov 11 19:31	0° Z	
greatest brilliancy	7653 Nov 16 19:31	28° X 26'06	-3.0m		7658 Dec 28 18:34	0° \approx	
min. Earth dist.	7653 Nov 19 00:09	27° X 50'59	0.37220 AU	evening set	7659 Jan 14 08:04	11° \approx 00'00	
direct	7653 Dec 16 13:24	23° X 23'58		max. Earth dist.	7659 Jan 30 20:16	22° \approx 11'27	2.53830 AU
asc. node	7654 Jan 09 19:46	27° X 12'30			7659 Feb 11 03:56	0° H	
	7654 Jan 18 01:55	0° II					
	7654 Mar 15 18:26	0° D		conjunction	7659 Mar 04 03:06	14° H 45'15	-1°03'52
	7654 May 01 01:19	0° Q		minimum elong	7659 Mar 04 02:13	14° H 43'42	1°03'49
	7654 Jun 15 07:21	0° P			7659 Mar 25 06:03	0° Y	
	7654 Jul 31 04:26	0° L		morning rise	7659 Apr 27 02:38	24° Y 25'49	
	7654 Sep 15 23:51	0° M			7659 May 04 10:57	0° X	
evening set	7654 Nov 02 06:36	29° M 55'45			7659 Jun 12 09:12	0° II	
	7654 Nov 02 09:17	0° X			7659 Jul 20 18:39	0° D	
max. Earth dist.	7654 Dec 11 08:59	24° X 41'03	2.67829 AU		7659 Aug 28 12:21	0° Q	
				asc. node	7659 Sep 01 14:50	3° Q 07'52	
conjunction	7654 Dec 17 05:40	28° X 24'47	0°06'04		7659 Oct 07 15:20	0° P	
minimum elong	7654 Dec 17 05:50	28° X 25'03	0°06'10		7659 Nov 19 13:06	0° L	
behind sun begin	7654 Dec 16 12:36	27° X 57'39			7660 Jan 07 08:13	0° M	
behind sun end	7654 Dec 17 23:04	28° X 52'29		retrograde	7660 Mar 23 09:56	25° M 56'20	
	7654 Dec 19 17:27	0° Z		min. Earth dist.	7660 Apr 29 19:23	17° M 10'26	0.65392 AU
desc. node	7654 Dec 28 17:08	5° Z 44'03		opposition	7660 May 02 20:20	15° M 57'46	3°25'36
morning rise	7655 Jan 29 22:19	26° Z 27'32		greatest brilliancy	7660 May 02 11:57	16° M 06'06	-1.4m
	7655 Feb 04 09:18	0° \approx		direct	7660 Jun 11 09:29	6° M 39'03	
	7655 Mar 21 23:15	0° H		desc. node	7660 Aug 19 16:42	26° M 36'48	
	7655 May 05 08:15	0° Y			7660 Aug 26 19:09	0° X	
	7655 Jun 17 13:50	0° X			7660 Oct 21 01:56	0° Z	
	7655 Jul 30 00:40	0° II			7660 Dec 08 15:13	0° \approx	
	7655 Sep 10 17:38	0° D			7661 Jan 22 07:38	0° H	
	7655 Oct 27 04:56	0° Q		evening set	7661 Feb 28 13:41	26° H 38'42	
asc. node	7655 Nov 27 18:23	15° Q 39'55			7661 Mar 05 03:02	0° Y	
retrograde	7655 Dec 29 22:32	22° Q 27'52		max. Earth dist.	7661 Mar 18 08:43	9° Y 51'26	2.40684 AU
min. Earth dist.	7656 Jan 25 12:14	17° Q 38'36	0.42826 AU		7661 Apr 13 19:50	0° X	
greatest brilliancy	7656 Feb 01 09:51	15° Q 22'18	-2.6m				
opposition	7656 Feb 02 16:21	14° Q 56'56	4°02'27	conjunction	7661 Apr 28 17:38	11° X 33'33	-0°51'19
direct	7656 Mar 05 06:52	8° Q 47'52		minimum elong	7661 Apr 28 20:29	11° X 39'06	0°51'21
	7656 May 12 03:46	0° P			7661 May 22 05:44	0° II	
	7656 Jul 05 20:17	0° L			7661 Jun 29 05:23	0° D	
	7656 Aug 25 09:22	0° M		morning rise	7661 Jul 08 03:34	7° D 01'24	
	7656 Oct 13 14:13	0° X		asc. node	7661 Jul 19 12:03	15° D 54'51	
desc. node	7656 Nov 14 16:08	19° X 56'42			7661 Aug 06 15:51	0° Q	

	7661 Sep 15 09:49	0°♎			7666 Dec 25 20:54	0°♑	
	7661 Oct 27 07:15	0°♏			7667 Feb 07 03:17	0°♐	
	7661 Dec 11 08:19	0°♎	asc. node		7667 Mar 11 11:13	24°♐13'58	
	7662 Jan 30 21:34	0°♏			7667 Mar 19 00:26	0°♐	
retrograde	7662 Apr 26 14:34	29°♏24'12			7667 Apr 27 03:07	0°♐	
opposition	7662 Jun 05 22:14	19°♏46'38	1°04'53		7667 Jun 05 20:14	0°♏	
greatest brilliancy	7662 Jun 05 23:16	19°♏45'37	-1.3m		7667 Jul 17 00:19	0°♎	
min. Earth dist.	7662 Jun 06 16:58	19°♏28'06	0.68093 AU		7667 Aug 29 01:21	0°♏	
desc. node	7662 Jul 07 15:46	10°♏26'43		evening set	7667 Sep 08 01:35	6°♏47'28	
direct	7662 Jul 17 05:17	9°♏52'35			7667 Oct 12 23:09	0°♎	
	7662 Sep 24 00:11	0°♐					
	7662 Nov 17 05:14	0°♐	conjunction		7667 Oct 28 05:09	9°♎56'58	0°55'07
	7663 Jan 02 08:56	0°♏	minimum elong		7667 Oct 28 06:20	9°♎58'52	0°55'12
	7663 Feb 13 11:31	0°♑	max. Earth dist.		7667 Nov 10 14:32	18°♎36'23	2.64855 AU
	7663 Mar 25 01:57	0°♐			7667 Nov 28 09:02	0°♏	
	7663 May 02 07:38	0°♐	morning rise		7667 Dec 13 09:49	9°♏33'53	
evening set	7663 May 03 17:36	1°♐07'14			7668 Jan 14 19:11	0°♐	
asc. node	7663 Jun 06 12:05	27°♐52'07	desc. node		7668 Feb 27 09:42	27°♐11'52	
	7663 Jun 09 04:54	0°♐			7668 Mar 02 22:23	0°♐	
conjunction	7663 Jul 13 08:56	26°♐41'34	0°25'34		7668 Apr 21 01:34	0°♏	
minimum elong	7663 Jul 13 06:30	26°♐36'53	0°25'26		7668 Jun 11 20:09	0°♑	
	7663 Jul 17 15:59	0°♏	retrograde		7668 Aug 16 08:33	0°♐	
	7663 Aug 26 12:12	0°♎			7668 Sep 15 03:39	4°♐55'59	
max. Earth dist.	7663 Sep 04 01:37	6°♎16'00	2.42996 AU	opposition	7668 Oct 14 10:49	30°♑♑	
morning rise	7663 Sep 17 20:02	16°♎12'36		greatest brilliancy	7668 Oct 16 11:11	29°♑24'19	-5°47'54
	7663 Oct 07 08:19	0°♏		min. Earth dist.	7668 Oct 18 00:59	28°♑56'10	-2.7m
	7663 Nov 20 14:53	0°♎		direct	7668 Oct 23 11:25	27°♑20'05	0.40589 AU
	7664 Jan 06 20:24	0°♏			7668 Nov 18 19:30	22°♑57'18	
	7664 Feb 27 18:20	0°♐	asc. node		7668 Dec 21 23:49	0°♐	
	7664 May 09 10:20	0°♐			7669 Jan 26 11:28	18°♐04'13	
desc. node	7664 May 24 14:24	2°♐24'47			7669 Feb 14 12:18	0°♐	
retrograde	7664 May 31 17:19	2°♐42'51			7669 Mar 30 10:36	0°♐	
	7664 Jun 21 11:21	30°♑♐			7669 May 12 02:18	0°♏	
opposition	7664 Jul 09 16:34	23°♐49'20	-1°38'21		7669 Jun 24 10:28	0°♎	
greatest brilliancy	7664 Jul 09 22:19	23°♐43'46	-1.5m		7669 Aug 08 03:18	0°♏	
min. Earth dist.	7664 Jul 14 05:53	22°♐03'37	0.64206 AU	evening set	7669 Sep 23 04:57	0°♎	
direct	7664 Aug 20 04:36	13°♐47'51			7669 Oct 18 18:33	16°♎22'08	
	7664 Oct 17 10:16	0°♐			7669 Nov 09 04:44	0°♏	
	7664 Dec 09 06:43	0°♏	conjunction		7669 Dec 03 11:32	15°♏24'41	0°21'34
	7665 Jan 22 02:28	0°♑	minimum elong		7669 Dec 03 12:10	15°♏25'42	0°21'40
	7665 Mar 03 06:22	0°♐	max. Earth dist.		7669 Dec 02 13:57	14°♏50'26	2.68074 AU
	7665 Apr 10 18:09	0°♐			7669 Dec 26 10:42	0°♐	
asc. node	7665 Apr 23 12:01	10°♐02'16	desc. node		7670 Jan 14 07:43	12°♐01'58	
	7665 May 18 21:24	0°♐	morning rise		7670 Jan 16 06:17	13°♐16'20	
	7665 Jun 26 16:45	0°♏			7670 Feb 11 08:04	0°♐	
evening set	7665 Jul 15 01:42	13°♏50'58			7670 Mar 29 12:34	0°♏	
	7665 Aug 05 23:14	0°♎			7670 May 13 22:38	0°♑	
conjunction	7665 Sep 13 05:16	27°♎14'23	1°06'24		7670 Jun 27 18:30	0°♐	
minimum elong	7665 Sep 13 04:42	27°♎13'24	1°06'23		7670 Aug 11 17:22	0°♐	
	7665 Sep 17 04:36	0°♏	retrograde		7670 Sep 28 15:25	0°♐	
max. Earth dist.	7665 Oct 14 19:59	18°♏51'57	2.56200 AU	asc. node	7670 Dec 04 21:45	23°♐49'31	
	7665 Oct 31 12:51	0°♎		min. Earth dist.	7670 Dec 14 12:02	23°♐10'42	
morning rise	7665 Nov 05 01:39	2°♎59'20		opposition	7670 Dec 31 01:26	19°♐29'07	0.38426 AU
	7665 Dec 16 22:17	0°♏		greatest brilliancy	7671 Jan 05 21:16	17°♐48'04	1°37'47
	7666 Feb 03 09:45	0°♐	direct		7671 Jan 05 11:15	17°♐55'20	-2.9m
	7666 Mar 26 23:20	0°♐			7671 Feb 04 15:10	12°♐34'17	
desc. node	7666 Apr 11 12:16	8°♐25'47			7671 Apr 04 10:34	0°♏	
	7666 May 27 03:29	0°♏			7671 May 28 10:46	0°♎	
retrograde	7666 Jul 14 18:01	11°♏10'26			7671 Jul 16 19:17	0°♏	
opposition	7666 Aug 19 21:12	3°♏33'01	-4°34'05		7671 Sep 03 09:34	0°♎	
greatest brilliancy	7666 Aug 21 02:53	3°♏06'03	-1.9m	evening set	7671 Oct 21 17:14	0°♏	
min. Earth dist.	7666 Aug 27 20:08	0°♏40'06	0.54043 AU	desc. node	7671 Nov 24 07:33	21°♏04'34	
	7666 Aug 29 17:57	30°♑♐			7671 Dec 02 06:13	26°♏06'05	
direct	7666 Sep 28 09:49	24°♐17'23		max. Earth dist.	7671 Dec 08 09:34	0°♐	
	7666 Oct 29 02:35	0°♏			7671 Dec 25 05:42	10°♐45'37	2.65778 AU

conjunction	7672 Jan 07 23:40	19° ♁ 37'41	-0°19'13	retrograde	7677 Apr 13 08:33	16° ♁ 52'39	
minimum elong	7672 Jan 07 23:05	19° ♁ 36'45	0°19'06	opposition	7677 May 23 21:01	7° ♁ 03'54	2°02'21
	7672 Jan 23 21:40	0° ♁		min. Earth dist.	7677 May 23 04:04	7° ♁ 20'45	0.67814 AU
morning rise	7672 Feb 21 13:03	18° ♁ 58'51		greatest brilliancy	7677 May 23 20:09	7° ♁ 04'46	-1.3m
	7672 Mar 08 20:51	0° ♁			7677 Jun 13 03:28	30° ♁	
	7672 Apr 21 04:35	0° ♁		direct	7677 Jul 03 15:53	27° ♁ 20'29	
	7672 Jun 01 23:39	0° ♁		desc. node	7677 Jul 24 05:38	29° ♁ 40'25	
	7672 Jul 12 14:17	0° ♁			7677 Jul 25 17:16	0° ♁	
	7672 Aug 21 16:55	0° ♁			7677 Oct 05 15:12	0° ♁	
	7672 Oct 01 14:25	0° ♁			7677 Nov 25 16:16	0° ♁	
asc. node	7672 Oct 31 09:31	20° ♁ 31'30			7678 Jan 10 01:38	0° ♁	
	7672 Nov 15 06:45	0° ♁			7678 Feb 20 23:53	0° ♁	
retrograde	7673 Jan 29 07:12	28° ♁ 36'24			7678 Apr 01 14:31	0° ♁	
min. Earth dist.	7673 Feb 28 05:51	22° ♁ 25'33	0.51255 AU	evening set	7678 Apr 06 01:25	3° ♁ 27'09	
greatest brilliancy	7673 Mar 06 17:00	20° ♁ 00'46	-2.1m		7678 May 09 21:13	0° ♁	
opposition	7673 Mar 08 04:14	19° ♁ 27'46	5°13'12				
direct	7673 Apr 11 18:09	11° ♁ 57'11		conjunction	7678 Jun 13 03:59	27° ♁ 08'39	-0°07'14
	7673 Jun 14 01:34	0° ♁		minimum elong	7678 Jun 13 04:47	27° ♁ 10'14	0°07'21
	7673 Aug 10 12:15	0° ♁		behind sun begin	7678 Jun 12 01:15	26° ♁ 15'50	
	7673 Oct 01 00:33	0° ♁		behind sun end	7678 Jun 14 08:20	28° ♁ 04'37	
desc. node	7673 Oct 19 05:49	11° ♁ 00'29			7678 Jun 16 18:48	0° ♁	
	7673 Nov 18 23:05	0° ♁		asc. node	7678 Jun 23 04:56	5° ♁ 03'43	
evening set	7673 Dec 29 22:41	26° ♁ 14'28			7678 Jul 25 04:49	0° ♁	
	7674 Jan 04 16:14	0° ♁		max. Earth dist.	7678 Jul 27 07:00	1° ♁ 36'33	2.37806 AU
max. Earth dist.	7674 Jan 18 18:32	9° ♁ 20'50	2.58175 AU	morning rise	7678 Aug 23 20:33	22° ♁ 30'19	
					7678 Sep 02 22:50	0° ♁	
conjunction	7674 Feb 14 16:47	27° ♁ 37'06	-0°55'10		7678 Oct 14 17:23	0° ♁	
minimum elong	7674 Feb 14 15:33	27° ♁ 34'58	0°55'06		7678 Nov 28 02:54	0° ♁	
	7674 Feb 18 03:34	0° ♁			7679 Jan 15 02:28	0° ♁	
	7674 Apr 01 11:46	0° ♁			7679 Mar 11 07:42	0° ♁	
morning rise	7674 Apr 05 11:41	2° ♁ 54'16		retrograde	7679 May 18 02:56	19° ♁ 40'40	
	7674 May 12 00:29	0° ♁		desc. node	7679 Jun 11 04:18	16° ♁ 01'32	
	7674 Jun 20 06:16	0° ♁		opposition	7679 Jun 26 18:49	10° ♁ 26'57	-0°32'51
	7674 Jul 28 22:11	0° ♁		greatest brilliancy	7679 Jun 26 20:05	10° ♁ 25'43	-1.4m
	7674 Sep 05 21:58	0° ♁		min. Earth dist.	7679 Jun 29 20:54	9° ♁ 14'29	0.66506 AU
asc. node	7674 Sep 18 07:52	9° ♁ 21'46		direct	7679 Aug 07 10:05	0° ♁ 24'13	
	7674 Oct 16 10:19	0° ♁			7679 Oct 31 19:17	0° ♁	
	7674 Nov 29 10:05	0° ♁			7679 Dec 19 15:23	0° ♁	
	7675 Jan 22 09:05	0° ♁			7680 Jan 31 12:24	0° ♁	
retrograde	7675 Mar 10 15:05	12° ♁ 02'06			7680 Mar 11 08:31	0° ♁	
min. Earth dist.	7675 Apr 15 04:48	3° ♁ 51'56	0.62570 AU		7680 Apr 18 16:18	0° ♁	
opposition	7675 Apr 19 17:46	2° ♁ 03'51	4°11'17	asc. node	7680 May 10 03:43	16° ♁ 58'53	
greatest brilliancy	7675 Apr 19 02:16	2° ♁ 19'14	-1.5m		7680 May 26 15:55	0° ♁	
	7675 Apr 25 00:53	30° ♁		evening set	7680 Jun 17 22:10	17° ♁ 23'44	
direct	7675 May 28 05:06	23° ♁ 06'46			7680 Jul 04 06:51	0° ♁	
	7675 Jul 04 03:10	0° ♁			7680 Aug 13 08:02	0° ♁	
desc. node	7675 Sep 06 06:01	29° ♁ 08'08					
	7675 Sep 07 20:41	0° ♁		conjunction	7680 Aug 22 11:19	6° ♁ 39'12	0°58'48
	7675 Oct 30 04:29	0° ♁		minimum elong	7680 Aug 22 09:15	6° ♁ 35'27	0°58'45
	7675 Dec 16 22:41	0° ♁			7680 Sep 24 08:27	0° ♁	
	7676 Jan 30 11:08	0° ♁		max. Earth dist.	7680 Oct 01 14:33	5° ♁ 01'39	2.51466 AU
evening set	7676 Feb 10 00:10	7° ♁ 23'26		morning rise	7680 Oct 18 18:22	16° ♁ 44'48	
max. Earth dist.	7676 Feb 23 21:17	17° ♁ 17'10	2.46019 AU		7680 Nov 07 14:05	0° ♁	
	7676 Mar 12 08:35	0° ♁			7680 Dec 24 03:36	0° ♁	
					7681 Feb 11 11:21	0° ♁	
conjunction	7676 Apr 04 00:12	16° ♁ 53'16	-1°04'19		7681 Apr 07 02:03	0° ♁	
minimum elong	7676 Apr 04 01:18	16° ♁ 55'21	1°04'20	desc. node	7681 Apr 28 03:02	9° ♁ 54'01	
	7676 Apr 21 05:37	0° ♁		retrograde	7681 Jun 26 02:32	25° ♁ 19'12	
	7676 May 29 19:36	0° ♁		opposition	7681 Aug 02 13:45	17° ♁ 06'39	-3°26'23
morning rise	7676 Jun 06 18:19	6° ♁ 14'47		greatest brilliancy	7681 Aug 03 08:20	16° ♁ 49'11	-1.7m
	7676 Jul 06 22:06	0° ♁		min. Earth dist.	7681 Aug 09 07:37	14° ♁ 34'50	0.58711 AU
asc. node	7676 Aug 05 06:47	22° ♁ 56'49		direct	7681 Sep 12 05:32	7° ♁ 23'01	
	7676 Aug 14 09:58	0° ♁			7681 Nov 19 19:28	0° ♁	
	7676 Sep 23 04:54	0° ♁			7682 Jan 06 14:44	0° ♁	
	7676 Nov 04 06:40	0° ♁			7682 Feb 17 00:37	0° ♁	
	7676 Dec 20 01:56	0° ♁		asc. node	7682 Mar 28 04:19	0° ♁ 03'07	
	7677 Feb 12 05:21	0° ♁			7682 Mar 28 02:43	0° ♁	

	7682 May 05 16:32	0°☿			7687 Jan 30 17:13	0°♊	
	7682 Jun 13 22:18	0°♈	morning rise		7687 Feb 06 22:18	4°♊42'40	
	7682 Jul 24 15:26	0°♉			7687 Mar 17 01:43	0°♈	
evening set	7682 Aug 19 20:14	18°♉36'08			7687 Apr 30 00:57	0°♉	
	7682 Sep 05 06:47	0°♊			7687 Jun 11 16:38	0°♉	
					7687 Jul 23 08:01	0°♊	
conjunction	7682 Oct 12 01:30	24°♊49'17 1°03'21			7687 Sep 02 18:32	0°☿	
minimum elong	7682 Oct 12 02:24	24°♊50'45 1°03'24			7687 Oct 16 01:13	0°♈	
	7682 Oct 19 21:30	0°♊	asc. node		7687 Nov 18 03:58	19°♈59'34	
max. Earth dist.	7682 Nov 01 01:00	7°♊57'44 2.62107 AU			7687 Dec 09 12:03	0°♉	
morning rise	7682 Nov 29 04:51	26°♊09'17	retrograde		7688 Jan 11 03:22	6°♉58'42	
	7682 Dec 05 05:19	0°♊	min. Earth dist.		7688 Feb 07 18:21	1°♉42'26 0.45750 AU	
	7683 Jan 21 21:43	0°♋			7688 Feb 12 16:24	30°♈♈	
	7683 Mar 11 22:45	0°♊	greatest brilliancy		7688 Feb 14 17:17	29°♈16'52 -2.4m	
desc. node	7683 Mar 16 01:03	2°♊27'21	opposition		7688 Feb 16 05:09	28°♈45'23 4°45'55	
	7683 May 02 11:20	0°♈	direct		7688 Mar 19 20:12	22°♈05'17	
	7683 Jul 01 22:11	0°♉			7688 Apr 27 02:42	0°♉	
retrograde	7683 Aug 19 05:13	11°♉16'26			7688 Jun 28 10:51	0°♊	
opposition	7683 Sep 21 11:40	4°♉51'27 -5°54'26			7688 Aug 19 16:41	0°♊	
greatest brilliancy	7683 Sep 23 07:21	4°♉15'23 -2.3m			7688 Oct 08 14:08	0°♊	
min. Earth dist.	7683 Sep 30 01:35	2°♉02'21 0.45692 AU	desc. node		7688 Nov 04 19:14	16°♊46'16	
	7683 Oct 06 22:45	30°♈♈			7688 Nov 25 21:53	0°♋	
direct	7683 Oct 27 22:15	27°♈00'50	evening set		7688 Dec 15 10:13	12°♋25'25	
	7683 Nov 17 23:48	0°♉	max. Earth dist.		7689 Jan 08 04:29	27°♋50'03 2.61755 AU	
	7684 Jan 17 09:52	0°♈			7689 Jan 11 11:39	0°♊	
asc. node	7684 Feb 13 03:47	18°♋06'15					
	7684 Feb 29 19:47	0°♊	conjunction		7689 Jan 29 22:02	12°♊13'50 -0°42'49	
	7684 Apr 10 17:22	0°☿	minimum elong		7689 Jan 29 20:53	12°♊11'54 0°42'43	
	7684 May 21 17:10	0°♈			7689 Feb 25 02:32	0°♈	
	7684 Jul 02 21:55	0°♉	morning rise		7689 Mar 17 21:40	14°♈27'32	
	7684 Aug 15 18:56	0°♊			7689 Apr 08 18:27	0°♉	
	7684 Sep 30 06:58	0°♊			7689 May 19 17:11	0°♈	
evening set	7684 Oct 03 12:07	2°♊05'07			7689 Jun 28 09:12	0°♊	
	7684 Nov 15 23:32	0°♊			7689 Aug 06 10:51	0°☿	
					7689 Sep 14 21:18	0°♈	
conjunction	7684 Nov 19 10:54	2°♊12'50 0°36'02	asc. node		7689 Oct 05 01:53	14°♈56'03	
minimum elong	7684 Nov 19 11:54	2°♊14'25 0°36'08			7689 Oct 26 04:00	0°♉	
max. Earth dist.	7684 Nov 23 18:45	4°♊58'06 2.67479 AU			7689 Dec 11 11:34	0°♊	
morning rise	7685 Jan 02 18:45	0°♋21'20	retrograde		7690 Feb 23 23:57	26°♊50'12	
	7685 Jan 02 05:18	0°♋	min. Earth dist.		7690 Mar 29 12:08	19°♊22'09 0.58754 AU	
desc. node	7685 Jan 30 22:16	18°♋12'46	opposition		7690 Apr 04 12:20	17°♊00'53 4°48'36	
	7685 Feb 18 11:15	0°♊	greatest brilliancy		7690 Apr 03 12:34	17°♊24'12 -1.7m	
	7685 Apr 06 11:57	0°♈	direct		7690 May 11 15:59	8°♊31'41	
	7685 May 23 10:55	0°♉			7690 Jul 22 12:42	0°♊	
	7685 Jul 10 01:35	0°♈			7690 Sep 17 05:23	0°♊	
	7685 Aug 30 07:53	0°♊	desc. node		7690 Sep 22 19:08	3°♊11'17	
retrograde	7685 Nov 04 19:13	21°♊51'55			7690 Nov 06 19:21	0°♋	
opposition	7685 Dec 04 19:59	16°♊51'30 -2°00'57			7690 Dec 24 00:59	0°♊	
min. Earth dist.	7685 Dec 04 06:40	17°♊00'22 0.36638 AU	evening set		7691 Jan 23 13:42	20°♊24'43	
greatest brilliancy	7685 Dec 04 21:42	16°♊50'21 -3.1m			7691 Feb 06 11:56	0°♈	
asc. node	7685 Dec 31 03:43	12°♊02'15	max. Earth dist.		7691 Feb 07 12:33	0°♈42'47 2.51182 AU	
direct	7686 Jan 03 07:38	11°♊58'12					
	7686 Mar 02 13:06	0°☿	conjunction		7691 Mar 14 21:05	25°♈52'35 -1°06'21	
	7686 Apr 22 20:13	0°♈	minimum elong		7691 Mar 14 20:44	25°♈51'56 1°06'20	
	7686 Jun 08 21:10	0°♉			7691 Mar 20 12:41	0°♉	
	7686 Jul 25 16:19	0°♊			7691 Apr 29 14:59	0°♈	
	7686 Sep 11 00:06	0°♊	morning rise		7691 May 10 21:37	8°♈38'34	
	7686 Oct 28 16:20	0°♊			7691 Jun 07 10:04	0°♊	
evening set	7686 Nov 10 08:41	7°♊59'15			7691 Jul 15 16:34	0°☿	
	7686 Dec 15 02:56	0°♋	asc. node		7691 Aug 22 22:50	29°☿43'33	
max. Earth dist.	7686 Dec 16 10:58	0°♋51'00 2.67339 AU			7691 Aug 23 07:25	0°♈	
desc. node	7686 Dec 18 20:10	2°♋22'11			7691 Oct 02 05:54	0°♉	
					7691 Nov 13 17:09	0°♊	
conjunction	7686 Dec 25 02:00	6°♋21'26 -0°03'20			7691 Dec 30 22:46	0°♊	
minimum elong	7686 Dec 25 01:53	6°♋21'14 0°03'13			7692 Mar 04 15:58	0°♊	
behind sun begin	7686 Dec 24 07:43	5°♋52'12	retrograde		7692 Mar 31 02:43	4°♊01'52	
behind sun end	7686 Dec 25 20:03	6°♋50'17			7692 Apr 24 18:40	30°♈♊	

min. Earth dist.	7692 May 08 10:25	24° \mathbb{M} 58'13	0.66531 AU		7697 May 13 19:27	0° \mathfrak{G}	
opposition	7692 May 10 15:09	24° \mathbb{M} 05'43	2°56'16		7697 Jun 21 17:33	0° \mathcal{Q}	
greatest brilliancy	7692 May 10 10:05	24° \mathbb{M} 10'45	-1.4m	evening set	7697 Jul 28 22:53	27° \mathcal{Q} 42'02	
direct	7692 Jun 19 16:10	14° \mathbb{M} 37'00			7697 Aug 01 02:43	0° \mathfrak{M}	
desc. node	7692 Aug 09 19:18	26° \mathbb{M} 39'31			7697 Sep 12 10:35	0° \mathfrak{L}	
	7692 Aug 17 19:11	0° \mathfrak{Z}					
	7692 Oct 15 05:42	0° \mathfrak{Z}		conjunction	7697 Sep 24 07:15	8° \mathfrak{L} 09'07	1°07'03
	7692 Dec 03 13:13	0° \approx		minimum elong	7697 Sep 24 07:23	8° \mathfrak{L} 09'21	1°07'04
	7693 Jan 17 11:48	0° \mathfrak{H}		max. Earth dist.	7697 Oct 21 10:16	26° \mathfrak{L} 25'01	2.58542 AU
	7693 Feb 28 08:41	0° \mathfrak{Y}			7697 Oct 26 20:02	0° \mathbb{M}	
evening set	7693 Mar 12 19:14	9° \mathfrak{Y} 15'22		morning rise	7697 Nov 14 04:14	12° \mathbb{M} 01'17	
	7693 Apr 09 01:13	0° \mathfrak{B}			7697 Dec 12 03:35	0° \mathfrak{Z}	
max. Earth dist.	7693 Apr 09 20:39	0° \mathfrak{B} 37'31	2.38118 AU		7698 Jan 29 05:58	0° \mathfrak{Z}	
					7698 Mar 20 15:40	0° \approx	
conjunction	7693 May 14 06:01	27° \mathfrak{B} 30'05	-0°38'18	desc. node	7698 Apr 01 15:11	6° \approx 48'51	
minimum elong	7693 May 14 09:07	27° \mathfrak{B} 36'10	0°38'21		7698 May 15 14:48	0° \mathfrak{H}	
	7693 May 17 10:01	0° \mathbb{I}		retrograde	7698 Jul 26 12:03	21° \mathfrak{H} 31'18	
	7693 Jun 24 08:34	0° \mathfrak{G}		opposition	7698 Aug 30 17:18	14° \mathfrak{H} 16'59	-5°09'14
asc. node	7693 Jul 09 21:55	12° \mathfrak{G} 14'03		greatest brilliancy	7698 Sep 01 05:24	13° \mathfrak{H} 45'03	-2.0m
morning rise	7693 Jul 25 18:31	24° \mathfrak{G} 35'57		min. Earth dist.	7698 Sep 08 03:59	11° \mathfrak{H} 18'15	0.51188 AU
	7693 Aug 01 18:12	0° \mathcal{Q}		direct	7698 Oct 08 09:30	5° \mathfrak{H} 24'28	
	7693 Sep 10 10:58	0° \mathfrak{M}			7698 Dec 16 17:43	0° \mathfrak{Y}	
	7693 Oct 22 05:40	0° \mathfrak{L}			7699 Jan 31 06:01	0° \mathfrak{B}	
	7693 Dec 05 22:09	0° \mathbb{M}		asc. node	7699 Mar 01 20:42	21° \mathfrak{B} 41'31	
	7694 Jan 24 04:24	0° \mathfrak{Z}			7699 Mar 12 22:00	0° \mathbb{I}	
	7694 Mar 28 05:57	0° \mathfrak{Z}			7699 Apr 21 10:59	0° \mathfrak{G}	
retrograde	7694 May 04 07:20	7° \mathfrak{Z} 03'37			7699 May 31 11:52	0° \mathcal{Q}	
	7694 Jun 07 04:17	30° \mathfrak{R} \mathfrak{Z}			7699 Jul 11 22:18	0° \mathfrak{M}	
opposition	7694 Jun 13 10:54	27° \mathfrak{Z} 33'39	0°29'41		7699 Aug 24 04:40	0° \mathfrak{L}	
greatest brilliancy	7694 Jun 13 11:48	27° \mathfrak{Z} 32'45	-1.3m	evening set	7699 Sep 18 03:17	16° \mathfrak{L} 44'22	
min. Earth dist.	7694 Jun 15 01:35	26° \mathfrak{Z} 55'30	0.67799 AU		7699 Oct 08 06:16	0° \mathbb{M}	
desc. node	7694 Jun 27 18:44	22° \mathfrak{Z} 13'04					
direct	7694 Jul 24 22:34	17° \mathfrak{Z} 35'13		conjunction	7699 Nov 05 22:23	18° \mathbb{M} 35'32	0°48'47
	7694 Sep 14 06:09	0° \mathfrak{Z}		minimum elong	7699 Nov 05 23:34	18° \mathbb{M} 37'26	0°48'52
	7694 Nov 11 03:49	0° \approx		max. Earth dist.	7699 Nov 15 23:16	25° \mathbb{M} 02'03	2.66035 AU
	7694 Dec 28 02:20	0° \mathfrak{H}			7699 Nov 23 17:41	0° \mathfrak{Z}	
	7695 Feb 08 10:58	0° \mathfrak{Y}		morning rise	7699 Dec 21 07:12	17° \mathfrak{Z} 31'07	
	7695 Mar 20 03:35	0° \mathfrak{B}			7700 Jan 10 01:19	0° \mathfrak{Z}	
	7695 Apr 27 10:01	0° \mathbb{I}		desc. node	7700 Feb 17 12:21	24° \mathfrak{Z} 10'39	
evening set	7695 May 20 09:24	18° \mathbb{I} 11'43			7700 Feb 26 19:24	0° \approx	
asc. node	7695 May 27 20:37	24° \mathbb{I} 06'14			7700 Apr 16 00:29	0° \mathfrak{H}	
	7695 Jun 04 07:53	0° \mathfrak{G}			7700 Jun 04 11:22	0° \mathfrak{Y}	
	7695 Jul 12 19:52	0° \mathcal{Q}			7700 Jul 28 11:41	0° \mathfrak{B}	
				retrograde	7700 Oct 03 21:19	20° \mathfrak{B} 51'12	
conjunction	7695 Jul 29 04:53	12° \mathcal{Q} 28'33	0°40'48	opposition	7700 Nov 03 04:50	15° \mathfrak{B} 44'05	-4°59'56
minimum elong	7695 Jul 29 01:53	12° \mathcal{Q} 22'53	0°40'40	greatest brilliancy	7700 Nov 04 06:54	15° \mathfrak{B} 25'59	-2.9m
	7695 Aug 21 16:55	0° \mathfrak{M}		min. Earth dist.	7700 Nov 08 06:04	14° \mathfrak{B} 20'16	0.38412 AU
max. Earth dist.	7695 Sep 16 01:28	18° \mathfrak{M} 21'52	2.46100 AU	direct	7700 Dec 04 17:32	10° \mathfrak{B} 03'26	
morning rise	7695 Sep 30 04:30	28° \mathfrak{M} 20'44		asc. node	7701 Jan 17 21:19	21° \mathfrak{B} 43'06	
	7695 Oct 02 13:18	0° \mathfrak{L}			7701 Feb 02 23:44	0° \mathbb{I}	
	7695 Nov 15 17:53	0° \mathbb{M}			7701 Mar 23 04:06	0° \mathfrak{G}	
	7696 Jan 01 15:02	0° \mathfrak{Z}			7701 May 06 10:22	0° \mathcal{Q}	
	7696 Feb 21 06:55	0° \mathfrak{Z}			7701 Jun 19 16:03	0° \mathfrak{M}	
	7696 Apr 22 07:53	0° \approx			7701 Aug 03 22:17	0° \mathfrak{L}	
desc. node	7696 May 14 17:19	7° \approx 22'43			7701 Sep 19 08:23	0° \mathbb{M}	
retrograde	7696 Jun 09 11:37	10° \approx 55'58		evening set	7701 Oct 28 03:48	24° \mathbb{M} 41'21	
opposition	7696 Jul 18 00:06	2° \approx 15'25	-2°17'34		7701 Nov 05 12:59	0° \mathfrak{Z}	
greatest brilliancy	7696 Jul 18 09:43	2° \approx 06'11	-1.5m	max. Earth dist.	7701 Dec 08 16:39	21° \mathfrak{Z} 00'40	2.68048 AU
min. Earth dist.	7696 Jul 23 08:59	0° \approx 11'53	0.62510 AU				
	7696 Jul 23 21:31	30° \mathfrak{R} \mathfrak{Z}		conjunction	7701 Dec 12 09:09	23° \mathfrak{Z} 21'12	0°12'33
direct	7696 Aug 28 07:54	22° \mathfrak{Z} 17'25		minimum elong	7701 Dec 12 09:32	23° \mathfrak{Z} 21'47	0°12'41
	7696 Oct 05 01:37	0° \approx		behind sun begin	7701 Dec 11 22:09	23° \mathfrak{Z} 03'44	
	7696 Dec 02 14:06	0° \mathfrak{H}		behind sun end	7701 Dec 12 20:54	23° \mathfrak{Z} 39'51	
	7697 Jan 16 09:31	0° \mathfrak{Y}			7701 Dec 22 20:02	0° \mathfrak{Z}	
	7697 Feb 25 21:48	0° \mathfrak{B}		desc. node	7702 Jan 05 09:33	8° \mathfrak{Z} 39'01	
	7697 Apr 05 13:29	0° \mathbb{I}		morning rise	7702 Jan 25 01:09	21° \mathfrak{Z} 15'01	
asc. node	7697 Apr 13 19:29	6° \mathbb{I} 28'36			7702 Feb 07 14:31	0° \approx	

	7702 Mar 25 11:09	0° H		greatest brilliancy	7707 Apr 28 10:41	10° M 47'37	-1.4m
	7702 May 09 06:48	0° Y		direct	7707 Jun 07 00:11	1° M 26'38	
	7702 Jun 22 03:52	0° B		desc. node	7707 Aug 28 09:10	27° M 44'46	
	7702 Aug 04 12:15	0° II			7707 Sep 01 20:21	0° J	
	7702 Sep 17 18:27	0° G			7707 Oct 25 18:59	0° Z	
	7702 Nov 08 11:51	0° Q			7707 Dec 13 01:08	0° \approx	
asc. node	7702 Dec 05 19:59	9° Q 27'05			7708 Jan 26 17:19	0° H	
retrograde	7702 Dec 20 15:00	10° Q 59'41		evening set	7708 Feb 21 19:02	18° H 27'57	
min. Earth dist.	7703 Jan 15 16:44	6° Q 27'52	0.40642 AU	max. Earth dist.	7708 Mar 07 15:04	29° H 16'30	2.43026 AU
greatest brilliancy	7703 Jan 22 04:43	4° Q 26'24	-2.7m		7708 Mar 08 14:43	0° Y	
opposition	7703 Jan 23 03:48	4° Q 08'14	3°12'12		7708 Apr 17 10:15	0° B	
	7703 Feb 07 11:15	30° R G					
direct	7703 Feb 22 21:48	28° G 25'15		conjunction	7708 Apr 18 12:01	0° B 49'31	-0°58'26
	7703 Mar 10 15:45	0° Q		minimum elong	7708 Apr 18 14:10	0° B 53'41	0°58'29
	7703 May 20 16:10	0° M			7708 May 25 22:19	0° II	
	7703 Jul 11 11:53	0° L		morning rise	7708 Jun 25 05:10	23° II 53'37	
	7703 Aug 30 01:53	0° M			7708 Jul 02 23:02	0° G	
	7703 Oct 17 20:52	0° J		asc. node	7708 Jul 27 13:52	19° G 17'37	
desc. node	7703 Nov 23 08:40	22° J 47'54			7708 Aug 10 09:32	0° Q	
evening set	7703 Dec 03 07:34	29° J 05'24			7708 Sep 19 02:45	0° M	
	7703 Dec 04 18:00	0° Z			7708 Oct 31 00:04	0° L	
max. Earth dist.	7703 Dec 31 15:12	17° Z 12'34	2.64572 AU		7708 Dec 15 05:32	0° M	
					7709 Feb 04 19:18	0° J	
conjunction	7704 Jan 17 03:19	27° Z 56'29	-0°28'18	retrograde	7709 Apr 21 22:03	24° J 33'53	
minimum elong	7704 Jan 17 02:29	27° Z 55'07	0°28'11	opposition	7709 Jun 01 08:45	14° J 51'01	1°29'05
	7704 Jan 20 06:42	0° \approx		greatest brilliancy	7709 Jun 01 09:14	14° J 50'32	-1.3m
morning rise	7704 Mar 02 08:17	28° \approx 06'07		min. Earth dist.	7709 Jun 01 11:54	14° J 47'53	0.68098 AU
	7704 Mar 05 03:08	0° H		direct	7709 Jul 12 11:07	5° J 01'09	
	7704 Apr 17 05:10	0° Y		desc. node	7709 Jul 15 08:42	5° J 04'11	
	7704 May 28 16:35	0° B			7709 Sep 29 08:57	0° Z	
	7704 Jul 07 22:04	0° II			7709 Nov 21 03:54	0° \approx	
	7704 Aug 16 13:32	0° G			7710 Jan 06 01:10	0° H	
	7704 Sep 25 17:48	0° Q			7710 Feb 17 03:04	0° Y	
asc. node	7704 Oct 22 18:36	19° Q 18'26			7710 Mar 28 18:31	0° B	
	7704 Nov 07 13:35	0° M		evening set	7710 Apr 22 05:24	19° B 05'50	
	7704 Dec 30 15:34	0° L			7710 May 06 00:54	0° II	
retrograde	7705 Feb 09 03:05	9° L 50'51			7710 Jun 12 21:56	0° G	
min. Earth dist.	7705 Mar 12 08:47	3° L 11'12	0.54122 AU	asc. node	7710 Jun 14 13:24	1° G 17'54	
greatest brilliancy	7705 Mar 18 09:25	0° L 53'12	-1.9m				
opposition	7705 Mar 19 17:16	0° L 22'42	5°11'22	conjunction	7710 Jul 01 08:58	14° G 30'38	0°12'00
	7705 Mar 20 17:08	30° R M		minimum elong	7710 Jul 01 07:41	14° G 28'07	0°11'53
direct	7705 Apr 24 07:23	22° M 28'39		behind sun begin	7710 Jun 30 10:57	13° G 47'35	
	7705 Jun 01 08:46	0° L		behind sun end	7710 Jul 02 04:25	15° G 08'38	
	7705 Aug 04 17:50	0° M			7710 Jul 21 07:46	0° Q	
	7705 Sep 26 15:39	0° J		max. Earth dist.	7710 Aug 23 13:23	25° Q 10'18	2.40523 AU
desc. node	7705 Oct 10 08:56	8° J 09'32			7710 Aug 30 01:47	0° M	
	7705 Nov 15 02:25	0° Z		morning rise	7710 Sep 08 11:48	6° M 54'39	
	7705 Dec 31 23:50	0° \approx			7710 Oct 10 19:33	0° L	
evening set	7706 Jan 08 14:41	5° \approx 01'36			7710 Nov 24 01:30	0° M	
max. Earth dist.	7706 Jan 26 10:45	16° \approx 58'25	2.55855 AU		7711 Jan 10 11:44	0° J	
	7706 Feb 14 11:21	0° H			7711 Mar 04 09:35	0° Z	
				retrograde	7711 May 27 07:55	27° Z 33'36	
conjunction	7706 Feb 25 09:10	7° H 36'24	-1°00'47	desc. node	7711 Jun 02 07:29	27° Z 20'14	
minimum elong	7706 Feb 25 08:05	7° H 34'29	1°00'45	opposition	7711 Jul 05 15:46	18° Z 30'32	-1°10'43
	7706 Mar 28 17:10	0° Y		greatest brilliancy	7711 Jul 05 19:14	18° Z 27'09	-1.4m
morning rise	7706 Apr 18 07:09	15° Y 08'19		min. Earth dist.	7711 Jul 09 13:46	16° Z 59'11	0.65368 AU
	7706 May 08 02:28	0° B		direct	7711 Aug 16 06:31	8° Z 27'40	
	7706 Jun 16 04:31	0° II			7711 Oct 24 19:36	0° \approx	
	7706 Jul 24 16:42	0° G			7711 Dec 14 17:55	0° H	
	7706 Sep 01 12:22	0° Q			7712 Jan 27 04:28	0° Y	
asc. node	7706 Sep 09 17:02	6° Q 13'45			7712 Mar 07 05:46	0° B	
	7706 Oct 11 17:32	0° M			7712 Apr 14 16:02	0° II	
	7706 Nov 23 22:10	0° L		asc. node	7712 May 01 13:35	13° II 20'16	
	7707 Jan 13 01:59	0° M			7712 May 22 17:13	0° G	
retrograde	7707 Mar 19 14:22	20° M 35'30			7712 Jun 30 09:43	0° Q	
min. Earth dist.	7707 Apr 25 05:12	12° M 04'42	0.64248 AU	evening set	7712 Jul 04 14:27	3° Q 11'51	
opposition	7707 Apr 28 21:57	10° M 36'25	3°45'36		7712 Aug 09 12:31	0° M	

conjunction	7712 Sep 05 04:05	19° \mathbb{M} 10'42	1°04'15	retrograde	7717 Nov 23 06:53	10° \mathbb{G} 26'38	
minimum elong	7712 Sep 05 02:54	19° \mathbb{M} 08'37	1°04'14	min. Earth dist.	7717 Dec 20 09:59	6° \mathbb{G} 01'39	0.37217 AU
	7712 Sep 20 14:06	0° \mathbb{L}		asc. node	7717 Dec 22 13:44	5° \mathbb{G} 26'09	
max. Earth dist.	7712 Oct 10 10:43	13° \mathbb{L} 39'10	2.54162 AU	opposition	7717 Dec 24 04:17	4° \mathbb{G} 59'37	0°07'21
morning rise	7712 Oct 29 20:37	26° \mathbb{L} 42'24		greatest brilliancy	7717 Dec 24 03:48	4° \mathbb{G} 59'57	-3.0m
	7712 Nov 03 19:41	0° \mathbb{M}		direct	7718 Jan 22 10:58	0° \mathbb{G} 02'02	
	7712 Dec 20 05:16	0° \mathbb{J}			7718 Apr 13 22:45	0° \mathbb{Q}	
	7713 Feb 06 23:06	0° \mathbb{Z}			7718 Jun 02 22:41	0° \mathbb{M}	
	7713 Mar 31 12:44	0° \approx			7718 Jul 20 23:19	0° \mathbb{L}	
desc. node	7713 Apr 19 05:30	9° \approx 40'50			7718 Sep 06 22:28	0° \mathbb{M}	
	7713 Jun 07 19:40	0° \mathbb{H}			7718 Oct 24 22:45	0° \mathbb{J}	
retrograde	7713 Jul 07 09:03	4° \mathbb{H} 35'46		evening set	7718 Nov 19 08:25	15° \mathbb{J} 57'34	
	7713 Aug 03 16:56	30° \mathbb{R} \approx		desc. node	7718 Dec 09 23:02	29° \mathbb{J} 00'19	
opposition	7713 Aug 13 03:37	26° \approx 41'44	-4°05'39		7718 Dec 11 12:35	0° \mathbb{Z}	
greatest brilliancy	7713 Aug 14 04:22	26° \approx 18'52	-1.8m	max. Earth dist.	7718 Dec 22 14:14	7° \mathbb{Z} 03'33	2.66578 AU
min. Earth dist.	7713 Aug 20 14:51	23° \approx 56'32	0.56229 AU				
direct	7713 Sep 22 06:34	17° \approx 11'22		conjunction	7719 Jan 02 23:42	14° \mathbb{Z} 22'15	-0°12'39
	7713 Nov 09 18:45	0° \mathbb{H}		minimum elong	7719 Jan 02 23:19	14° \mathbb{Z} 21'38	0°12'31
	7713 Dec 31 15:12	0° \mathbb{Y}		behind sun begin	7719 Jan 02 11:34	14° \mathbb{Z} 02'45	
	7714 Feb 11 23:49	0° \mathbb{B}		behind sun end	7719 Jan 03 11:03	14° \mathbb{Z} 40'32	
asc. node	7714 Mar 19 12:59	26° \mathbb{B} 57'08			7719 Jan 27 02:11	0° \approx	
	7714 Mar 23 11:56	0° \mathbb{I}		morning rise	7719 Feb 16 03:59	13° \approx 12'42	
	7714 May 01 07:56	0° \mathbb{G}			7719 Mar 13 06:01	0° \mathbb{H}	
	7714 Jun 09 18:51	0° \mathbb{Q}			7719 Apr 25 20:58	0° \mathbb{Y}	
	7714 Jul 20 16:39	0° \mathbb{M}			7719 Jun 07 01:07	0° \mathbb{B}	
evening set	7714 Sep 01 00:49	29° \mathbb{M} 41'09			7719 Jul 18 01:59	0° \mathbb{I}	
	7714 Sep 01 11:49	0° \mathbb{L}			7719 Aug 27 16:15	0° \mathbb{G}	
	7714 Oct 16 05:09	0° \mathbb{M}			7719 Oct 08 07:58	0° \mathbb{Q}	
				asc. node	7719 Nov 09 11:25	21° \mathbb{Q} 16'58	
conjunction	7714 Oct 22 10:24	4° \mathbb{M} 04'56	0°59'01		7719 Nov 24 05:14	0° \mathbb{M}	
minimum elong	7714 Oct 22 11:30	4° \mathbb{M} 06'45	0°59'04	retrograde	7720 Jan 23 07:44	20° \mathbb{M} 08'12	
max. Earth dist.	7714 Nov 07 17:47	14° \mathbb{M} 41'56	2.63724 AU	min. Earth dist.	7720 Feb 21 04:34	14° \mathbb{M} 22'21	0.48822 AU
	7714 Dec 01 13:00	0° \mathbb{J}		greatest brilliancy	7720 Feb 27 23:11	11° \mathbb{M} 54'37	-2.2m
morning rise	7714 Dec 08 09:52	4° \mathbb{J} 22'45		opposition	7720 Feb 29 11:56	11° \mathbb{M} 21'04	5°08'00
	7715 Jan 18 00:53	0° \mathbb{Z}		direct	7720 Apr 03 05:41	4° \mathbb{M} 11'50	
desc. node	7715 Mar 07 02:47	29° \mathbb{Z} 45'22			7720 Jun 20 23:33	0° \mathbb{L}	
	7715 Mar 07 12:21	0° \approx			7720 Aug 14 17:58	0° \mathbb{M}	
	7715 Apr 26 12:24	0° \mathbb{H}			7720 Oct 04 12:14	0° \mathbb{J}	
	7715 Jun 19 20:07	0° \mathbb{Y}		desc. node	7720 Oct 26 22:39	13° \mathbb{J} 40'40	
retrograde	7715 Sep 04 07:25	24° \mathbb{Y} 29'47			7720 Nov 22 04:35	0° \mathbb{Z}	
opposition	7715 Oct 06 11:56	18° \mathbb{Y} 34'18	-5°59'50	evening set	7720 Dec 24 15:07	20° \mathbb{Z} 41'56	
greatest brilliancy	7715 Oct 08 06:38	18° \mathbb{Y} 00'49	-2.5m		7721 Jan 07 21:13	0° \approx	
min. Earth dist.	7715 Oct 14 11:59	16° \mathbb{Y} 04'59	0.42757 AU	max. Earth dist.	7721 Jan 15 02:42	4° \approx 46'09	2.59873 AU
direct	7715 Nov 10 07:00	11° \mathbb{Y} 27'57					
	7716 Jan 06 11:32	0° \mathbb{B}		conjunction	7721 Feb 08 17:31	21° \approx 16'58	-0°50'20
asc. node	7716 Feb 04 12:57	17° \mathbb{B} 42'56		minimum elong	7721 Feb 08 16:16	21° \approx 14'51	0°50'15
	7716 Feb 22 17:58	0° \mathbb{I}			7721 Feb 21 11:10	0° \mathbb{H}	
	7716 Apr 05 00:06	0° \mathbb{G}		morning rise	7721 Mar 29 02:55	25° \mathbb{H} 03'43	
	7716 May 16 18:19	0° \mathbb{Q}			7721 Apr 04 23:42	0° \mathbb{Y}	
	7716 Jun 28 11:57	0° \mathbb{M}			7721 May 15 17:24	0° \mathbb{B}	
	7716 Aug 11 18:06	0° \mathbb{L}			7721 Jun 24 03:56	0° \mathbb{I}	
	7716 Sep 26 12:30	0° \mathbb{M}			7721 Aug 01 23:39	0° \mathbb{G}	
evening set	7716 Oct 13 07:59	10° \mathbb{M} 49'40			7721 Sep 10 02:53	0° \mathbb{Q}	
	7716 Nov 12 08:22	0° \mathbb{J}		asc. node	7721 Sep 26 09:30	12° \mathbb{Q} 11'51	
					7721 Oct 20 20:28	0° \mathbb{M}	
conjunction	7716 Nov 28 12:36	10° \mathbb{J} 17'00	0°27'44		7721 Dec 04 11:47	0° \mathbb{L}	
minimum elong	7716 Nov 28 13:24	10° \mathbb{J} 18'16	0°27'51		7722 Feb 01 05:49	0° \mathbb{M}	
max. Earth dist.	7716 Nov 29 21:07	11° \mathbb{J} 08'36	2.67911 AU	retrograde	7722 Mar 05 12:12	6° \mathbb{M} 10'48	
	7716 Dec 29 13:51	0° \mathbb{Z}			7722 Apr 04 18:28	30° \mathbb{R} \mathbb{L}	
morning rise	7717 Jan 11 11:53	8° \mathbb{Z} 12'45		min. Earth dist.	7722 Apr 09 04:38	28° \mathbb{L} 18'20	0.60990 AU
desc. node	7717 Jan 22 00:35	14° \mathbb{Z} 55'11		opposition	7722 Apr 14 09:07	26° \mathbb{L} 15'23	4°28'28
	7717 Feb 14 14:58	0° \approx		greatest brilliancy	7722 Apr 13 14:08	26° \mathbb{L} 34'09	-1.6m
	7717 Apr 02 03:59	0° \mathbb{H}		direct	7722 May 22 07:07	17° \mathbb{L} 29'47	
	7717 May 18 04:53	0° \mathbb{Y}			7722 Jul 13 04:58	0° \mathbb{M}	
	7717 Jul 03 01:34	0° \mathbb{B}			7722 Sep 12 03:04	0° \mathbb{J}	
	7717 Aug 18 22:15	0° \mathbb{I}		desc. node	7722 Sep 13 22:34	1° \mathbb{J} 00'08	
	7717 Oct 12 06:10	0° \mathbb{G}			7722 Nov 02 16:38	0° \mathbb{Z}	

	7722 Dec 20 06:34	0°♊		minimum elong	7727 Aug 13 19:38	27°♏00'44	0°52'22
	7723 Feb 02 19:47	0°♋			7727 Aug 17 21:00	0°♎	
evening set	7723 Feb 03 05:35	0°♋17'02		max. Earth dist.	7727 Sep 26 23:07	28°♎44'58	2.49125 AU
max. Earth dist.	7723 Feb 17 04:15	10°♋03'59	2.48387 AU		7727 Sep 28 18:04	0°♎	
	7723 Mar 16 19:55	0°♌		morning rise	7727 Oct 12 15:00	9°♎35'58	
					7727 Nov 11 21:38	0°♎	
conjunction	7723 Mar 27 09:51	7°♌48'31	-1°06'21		7727 Dec 28 12:19	0°♏	
minimum elong	7723 Mar 27 10:15	7°♌49'16	1°06'22		7728 Feb 16 06:09	0°♏	
	7723 Apr 25 20:09	0°♐			7728 Apr 12 17:44	0°♊	
morning rise	7723 May 27 00:05	24°♐06'29		desc. node	7728 May 05 19:46	9°♊48'55	
	7723 Jun 03 12:53	0°♑		retrograde	7728 Jun 19 17:27	19°♊29'46	
	7723 Jul 11 16:56	0°♑		opposition	7728 Jul 27 17:07	11°♊04'00	-2°57'18
greatest brilliancy	7723 Aug 01 16:18	16°♑24'49	1.2m	greatest brilliancy	7728 Jul 28 07:32	10°♊50'19	-1.6m
asc. node	7723 Aug 14 08:38	26°♑15'10		min. Earth dist.	7728 Aug 02 20:58	8°♊43'51	0.60528 AU
	7723 Aug 19 05:18	0°♒		direct	7728 Sep 06 17:40	1°♊12'28	
	7723 Sep 28 00:20	0°♓			7728 Nov 25 23:53	0°♋	
	7723 Nov 09 03:30	0°♓			7729 Jan 11 08:41	0°♌	
	7723 Dec 25 08:03	0°♌			7729 Feb 21 09:02	0°♍	
	7724 Feb 19 22:27	0°♍			7729 Apr 01 06:32	0°♎	
retrograde	7724 Apr 08 17:31	11°♍56'56		asc. node	7729 Apr 05 05:40	3°♎05'46	
min. Earth dist.	7724 May 17 22:08	2°♍36'50	0.67372 AU		7729 May 09 16:13	0°♏	
opposition	7724 May 19 06:41	2°♍04'26	2°25'09		7729 Jun 17 17:24	0°♏	
greatest brilliancy	7724 May 19 04:16	2°♍06'51	-1.3m		7729 Jul 28 05:39	0°♐	
	7724 May 24 13:05	30°♌		evening set	7729 Aug 11 16:58	10°♐23'42	
direct	7724 Jun 28 18:08	22°♌26'56			7729 Sep 08 16:05	0°♑	
desc. node	7724 Jul 31 22:14	28°♌04'33					
	7724 Aug 06 20:17	0°♒		conjunction	7729 Oct 05 15:12	18°♑21'02	1°05'33
	7724 Oct 10 00:26	0°♓		minimum elong	7729 Oct 05 15:51	18°♑22'07	1°05'35
	7724 Nov 29 08:19	0°♊			7729 Oct 23 03:08	0°♌	
	7725 Jan 13 14:30	0°♋		max. Earth dist.	7729 Oct 28 16:34	3°♌39'49	2.60611 AU
	7725 Feb 24 13:27	0°♌		morning rise	7729 Nov 23 21:19	20°♌42'16	
evening set	7725 Mar 27 00:34	22°♌54'47			7729 Dec 08 09:31	0°♍	
	7725 Apr 05 05:49	0°♍			7730 Jan 25 04:59	0°♎	
	7725 May 13 13:56	0°♎			7730 Mar 15 17:40	0°♊	
				desc. node	7730 Mar 23 17:48	4°♊42'46	
conjunction	7725 May 31 19:04	14°♎25'00	-0°21'36		7730 May 07 17:09	0°♋	
minimum elong	7725 May 31 21:17	14°♎29'23	0°21'41		7730 Jul 17 22:33	0°♌	
max. Earth dist.	7725 Jun 01 20:32	15°♎15'25	2.36633 AU	retrograde	7730 Aug 09 10:41	2°♌48'02	
	7725 Jun 20 11:48	0°♏			7730 Aug 30 13:47	30°♌	
asc. node	7725 Jul 01 06:36	8°♏29'43		opposition	7730 Sep 12 14:17	25°♋59'55	-5°38'30
	7725 Jul 28 20:58	0°♒		greatest brilliancy	7730 Sep 14 07:35	25°♋24'34	-2.2m
morning rise	7725 Aug 12 14:53	11°♒17'39		min. Earth dist.	7730 Sep 21 05:39	23°♋03'12	0.48160 AU
	7725 Sep 06 13:20	0°♓		direct	7730 Oct 20 03:00	17°♋38'21	
	7725 Oct 18 06:07	0°♓			7730 Dec 04 23:21	0°♌	
	7725 Dec 01 16:15	0°♌			7731 Jan 24 08:21	0°♍	
	7726 Jan 19 00:10	0°♍		asc. node	7731 Feb 21 05:28	19°♍40'58	
	7726 Mar 17 07:01	0°♎			7731 Mar 07 07:07	0°♎	
retrograde	7726 May 13 03:06	14°♎45'36			7731 Apr 16 11:53	0°♏	
desc. node	7726 Jun 18 21:04	6°♎38'34			7731 May 26 23:27	0°♒	
opposition	7726 Jun 22 01:13	5°♎24'14	-0°06'37		7731 Jul 07 18:20	0°♓	
greatest brilliancy	7726 Jun 22 01:28	5°♎23'59	-1.3m		7731 Aug 20 07:05	0°♓	
min. Earth dist.	7726 Jun 24 11:52	4°♎26'39	0.67215 AU	evening set	7731 Sep 28 14:56	26°♓07'32	
	7726 Jul 06 13:33	30°♌			7731 Oct 04 13:15	0°♌	
direct	7726 Aug 02 15:50	25°♍22'43					
	7726 Aug 31 23:50	0°♏		conjunction	7731 Nov 15 07:26	26°♌56'08	0°41'35
	7726 Nov 05 15:15	0°♊		minimum elong	7731 Nov 15 08:32	26°♌57'53	0°41'41
	7726 Dec 23 15:52	0°♋			7731 Nov 20 02:36	0°♍	
	7727 Feb 04 08:41	0°♌		max. Earth dist.	7731 Nov 22 04:38	1°♍19'46	2.66937 AU
	7727 Mar 16 04:03	0°♍		morning rise	7731 Dec 30 01:00	25°♍21'51	
	7727 Apr 23 11:34	0°♎			7732 Jan 06 08:46	0°♏	
asc. node	7727 May 19 05:02	20°♎21'45		desc. node	7732 Feb 08 14:45	21°♏01'20	
greatest brilliancy	7727 May 27 05:33	26°♎41'54	1.2m		7732 Feb 22 19:44	0°♊	
	7727 May 31 10:02	0°♏			7732 Apr 10 07:42	0°♋	
evening set	7727 Jun 07 03:31	5°♏17'33			7732 May 28 05:03	0°♌	
	7727 Jul 08 22:48	0°♒			7732 Jul 16 19:54	0°♍	
					7732 Sep 13 21:00	0°♎	
conjunction	7727 Aug 13 22:18	27°♏05'39	0°52'28	retrograde	7732 Oct 22 11:05	8°♎20'16	

opposition	7732 Nov 21 06:45	3° Π 25'08 -3°31'25			7737 Dec 27 07:33	0° \approx	
greatest brilliancy	7732 Nov 21 17:41	3° Π 17'50 -3.0m	evening set		7738 Jan 17 13:09	14° \approx 05'56	
min. Earth dist.	7732 Nov 23 10:06	2° Π 50'52 0.36994 AU	max. Earth dist.		7738 Feb 02 13:33	24° \approx 59'15	2.53353 AU
	7732 Dec 05 06:05	30° \mathbb{R} 8			7738 Feb 09 19:56	0° \mathbb{H}	
direct	7732 Dec 21 10:37	28° \mathbb{B} 19'00					
	7733 Jan 06 06:44	0° Π	conjunction		7738 Mar 07 14:04	18° \mathbb{H} 08'21	-1°04'46
asc. node	7733 Jan 08 04:50	0° Π 25'11	minimum elong		7738 Mar 07 13:18	18° \mathbb{H} 06'59	1°04'45
	7733 Mar 12 20:30	0° \mathbb{E}			7738 Mar 24 00:05	0° Υ	
	7733 Apr 28 23:53	0° Ω	morning rise		7738 May 01 02:36	28° Υ 22'07	
	7733 Jun 13 13:09	0° \mathbb{M}			7738 May 03 06:11	0° \mathbb{B}	
	7733 Jul 29 13:21	0° $\underline{\mathbb{B}}$			7738 Jun 11 04:46	0° Π	
	7733 Sep 14 10:18	0° \mathbb{M}			7738 Jul 19 13:40	0° \mathbb{E}	
	7733 Oct 31 20:44	0° \mathbb{A}			7738 Aug 27 05:49	0° Ω	
evening set	7733 Nov 05 08:08	2° \mathbb{A} 49'30	asc. node		7738 Aug 31 00:52	2° Ω 54'09	
max. Earth dist.	7733 Dec 13 18:35	27° \mathbb{A} 09'32 2.67766 AU			7738 Oct 06 05:41	0° \mathbb{M}	
	7733 Dec 18 05:44	0° \mathbb{B}			7738 Nov 17 21:06	0° $\underline{\mathbb{B}}$	
					7739 Jan 04 22:21	0° \mathbb{M}	
conjunction	7733 Dec 20 05:09	1° \mathbb{B} 15'31 0°03'22	retrograde		7739 Mar 27 09:53	28° \mathbb{M} 51'41	
minimum elong	7733 Dec 20 05:13	1° \mathbb{B} 15'37 0°03'30	min. Earth dist.		7739 May 04 00:07	20° \mathbb{M} 01'50	0.65631 AU
behind sun begin	7733 Dec 19 11:07	0° \mathbb{B} 46'48	opposition		7739 May 06 20:30	18° \mathbb{M} 53'43	3°17'30
behind sun end	7733 Dec 20 23:20	1° \mathbb{B} 44'27	greatest brilliancy		7739 May 06 12:59	19° \mathbb{M} 01'12	-1.4m
desc. node	7733 Dec 26 12:33	5° \mathbb{B} 16'53	direct		7739 Jun 15 11:33	9° \mathbb{M} 32'49	
morning rise	7734 Feb 01 21:55	29° \mathbb{B} 20'27	desc. node		7739 Aug 18 11:36	27° \mathbb{M} 04'33	
	7734 Feb 02 22:17	0° \approx			7739 Aug 24 20:05	0° \mathbb{A}	
	7734 Mar 20 12:29	0° \mathbb{H}			7739 Oct 20 03:41	0° \mathbb{B}	
	7734 May 03 20:59	0° Υ			7739 Dec 08 01:29	0° \approx	
	7734 Jun 16 00:58	0° \mathbb{B}			7740 Jan 21 22:45	0° \mathbb{H}	
	7734 Jul 28 08:16	0° Π			7740 Mar 03 21:18	0° Υ	
	7734 Sep 08 17:04	0° \mathbb{E}	evening set		7740 Mar 04 07:26	0° Υ 18'41	
	7734 Oct 24 01:25	0° Ω	max. Earth dist.		7740 Mar 23 10:19	14° Υ 34'20	2.40178 AU
asc. node	7734 Nov 26 05:14	17° Ω 38'30			7740 Apr 12 16:00	0° \mathbb{B}	
retrograde	7735 Jan 02 19:44	26° Ω 42'12					
min. Earth dist.	7735 Jan 29 14:21	21° Ω 48'39 0.43340 AU	conjunction		7740 May 03 01:39	15° \mathbb{B} 49'56	-0°48'36
opposition	7735 Feb 06 21:00	19° Ω 02'45 4°16'22	minimum elong		7740 May 03 04:36	15° \mathbb{B} 55'42	0°48'40
greatest brilliancy	7735 Feb 05 12:33	19° Ω 30'02 -2.5m			7740 May 21 02:40	0° Π	
direct	7735 Mar 10 14:40	12° Ω 48'03			7740 Jun 28 02:01	0° \mathbb{E}	
	7735 May 09 10:45	0° \mathbb{M}	morning rise		7740 Jul 12 24:00	11° \mathbb{E} 44'06	
	7735 Jul 04 15:03	0° $\underline{\mathbb{B}}$	asc. node		7740 Jul 17 23:20	15° \mathbb{E} 37'41	
	7735 Aug 24 13:31	0° \mathbb{M}			7740 Aug 05 11:12	0° Ω	
	7735 Oct 12 22:42	0° \mathbb{A}			7740 Sep 14 02:55	0° \mathbb{M}	
desc. node	7735 Nov 13 11:51	19° \mathbb{A} 33'38			7740 Oct 25 20:52	0° $\underline{\mathbb{B}}$	
	7735 Nov 30 02:06	0° \mathbb{B}			7740 Dec 09 15:57	0° \mathbb{M}	
evening set	7735 Dec 11 08:27	7° \mathbb{B} 09'12			7741 Jan 28 14:01	0° \mathbb{A}	
max. Earth dist.	7736 Jan 06 02:51	23° \mathbb{B} 45'08 2.63118 AU			7741 Apr 09 19:29	0° \mathbb{B}	
	7736 Jan 15 16:16	0° \approx	retrograde		7741 Apr 29 13:22	2° \mathbb{B} 13'30	
					7741 May 18 04:02	30° \mathbb{R} 8	
conjunction	7736 Jan 25 11:12	6° \approx 27'19 -0°36'57	opposition		7741 Jun 08 20:52	22° \mathbb{A} 37'31	0°54'36
minimum elong	7736 Jan 25 10:10	6° \approx 25'36 0°36'50	greatest brilliancy		7741 Jun 08 21:54	22° \mathbb{A} 36'30	-1.3m
	7736 Feb 29 10:26	0° \mathbb{H}	min. Earth dist.		7741 Jun 09 20:07	22° \mathbb{A} 14'33	0.68055 AU
morning rise	7736 Mar 11 13:09	7° \mathbb{H} 39'04	desc. node		7741 Jul 05 11:37	14° \mathbb{A} 04'24	
	7736 Apr 12 07:45	0° Υ	direct		7741 Jul 20 04:56	12° \mathbb{A} 42'21	
	7736 May 23 12:37	0° \mathbb{B}			7741 Sep 20 21:36	0° \mathbb{B}	
	7736 Jul 02 10:52	0° Π			7741 Nov 15 08:13	0° \approx	
	7736 Aug 10 18:05	0° \mathbb{E}			7741 Dec 31 20:54	0° \mathbb{H}	
	7736 Sep 19 10:30	0° Ω			7742 Feb 12 04:03	0° Υ	
asc. node	7736 Oct 13 03:50	17° Ω 20'38			7742 Mar 23 21:03	0° \mathbb{B}	
	7736 Oct 31 04:24	0° \mathbb{M}			7742 May 01 03:58	0° Π	
	7736 Dec 18 04:32	0° $\underline{\mathbb{B}}$	evening set		7742 May 08 09:11	5° Π 42'47	
retrograde	7737 Feb 18 09:23	20° $\underline{\mathbb{B}}$ 15'02	asc. node		7742 Jun 04 22:26	27° Π 32'04	
min. Earth dist.	7737 Mar 22 21:26	13° $\underline{\mathbb{B}}$ 07'47 0.56774 AU			7742 Jun 08 01:22	0° \mathbb{E}	
greatest brilliancy	7737 Mar 28 09:05	11° $\underline{\mathbb{B}}$ 00'07 -1.8m			7742 Jul 16 11:37	0° Ω	
opposition	7737 Mar 29 12:30	10° $\underline{\mathbb{B}}$ 33'27 5°00'53					
direct	7737 May 05 00:21	2° $\underline{\mathbb{B}}$ 18'49	conjunction		7742 Jul 17 22:58	1° Ω 07'58	0°29'30
	7737 Jul 28 04:41	0° \mathbb{M}	minimum elong		7742 Jul 17 20:17	1° Ω 02'48	0°29'22
	7737 Sep 21 01:46	0° \mathbb{A}			7742 Aug 25 06:10	0° \mathbb{M}	
desc. node	7737 Sep 30 11:31	5° \mathbb{A} 28'30	max. Earth dist.		7742 Sep 07 19:30	9° \mathbb{M} 55'04	2.43586 AU
	7737 Nov 10 04:17	0° \mathbb{B}	morning rise		7742 Sep 21 17:52	19° \mathbb{M} 56'15	

	7742 Oct 05 23:49	0°♄			7747 Nov 04 08:14	30°♎	
	7742 Nov 19 03:03	0°♍	direct		7747 Nov 23 23:15	27°♎25'12	
	7743 Jan 05 03:11	0°♊			7747 Dec 13 13:18	0°♎	
	7743 Feb 25 11:51	0°♋	asc. node		7748 Jan 25 22:56	19°♎08'34	
	7743 May 02 20:01	0°♌			7748 Feb 12 21:06	0°♌	
desc. node	7743 May 23 10:27	4°♌43'01			7748 Mar 28 13:01	0°♌	
retrograde	7743 Jun 04 19:35	5°♌36'11			7748 May 10 10:39	0°♌	
	7743 Jul 05 00:10	30°♋			7748 Jun 22 21:02	0°♎	
opposition	7743 Jul 13 17:49	26°♋45'03 -1°49'20			7748 Aug 06 14:31	0°♄	
greatest brilliancy	7743 Jul 14 00:29	26°♋38'38 -1.5m			7748 Sep 21 16:21	0°♍	
min. Earth dist.	7743 Jul 18 11:38	24°♋55'13 0.63908 AU	evening set		7748 Oct 21 21:40	19°♍19'55	
direct	7743 Aug 24 05:55	16°♋43'48			7748 Nov 07 16:20	0°♊	
	7743 Oct 14 22:44	0°♌	max. Earth dist.		7748 Dec 04 23:27	17°♊19'09 2.68098 AU	
	7743 Dec 08 10:03	0°♋					
	7744 Jan 21 15:22	0°♎	conjunction		7748 Dec 06 11:41	18°♊16'38 0°18'57	
	7744 Mar 01 23:15	0°♎	minimum elong		7748 Dec 06 12:15	18°♊17'32 0°19'04	
	7744 Apr 09 12:42	0°♌			7748 Dec 24 22:39	0°♋	
asc. node	7744 Apr 21 21:00	9°♌43'04	desc. node		7749 Jan 12 02:39	11°♋34'37	
	7744 May 17 16:12	0°♌	morning rise		7749 Jan 19 05:24	16°♋07'24	
	7744 Jun 25 10:53	0°♌			7749 Feb 09 20:11	0°♌	
evening set	7744 Jul 19 08:37	17°♌59'24			7749 Mar 28 00:01	0°♋	
	7744 Aug 04 16:06	0°♎			7749 May 12 07:59	0°♎	
	7744 Sep 15 19:48	0°♄			7749 Jun 25 23:26	0°♎	
					7749 Aug 09 12:51	0°♌	
conjunction	7744 Sep 16 21:58	0°♄45'24 1°06'47			7749 Sep 25 06:26	0°♌	
minimum elong	7744 Sep 16 21:36	0°♄44'47 1°06'48	retrograde		7749 Dec 09 08:20	28°♌33'30	
max. Earth dist.	7744 Oct 17 10:58	21°♄34'57 2.56686 AU	asc. node		7749 Dec 12 21:55	28°♌27'58	
	7744 Oct 30 02:07	0°♍	min. Earth dist.		7750 Jan 04 10:31	24°♌11'18 0.38800 AU	
morning rise	7744 Nov 08 08:09	6°♍05'55	opposition		7750 Jan 10 14:39	22°♌22'30 2°03'22	
	7744 Dec 15 09:04	0°♊	greatest brilliancy		7750 Jan 10 01:32	22°♌32'13 -2.9m	
	7745 Feb 01 16:22	0°♋	direct		7750 Feb 09 14:07	17°♌03'27	
	7745 Mar 24 19:45	0°♌			7750 Mar 30 21:37	0°♌	
desc. node	7745 Apr 09 08:12	8°♌33'08			7750 May 26 02:20	0°♎	
	7745 May 22 22:34	0°♋			7750 Jul 14 22:25	0°♄	
retrograde	7745 Jul 18 09:47	14°♋24'21			7750 Sep 01 17:09	0°♍	
opposition	7745 Aug 23 08:24	6°♋51'10 -4°43'02			7750 Oct 20 03:12	0°♊	
greatest brilliancy	7745 Aug 24 15:41	6°♋22'52 -1.9m	evening set		7750 Nov 27 08:09	23°♊57'01	
min. Earth dist.	7745 Aug 31 09:54	3°♋56'29 0.53527 AU	desc. node		7750 Nov 30 01:28	25°♊40'15	
	7745 Sep 13 04:16	30°♎			7750 Dec 06 21:23	0°♋	
direct	7745 Oct 01 18:18	27°♎38'54	max. Earth dist.		7750 Dec 27 21:13	13°♋24'38 2.65579 AU	
	7745 Oct 20 20:19	0°♋					
	7745 Dec 23 16:02	0°♎	conjunction		7751 Jan 11 00:22	22°♋32'20 -0°21'52	
	7746 Feb 05 12:51	0°♎	minimum elong		7751 Jan 10 23:43	22°♋31'16 0°21'45	
asc. node	7746 Mar 09 22:00	24°♎08'19			7751 Jan 22 11:09	0°♌	
	7746 Mar 17 14:48	0°♌	morning rise		7751 Feb 24 16:22	22°♌01'31	
	7746 Apr 25 19:01	0°♌			7751 Mar 08 11:39	0°♋	
	7746 Jun 04 12:06	0°♌			7751 Apr 20 20:11	0°♎	
	7746 Jul 15 15:21	0°♎			7751 Jun 01 15:18	0°♎	
	7746 Aug 27 15:13	0°♄			7751 Jul 12 05:06	0°♌	
evening set	7746 Sep 11 14:09	10°♄07'59			7751 Aug 21 05:18	0°♌	
	7746 Oct 11 11:54	0°♍			7751 Sep 30 21:01	0°♌	
			asc. node		7751 Oct 30 20:15	20°♌53'53	
conjunction	7746 Oct 31 10:07	12°♍59'34 0°53'25			7751 Nov 13 20:00	0°♎	
minimum elong	7746 Oct 31 11:19	13°♍01'30 0°53'29			7752 Jan 15 23:06	0°♄	
max. Earth dist.	7746 Nov 13 05:41	21°♍15'48 2.65116 AU	retrograde		7752 Feb 02 17:39	2°♄10'09	
	7746 Nov 26 20:45	0°♊			7752 Feb 19 22:53	30°♎	
morning rise	7746 Dec 16 10:02	12°♊26'32	min. Earth dist.		7752 Mar 03 21:19	25°♎54'22 0.51811 AU	
	7747 Jan 13 05:38	0°♋	greatest brilliancy		7752 Mar 10 07:24	23°♎30'11 -2.0m	
desc. node	7747 Feb 25 05:28	26°♋52'26	opposition		7752 Mar 11 18:07	22°♎57'33 5°14'43	
	7747 Mar 02 06:21	0°♌	direct		7752 Apr 15 13:47	15°♎22'10	
	7747 Apr 20 03:34	0°♋			7752 Jun 10 07:40	0°♄	
	7747 Jun 10 05:37	0°♎			7752 Aug 08 08:24	0°♍	
	7747 Aug 09 22:45	0°♎			7752 Sep 29 06:10	0°♊	
retrograde	7747 Sep 20 21:12	9°♎09'29	desc. node		7752 Oct 17 01:40	10°♊42'38	
opposition	7747 Oct 21 23:57	3°♎42'59 -5°39'12			7752 Nov 17 09:19	0°♋	
greatest brilliancy	7747 Oct 23 11:51	3°♎16'41 -2.7m	evening set		7753 Jan 02 02:13	29°♋15'06	
min. Earth dist.	7747 Oct 28 18:20	1°♎44'58 0.40137 AU			7753 Jan 03 05:36	0°♌	

max. Earth dist.	7753 Jan 21 11:01	12°≈05'10	2.57741 AU		7757 Oct 13 07:56	0°♄	
	7753 Feb 16 19:15	0°♂			7757 Nov 26 13:30	0°♆	
					7758 Jan 13 05:38	0°♂	
conjunction	7753 Feb 18 00:20	0°♂50'14	-0°56'53		7758 Mar 08 10:20	0°♄	
minimum elong	7753 Feb 17 23:07	0°♂48'09	0°56'49	retrograde	7758 May 21 03:28	22°♄31'12	
	7753 Mar 31 05:10	0°♂		desc. node	7758 Jun 09 00:22	20°♄16'20	
morning rise	7753 Apr 09 04:12	6°♂31'14		opposition	7758 Jun 29 18:35	13°♄19'37	-0°43'46
	7753 May 10 18:59	0°♂		greatest brilliancy	7758 Jun 29 20:21	13°♄17'53	-1.4m
	7753 Jun 19 01:12	0°♂		min. Earth dist.	7758 Jul 03 01:11	12°♄02'53	0.66325 AU
	7753 Jul 27 16:42	0°♄		direct	7758 Aug 10 10:05	3°♄16'35	
	7753 Sep 04 14:46	0°♂			7758 Oct 29 09:23	0°≈	
asc. node	7753 Sep 16 19:15	9°♂13'15			7758 Dec 17 23:57	0°♂	
	7753 Oct 14 23:13	0°♂			7759 Jan 30 03:55	0°♂	
	7753 Nov 27 13:30	0°♄			7759 Mar 11 03:23	0°♂	
	7754 Jan 18 19:10	0°♆			7759 Apr 18 12:38	0°♂	
retrograde	7754 Mar 13 16:21	15°♆01'38		asc. node	7759 May 09 14:59	16°♂40'36	
min. Earth dist.	7754 Apr 18 11:13	6°♆46'55	0.62902 AU		7759 May 26 12:19	0°♄	
opposition	7754 Apr 22 19:34	5°♆03'18	4°04'43	evening set	7759 Jun 23 11:25	21°♄49'45	
greatest brilliancy	7754 Apr 22 05:07	5°♆17'40	-1.5m		7759 Jul 04 02:12	0°♂	
	7754 May 06 15:23	30°♂♄			7759 Aug 13 01:34	0°♂	
direct	7754 May 31 09:24	26°♄03'34					
	7754 Jun 27 12:38	0°♆		conjunction	7759 Aug 27 12:03	10°♂30'11	1°00'29
desc. node	7754 Sep 04 01:39	29°♆13'03		minimum elong	7759 Aug 27 10:11	10°♂26'49	1°00'25
	7754 Sep 05 13:15	0°♂			7759 Sep 23 23:38	0°♄	
	7754 Oct 28 10:31	0°♄		max. Earth dist.	7759 Oct 05 15:15	8°♄04'24	2.51976 AU
	7754 Dec 15 10:44	0°≈		morning rise	7759 Oct 23 06:34	20°♄04'59	
	7755 Jan 29 02:51	0°♂			7759 Nov 07 02:36	0°♆	
evening set	7755 Feb 13 11:58	10°♂47'15			7759 Dec 23 12:39	0°♂	
max. Earth dist.	7755 Feb 27 06:43	20°♂39'15	2.45427 AU		7760 Feb 10 14:05	0°♄	
	7755 Mar 12 02:40	0°♂			7760 Apr 04 09:27	0°≈	
				desc. node	7760 Apr 25 22:23	10°≈29'14	
conjunction	7755 Apr 09 00:27	20°♂49'57	-1°03'14	retrograde	7760 Jun 29 12:09	28°≈24'08	
minimum elong	7755 Apr 09 01:51	20°♂52'34	1°03'16	opposition	7760 Aug 05 20:32	20°≈15'12	-3°36'50
	7755 Apr 21 01:05	0°♂		greatest brilliancy	7760 Aug 06 16:37	19°≈56'24	-1.7m
	7755 May 29 15:35	0°♂		min. Earth dist.	7760 Aug 12 18:28	17°≈40'01	0.58259 AU
morning rise	7755 Jun 12 14:20	10°♂58'21		direct	7760 Sep 15 10:47	10°≈33'33	
	7755 Jul 06 17:48	0°♄			7760 Nov 16 22:02	0°♂	
asc. node	7755 Aug 04 15:58	22°♄37'55			7761 Jan 04 20:25	0°♂	
	7755 Aug 14 04:32	0°♂			7761 Feb 15 14:05	0°♂	
	7755 Sep 22 21:18	0°♂		asc. node	7761 Mar 26 14:45	29°♂51'14	
	7755 Nov 03 19:12	0°♄			7761 Mar 26 19:17	0°♂	
	7755 Dec 19 06:29	0°♆			7761 May 04 10:05	0°♄	
	7756 Feb 10 05:22	0°♂			7761 Jun 12 15:34	0°♂	
retrograde	7756 Apr 16 06:55	19°♂41'04			7761 Jul 23 07:38	0°♂	
opposition	7756 May 26 19:12	9°♂53'35	1°52'44	evening set	7761 Aug 23 13:09	22°♂08'36	
min. Earth dist.	7756 May 26 06:49	10°♂05'53	0.67901 AU		7761 Sep 03 21:27	0°♄	
greatest brilliancy	7756 May 26 18:43	9°♂54'04	-1.3m				
direct	7756 Jul 06 15:12	0°♂08'39		conjunction	7761 Oct 15 09:31	27°♄59'30	1°02'16
desc. node	7756 Jul 22 01:23	1°♂29'39		minimum elong	7761 Oct 15 10:30	28°♄01'08	1°02'19
	7756 Oct 03 07:00	0°♄			7761 Oct 18 10:28	0°♆	
	7756 Nov 24 00:03	0°≈		max. Earth dist.	7761 Nov 03 14:36	10°♆36'09	2.62429 AU
	7757 Jan 08 16:05	0°♂		morning rise	7761 Dec 02 07:08	29°♆06'43	
	7757 Feb 19 18:02	0°♂			7761 Dec 03 16:29	0°♂	
	7757 Mar 31 10:40	0°♂			7762 Jan 20 06:35	0°♄	
evening set	7757 Apr 10 07:50	7°♂39'59			7762 Mar 10 03:10	0°≈	
	7757 May 08 18:03	0°♂		desc. node	7762 Mar 13 19:24	2°≈13'02	
	7757 Jun 15 15:15	0°♄			7762 Apr 30 04:15	0°♂	
					7762 Jun 27 08:12	0°♂	
conjunction	7757 Jun 18 00:13	1°♄52'25	-0°02'38	retrograde	7762 Aug 23 10:43	15°♂02'11	
minimum elong	7757 Jun 18 00:31	1°♄53'01	0°02'45	opposition	7762 Sep 25 12:41	8°♂42'22	-5°56'44
behind sun begin	7757 Jun 16 18:18	0°♄53'25		greatest brilliancy	7762 Sep 27 08:26	8°♂06'26	-2.4m
behind sun end	7757 Jun 19 06:43	2°♄52'36		min. Earth dist.	7762 Oct 04 00:38	5°♂56'18	0.45131 AU
asc. node	7757 Jun 21 14:31	4°♄42'35		direct	7762 Oct 31 14:54	0°♂59'23	
	7757 Jul 24 00:02	0°♂			7763 Jan 14 19:12	0°♂	
max. Earth dist.	7757 Aug 04 06:12	8°♂38'23	2.38255 AU	asc. node	7763 Feb 11 14:10	18°♂25'37	
morning rise	7757 Aug 28 08:08	26°♂47'18			7763 Feb 27 23:41	0°♂	
	7757 Sep 01 16:05	0°♂			7763 Apr 10 03:12	0°♄	

	7763 May 21 05:10	0°♈			7768 Feb 24 18:29	0°♏	
	7763 Jul 02 10:25	0°♍	morning rise		7768 Mar 21 06:19	17°♏44'26	
	7763 Aug 15 07:13	0°♊			7768 Apr 07 11:45	0°♑	
	7763 Sep 29 18:49	0°♎			7768 May 18 11:01	0°♐	
evening set	7763 Oct 07 17:21	5°♎08'43			7768 Jun 27 02:46	0°♑	
	7763 Nov 15 11:01	0°♌			7768 Aug 05 03:10	0°♏	
					7768 Sep 13 10:50	0°♈	
conjunction	7763 Nov 23 12:17	5°♌07'47 0°33'41	asc. node		7768 Oct 03 11:06	14°♈52'30	
minimum elong	7763 Nov 23 13:14	5°♌09'18 0°33'46			7768 Oct 24 11:27	0°♍	
max. Earth dist.	7763 Nov 27 07:31	7°♌32'52 2.67578 AU			7768 Dec 09 01:15	0°♊	
	7764 Jan 01 16:26	0°♐			7769 Feb 24 23:01	0°♎	
morning rise	7764 Jan 06 18:22	3°♐13'23	retrograde		7769 Feb 27 04:58	0°♎02'05	
desc. node	7764 Jan 29 17:04	17°♐47'28			7769 Mar 01 10:32	30°♐♊	
	7764 Feb 17 21:33	0°♏	min. Earth dist.		7769 Apr 01 22:49	22°♊28'24 0.59229 AU	
	7764 Apr 04 20:09	0°♏	opposition		7769 Apr 07 18:27	20°♊11'17 4°44'02	
	7764 May 21 14:28	0°♑	greatest brilliancy		7769 Apr 06 19:49	20°♊33'33 -1.7m	
	7764 Jul 07 18:41	0°♐	direct		7769 May 15 01:44	11°♊38'24	
	7764 Aug 26 15:52	0°♑			7769 Jul 19 07:50	0°♎	
retrograde	7764 Nov 09 16:07	26°♑43'07			7769 Sep 15 05:03	0°♌	
opposition	7764 Dec 09 19:39	21°♑39'22 -1°31'27	desc. node		7769 Sep 20 14:51	3°♌03'50	
min. Earth dist.	7764 Dec 08 14:13	21°♑58'59 0.36669 AU			7769 Nov 05 03:38	0°♐	
greatest brilliancy	7764 Dec 09 20:04	21°♑39'06 -3.1m			7769 Dec 22 14:00	0°♏	
asc. node	7764 Dec 29 14:54	17°♑23'26	evening set		7770 Jan 26 19:58	23°♏33'51	
direct	7765 Jan 08 03:20	16°♑46'49			7770 Feb 05 04:14	0°♏	
	7765 Feb 25 21:03	0°♏	max. Earth dist.		7770 Feb 10 10:44	3°♏39'55 2.50683 AU	
	7765 Apr 20 10:36	0°♈					
	7765 Jun 06 23:53	0°♍	conjunction		7770 Mar 18 10:53	29°♏22'36 -1°06'39	
	7765 Jul 23 23:38	0°♊	minimum elong		7770 Mar 18 10:41	29°♏22'14 1°06'40	
	7765 Sep 09 09:32	0°♎			7770 Mar 19 07:22	0°♑	
	7765 Oct 27 03:06	0°♌			7770 Apr 28 11:10	0°♐	
evening set	7765 Nov 13 09:27	10°♌51'58	morning rise		7770 May 15 03:06	12°♐47'05	
	7765 Dec 13 14:54	0°♐			7770 Jun 06 06:50	0°♑	
desc. node	7765 Dec 16 15:27	1°♐55'28			7770 Jul 14 12:55	0°♏	
max. Earth dist.	7765 Dec 18 21:18	3°♐21'16 2.67209 AU	asc. node		7770 Aug 21 10:16	29°♏29'23	
					7770 Aug 22 02:11	0°♈	
conjunction	7765 Dec 28 01:51	9°♐13'37 -0°06'03			7770 Sep 30 21:40	0°♍	
minimum elong	7765 Dec 28 01:40	9°♐13'18 0°05'56			7770 Nov 12 03:24	0°♊	
behind sun begin	7765 Dec 27 08:18	8°♐45'32			7770 Dec 28 20:05	0°♎	
behind sun end	7765 Dec 28 19:02	9°♐41'06			7771 Feb 27 11:26	0°♌	
	7766 Jan 29 06:07	0°♏	retrograde		7771 Apr 04 02:24	6°♌55'15	
morning rise	7766 Feb 09 23:28	7°♏39'50			7771 May 06 23:27	30°♐♎	
	7766 Mar 15 15:03	0°♏	min. Earth dist.		7771 May 12 14:41	27°♎47'46 0.66724 AU	
	7766 Apr 28 13:59	0°♑	opposition		7771 May 14 14:52	26°♎59'44 2°47'26	
	7766 Jun 10 04:30	0°♐	greatest brilliancy		7771 May 14 10:29	27°♎04'07 -1.3m	
	7766 Jul 21 17:33	0°♑	direct		7771 Jun 23 17:29	17°♎29'00	
	7766 Aug 31 23:13	0°♏	desc. node		7771 Aug 08 14:40	27°♎28'11	
	7766 Oct 13 17:04	0°♈			7771 Aug 15 01:31	0°♌	
asc. node	7766 Nov 16 13:25	21°♈04'34			7771 Oct 14 05:10	0°♐	
	7766 Dec 03 21:40	0°♍			7771 Dec 02 23:06	0°♏	
retrograde	7767 Jan 14 19:39	10°♍56'06			7772 Jan 17 02:55	0°♏	
min. Earth dist.	7767 Feb 11 15:45	5°♍35'05 0.46349 AU			7772 Feb 28 02:59	0°♑	
greatest brilliancy	7767 Feb 18 15:01	3°♍08'14 -2.4m	evening set		7772 Mar 16 17:10	13°♑06'08	
opposition	7767 Feb 20 03:36	2°♍35'56 4°54'02			7772 Apr 07 21:22	0°♐	
	7767 Feb 27 21:45	30°♐♈	max. Earth dist.		7772 Apr 16 15:58	6°♐47'15 2.37709 AU	
direct	7767 Mar 25 00:12	25°♈50'07			7772 May 16 07:00	0°♑	
	7767 Apr 20 21:08	0°♍					
	7767 Jun 26 23:03	0°♊	conjunction		7772 May 18 19:23	1°♑59'09 -0°34'38	
	7767 Aug 18 19:09	0°♎	minimum elong		7772 May 18 22:21	2°♑05'02 0°34'43	
	7767 Oct 07 22:09	0°♌			7772 Jun 23 05:29	0°♏	
desc. node	7767 Nov 03 15:05	16°♌24'18	asc. node		7772 Jul 08 08:20	11°♏54'07	
	7767 Nov 25 09:15	0°♐	morning rise		7772 Jul 30 13:19	29°♏12'11	
evening set	7767 Dec 19 10:38	15°♐18'28			7772 Jul 31 14:05	0°♈	
	7768 Jan 11 01:36	0°♏			7772 Sep 09 04:53	0°♍	
max. Earth dist.	7768 Jan 11 19:36	0°♏29'32 2.61423 AU			7772 Oct 20 20:26	0°♊	
					7772 Dec 04 07:44	0°♎	
conjunction	7768 Feb 03 00:36	15°♏14'15 -0°45'01			7773 Jan 22 02:34	0°♌	
minimum elong	7768 Feb 02 23:25	15°♏12'16 0°44'55			7773 Mar 23 10:42	0°♐	

retrograde	7773 May 07 06:41	9° ♁ 52'41		7778 May 30 03:04	0° ♁	
opposition	7773 Jun 16 09:40	0° ♁ 24'27	0°19'03	7778 Jul 10 13:11	0° ♁	
greatest brilliancy	7773 Jun 16 10:21	0° ♁ 23'48	-1.3m	7778 Aug 22 18:37	0° ♁	
	7773 Jun 17 10:30	30° ♁ 7'		evening set	7778 Sep 21 11:15	19° ♁ 54'27
min. Earth dist.	7773 Jun 18 04:52	29° ♁ 41'54	0.67717 AU		7778 Oct 06 19:07	0° ♁
desc. node	7773 Jun 25 14:06	26° ♁ 51'37				
direct	7773 Jul 27 21:54	20° ♁ 25'06		conjunction	7778 Nov 09 00:23	21° ♁ 32'01 0°46'48
	7773 Sep 10 02:13	0° ♁		minimum elong	7778 Nov 09 01:34	21° ♁ 33'54 0°46'54
	7773 Nov 09 04:12	0° ♁		max. Earth dist.	7778 Nov 18 13:55	27° ♁ 39'51 2.66226 AU
	7773 Dec 26 14:04	0° ♁			7778 Nov 22 05:36	0° ♁
	7774 Feb 07 03:51	0° ♁		morning rise	7778 Dec 24 05:50	20° ♁ 20'54
	7774 Mar 18 23:03	0° ♁			7779 Jan 08 12:18	0° ♁
	7774 Apr 26 06:30	0° ♁		desc. node	7779 Feb 15 07:51	23° ♁ 48'18
evening set	7774 May 25 01:49	22° ♁ 48'35			7779 Feb 25 04:40	0° ♁
asc. node	7774 May 26 06:32	23° ♁ 45'22			7779 Apr 14 05:41	0° ♁
	7774 Jun 03 04:16	0° ♁			7779 Jun 02 06:24	0° ♁
	7774 Jul 11 15:14	0° ♁			7779 Jul 24 20:20	0° ♁
				retrograde	7779 Oct 08 23:53	25° ♁ 28'06
conjunction	7774 Aug 02 14:50	16° ♁ 43'34	0°44'00	opposition	7779 Nov 08 02:23	20° ♁ 24'54 -4°42'17
minimum elong	7774 Aug 02 11:49	16° ♁ 37'54	0°43'53	greatest brilliancy	7779 Nov 09 01:29	20° ♁ 09'01 -2.9m
	7774 Aug 20 10:36	0° ♁		min. Earth dist.	7779 Nov 12 15:48	19° ♁ 09'49 0.38036 AU
max. Earth dist.	7774 Sep 19 10:32	21° ♁ 42'37	2.46686 AU	direct	7779 Dec 09 09:09	14° ♁ 52'25
	7774 Oct 01 04:45	0° ♁		asc. node	7780 Jan 16 06:13	23° ♁ 44'15
morning rise	7774 Oct 03 22:53	1° ♁ 55'29			7780 Jan 29 14:47	0° ♁
	7774 Nov 14 06:23	0° ♁			7780 Mar 19 18:48	0° ♁
	7774 Dec 30 23:01	0° ♁			7780 May 03 13:09	0° ♁
	7775 Feb 19 04:55	0° ♁			7780 Jun 16 23:39	0° ♁
	7775 Apr 19 06:40	0° ♁			7780 Aug 01 08:00	0° ♁
desc. node	7775 May 13 12:43	8° ♁ 51'10			7780 Sep 16 19:04	0° ♁
retrograde	7775 Jun 13 16:58	13° ♁ 54'06		evening set	7780 Oct 30 05:05	27° ♁ 35'38
opposition	7775 Jul 22 03:31	5° ♁ 16'24	-2°28'36		7780 Nov 03 00:17	0° ♁
greatest brilliancy	7775 Jul 22 14:16	5° ♁ 06'07	-1.5m	max. Earth dist.	7780 Dec 10 01:04	23° ♁ 27'45 2.68025 AU
min. Earth dist.	7775 Jul 27 16:35	3° ♁ 09'06	0.62164 AU			
	7775 Aug 05 11:16	30° ♁ 7'		conjunction	7780 Dec 14 08:05	26° ♁ 11'20 0°09'55
direct	7775 Sep 01 10:21	25° ♁ 19'12		minimum elong	7780 Dec 14 08:23	26° ♁ 11'48 0°10'02
	7775 Sep 30 01:59	0° ♁		behind sun begin	7780 Dec 13 17:47	25° ♁ 48'38
	7775 Dec 01 11:58	0° ♁		behind sun end	7780 Dec 14 22:58	26° ♁ 34'59
	7776 Jan 15 20:55	0° ♁			7780 Dec 20 07:57	0° ♁
	7776 Feb 25 14:28	0° ♁		desc. node	7781 Jan 02 05:40	8° ♁ 13'32
	7776 Apr 04 08:18	0° ♁		morning rise	7781 Jan 26 23:46	24° ♁ 06'07
asc. node	7776 Apr 12 06:58	6° ♁ 13'47			7781 Feb 05 02:56	0° ♁
	7776 May 12 14:41	0° ♁			7781 Mar 22 23:33	0° ♁
	7776 Jun 20 12:01	0° ♁			7781 May 06 18:12	0° ♁
	7776 Jul 30 19:42	0° ♁			7781 Jun 19 12:47	0° ♁
evening set	7776 Aug 01 22:55	1° ♁ 33'02			7781 Aug 01 15:53	0° ♁
	7776 Sep 11 01:44	0° ♁			7781 Sep 14 09:07	0° ♁
					7781 Nov 02 14:30	0° ♁
conjunction	7776 Sep 27 19:41	11° ♁ 30'05	1°06'49	asc. node	7781 Dec 03 06:47	12° ♁ 34'04
minimum elong	7776 Sep 27 19:58	11° ♁ 30'35	1°06'51	retrograde	7781 Dec 23 16:46	15° ♁ 28'27
max. Earth dist.	7776 Oct 24 01:13	29° ♁ 06'58	2.58955 AU	min. Earth dist.	7782 Jan 18 22:00	10° ♁ 53'19 0.41100 AU
	7776 Oct 25 09:14	0° ♁		greatest brilliancy	7782 Jan 25 12:05	8° ♁ 48'10 -2.7m
morning rise	7776 Nov 17 08:51	15° ♁ 03'43		opposition	7782 Jan 26 13:58	8° ♁ 27'31 3°31'13
	7776 Dec 10 14:37	0° ♁		direct	7782 Feb 26 11:00	2° ♁ 38'48
	7777 Jan 27 13:37	0° ♁			7782 May 16 17:00	0° ♁
	7777 Mar 18 15:42	0° ♁			7782 Jul 08 10:11	0° ♁
desc. node	7777 Mar 30 10:39	6° ♁ 46'51			7782 Aug 27 07:16	0° ♁
	7777 May 12 12:37	0° ♁			7782 Oct 15 05:50	0° ♁
retrograde	7777 Jul 30 11:01	24° ♁ 59'03		desc. node	7782 Nov 20 04:44	22° ♁ 24'36
opposition	7777 Sep 03 10:26	17° ♁ 49'38	-5°16'50		7782 Dec 02 05:26	0° ♁
greatest brilliancy	7777 Sep 04 23:49	17° ♁ 16'41	-2.1m	evening set	7782 Dec 05 07:55	1° ♁ 58'01
min. Earth dist.	7777 Sep 11 21:17	14° ♁ 51'25	0.50609 AU	max. Earth dist.	7783 Jan 02 05:51	19° ♁ 50'53 2.64327 AU
direct	7777 Oct 11 21:02	9° ♁ 02'22			7783 Jan 17 20:05	0° ♁
	7777 Dec 13 18:10	0° ♁				
	7778 Jan 29 09:22	0° ♁		conjunction	7783 Jan 19 04:14	0° ♁ 52'41 -0°30'48
asc. node	7778 Feb 28 07:16	21° ♁ 43'02		minimum elong	7783 Jan 19 03:21	0° ♁ 51'13 0°30'42
	7778 Mar 11 09:13	0° ♁			7783 Mar 03 18:02	0° ♁
	7778 Apr 20 01:16	0° ♁		morning rise	7783 Mar 05 12:43	1° ♁ 12'48

	7783 Apr 15 21:03	0°♄		direct	7788 Jul 14 10:14	7°♂50'00	
	7783 May 27 08:53	0°♂			7788 Sep 25 15:30	0°♂	
	7783 Jul 06 14:03	0°♂			7788 Nov 18 08:57	0°♂	
	7783 Aug 15 04:02	0°♂			7789 Jan 03 14:11	0°♂	
	7783 Sep 24 04:24	0°♂			7789 Feb 14 20:23	0°♄	
asc. node	7783 Oct 21 06:00	19°♂29'13			7789 Mar 26 14:19	0°♂	
	7783 Nov 05 13:42	0°♄		evening set	7789 Apr 25 17:35	23°♂32'24	
	7783 Dec 26 10:28	0°♂			7789 May 03 21:55	0°♂	
retrograde	7784 Feb 12 11:22	13°♂14'09			7789 Jun 10 19:05	0°♂	
min. Earth dist.	7784 Mar 14 22:12	6°♂28'58	0.54629 AU	asc. node	7789 Jun 12 00:02	0°♂57'08	
greatest brilliancy	7784 Mar 20 20:11	4°♂13'05	-1.9m				
opposition	7784 Mar 22 03:08	3°♂43'19	5°10'12	conjunction	7789 Jul 05 01:42	19°♂03'54	0°16'21
	7784 Apr 01 11:21	30°♄		minimum elong	7789 Jul 04 24:00	19°♂00'34	0°16'12
direct	7784 Apr 26 21:52	25°♄45'01			7789 Jul 19 04:05	0°♂	
	7784 May 24 14:42	0°♂		max. Earth dist.	7789 Aug 27 05:29	29°♂32'30	2.41092 AU
	7784 Aug 01 07:43	0°♄			7789 Aug 27 20:21	0°♄	
	7784 Sep 23 19:14	0°♂		morning rise	7789 Sep 11 14:12	10°♄48'26	
desc. node	7784 Oct 07 04:14	7°♂54'15			7789 Oct 08 11:34	0°♂	
	7784 Nov 12 12:00	0°♂			7789 Nov 21 13:54	0°♄	
	7784 Dec 29 13:14	0°♂			7790 Jan 07 18:00	0°♂	
evening set	7785 Jan 10 18:39	8°♂03'52			7790 Feb 28 23:21	0°♂	
max. Earth dist.	7785 Jan 28 03:27	19°♂43'41	2.55399 AU		7790 May 21 01:16	0°♂	
	7785 Feb 12 03:29	0°♂		retrograde	7790 May 29 09:42	0°♂24'37	
				desc. node	7790 May 30 03:24	0°♂24'25	
conjunction	7785 Feb 27 17:54	10°♂53'06	-1°02'05		7790 Jun 06 13:05	30°♄	
minimum elong	7785 Feb 27 16:53	10°♂51'19	1°02'01	opposition	7790 Jul 07 16:11	21°♂23'54	-1°21'43
	7785 Mar 26 11:10	0°♄		greatest brilliancy	7790 Jul 07 20:24	21°♂19'48	-1.4m
morning rise	7785 Apr 21 02:32	18°♄53'09		min. Earth dist.	7790 Jul 11 18:34	19°♂48'21	0.65106 AU
	7785 May 05 21:31	0°♂		direct	7790 Aug 18 06:31	11°♂20'54	
	7785 Jun 13 23:51	0°♂			7790 Oct 20 22:14	0°♂	
	7785 Jul 22 11:32	0°♂			7790 Dec 11 23:44	0°♂	
	7785 Aug 30 05:38	0°♂			7791 Jan 24 18:26	0°♄	
asc. node	7785 Sep 07 03:09	6°♂01'12			7791 Mar 05 23:24	0°♂	
	7785 Oct 09 07:28	0°♄			7791 Apr 13 11:13	0°♂	
	7785 Nov 21 04:55	0°♂		asc. node	7791 Apr 29 22:38	12°♂59'46	
	7786 Jan 09 09:20	0°♄			7791 May 21 12:41	0°♂	
retrograde	7786 Mar 21 15:23	23°♄32'26			7791 Jun 29 04:33	0°♂	
min. Earth dist.	7786 Apr 27 10:38	14°♄57'26	0.64526 AU	evening set	7791 Jul 09 01:27	7°♂30'34	
opposition	7786 Apr 30 22:49	13°♄33'35	3°38'06		7791 Aug 08 06:02	0°♄	
greatest brilliancy	7786 Apr 30 12:29	13°♄43'53	-1.4m				
direct	7786 Jun 09 02:39	4°♄21'33		conjunction	7791 Sep 08 23:50	22°♄48'54	1°05'11
desc. node	7786 Aug 25 04:06	28°♄00'53		minimum elong	7791 Sep 08 22:52	22°♄47'12	1°05'08
	7786 Aug 29 04:58	0°♂			7791 Sep 19 05:49	0°♂	
	7786 Oct 22 22:45	0°♂		max. Earth dist.	7791 Oct 13 04:46	16°♂27'51	2.54670 AU
	7786 Dec 10 12:21	0°♂		morning rise	7791 Nov 02 04:36	29°♂52'22	
	7787 Jan 24 09:01	0°♂			7791 Nov 02 09:13	0°♄	
evening set	7787 Feb 24 09:13	21°♂58'11			7791 Dec 18 15:56	0°♂	
	7787 Mar 07 09:23	0°♄			7792 Feb 05 04:50	0°♂	
max. Earth dist.	7787 Mar 11 17:30	3°♄11'46	2.42490 AU		7792 Mar 28 05:35	0°♂	
	7787 Apr 16 06:43	0°♂		desc. node	7792 Apr 16 01:00	9°♂56'46	
					7792 May 31 10:10	0°♂	
conjunction	7787 Apr 22 15:11	4°♂53'28	-0°56'29	retrograde	7792 Jul 09 22:00	7°♂44'04	
minimum elong	7787 Apr 22 17:35	4°♂58'05	0°56'32	opposition	7792 Aug 15 12:20	29°♂53'53	-4°15'23
	7787 May 24 19:28	0°♂			7792 Aug 15 05:41	30°♄	
morning rise	7787 Jun 30 00:50	28°♂35'06		greatest brilliancy	7792 Aug 16 14:42	29°♂29'36	-1.8m
	7787 Jul 01 19:54	0°♂		min. Earth dist.	7792 Aug 23 02:09	27°♂06'35	0.55739 AU
asc. node	7787 Jul 26 00:55	18°♂59'52		direct	7792 Sep 24 12:22	20°♂26'05	
	7787 Aug 09 05:08	0°♂			7792 Nov 04 13:00	0°♂	
	7787 Sep 17 20:03	0°♄			7792 Dec 28 16:17	0°♄	
	7787 Oct 29 13:43	0°♂			7793 Feb 09 11:32	0°♂	
	7787 Dec 13 12:31	0°♄		asc. node	7793 Mar 16 23:16	26°♂47'39	
	7788 Feb 02 07:29	0°♂			7793 Mar 21 03:23	0°♂	
retrograde	7788 Apr 23 21:18	27°♂22'38			7793 Apr 29 00:29	0°♂	
opposition	7788 Jun 03 07:20	17°♂41'10	1°19'03		7793 Jun 07 11:09	0°♂	
greatest brilliancy	7788 Jun 03 08:00	17°♂40'31	-1.3m		7793 Jul 18 07:58	0°♄	
min. Earth dist.	7788 Jun 03 14:56	17°♂33'39	0.68109 AU		7793 Aug 30 01:53	0°♂	
desc. node	7788 Jul 12 04:20	7°♂51'52		evening set	7793 Sep 03 15:50	3°♂08'04	

	7793 Oct 13 17:57	0°♌			7798 Oct 05 09:39	0°♏
				asc. node	7798 Nov 06 22:00	21°♏54'22
conjunction	7793 Oct 24 16:55	7°♌11'17 0°57'32			7798 Nov 20 03:14	0°♐
minimum elong	7793 Oct 24 18:05	7°♌13'10 0°57'37		retrograde	7799 Jan 25 22:09	23°♐53'34
max. Earth dist.	7793 Nov 09 06:26	17°♌18'02 2.64031 AU		min. Earth dist.	7799 Feb 23 23:26	18°♐02'27 0.49397 AU
	7793 Nov 29 00:33	0°♑		greatest brilliancy	7799 Mar 02 17:13	15°♐34'50 -2.2m
morning rise	7793 Dec 10 10:51	7°♑17'10		opposition	7799 Mar 04 05:49	15°♐01'14 5°11'59
	7794 Jan 15 10:48	0°♒		direct	7799 Apr 07 05:49	7°♐46'40
desc. node	7794 Mar 03 22:13	29°♒28'00			7799 Jun 17 21:15	0°♑
	7794 Mar 04 19:03	0°♓			7799 Aug 12 16:11	0°♌
	7794 Apr 23 11:21	0°♈			7799 Oct 02 18:04	0°♑
	7794 Jun 15 17:53	0°♐		desc. node	7799 Oct 24 17:55	13°♑21'19
retrograde	7794 Sep 07 18:33	28°♐29'48			7799 Nov 20 14:27	0°♒
opposition	7794 Oct 09 19:07	22°♐39'44 -5°56'43		evening set	7799 Dec 27 17:45	23°♒41'13
greatest brilliancy	7794 Oct 11 12:54	22°♐07'24 -2.6m			7800 Jan 06 09:56	0°♓
min. Earth dist.	7794 Oct 17 16:07	20°♐14'54 0.42246 AU		max. Earth dist.	7800 Jan 17 21:14	7°♓33'59 2.59482 AU
direct	7794 Nov 13 05:21	15°♐42'23				
	7795 Jan 01 10:48	0°♉		conjunction	7800 Feb 11 23:23	24°♓26'32 -0°52'18
asc. node	7795 Feb 02 00:09	18°♉22'41		minimum elong	7800 Feb 11 22:09	24°♓24'25 0°52'13
	7795 Feb 19 13:55	0°♊			7800 Feb 20 02:10	0°♈
	7795 Apr 03 06:30	0°♎		morning rise	7800 Apr 01 16:08	28°♈33'07
	7795 May 15 04:27	0°♏			7800 Apr 03 16:24	0°♐
	7795 Jun 26 23:16	0°♐			7800 May 14 11:14	0°♉
	7795 Aug 10 05:31	0°♑			7800 Jun 22 22:09	0°♊
	7795 Sep 24 23:43	0°♌			7800 Jul 31 17:20	0°♎
evening set	7795 Oct 16 12:21	13°♌51'04			7800 Sep 08 18:38	0°♏
	7795 Nov 10 19:34	0°♑		asc. node	7800 Sep 24 20:59	12°♏06'33
					7800 Oct 19 07:39	0°♐
conjunction	7795 Dec 01 13:36	13°♑11'13 0°25'12			7800 Dec 02 11:09	0°♑
minimum elong	7795 Dec 01 14:21	13°♑12'23 0°25'19			7801 Jan 27 03:05	0°♌
max. Earth dist.	7795 Dec 02 09:39	13°♑43'01 2.67977 AU		retrograde	7801 Mar 08 14:59	9°♌15'23
	7795 Dec 28 01:11	0°♒		min. Earth dist.	7801 Apr 12 12:30	1°♌17'54 0.61369 AU
morning rise	7796 Jan 14 11:16	11°♒04'41			7801 Apr 15 19:17	30°♌♑
desc. node	7796 Jan 19 19:30	14°♒29'00		opposition	7801 Apr 17 12:23	29°♑19'12 4°22'40
	7796 Feb 13 02:08	0°♓		greatest brilliancy	7801 Apr 16 18:27	29°♑37'00 -1.6m
	7796 Mar 30 14:00	0°♈		direct	7801 May 25 12:37	20°♑30'41
	7796 May 15 11:52	0°♐			7801 Jul 08 18:30	0°♌
	7796 Jun 30 02:11	0°♉			7801 Sep 09 22:25	0°♑
	7796 Aug 15 07:45	0°♊		desc. node	7801 Sep 11 17:54	0°♑59'17
	7796 Oct 05 18:43	0°♎			7801 Oct 31 23:10	0°♒
retrograde	7796 Nov 27 01:00	15°♎19'43			7801 Dec 18 18:30	0°♓
asc. node	7796 Dec 19 23:37	11°♎58'06			7802 Feb 01 11:10	0°♈
min. Earth dist.	7796 Dec 23 19:58	10°♎56'22 0.37450 AU		evening set	7802 Feb 06 15:38	3°♈36'15
opposition	7796 Dec 28 02:25	9°♎45'19 0°36'47		max. Earth dist.	7802 Feb 20 10:11	13°♈18'15 2.47808 AU
greatest brilliancy	7796 Dec 27 23:27	9°♎47'23 -3.0m			7802 Mar 15 13:36	0°♐
direct	7797 Jan 26 12:29	4°♎44'38				
	7797 Apr 09 17:39	0°♏		conjunction	7802 Mar 31 06:38	11°♐36'23 -1°05'54
	7797 May 30 19:29	0°♐		minimum elong	7802 Mar 31 07:15	11°♐37'32 1°05'56
	7797 Jul 18 03:56	0°♑			7802 Apr 24 15:17	0°♉
	7797 Sep 04 06:21	0°♌		morning rise	7802 May 31 15:53	28°♉40'14
	7797 Oct 22 08:30	0°♑			7802 Jun 02 08:38	0°♊
evening set	7797 Nov 21 09:34	18°♑51'44			7802 Jul 10 12:31	0°♎
desc. node	7797 Dec 06 17:49	28°♑34'12		greatest brilliancy	7802 Jul 15 08:09	3°♎47'05 1.2m
	7797 Dec 08 23:52	0°♒		asc. node	7802 Aug 12 17:55	25°♎56'57
max. Earth dist.	7797 Dec 24 02:38	9°♒38'17 2.66417 AU			7802 Aug 17 23:49	0°♏
					7802 Sep 26 16:36	0°♐
conjunction	7798 Jan 05 00:17	17°♒17'02 -0°15'21			7802 Nov 07 15:32	0°♑
minimum elong	7798 Jan 04 23:50	17°♒16'18 0°15'14			7802 Dec 23 10:42	0°♌
behind sun begin	7798 Jan 04 18:03	17°♒07'00			7803 Feb 16 08:32	0°♑
behind sun end	7798 Jan 05 05:36	17°♒25'36		retrograde	7803 Apr 12 16:30	14°♑46'12
	7798 Jan 24 14:53	0°♓		min. Earth dist.	7803 May 22 00:47	5°♑22'48 0.67498 AU
morning rise	7798 Feb 18 06:09	16°♓13'20		opposition	7803 May 23 05:00	4°♑54'42 2°15'54
	7798 Mar 10 19:49	0°♈		greatest brilliancy	7803 May 23 03:05	4°♑56'37 -1.3m
	7798 Apr 23 11:17	0°♐			7803 Jun 05 06:40	30°♌♌
	7798 Jun 04 15:09	0°♉		direct	7803 Jul 02 17:22	25°♌15'35
	7798 Jul 15 14:42	0°♊		desc. node	7803 Jul 30 17:55	29°♌23'19
	7798 Aug 25 01:47	0°♎			7803 Aug 01 22:29	0°♑

	7803 Oct 08 19:59	0°☾		minimum elong	7808 Oct 09 02:03	21°♊36'28	1°04'50
	7803 Nov 28 17:10	0°♊			7808 Oct 21 16:46	0°♊	
	7804 Jan 13 05:25	0°♋		max. Earth dist.	7808 Oct 31 05:33	6°♊16'58	2.60971 AU
	7804 Feb 24 07:47	0°♌		morning rise	7808 Nov 27 00:42	23°♊41'10	
evening set	7804 Mar 31 03:41	26°♌58'31			7808 Dec 06 21:10	0°♌	
	7804 Apr 04 02:01	0°♍			7809 Jan 23 13:57	0°☾	
	7804 May 12 10:46	0°♎			7809 Mar 13 21:13	0°♊	
				desc. node	7809 Mar 21 12:16	4°♊31'27	
conjunction	7804 Jun 05 14:37	19°♎07'47	-0°17'10		7809 May 05 05:17	0°♋	
minimum elong	7804 Jun 05 16:27	19°♎11'25	0°17'17		7809 Jul 09 10:14	0°♌	
	7804 Jun 19 08:15	0°☾		retrograde	7809 Aug 13 11:04	6°♌21'52	
max. Earth dist.	7804 Jun 23 07:28	3°☾07'58	2.36684 AU		7809 Sep 15 09:06	30°♋	
asc. node	7804 Jun 29 15:44	8°☾07'56		opposition	7809 Sep 16 10:20	29°♋38'42	-5°43'28
	7804 Jul 27 16:15	0°♏		greatest brilliancy	7809 Sep 18 04:21	29°♋02'53	-2.2m
morning rise	7804 Aug 17 07:18	15°♏46'59		min. Earth dist.	7809 Sep 25 01:20	26°♋43'31	0.47588 AU
	7804 Sep 05 06:41	0°♐		direct	7809 Oct 23 15:40	21°♋23'43	
	7804 Oct 16 20:44	0°♑			7809 Nov 30 02:11	0°♌	
	7804 Nov 30 02:42	0°♒			7810 Jan 22 04:36	0°♍	
	7805 Jan 17 02:10	0°♌		asc. node	7810 Feb 19 15:37	19°♍49'30	
	7805 Mar 13 23:52	0°☾			7810 Mar 05 15:14	0°♎	
retrograde	7805 May 16 03:27	17°☾34'12			7810 Apr 15 00:08	0°☾	
desc. node	7805 Jun 16 17:25	11°☾24'26			7810 May 25 13:05	0°♏	
opposition	7805 Jun 25 00:23	8°☾14'52	-0°17'21		7810 Jul 06 08:04	0°♐	
greatest brilliancy	7805 Jun 25 00:59	8°☾14'18	-1.4m		7810 Aug 18 20:18	0°♑	
min. Earth dist.	7805 Jun 27 15:16	7°☾13'10	0.67077 AU	evening set	7810 Oct 01 21:25	29°♑13'44	
	7805 Jul 19 21:35	30°♌			7810 Oct 03 01:46	0°♒	
direct	7805 Aug 05 14:52	28°♌12'49					
	7805 Aug 23 06:37	0°☾		conjunction	7810 Nov 18 09:16	29°♒51'41	0°39'22
	7805 Nov 03 10:46	0°♊		minimum elong	7810 Nov 18 10:21	29°♒53'24	0°39'28
	7805 Dec 22 02:17	0°♋			7810 Nov 18 14:29	0°♌	
	7806 Feb 03 01:12	0°♌		max. Earth dist.	7810 Nov 24 18:36	3°♌56'10	2.67077 AU
	7806 Mar 14 23:39	0°♍		morning rise	7811 Jan 02 00:12	28°♌12'43	
	7806 Apr 22 08:27	0°♎			7811 Jan 04 19:57	0°☾	
greatest brilliancy	7806 May 11 05:10	14°♎55'37	1.2m	desc. node	7811 Feb 06 10:06	20°☾37'28	
asc. node	7806 May 17 16:17	20°♎02'27			7811 Feb 21 05:41	0°♊	
	7806 May 30 06:53	0°☾			7811 Apr 09 14:52	0°♋	
evening set	7806 Jun 11 19:01	9°☾49'42			7811 May 27 05:55	0°♌	
	7806 Jul 07 18:36	0°♏			7811 Jul 15 04:47	0°♍	
	7806 Aug 16 14:58	0°♐			7811 Sep 08 18:07	0°♎	
				retrograde	7811 Oct 28 08:21	13°♎04'34	
conjunction	7806 Aug 18 03:25	1°♐07'02	0°54'48	opposition	7811 Nov 27 05:28	8°♎09'32	-3°05'55
minimum elong	7806 Aug 18 00:54	1°♐02'25	0°54'43	greatest brilliancy	7811 Nov 27 13:32	8°♎04'09	-3.0m
	7806 Sep 27 09:42	0°♑		min. Earth dist.	7811 Nov 28 17:14	7°♎45'44	0.36845 AU
max. Earth dist.	7806 Sep 30 06:33	2°♑00'14	2.49667 AU	direct	7811 Dec 27 03:48	3°♎07'36	
morning rise	7806 Oct 16 06:05	13°♑02'12		asc. node	7812 Jan 07 16:10	4°♎01'41	
	7806 Nov 10 10:31	0°♒			7812 Mar 09 17:38	0°☾	
	7806 Dec 26 21:26	0°♌			7812 Apr 26 21:31	0°♏	
	7807 Feb 14 07:52	0°☾			7812 Jun 11 18:32	0°♐	
	7807 Apr 10 17:36	0°♊			7812 Jul 27 21:49	0°♑	
desc. node	7807 May 04 15:26	10°♊41'12			7812 Sep 12 20:13	0°♒	
retrograde	7807 Jun 24 01:25	22°♊29'56			7812 Oct 30 07:38	0°♌	
opposition	7807 Jul 31 22:05	14°♊07'25	-3°07'59	evening set	7812 Nov 08 08:47	5°♌42'29	
greatest brilliancy	7807 Aug 01 13:51	13°♊52'29	-1.6m	max. Earth dist.	7812 Dec 16 02:55	29°♌36'45	2.67677 AU
min. Earth dist.	7807 Aug 07 05:31	11°♊44'02	0.60123 AU		7812 Dec 16 17:31	0°☾	
direct	7807 Sep 10 20:49	4°♊17'12					
	7807 Nov 24 13:20	0°♋		conjunction	7812 Dec 23 04:40	4°☾07'00	0°00'38
	7808 Jan 10 17:26	0°♌		minimum elong	7812 Dec 23 04:39	4°☾06'58	0°00'45
	7808 Feb 21 00:15	0°♍		behind sun begin	7812 Dec 22 10:19	3°☾37'46	
	7808 Mar 31 00:26	0°♎		behind sun end	7812 Dec 23 22:59	4°☾36'10	
asc. node	7808 Apr 03 16:24	2°♎51'31		desc. node	7812 Dec 24 08:28	4°☾51'19	
	7808 May 08 10:53	0°☾			7813 Feb 01 10:46	0°♊	
	7808 Jun 16 11:41	0°♏		morning rise	7813 Feb 04 22:07	2°♊15'26	
	7808 Jul 26 22:45	0°♐			7813 Mar 19 01:06	0°♋	
evening set	7808 Aug 15 12:57	14°♐03'10			7813 May 02 08:54	0°♌	
	7808 Sep 07 07:32	0°♑			7813 Jun 14 11:13	0°♍	
					7813 Jul 26 15:17	0°♎	
conjunction	7808 Oct 09 01:18	21°♑35'12	1°04'47		7813 Sep 06 17:13	0°☾	

	7813 Oct 21 04:34	0°♏			7818 Dec 06 11:35	0°♁	
asc. node	7813 Nov 24 15:47	19°♏21'09			7819 Jan 20 13:43	0°♈	
	7813 Dec 26 20:00	0°♐			7819 Mar 03 15:19	0°♐	
retrograde	7814 Jan 06 15:36	0°♐51'02		evening set	7819 Mar 09 01:10	3°♐59'24	
	7814 Jan 17 09:36	30°♐♏		max. Earth dist.	7819 Mar 29 21:41	19°♐37'05	2.39682 AU
min. Earth dist.	7814 Feb 02 14:09	25°♏53'11	0.43911 AU		7819 Apr 12 11:55	0°♐	
opposition	7814 Feb 10 23:29	23°♏03'32	4°28'35				
greatest brilliancy	7814 Feb 09 13:29	23°♏32'19	-2.5m	conjunction	7819 May 08 10:08	20°♐08'03	-0°45'39
direct	7814 Mar 14 22:01	16°♏42'55		minimum elong	7819 May 08 13:11	20°♐14'01	0°45'43
	7814 May 05 06:36	0°♐			7819 May 20 23:30	0°♐	
	7814 Jul 02 08:43	0°♐			7819 Jun 27 22:48	0°♐	
	7814 Aug 22 17:26	0°♐		asc. node	7819 Jul 17 10:13	15°♐19'06	
	7814 Oct 11 07:04	0°♐		morning rise	7819 Jul 18 20:29	16°♐26'08	
desc. node	7814 Nov 11 07:41	19°♐11'01			7819 Aug 05 06:57	0°♏	
	7814 Nov 28 13:20	0°♐			7819 Sep 13 20:37	0°♐	
evening set	7814 Dec 14 08:11	10°♐01'08			7819 Oct 25 11:10	0°♐	
max. Earth dist.	7815 Jan 08 18:30	26°♐25'27	2.62824 AU		7819 Dec 09 00:31	0°♐	
	7815 Jan 14 05:49	0°♐			7820 Jan 27 08:55	0°♐	
					7820 Apr 01 20:12	0°♐	
conjunction	7815 Jan 28 12:42	9°♐25'23	-0°39'18	retrograde	7820 May 02 12:52	5°♐02'27	
minimum elong	7815 Jan 28 11:37	9°♐23'35	0°39'11		7820 May 30 17:48	30°♐♐	
	7815 Feb 28 01:47	0°♐		opposition	7820 Jun 11 19:16	25°♐27'55	0°44'13
morning rise	7815 Mar 15 19:44	10°♐51'12		greatest brilliancy	7820 Jun 11 20:14	25°♐26'58	-1.3m
	7815 Apr 12 00:13	0°♐		min. Earth dist.	7820 Jun 12 22:40	25°♐00'50	0.68021 AU
	7815 May 23 05:26	0°♐		desc. node	7820 Jul 03 06:59	18°♐02'00	
	7815 Jul 02 03:16	0°♐		direct	7820 Jul 23 03:35	15°♐31'37	
	7815 Aug 10 09:03	0°♐			7820 Sep 17 12:37	0°♐	
	7815 Sep 18 22:18	0°♏			7820 Nov 13 10:50	0°♐	
asc. node	7815 Oct 12 13:06	17°♏22'16			7820 Dec 30 09:18	0°♐	
	7815 Oct 30 08:49	0°♐			7821 Feb 10 21:08	0°♐	
	7815 Dec 16 07:49	0°♐			7821 Mar 22 16:35	0°♐	
retrograde	7816 Feb 22 15:34	23°♐32'08			7821 Apr 30 00:31	0°♐	
min. Earth dist.	7816 Mar 26 09:38	16°♐18'41	0.57282 AU	evening set	7821 May 13 00:13	10°♐17'02	
opposition	7816 Apr 01 19:59	13°♐48'19	4°57'32	asc. node	7821 Jun 03 08:09	27°♐10'39	
greatest brilliancy	7816 Mar 31 17:37	14°♐14'05	-1.8m		7821 Jun 06 21:52	0°♐	
direct	7816 May 08 11:11	5°♐29'46			7821 Jul 15 07:14	0°♏	
	7816 Jul 25 09:19	0°♐					
	7816 Sep 19 03:03	0°♐		conjunction	7821 Jul 22 13:05	5°♏33'50	0°33'21
desc. node	7816 Sep 28 07:30	5°♐18'13		minimum elong	7821 Jul 22 10:12	5°♏28'19	0°33'11
	7816 Nov 08 12:53	0°♐			7821 Aug 24 00:10	0°♐	
	7816 Dec 25 20:28	0°♐		max. Earth dist.	7821 Sep 11 13:49	13°♐34'22	2.44183 AU
evening set	7817 Jan 20 17:45	17°♐11'10		morning rise	7821 Sep 25 16:16	23°♐40'14	
max. Earth dist.	7817 Feb 05 10:25	27°♐53'12	2.52874 AU		7821 Oct 04 15:31	0°♐	
	7817 Feb 08 11:56	0°♐			7821 Nov 17 15:37	0°♐	
					7822 Jan 03 10:36	0°♐	
conjunction	7817 Mar 11 00:52	21°♐31'16	-1°05'32		7822 Feb 23 07:12	0°♐	
minimum elong	7817 Mar 11 00:14	21°♐30'09	1°05'30		7822 Apr 27 06:28	0°♐	
	7817 Mar 22 18:18	0°♐		desc. node	7822 May 21 05:30	6°♐45'13	
	7817 May 02 01:46	0°♐		retrograde	7822 Jun 07 23:55	8°♐31'07	
morning rise	7817 May 05 02:41	2°♐18'33		opposition	7822 Jul 16 19:46	29°♐42'35	-2°00'23
	7817 Jun 10 00:49	0°♐			7822 Jul 16 01:40	30°♐♐	
	7817 Jul 18 09:12	0°♐		greatest brilliancy	7822 Jul 17 03:22	29°♐35'15	-1.5m
	7817 Aug 25 23:41	0°♏		min. Earth dist.	7822 Jul 21 17:22	27°♐49'10	0.63607 AU
asc. node	7817 Aug 29 11:58	2°♏41'37		direct	7822 Aug 27 06:38	19°♐41'39	
	7817 Oct 04 20:21	0°♐			7822 Oct 10 22:41	0°♐	
	7817 Nov 16 05:38	0°♐			7822 Dec 06 12:07	0°♐	
	7818 Jan 02 14:58	0°♐			7823 Jan 20 04:29	0°♐	
	7818 Mar 13 05:41	0°♐			7823 Mar 01 16:57	0°♐	
retrograde	7818 Mar 30 10:21	1°♐47'34			7823 Apr 09 08:17	0°♐	
	7818 Apr 15 17:00	30°♐♐		asc. node	7823 Apr 21 08:16	9°♐26'14	
min. Earth dist.	7818 May 07 04:43	22°♐53'50	0.65869 AU		7823 May 17 12:03	0°♐	
opposition	7818 May 09 20:49	21°♐49'51	3°09'11		7823 Jun 25 05:54	0°♏	
greatest brilliancy	7818 May 09 14:03	21°♐56'36	-1.4m	evening set	7823 Jul 24 12:48	22°♏00'41	
direct	7818 Jun 18 13:32	12°♐26'55			7823 Aug 04 09:34	0°♐	
desc. node	7818 Aug 16 07:22	27°♐38'20			7823 Sep 15 11:21	0°♐	
	7818 Aug 21 15:48	0°♐					
	7818 Oct 18 04:45	0°♐		conjunction	7823 Sep 21 13:13	4°♐12'52	1°07'01

minimum elong	7823 Sep 21 13:03	4° Ω 12'34	1°07'00	min. Earth dist.	7829 Jan 08 18:35	28° Ω 52'20	0.39162 AU
max. Earth dist.	7823 Oct 21 05:13	24° Ω 22'54	2.57131 AU	opposition	7829 Jan 15 06:57	26° Ω 55'28	2°27'44
	7823 Oct 29 15:36	0° \mathbb{M}		greatest brilliancy	7829 Jan 14 14:35	27° Ω 07'46	-2.9m
morning rise	7823 Nov 12 14:12	9° \mathbb{M} 11'22		direct	7829 Feb 14 09:56	21° Ω 31'23	
	7823 Dec 14 20:06	0° \mathcal{X}			7829 Mar 25 04:01	0° Ω	
	7824 Jan 31 23:26	0° \mathcal{Z}			7829 May 23 13:43	0° \mathbb{M}	
	7824 Mar 22 17:26	0° \approx			7829 Jul 12 23:45	0° Ω	
desc. node	7824 Apr 07 03:25	8° \approx 37'08			7829 Aug 30 23:52	0° \mathbb{M}	
	7824 May 19 04:43	0° \mathcal{X}			7829 Oct 18 12:45	0° \mathcal{X}	
retrograde	7824 Jul 22 04:47	17° \mathcal{X} 44'09		desc. node	7829 Nov 27 21:06	25° \mathcal{X} 15'29	
opposition	7824 Aug 26 22:11	10° \mathcal{X} 15'20	-4°51'52	evening set	7829 Nov 30 08:44	26° \mathcal{X} 49'42	
greatest brilliancy	7824 Aug 28 06:53	9° \mathcal{X} 45'49	-1.9m		7829 Dec 05 08:57	0° \mathcal{Z}	
min. Earth dist.	7824 Sep 04 00:38	7° \mathcal{X} 20'17	0.52979 AU	max. Earth dist.	7829 Dec 30 09:21	15° \mathcal{Z} 58'32	2.65369 AU
direct	7824 Oct 05 02:51	1° \mathcal{X} 07'18					
	7824 Dec 21 06:06	0° \mathcal{Y}		conjunction	7830 Jan 14 00:55	25° \mathcal{Z} 27'09	-0°24'29
	7825 Feb 03 20:39	0° \mathcal{B}		minimum elong	7830 Jan 14 00:11	25° \mathcal{Z} 25'58	0°24'21
asc. node	7825 Mar 08 09:00	24° \mathcal{B} 04'30			7830 Jan 21 00:22	0° \approx	
	7825 Mar 16 04:37	0° \mathbb{I}		morning rise	7830 Feb 27 19:20	25° \approx 04'30	
	7825 Apr 24 11:05	0° Ω			7830 Mar 07 02:08	0° \mathcal{X}	
	7825 Jun 03 04:37	0° Ω			7830 Apr 19 11:27	0° \mathcal{Y}	
	7825 Jul 14 07:14	0° \mathbb{M}			7830 May 31 06:45	0° \mathcal{B}	
	7825 Aug 26 05:54	0° Ω			7830 Jul 10 20:00	0° \mathbb{I}	
evening set	7825 Sep 15 00:03	13° Ω 22'15			7830 Aug 19 18:16	0° Ω	
	7825 Oct 10 01:21	0° \mathbb{M}		asc. node	7830 Sep 29 05:00	0° Ω	
					7830 Oct 29 07:57	21° Ω 14'03	
conjunction	7825 Nov 03 13:32	15° \mathbb{M} 58'25	0°51'37		7830 Nov 11 13:17	0° \mathbb{M}	
minimum elong	7825 Nov 03 14:44	16° \mathbb{M} 00'21	0°51'43		7831 Jan 07 09:16	0° Ω	
max. Earth dist.	7825 Nov 15 18:09	23° \mathbb{M} 49'53	2.65347 AU	retrograde	7831 Feb 06 05:02	5° Ω 42'35	
	7825 Nov 25 09:03	0° \mathcal{X}			7831 Mar 06 18:38	30° \mathcal{R} \mathbb{M}	
morning rise	7825 Dec 19 09:25	15° \mathcal{X} 17'06		min. Earth dist.	7831 Mar 08 13:51	29° \mathbb{M} 20'46	0.52343 AU
	7826 Jan 11 16:42	0° \mathcal{Z}		greatest brilliancy	7831 Mar 14 21:13	26° \mathbb{M} 58'25	-2.0m
desc. node	7826 Feb 23 00:41	26° \mathcal{Z} 30'47		opposition	7831 Mar 16 07:14	26° \mathbb{M} 26'14	5°15'23
	7826 Feb 28 15:07	0° \approx		direct	7831 Apr 20 07:32	18° \mathbb{M} 46'15	
	7826 Apr 18 06:56	0° \mathcal{X}			7831 Jun 06 23:49	0° Ω	
	7826 Jun 07 18:27	0° \mathcal{Y}			7831 Aug 07 01:58	0° \mathbb{M}	
	7826 Aug 04 09:17	0° \mathcal{B}			7831 Sep 28 10:31	0° \mathcal{X}	
retrograde	7826 Sep 25 20:54	13° \mathcal{B} 31'42		desc. node	7831 Oct 15 20:30	10° \mathcal{X} 25'01	
opposition	7826 Oct 26 16:32	8° \mathcal{B} 10'40	-5°28'32		7831 Nov 16 18:50	0° \mathcal{Z}	
greatest brilliancy	7826 Oct 28 02:24	7° \mathcal{B} 46'13	-2.8m		7832 Jan 02 18:35	0° \approx	
min. Earth dist.	7826 Nov 02 02:56	6° \mathcal{B} 19'45	0.39658 AU	evening set	7832 Jan 06 05:10	2° \approx 15'23	
direct	7826 Nov 28 08:24	2° \mathcal{B} 02'25		max. Earth dist.	7832 Jan 25 05:07	14° \approx 52'36	2.57315 AU
asc. node	7827 Jan 24 07:39	20° \mathcal{B} 23'08			7832 Feb 16 10:45	0° \mathcal{X}	
	7827 Feb 09 21:25	0° \mathbb{I}					
	7827 Mar 27 12:01	0° Ω		conjunction	7832 Feb 22 07:21	4° \mathcal{X} 02'58	-0°58'28
	7827 May 09 17:18	0° Ω		minimum elong	7832 Feb 22 06:10	4° \mathcal{X} 00'57	0°58'25
	7827 Jun 22 06:53	0° \mathbb{M}			7832 Mar 29 22:25	0° \mathcal{Y}	
	7827 Aug 06 01:37	0° Ω		morning rise	7832 Apr 12 20:13	10° \mathcal{Y} 08'09	
	7827 Sep 21 03:54	0° \mathbb{M}			7832 May 09 13:13	0° \mathcal{B}	
evening set	7827 Oct 25 23:42	22° \mathbb{M} 15'24			7832 Jun 17 19:44	0° \mathbb{I}	
	7827 Nov 07 04:10	0° \mathcal{X}			7832 Jul 26 10:43	0° Ω	
max. Earth dist.	7827 Dec 08 10:48	19° \mathcal{X} 50'18	2.68111 AU		7832 Sep 03 07:07	0° Ω	
				asc. node	7832 Sep 15 05:03	9° Ω 02'27	
conjunction	7827 Dec 10 11:11	21° \mathcal{X} 07'02	0°16'21		7832 Oct 13 11:56	0° \mathbb{M}	
minimum elong	7827 Dec 10 11:40	21° \mathcal{X} 07'48	0°16'29		7832 Nov 25 17:40	0° Ω	
	7827 Dec 24 10:51	0° \mathcal{Z}			7833 Jan 15 13:59	0° \mathbb{M}	
desc. node	7828 Jan 10 22:27	11° \mathcal{Z} 08'14		retrograde	7833 Mar 16 18:18	18° \mathbb{M} 02'25	
morning rise	7828 Jan 23 04:03	18° \mathcal{Z} 57'31		min. Earth dist.	7833 Apr 21 17:20	9° \mathbb{M} 43'22	0.63226 AU
	7828 Feb 09 08:36	0° \approx		opposition	7833 Apr 25 21:20	8° \mathbb{M} 03'50	3°57'47
	7828 Mar 26 12:00	0° \mathcal{X}		greatest brilliancy	7833 Apr 25 07:48	8° \mathbb{M} 17'18	-1.5m
	7828 May 10 18:17	0° \mathcal{Y}			7833 May 22 06:49	30° \mathcal{R} Ω	
	7828 Jun 24 05:57	0° \mathcal{B}		direct	7833 Jun 03 12:57	29° Ω 01'45	
	7828 Aug 07 11:18	0° \mathbb{I}			7833 Jun 16 11:41	0° \mathbb{M}	
	7828 Sep 22 06:13	0° Ω		desc. node	7833 Sep 01 20:23	29° \mathbb{M} 21'19	
	7828 Nov 21 19:08	0° Ω			7833 Sep 03 02:17	0° \mathcal{X}	
asc. node	7828 Dec 11 08:08	3° Ω 13'24			7833 Oct 26 14:56	0° \mathcal{Z}	
retrograde	7828 Dec 13 16:13	3° Ω 15'47			7833 Dec 13 21:51	0° \approx	
	7829 Jan 04 18:11	30° \mathcal{R} Ω			7834 Jan 27 18:09	0° \mathcal{X}	

evening set	7834 Feb 16 23:45	14° X 11'51			7838 Dec 21 22:50	0° X	
max. Earth dist.	7834 Mar 02 22:04	24° X 12'27	2.44881 AU		7839 Feb 08 18:31	0° Z	
	7834 Mar 10 20:48	0° Y			7839 Apr 02 21:23	0° \approx	
				desc. node	7839 Apr 24 17:57	10° \approx 57'19	
conjunction	7834 Apr 12 23:56	24° Y 45'16	-1°01'58		7839 Jun 17 19:21	0° X	
minimum elong	7834 Apr 13 01:33	24° Y 48'19	1°02'00	retrograde	7839 Jul 03 22:38	1° X 27'39	
	7834 Apr 19 20:54	0° Z			7839 Jul 19 04:51	30° $\text{R}\approx$	
	7834 May 28 12:04	0° II		opposition	7839 Aug 10 02:52	23° \approx 22'02	-3°46'58
morning rise	7834 Jun 17 08:15	15° II 37'12		greatest brilliancy	7839 Aug 11 00:25	23° \approx 01'53	-1.7m
	7834 Jul 05 13:58	0° Z		min. Earth dist.	7839 Aug 17 03:22	20° \approx 44'33	0.57807 AU
asc. node	7834 Aug 03 02:17	22° Z 20'29		direct	7839 Sep 19 13:57	13° \approx 42'10	
	7834 Aug 12 23:23	0° Z			7839 Nov 14 18:51	0° X	
	7834 Sep 21 13:48	0° II			7840 Jan 04 01:27	0° Y	
	7834 Nov 02 07:46	0° Z			7840 Feb 15 03:23	0° Z	
	7834 Dec 17 11:24	0° III		asc. node	7840 Mar 25 00:26	29° Z 38'19	
	7835 Feb 07 09:50	0° X			7840 Mar 25 11:38	0° II	
retrograde	7835 Apr 20 06:36	22° X 31'26			7840 May 03 03:17	0° Z	
opposition	7835 May 30 17:49	12° X 45'06	1°42'59		7840 Jun 11 08:23	0° Z	
min. Earth dist.	7835 May 30 09:26	12° X 53'27	0.67958 AU		7840 Jul 21 23:28	0° II	
greatest brilliancy	7835 May 30 17:38	12° X 45'17	-1.3m	evening set	7840 Aug 27 07:01	25° II 42'25	
direct	7835 Jul 10 14:21	2° X 58'53			7840 Sep 02 12:00	0° Z	
desc. node	7835 Jul 20 20:52	3° X 35'43			7840 Oct 16 23:43	0° III	
	7835 Oct 01 18:42	0° Z					
	7835 Nov 23 05:53	0° \approx		conjunction	7840 Oct 18 17:49	1° III 09'28	1°01'05
	7836 Jan 08 05:10	0° X		minimum elong	7840 Oct 18 18:51	1° III 11'11	1°01'08
	7836 Feb 19 11:13	0° Y		max. Earth dist.	7840 Nov 06 02:00	13° III 10'18	2.62779 AU
	7836 Mar 30 06:15	0° Z			7840 Dec 02 04:20	0° X	
evening set	7836 Apr 14 16:24	11° Z 58'12		morning rise	7840 Dec 05 08:53	2° X 02'19	
	7836 May 07 14:49	0° II			7841 Jan 18 16:29	0° Z	
	7836 Jun 14 12:03	0° Z			7841 Mar 08 09:07	0° \approx	
asc. node	7836 Jun 20 01:34	4° Z 23'34		desc. node	7841 Mar 11 15:08	1° \approx 58'15	
					7841 Apr 28 00:07	0° X	
conjunction	7836 Jun 22 18:12	6° Z 30'57	0°01'58		7841 Jun 23 10:37	0° Y	
minimum elong	7836 Jun 22 18:01	6° Z 30'37	0°01'50	retrograde	7841 Aug 27 15:01	18° Y 47'47	
behind sun begin	7836 Jun 21 11:43	5° Z 30'55		opposition	7841 Sep 29 13:53	12° Y 33'13	-5°57'46
behind sun end	7836 Jun 24 00:19	7° Z 30'16		greatest brilliancy	7841 Oct 01 09:38	11° Y 57'43	-2.4m
	7836 Jul 22 19:52	0° Z		min. Earth dist.	7841 Oct 08 01:11	9° Y 49'47	0.44586 AU
max. Earth dist.	7836 Aug 11 18:42	15° Z 16'20	2.38746 AU	direct	7841 Nov 04 08:34	4° Y 58'21	
	7836 Aug 31 10:04	0° II			7842 Jan 11 23:57	0° Z	
morning rise	7836 Sep 01 15:01	0° II 53'37		asc. node	7842 Feb 10 01:30	18° Z 48'29	
	7836 Oct 11 23:12	0° Z			7842 Feb 26 02:54	0° II	
	7836 Nov 25 00:54	0° III			7842 Apr 08 13:07	0° Z	
	7837 Jan 11 10:04	0° X			7842 May 19 17:24	0° Z	
	7837 Mar 05 17:41	0° Z			7842 Jun 30 23:11	0° II	
retrograde	7837 May 24 05:16	25° Z 21'53			7842 Aug 13 19:41	0° Z	
desc. node	7837 Jun 06 20:24	24° Z 11'53			7842 Sep 28 06:52	0° III	
opposition	7837 Jul 02 18:30	16° Z 12'28	-0°54'39	evening set	7842 Oct 10 22:48	8° III 12'02	
greatest brilliancy	7837 Jul 02 20:50	16° Z 10'12	-1.4m		7842 Nov 13 22:49	0° X	
min. Earth dist.	7837 Jul 06 05:02	14° Z 51'51	0.66104 AU				
direct	7837 Aug 13 09:10	6° Z 09'08		conjunction	7842 Nov 26 13:35	8° X 01'54	0°31'15
	7837 Oct 26 19:45	0° \approx		minimum elong	7842 Nov 26 14:28	8° X 03'19	0°31'22
	7837 Dec 16 07:02	0° X		max. Earth dist.	7842 Nov 29 21:51	10° X 09'27	2.67689 AU
	7838 Jan 28 18:11	0° Y			7842 Dec 31 04:07	0° Z	
	7838 Mar 09 21:03	0° Z		morning rise	7843 Jan 09 17:11	6° Z 03'26	
	7838 Apr 17 07:51	0° II		desc. node	7843 Jan 27 12:48	17° Z 22'26	
asc. node	7838 May 08 00:22	16° II 20'35			7843 Feb 16 08:44	0° \approx	
	7838 May 25 07:51	0° Z			7843 Apr 04 05:34	0° X	
evening set	7838 Jun 28 01:46	26° Z 18'19			7843 May 20 19:48	0° Y	
	7838 Jul 02 21:08	0° Z			7843 Jul 06 14:50	0° Z	
	7838 Aug 11 19:10	0° II			7843 Aug 24 09:41	0° II	
					7843 Oct 30 21:29	0° Z	
conjunction	7838 Aug 31 11:18	14° II 17'35	1°01'57	retrograde	7843 Nov 15 15:21	1° Z 36'09	
minimum elong	7838 Aug 31 09:39	14° II 14'38	1°01'55		7843 Dec 01 08:32	30° RII	
	7838 Sep 22 15:22	0° Z		min. Earth dist.	7843 Dec 14 00:06	26° II 57'37	0.36734 AU
max. Earth dist.	7838 Oct 08 14:35	11° Z 03'32	2.52512 AU	opposition	7843 Dec 15 20:02	26° II 28'19	-1°01'18
morning rise	7838 Oct 26 16:32	23° Z 20'01		greatest brilliancy	7843 Dec 15 19:46	26° II 28'30	-3.1m
	7838 Nov 05 15:57	0° III		asc. node	7843 Dec 29 01:33	23° II 15'37	

direct	7844 Jan 14 01:52	21° Π 35'52			7849 Feb 03 19:41	0° H	
	7844 Feb 20 22:06	0° G		max. Earth dist.	7849 Feb 13 14:18	6° H 48'06	2.50124 AU
	7844 Apr 17 21:29	0° Ω			7849 Mar 18 00:59	0° Υ	
	7844 Jun 05 01:33	0° M					
	7844 Jul 22 06:35	0° L		conjunction	7849 Mar 22 03:51	3° Υ 00'42	-1°06'47
	7844 Sep 07 18:48	0° M		minimum elong	7849 Mar 22 03:51	3° Υ 00'42	1°06'47
	7844 Oct 25 13:46	0° J			7849 Apr 27 06:08	0° B	
evening set	7844 Nov 16 10:11	13° J 44'34		morning rise	7849 May 19 12:42	17° B 06'25	
	7844 Dec 12 02:52	0° Z			7849 Jun 05 02:27	0° Π	
desc. node	7844 Dec 14 10:39	1° Z 28'41			7849 Jul 13 08:25	0° G	
max. Earth dist.	7844 Dec 21 06:43	5° Z 50'02	2.67091 AU	asc. node	7849 Aug 19 20:07	29° G 12'48	
					7849 Aug 20 20:37	0° Ω	
conjunction	7844 Dec 31 01:46	12° Z 05'44	-0°08'47		7849 Sep 29 13:43	0° M	
minimum elong	7844 Dec 31 01:30	12° Z 05'18	0°08'38		7849 Nov 10 14:46	0° L	
behind sun begin	7844 Dec 30 09:42	11° Z 40'00			7849 Dec 26 20:15	0° M	
behind sun end	7844 Dec 31 17:18	12° Z 30'37			7850 Feb 22 18:07	0° J	
	7845 Jan 27 19:17	0° \approx		retrograde	7850 Apr 07 01:51	9° J 45'53	
morning rise	7845 Feb 13 00:15	10° \approx 36'05		min. Earth dist.	7850 May 15 17:03	0° J 35'20	0.66888 AU
	7845 Mar 14 05:02	0° H		opposition	7850 May 17 13:28	29° M 51'00	2°38'33
	7845 Apr 27 04:07	0° Υ		greatest brilliancy	7850 May 17 09:39	29° M 54'48	-1.3m
	7845 Jun 08 17:53	0° B			7850 May 17 04:27	30° R M	
	7845 Jul 20 04:59	0° Π		direct	7850 Jun 26 17:08	20° M 18'44	
	7845 Aug 30 06:16	0° G		desc. node	7850 Aug 06 10:41	28° M 24'22	
	7845 Oct 11 12:58	0° Ω			7850 Aug 10 20:21	0° J	
asc. node	7845 Nov 15 00:10	22° Ω 01'54			7850 Oct 12 03:19	0° Z	
	7845 Nov 29 12:11	0° M			7850 Dec 01 08:29	0° \approx	
retrograde	7846 Jan 18 13:22	14° M 50'47			7851 Jan 15 17:44	0° H	
min. Earth dist.	7846 Feb 15 13:08	9° M 24'26	0.46930 AU		7851 Feb 26 21:00	0° Υ	
greatest brilliancy	7846 Feb 22 12:01	6° M 57'01	-2.3m	evening set	7851 Mar 21 16:01	16° Υ 59'42	
opposition	7846 Feb 24 01:00	6° M 24'05	5°01'16		7851 Apr 07 17:07	0° B	
	7846 Mar 20 20:57	30° R Ω		max. Earth dist.	7851 Apr 26 14:17	14° B 38'48	2.37293 AU
direct	7846 Mar 29 03:56	29° Ω 32'29			7851 May 16 03:23	0° Π	
	7846 Apr 06 15:54	0° M					
	7846 Jun 24 07:34	0° L		conjunction	7851 May 24 11:44	6° Π 35'38	-0°30'43
	7846 Aug 16 20:22	0° M		minimum elong	7851 May 24 14:33	6° Π 41'12	0°30'48
	7846 Oct 06 05:22	0° J			7851 Jun 23 01:33	0° G	
desc. node	7846 Nov 01 10:15	16° J 02'32		asc. node	7851 Jul 07 17:21	11° G 33'07	
	7846 Nov 23 19:54	0° Z			7851 Jul 31 09:02	0° Ω	
evening set	7846 Dec 22 12:14	18° Z 14'25		morning rise	7851 Aug 05 09:56	3° Ω 53'20	
	7847 Jan 09 14:51	0° \approx			7851 Sep 08 21:56	0° M	
max. Earth dist.	7847 Jan 14 14:17	3° \approx 15'58	2.61079 AU		7851 Oct 20 10:41	0° L	
					7851 Dec 03 17:24	0° M	
conjunction	7847 Feb 06 04:49	18° \approx 18'41	-0°47'11		7852 Jan 21 02:18	0° J	
minimum elong	7847 Feb 06 03:37	18° \approx 16'38	0°47'05		7852 Mar 19 09:42	0° Z	
	7847 Feb 23 09:50	0° H		retrograde	7852 May 10 06:43	12° Z 40'47	
morning rise	7847 Mar 25 16:28	21° H 05'19		opposition	7852 Jun 19 08:02	3° Z 14'18	0°08'30
	7847 Apr 07 04:42	0° Υ		greatest brilliancy	7852 Jun 19 08:25	3° Z 13'56	-1.3m
	7847 May 18 04:56	0° B		min. Earth dist.	7852 Jun 21 06:54	2° Z 28'06	0.67630 AU
	7847 Jun 26 20:56	0° Π		desc. node	7852 Jun 23 10:14	1° Z 37'44	
	7847 Aug 04 20:36	0° G			7852 Jun 27 16:17	30° R J	
	7847 Sep 13 01:56	0° Ω		direct	7852 Jul 30 19:55	23° J 14'16	
asc. node	7847 Oct 02 22:49	14° Ω 50'08			7852 Sep 05 03:37	0° Z	
	7847 Oct 23 21:09	0° M			7852 Nov 07 02:50	0° \approx	
	7847 Dec 07 19:41	0° L			7852 Dec 25 01:11	0° H	
	7848 Feb 08 21:47	0° M			7853 Feb 05 20:31	0° Υ	
retrograde	7848 Mar 02 08:33	3° M 10'27			7853 Mar 17 18:33	0° B	
	7848 Mar 23 12:13	30° R L			7853 Apr 25 03:10	0° Π	
min. Earth dist.	7848 Apr 05 07:35	25° L 31'37	0.59644 AU	asc. node	7853 May 24 17:37	23° Π 26'23	
opposition	7848 Apr 10 22:57	23° L 18'13	4°39'08	evening set	7853 May 29 18:04	27° Π 24'28	
greatest brilliancy	7848 Apr 10 01:19	23° L 39'35	-1.6m		7853 Jun 02 00:51	0° G	
direct	7848 May 18 08:30	14° L 42'18			7853 Jul 10 10:42	0° Ω	
	7848 Jul 15 19:52	0° M					
	7848 Sep 13 03:17	0° J		conjunction	7853 Aug 07 00:49	20° Ω 58'00	0°47'01
desc. node	7848 Sep 18 10:32	2° J 58'18		minimum elong	7853 Aug 06 21:51	20° Ω 52'26	0°46'54
	7848 Nov 03 11:08	0° Z			7853 Aug 19 04:13	0° M	
	7848 Dec 21 02:19	0° \approx		max. Earth dist.	7853 Sep 23 02:27	25° M 15'31	2.47252 AU
evening set	7849 Jan 30 04:07	26° \approx 47'45			7853 Sep 29 19:59	0° L	

morning rise	7853 Oct 07 17:35	5°♊30'57	direct	7858 Dec 13 22:19	19°♊35'20	
	7853 Nov 12 18:40	0°♌	asc. node	7859 Jan 14 17:20	26°♊00'43	
	7853 Dec 29 07:03	0°♊		7859 Jan 24 09:28	0°♌	
	7854 Feb 17 04:05	0°♋		7859 Mar 18 07:50	0°♍	
	7854 Apr 15 16:50	0°♎		7859 May 02 15:45	0°♏	
desc. node	7854 May 11 08:21	10°♎07'34		7859 Jun 16 07:13	0°♐	
retrograde	7854 Jun 16 23:32	16°♎51'54		7859 Jul 31 17:36	0°♑	
opposition	7854 Jul 25 06:52	8°♎17'06 -2°39'24		7859 Sep 16 05:34	0°♒	
greatest brilliancy	7854 Jul 25 18:47	8°♎05'42 -1.5m		7859 Nov 02 11:28	0°♊	
min. Earth dist.	7854 Jul 30 22:57	6°♎06'55 0.61805 AU	evening set	7859 Nov 03 06:33	0°♊30'12	
	7854 Aug 19 16:34	30°♋♋	max. Earth dist.	7859 Dec 13 11:30	25°♊58'04	2.67972 AU
direct	7854 Sep 04 11:34	28°♋20'50				
	7854 Sep 20 23:22	0°♌	conjunction	7859 Dec 18 08:12	29°♊03'25	0°07'13
	7854 Nov 29 07:22	0°♋	minimum elong	7859 Dec 18 08:25	29°♊03'45	0°07'21
	7855 Jan 14 07:18	0°♍	behind sun begin	7859 Dec 17 15:46	28°♊37'19	
	7855 Feb 24 06:29	0°♊	behind sun end	7859 Dec 19 01:03	29°♊30'11	
	7855 Apr 04 02:42	0°♌		7859 Dec 19 19:48	0°♋	
asc. node	7855 Apr 11 18:03	5°♌58'55	desc. node	7860 Jan 01 01:10	7°♋47'12	
	7855 May 12 09:44	0°♍	morning rise	7860 Jan 30 23:57	27°♋00'16	
	7855 Jun 20 06:30	0°♏		7860 Feb 04 15:11	0°♎	
	7855 Jul 30 12:48	0°♐		7860 Mar 21 11:36	0°♋	
evening set	7855 Aug 06 22:21	5°♐22'07		7860 May 05 05:08	0°♍	
	7855 Sep 10 16:58	0°♑		7860 Jun 17 21:19	0°♊	
				7860 Jul 30 19:52	0°♌	
conjunction	7855 Oct 02 07:57	14°♑50'26 1°06'27		7860 Sep 12 02:37	0°♍	
minimum elong	7855 Oct 02 08:24	14°♑51'11 1°06'28		7860 Oct 29 14:33	0°♏	
	7855 Oct 24 22:24	0°♌	asc. node	7860 Dec 01 17:46	15°♏14'24	
max. Earth dist.	7855 Oct 27 17:36	1°♌51'19 2.59343 AU	retrograde	7860 Dec 27 17:16	19°♏49'43	
morning rise	7855 Nov 21 13:18	18°♌06'01	min. Earth dist.	7861 Jan 23 00:11	15°♏11'37	0.41613 AU
	7855 Dec 10 01:33	0°♊	opposition	7861 Jan 30 21:37	12°♏39'51	3°48'13
	7856 Jan 26 21:24	0°♋	greatest brilliancy	7861 Jan 29 17:20	13°♏02'37	-2.7m
	7856 Mar 16 16:49	0°♎	direct	7861 Mar 02 22:20	6°♏45'14	
desc. node	7856 Mar 28 05:12	6°♎41'14		7861 May 13 13:48	0°♐	
	7856 May 09 16:20	0°♋		7861 Jul 06 08:25	0°♑	
retrograde	7856 Aug 03 07:48	28°♋25'17		7861 Aug 25 13:01	0°♒	
opposition	7856 Sep 07 02:53	21°♋20'25 -5°23'46		7861 Oct 13 15:07	0°♊	
greatest brilliancy	7856 Sep 08 17:21	20°♋46'39 -2.1m	desc. node	7861 Nov 17 23:50	21°♊59'26	
min. Earth dist.	7856 Sep 15 14:48	18°♋22'22 0.50042 AU		7861 Nov 30 17:08	0°♋	
direct	7856 Oct 15 07:17	12°♋38'44	evening set	7861 Dec 08 07:47	4°♋49'19	
	7856 Dec 10 11:55	0°♍	max. Earth dist.	7862 Jan 04 18:53	22°♋26'05	2.64060 AU
	7857 Jan 27 11:37	0°♊		7862 Jan 16 09:46	0°♎	
asc. node	7857 Feb 26 17:18	21°♊44'47				
	7857 Mar 09 19:50	0°♌	conjunction	7862 Jan 22 05:20	3°♎48'44 -0°33'18	
	7857 Apr 18 14:56	0°♍	minimum elong	7862 Jan 22 04:23	3°♎47'10 0°33'10	
	7857 May 28 17:36	0°♏		7862 Mar 02 09:12	0°♋	
	7857 Jul 09 03:29	0°♐	morning rise	7862 Mar 08 17:46	4°♋20'30	
	7857 Aug 21 08:09	0°♑		7862 Apr 14 13:04	0°♍	
evening set	7857 Sep 24 19:18	23°♑04'50		7862 May 26 01:02	0°♊	
	7857 Oct 05 07:44	0°♒		7862 Jul 05 05:36	0°♌	
				7862 Aug 13 17:58	0°♍	
conjunction	7857 Nov 12 03:20	24°♒30'10 0°44'44		7862 Sep 22 14:41	0°♏	
minimum elong	7857 Nov 12 04:29	24°♒32'00 0°44'50	asc. node	7862 Oct 19 15:00	19°♒35'33	
	7857 Nov 20 17:20	0°♊		7862 Nov 03 14:45	0°♐	
max. Earth dist.	7857 Nov 21 01:39	0°♊13'18 2.66406 AU		7862 Dec 22 19:29	0°♑	
morning rise	7857 Dec 27 05:30	23°♊12'49	retrograde	7863 Feb 15 19:11	16°♑37'11	
	7858 Jan 06 23:04	0°♋	min. Earth dist.	7863 Mar 19 12:32	9°♑45'29	0.55172 AU
desc. node	7858 Feb 13 02:46	23°♋25'17	greatest brilliancy	7863 Mar 25 07:02	7°♑32'13	-1.9m
	7858 Feb 23 13:46	0°♎	opposition	7863 Mar 26 13:03	7°♑03'13	5°08'14
	7858 Apr 12 11:09	0°♋		7863 Apr 19 06:51	30°♒♐	
	7858 May 31 03:15	0°♍	direct	7863 May 01 10:58	29°♐00'43	
	7858 Jul 21 14:36	0°♊		7863 May 14 06:08	0°♑	
	7858 Oct 11 18:06	0°♌		7863 Jul 30 19:33	0°♒	
retrograde	7858 Oct 13 20:03	0°♌01'41		7863 Sep 22 22:30	0°♊	
	7858 Oct 15 21:58	30°♒♋	desc. node	7863 Oct 05 23:42	7°♊39'40	
opposition	7858 Nov 12 22:02	25°♋01'06 -4°23'00		7863 Nov 11 21:29	0°♋	
greatest brilliancy	7858 Nov 13 17:58	24°♋47'27 -2.9m		7863 Dec 29 02:35	0°♎	
min. Earth dist.	7858 Nov 16 22:05	23°♋55'30 0.37737 AU	evening set	7864 Jan 14 21:50	11°♎04'54	

max. Earth dist.	7864 Feb 01 00:41	22° \approx 36'33	2.54948 AU		7869 Jan 06 00:12	0° \nearrow	
	7864 Feb 11 19:42	0° \mathbb{H}			7869 Feb 26 14:44	0° \mathcal{Z}	
					7869 May 07 19:18	0° \approx	
conjunction	7864 Mar 03 02:31	14° \mathbb{H} 09'36	-1°03'13	desc. node	7869 May 27 22:22	3° \approx 10'28	
minimum elong	7864 Mar 03 01:35	14° \mathbb{H} 07'56	1°03'10	retrograde	7869 Jun 01 13:26	3° \approx 18'03	
	7864 Mar 25 05:27	0° Υ			7869 Jun 24 10:55	30° \mathbb{R} \mathcal{Z}	
morning rise	7864 Apr 24 22:41	22° Υ 39'10		opposition	7869 Jul 10 17:12	24° \mathcal{Z} 19'38	-1°32'44
	7864 May 04 17:02	0° \mathcal{B}		greatest brilliancy	7869 Jul 10 22:11	24° \mathcal{Z} 14'47	-1.4m
	7864 Jun 12 19:41	0° \mathbb{I}		min. Earth dist.	7869 Jul 14 22:48	22° \mathcal{Z} 40'56	0.64853 AU
	7864 Jul 21 06:45	0° \mathcal{E}		direct	7869 Aug 21 06:02	14° \mathcal{Z} 16'46	
	7864 Aug 28 23:05	0° \mathcal{O}			7869 Oct 17 17:26	0° \approx	
asc. node	7864 Sep 05 13:10	5° \mathcal{O} 48'02			7869 Dec 10 04:18	0° \mathbb{H}	
	7864 Oct 07 21:30	0° \mathbb{H}			7870 Jan 23 08:16	0° Υ	
	7864 Nov 19 12:05	0° \mathcal{E}			7870 Mar 04 17:16	0° \mathcal{B}	
	7865 Jan 06 20:11	0° \mathbb{M}			7870 Apr 12 06:43	0° \mathbb{I}	
retrograde	7865 Mar 24 16:16	26° \mathbb{M} 30'22		asc. node	7870 Apr 28 09:33	12° \mathbb{I} 42'23	
min. Earth dist.	7865 Apr 30 15:40	17° \mathbb{M} 51'24	0.64818 AU		7870 May 20 08:20	0° \mathcal{E}	
opposition	7865 May 03 23:51	16° \mathbb{M} 31'21	3°30'12		7870 Jun 27 23:19	0° \mathcal{O}	
greatest brilliancy	7865 May 03 14:19	16° \mathbb{M} 40'52	-1.4m	evening set	7870 Jul 13 09:48	11° \mathcal{O} 43'49	
direct	7865 Jun 12 05:47	7° \mathbb{M} 17'11			7870 Aug 06 23:11	0° \mathbb{H}	
desc. node	7865 Aug 22 23:51	28° \mathbb{M} 22'08					
	7865 Aug 26 09:52	0° \nearrow		conjunction	7870 Sep 12 18:35	26° \mathbb{H} 25'40	1°05'53
	7865 Oct 21 01:45	0° \mathcal{Z}		minimum elong	7870 Sep 12 17:50	26° \mathbb{H} 24'21	1°05'53
	7865 Dec 08 23:12	0° \approx			7870 Sep 17 21:01	0° \mathcal{E}	
	7866 Jan 23 00:20	0° \mathbb{H}		max. Earth dist.	7870 Oct 16 04:35	19° \mathcal{E} 27'07	2.55155 AU
evening set	7866 Feb 27 23:58	25° \mathbb{H} 30'29			7870 Oct 31 22:12	0° \mathbb{M}	
	7866 Mar 06 03:38	0° Υ		morning rise	7870 Nov 05 12:36	3° \mathbb{M} 03'08	
max. Earth dist.	7866 Mar 16 06:32	7° Υ 27'54	2.41957 AU		7870 Dec 17 02:11	0° \nearrow	
	7866 Apr 15 02:51	0° \mathcal{B}			7871 Feb 03 10:26	0° \mathcal{Z}	
					7871 Mar 26 23:25	0° \approx	
conjunction	7866 Apr 26 19:37	9° \mathcal{B} 00'56	-0°54'16	desc. node	7871 Apr 14 20:19	10° \approx 10'13	
minimum elong	7866 Apr 26 22:10	9° \mathcal{B} 05'54	0°54'20		7871 May 27 07:40	0° \mathbb{H}	
	7866 May 23 16:28	0° \mathbb{I}		retrograde	7871 Jul 14 13:18	10° \mathbb{H} 57'56	
	7866 Jun 30 16:49	0° \mathcal{E}		opposition	7871 Aug 19 22:52	3° \mathbb{H} 11'30	-4°24'52
morning rise	7866 Jul 04 21:51	3° \mathcal{E} 19'07		greatest brilliancy	7871 Aug 21 02:34	2° \mathbb{H} 46'01	-1.8m
asc. node	7866 Jul 24 11:49	18° \mathcal{E} 41'27		min. Earth dist.	7871 Aug 27 14:17	0° \mathbb{H} 23'06	0.55238 AU
	7866 Aug 08 00:57	0° \mathcal{O}			7871 Aug 28 16:07	30° \mathbb{R} \approx	
	7866 Sep 16 13:37	0° \mathbb{H}		direct	7871 Sep 28 18:14	23° \approx 47'00	
	7866 Oct 28 03:38	0° \mathcal{E}			7871 Oct 31 02:23	0° \mathbb{H}	
	7866 Dec 11 19:57	0° \mathbb{M}			7871 Dec 27 13:44	0° Υ	
	7867 Jan 30 22:10	0° \nearrow			7872 Feb 08 21:54	0° \mathcal{B}	
	7867 Apr 22 03:10	0° \mathcal{Z}		asc. node	7872 Mar 15 10:28	26° \mathcal{B} 40'48	
retrograde	7867 Apr 27 21:06	0° \mathcal{Z} 12'01			7872 Mar 19 18:28	0° \mathbb{I}	
	7867 May 03 12:00	30° \mathbb{R} \nearrow			7872 Apr 27 17:15	0° \mathcal{E}	
opposition	7867 Jun 07 05:42	20° \nearrow 31'43	1°08'50		7872 Jun 06 03:58	0° \mathcal{O}	
greatest brilliancy	7867 Jun 07 06:27	20° \nearrow 30'58	-1.3m		7872 Jul 16 23:52	0° \mathbb{H}	
min. Earth dist.	7867 Jun 07 16:54	20° \nearrow 20'35	0.68123 AU		7872 Aug 28 16:26	0° \mathcal{E}	
desc. node	7867 Jul 10 23:40	11° \nearrow 00'01		evening set	7872 Sep 07 04:13	6° \mathcal{E} 29'16	
direct	7867 Jul 18 08:55	10° \nearrow 39'27			7872 Oct 12 07:04	0° \mathbb{M}	
	7867 Sep 23 17:28	0° \mathcal{Z}					
	7867 Nov 17 13:19	0° \approx		conjunction	7872 Oct 27 22:04	10° \mathbb{M} 14'38	0°55'59
	7868 Jan 03 03:06	0° \mathbb{H}		minimum elong	7872 Oct 27 23:15	10° \mathbb{M} 16'33	0°56'03
	7868 Feb 14 13:36	0° Υ		max. Earth dist.	7872 Nov 11 17:23	19° \mathbb{M} 50'57	2.64301 AU
	7868 Mar 25 09:50	0° \mathcal{B}			7872 Nov 27 12:23	0° \nearrow	
evening set	7868 Apr 30 06:21	28° \mathcal{B} 01'25		morning rise	7872 Dec 13 11:08	10° \nearrow 10'13	
	7868 May 02 18:23	0° \mathbb{I}			7873 Jan 13 21:03	0° \mathcal{Z}	
	7868 Jun 09 15:29	0° \mathcal{E}		desc. node	7873 Mar 01 17:42	29° \mathcal{Z} 09'42	
asc. node	7868 Jun 10 09:56	0° \mathcal{E} 36'27			7873 Mar 03 02:20	0° \approx	
					7873 Apr 21 11:32	0° \mathbb{H}	
conjunction	7868 Jul 09 18:51	23° \mathcal{E} 38'59	0°20'40		7873 Jun 12 20:35	0° Υ	
minimum elong	7868 Jul 09 16:44	23° \mathcal{E} 34'53	0°20'31		7873 Aug 22 02:31	0° \mathcal{B}	
	7868 Jul 17 23:34	0° \mathcal{O}		retrograde	7873 Sep 12 12:00	2° \mathcal{B} 37'35	
	7868 Aug 26 14:10	0° \mathbb{H}			7873 Oct 03 03:58	30° \mathbb{R} Υ	
max. Earth dist.	7868 Aug 31 12:48	3° \mathbb{H} 39'11	2.41677 AU	opposition	7873 Oct 14 05:40	26° Υ 53'41	-5°52'00
morning rise	7868 Sep 15 16:40	14° \mathbb{H} 43'05		greatest brilliancy	7873 Oct 15 22:32	26° Υ 22'35	-2.6m
	7868 Oct 07 03:00	0° \mathcal{E}		min. Earth dist.	7873 Oct 21 22:24	24° Υ 34'01	0.41697 AU
	7868 Nov 20 01:53	0° \mathbb{M}		direct	7873 Nov 17 08:38	20° Υ 06'06	

	7873 Dec 27 08:07	0°♄			7879 Feb 18 17:58	0°♄	
asc. node	7874 Jan 31 09:30	19°♄09'31			7879 Apr 02 09:47	0°♄	
	7874 Feb 17 04:43	0°♄	morning rise		7879 Apr 05 04:47	2°♄00'46	
	7874 Apr 01 10:34	0°♄			7879 May 13 05:33	0°♄	
	7874 May 13 13:35	0°♄			7879 Jun 21 16:43	0°♄	
	7874 Jun 25 10:25	0°♄			7879 Jul 30 11:20	0°♄	
	7874 Aug 08 17:16	0°♄			7879 Sep 07 10:51	0°♄	
	7874 Sep 23 11:28	0°♄	asc. node		7879 Sep 23 07:14	11°♄57'49	
evening set	7874 Oct 19 14:56	16°♄48'33			7879 Oct 17 19:45	0°♄	
	7874 Nov 09 07:17	0°♄			7879 Nov 30 12:54	0°♄	
					7880 Jan 22 23:55	0°♄	
conjunction	7874 Dec 04 13:02	16°♄02'02 0°22'40	retrograde		7880 Mar 10 16:58	12°♄18'10	
minimum elong	7874 Dec 04 13:42	16°♄03'05 0°22'48	min. Earth dist.		7880 Apr 14 18:53	4°♄16'22 0.61730 AU	
max. Earth dist.	7874 Dec 04 23:22	16°♄18'25 2.68030 AU	opposition		7880 Apr 19 14:53	2°♄21'12 4°16'28	
	7874 Dec 26 13:01	0°♄	greatest brilliancy		7880 Apr 18 21:53	2°♄38'06 -1.6m	
morning rise	7875 Jan 17 09:10	13°♄53'40			7880 Apr 25 16:33	30°♄	
desc. node	7875 Jan 17 15:35	14°♄03'53	direct		7880 May 27 17:29	23°♄30'11	
	7875 Feb 11 13:53	0°♄			7880 Jul 02 11:07	0°♄	
	7875 Mar 30 00:54	0°♄			7880 Sep 06 16:13	0°♄	
	7875 May 14 20:16	0°♄	desc. node		7880 Sep 08 13:10	1°♄00'21	
	7875 Jun 29 05:06	0°♄			7880 Oct 29 05:27	0°♄	
	7875 Aug 13 21:58	0°♄			7880 Dec 16 06:44	0°♄	
	7875 Oct 02 08:52	0°♄			7881 Jan 30 03:13	0°♄	
retrograde	7875 Dec 02 15:03	20°♄12'36	evening set		7881 Feb 09 00:51	6°♄53'07	
asc. node	7875 Dec 19 09:43	18°♄18'48	max. Earth dist.		7881 Feb 22 19:47	16°♄37'49 2.47266 AU	
min. Earth dist.	7875 Dec 29 06:14	15°♄50'39 0.37681 AU			7881 Mar 13 08:12	0°♄	
opposition	7876 Jan 03 00:08	14°♄30'20 1°05'38					
greatest brilliancy	7876 Jan 02 18:20	14°♄34'27 -3.0m	conjunction		7881 Apr 03 01:38	15°♄19'44 -1°05'18	
direct	7876 Feb 01 13:21	9°♄26'20	minimum elong		7881 Apr 03 02:30	15°♄21'20 1°05'19	
	7876 Apr 06 02:18	0°♄			7881 Apr 22 11:25	0°♄	
	7876 May 28 13:40	0°♄			7881 May 31 05:18	0°♄	
	7876 Jul 16 07:38	0°♄	morning rise		7881 Jun 04 04:49	3°♄07'11	
	7876 Sep 02 14:05	0°♄	greatest brilliancy		7881 Jun 23 06:53	18°♄07'32 1.2m	
	7876 Oct 20 18:32	0°♄			7881 Jul 08 08:50	0°♄	
evening set	7876 Nov 24 09:31	21°♄43'12	asc. node		7881 Aug 10 04:06	25°♄39'18	
desc. node	7876 Dec 04 13:50	28°♄09'24			7881 Aug 15 18:53	0°♄	
	7876 Dec 07 11:38	0°♄			7881 Sep 24 09:17	0°♄	
max. Earth dist.	7876 Dec 26 11:44	12°♄06'51 2.66250 AU			7881 Nov 05 04:04	0°♄	
					7881 Dec 20 14:34	0°♄	
conjunction	7877 Jan 07 23:56	20°♄09'29 -0°18'00	retrograde		7882 Feb 12 03:20	0°♄	
minimum elong	7877 Jan 07 23:24	20°♄08'37 0°17'52	min. Earth dist.		7882 Apr 14 16:09	17°♄36'20	
	7877 Jan 23 04:05	0°♄	opposition		7882 May 24 02:57	8°♄10'18 0.67602 AU	
morning rise	7877 Feb 21 07:26	19°♄11'57	greatest brilliancy		7882 May 25 03:41	7°♄45'38 2°06'26	
	7877 Mar 09 10:09	0°♄			7882 May 25 02:10	7°♄47'08 -1.3m	
	7877 Apr 22 02:11	0°♄			7882 Jun 17 09:36	30°♄	
	7877 Jun 03 06:01	0°♄	direct		7882 Jul 04 16:59	28°♄05'18	
	7877 Jul 14 04:37	0°♄			7882 Jul 23 07:31	0°♄	
	7877 Aug 23 13:06	0°♄	desc. node		7882 Jul 27 13:38	0°♄54'34	
	7877 Oct 03 14:16	0°♄			7882 Oct 05 12:44	0°♄	
asc. node	7877 Nov 05 10:00	22°♄26'56			7882 Nov 26 00:43	0°♄	
	7877 Nov 17 09:39	0°♄			7883 Jan 10 19:30	0°♄	
retrograde	7878 Jan 29 11:39	27°♄34'21			7883 Feb 22 01:42	0°♄	
min. Earth dist.	7878 Feb 27 18:15	21°♄36'57 0.49946 AU			7883 Apr 02 22:15	0°♄	
greatest brilliancy	7878 Mar 06 09:31	19°♄10'37 -2.1m	evening set		7883 Apr 04 07:10	1°♄03'22	
opposition	7878 Mar 07 21:48	18°♄37'00 5°15'09			7883 May 11 08:05	0°♄	
direct	7878 Apr 11 02:23	11°♄17'21					
	7878 Jun 14 12:47	0°♄	conjunction		7883 Jun 10 07:24	23°♄43'46 -0°12'49	
	7878 Aug 10 13:28	0°♄	minimum elong		7883 Jun 10 08:48	23°♄46'31 0°12'55	
	7878 Sep 30 23:56	0°♄	behind sun begin		7883 Jun 09 14:17	23°♄09'52	
desc. node	7878 Oct 22 13:01	13°♄01'30	behind sun end		7883 Jun 11 03:18	24°♄23'10	
	7878 Nov 19 00:47	0°♄			7883 Jun 18 05:32	0°♄	
evening set	7878 Dec 30 19:33	26°♄37'58	asc. node		7883 Jun 28 03:20	7°♄49'12	
	7879 Jan 04 23:24	0°♄	max. Earth dist.		7883 Jul 11 04:49	18°♄04'34 2.36914 AU	
max. Earth dist.	7879 Jan 20 15:22	10°♄19'51 2.59096 AU			7883 Jul 26 12:31	0°♄	
			morning rise		7883 Aug 21 18:35	20°♄04'06	
conjunction	7879 Feb 15 04:35	27°♄33'45 -0°54'09			7883 Sep 04 01:01	0°♄	
minimum elong	7879 Feb 15 03:21	27°♄31'38 0°54'03			7883 Oct 15 12:16	0°♄	

	7883 Nov 28 14:04	0°♄			7889 Mar 02 22:26	0°♄	
	7884 Jan 15 05:35	0°♂			7889 Apr 12 11:51	0°♄	
	7884 Mar 09 23:33	0°♂			7889 May 23 02:13	0°♄	
retrograde	7884 May 18 04:51	20°♂23'14			7889 Jul 03 21:12	0°♄	
desc. node	7884 Jun 13 13:13	16°♂00'32			7889 Aug 16 08:49	0°♄	
opposition	7884 Jun 26 23:28	11°♂05'43	-0°28'10		7889 Sep 30 13:38	0°♄	
greatest brilliancy	7884 Jun 27 00:26	11°♂04'47	-1.4m	evening set	7889 Oct 04 04:15	2°♄21'15	
min. Earth dist.	7884 Jun 29 17:50	10°♂00'33	0.66907 AU		7889 Nov 16 01:53	0°♂	
direct	7884 Aug 07 12:59	1°♂03'18					
	7884 Oct 31 03:04	0°♂		conjunction	7889 Nov 20 11:25	2°♂48'23	0°37'04
	7884 Dec 19 11:02	0°♂		minimum elong	7889 Nov 20 12:27	2°♂50'01	0°37'10
	7885 Jan 31 16:20	0°♂		max. Earth dist.	7889 Nov 26 07:00	6°♂30'47	2.67230 AU
	7885 Mar 12 18:00	0°♂			7890 Jan 02 06:55	0°♂	
greatest brilliancy	7885 Apr 19 17:39	29°♂38'57	1.2m	morning rise	7890 Jan 03 23:15	1°♂03'54	
	7885 Apr 20 04:19	0°♄		desc. node	7890 Feb 03 05:41	20°♂13'57	
asc. node	7885 May 15 02:15	19°♄42'12			7890 Feb 18 15:43	0°♂	
	7885 May 28 03:05	0°♄			7890 Apr 06 22:26	0°♂	
evening set	7885 Jun 15 11:34	14°♄24'22			7890 May 24 07:49	0°♂	
	7885 Jul 05 14:13	0°♄			7890 Jul 11 16:50	0°♂	
	7885 Aug 14 09:11	0°♄			7890 Sep 02 20:58	0°♄	
				retrograde	7890 Nov 01 08:58	17°♄53'02	
conjunction	7885 Aug 21 06:31	5°♄03'42	0°56'54	opposition	7890 Dec 01 05:20	12°♄57'19	-2°38'33
minimum elong	7885 Aug 21 04:11	4°♄59'27	0°56'49	greatest brilliancy	7890 Dec 01 10:54	12°♄53'39	-3.0m
	7885 Sep 25 01:53	0°♄		min. Earth dist.	7890 Dec 02 02:09	12°♄43'35	0.36747 AU
max. Earth dist.	7885 Oct 02 12:17	5°♄11'19	2.50220 AU	direct	7890 Dec 30 21:18	7°♄58'54	
morning rise	7885 Oct 18 18:31	16°♄22'42		asc. node	7891 Jan 05 03:12	8°♄10'04	
	7885 Nov 08 00:04	0°♄			7891 Mar 06 05:19	0°♄	
	7885 Dec 24 07:21	0°♂			7891 Apr 24 16:47	0°♄	
	7886 Feb 11 10:56	0°♂			7891 Jun 09 22:53	0°♄	
	7886 Apr 06 22:48	0°♂			7891 Jul 26 05:37	0°♄	
desc. node	7886 May 01 10:55	11°♂24'58			7891 Sep 11 05:34	0°♄	
retrograde	7886 Jun 26 09:54	25°♂29'43			7891 Oct 28 18:02	0°♂	
opposition	7886 Aug 03 02:31	17°♂10'09	-3°18'27	evening set	7891 Nov 11 10:04	8°♂37'02	
greatest brilliancy	7886 Aug 03 19:36	16°♂53'59	-1.6m		7891 Dec 15 04:58	0°♂	
min. Earth dist.	7886 Aug 09 12:31	14°♂44'24	0.59708 AU	max. Earth dist.	7891 Dec 18 13:42	2°♂08'21	2.67593 AU
direct	7886 Sep 12 22:01	7°♂21'24		desc. node	7891 Dec 22 03:11	4°♂24'24	
	7886 Nov 20 22:51	0°♂					
	7887 Jan 08 01:06	0°♂		conjunction	7891 Dec 26 04:52	7°♂00'04	-0°02'11
	7887 Feb 18 14:42	0°♂		minimum elong	7891 Dec 26 04:45	6°♂59'54	0°02'03
	7887 Mar 29 17:29	0°♄		behind sun begin	7891 Dec 25 10:27	6°♂30'43	
asc. node	7887 Apr 02 01:41	2°♄36'07		behind sun end	7891 Dec 26 23:04	7°♂29'05	
	7887 May 07 04:36	0°♄			7892 Jan 30 23:11	0°♂	
	7887 Jun 15 04:58	0°♄		morning rise	7892 Feb 07 22:32	5°♂11'07	
	7887 Jul 25 14:56	0°♄			7892 Mar 16 14:02	0°♂	
evening set	7887 Aug 19 09:37	17°♄44'39			7892 Apr 29 21:32	0°♂	
	7887 Sep 05 22:16	0°♄			7892 Jun 11 22:29	0°♂	
					7892 Jul 23 23:39	0°♄	
conjunction	7887 Oct 12 11:03	24°♄49'17	1°03'55		7892 Sep 03 19:22	0°♄	
minimum elong	7887 Oct 12 11:55	24°♄50'43	1°03'58		7892 Oct 17 13:09	0°♄	
	7887 Oct 20 05:58	0°♄		asc. node	7892 Nov 22 01:58	20°♄51'14	
max. Earth dist.	7887 Nov 02 19:20	8°♄55'58	2.61350 AU		7892 Dec 13 08:04	0°♄	
morning rise	7887 Nov 30 02:59	26°♄38'38		retrograde	7893 Jan 09 13:31	4°♄59'28	
	7887 Dec 05 08:41	0°♂			7893 Feb 05 10:31	30°♄00'	
	7888 Jan 21 23:01	0°♂		min. Earth dist.	7893 Feb 05 14:20	29°♄56'52	0.44480 AU
	7888 Mar 11 01:24	0°♂		greatest brilliancy	7893 Feb 12 14:41	27°♄34'05	-2.5m
desc. node	7888 Mar 18 08:08	4°♂20'52		opposition	7893 Feb 14 01:47	27°♄04'02	4°39'41
	7888 May 01 20:04	0°♂		direct	7893 Mar 18 06:56	20°♄37'12	
	7888 Jul 02 11:03	0°♂			7893 Apr 29 05:50	0°♄	
retrograde	7888 Aug 16 11:02	9°♂57'37			7893 Jun 28 23:30	0°♄	
opposition	7888 Sep 19 07:04	3°♂19'21	-5°47'33		7893 Aug 19 20:08	0°♄	
greatest brilliancy	7888 Sep 21 01:41	2°♂43'23	-2.3m		7893 Oct 08 14:37	0°♂	
min. Earth dist.	7888 Sep 27 23:13	0°♂25'07	0.47030 AU	desc. node	7893 Nov 08 02:15	18°♂47'46	
	7888 Sep 29 06:35	30°♂00'			7893 Nov 25 23:49	0°♂	
direct	7888 Oct 26 06:04	25°♂11'29		evening set	7893 Dec 16 09:25	12°♂56'35	
	7888 Nov 22 13:41	0°♂		max. Earth dist.	7894 Jan 10 10:15	29°♂07'06	2.62517 AU
	7889 Jan 18 22:00	0°♂			7894 Jan 11 18:37	0°♂	
asc. node	7889 Feb 17 02:53	20°♂02'05					

conjunction	7894 Jan 30 15:49	12° \approx 27'24	-0°41'38	retrograde	7899 May 05 12:41	7° \approx 49'44	
minimum elong	7894 Jan 30 14:42	12° \approx 25'31	0°41'31		7899 Jun 10 07:55	30° \approx 16'35	0°33'48
	7894 Feb 25 16:32	0° \approx		opposition	7899 Jun 14 17:18	28° \approx 15'44	-1.3m
morning rise	7894 Mar 18 03:28	14° \approx 06'38		greatest brilliancy	7899 Jun 14 18:09	27° \approx 46'23	0.67981 AU
	7894 Apr 09 16:25	0° \approx		min. Earth dist.	7899 Jun 15 23:49	22° \approx 16'19	
	7894 May 20 22:28	0° \approx		desc. node	7899 Jul 01 02:48	18° \approx 19'33	
	7894 Jun 29 20:23	0° \approx		direct	7899 Jul 26 01:42	0° \approx	
	7894 Aug 08 01:12	0° \approx			7899 Sep 13 19:06	0° \approx	
	7894 Sep 16 11:45	0° \approx			7899 Nov 11 12:42	0° \approx	
asc. node	7894 Oct 10 00:17	17° \approx 23'44			7899 Dec 28 21:48	0° \approx	
	7894 Oct 27 15:39	0° \approx			7900 Feb 09 14:37	0° \approx	
	7894 Dec 12 17:36	0° \approx			7900 Mar 21 12:39	0° \approx	
retrograde	7895 Feb 24 20:33	26° \approx 47'14			7900 Apr 28 21:36	0° \approx	
min. Earth dist.	7895 Mar 29 20:11	19° \approx 28'31	0.57742 AU	evening set	7900 May 17 15:53	14° \approx 51'39	
greatest brilliancy	7895 Apr 04 01:22	17° \approx 26'07	-1.7m	asc. node	7900 Jun 01 18:57	26° \approx 50'40	
opposition	7895 Apr 05 02:50	17° \approx 01'09	4°53'44		7900 Jun 05 18:43	0° \approx	
direct	7895 May 11 20:46	8° \approx 39'17			7900 Jul 14 02:55	0° \approx	
	7895 Jul 22 09:13	0° \approx					
	7895 Sep 17 03:04	0° \approx		conjunction	7900 Jul 27 03:37	9° \approx 59'51	0°37'01
desc. node	7895 Sep 26 02:49	5° \approx 08'44		minimum elong	7900 Jul 27 00:36	9° \approx 54'05	0°36'53
	7895 Nov 06 20:45	0° \approx			7900 Aug 22 17:59	0° \approx	
	7895 Dec 24 08:40	0° \approx		max. Earth dist.	7900 Sep 15 17:19	17° \approx 30'13	2.44766 AU
evening set	7896 Jan 24 00:15	20° \approx 21'00		morning rise	7900 Sep 29 14:53	27° \approx 24'47	
	7896 Feb 07 03:09	0° \approx			7900 Oct 03 06:56	0° \approx	
max. Earth dist.	7896 Feb 08 13:25	0° \approx 59'07	2.52348 AU		7900 Nov 16 04:00	0° \approx	
					7901 Jan 01 18:21	0° \approx	
conjunction	7896 Mar 13 14:54	25° \approx 01'51	-1°06'08		7901 Feb 21 04:25	0° \approx	
minimum elong	7896 Mar 13 14:25	25° \approx 00'58	1°06'07		7901 Apr 22 18:05	0° \approx	
	7896 Mar 20 11:39	0° \approx		desc. node	7901 May 19 01:15	8° \approx 31'47	
	7896 Apr 29 20:30	0° \approx		retrograde	7901 Jun 11 05:21	11° \approx 25'59	
morning rise	7896 May 08 07:13	6° \approx 25'34		opposition	7901 Jul 19 22:05	2° \approx 39'56	-2°11'18
	7896 Jun 07 20:16	0° \approx		greatest brilliancy	7901 Jul 20 06:39	2° \approx 31'40	-1.5m
	7896 Jul 16 04:31	0° \approx		min. Earth dist.	7901 Jul 24 22:21	0° \approx 43'55	0.63296 AU
	7896 Aug 23 17:55	0° \approx			7901 Jul 26 20:33	30° \approx 39'46	
asc. node	7896 Aug 26 21:53	2° \approx 25'57		direct	7901 Aug 30 06:50	22° \approx 39'46	
	7896 Oct 02 12:04	0° \approx			7901 Oct 06 04:40	0° \approx	
	7896 Nov 13 16:03	0° \approx			7901 Dec 04 12:23	0° \approx	
	7896 Dec 30 11:43	0° \approx			7902 Jan 18 16:48	0° \approx	
	7897 Mar 03 19:07	0° \approx			7902 Feb 28 10:11	0° \approx	
retrograde	7897 Apr 01 09:48	4° \approx 40'03			7902 Apr 08 03:39	0° \approx	
	7897 Apr 27 21:06	30° \approx 16'44		asc. node	7902 Apr 19 19:29	9° \approx 09'38	
min. Earth dist.	7897 May 09 07:07	25° \approx 43'19	0.66080 AU		7902 May 16 07:52	0° \approx	
opposition	7897 May 11 19:55	24° \approx 42'34	3°00'39		7902 Jun 24 01:03	0° \approx	
greatest brilliancy	7897 May 11 13:49	24° \approx 48'40	-1.4m	evening set	7902 Jul 28 16:12	25° \approx 59'31	
direct	7897 Jun 20 14:21	15° \approx 17'58			7902 Aug 03 03:12	0° \approx	
desc. node	7897 Aug 13 03:12	28° \approx 16'44			7902 Sep 14 02:59	0° \approx	
	7897 Aug 17 05:39	0° \approx					
	7897 Oct 15 05:18	0° \approx		conjunction	7902 Sep 25 04:30	7° \approx 39'51	1°07'03
	7897 Dec 03 21:44	0° \approx		minimum elong	7902 Sep 25 04:30	7° \approx 39'52	1°07'04
	7898 Jan 18 04:50	0° \approx		max. Earth dist.	7902 Oct 24 03:11	27° \approx 17'02	2.57557 AU
	7898 Mar 01 09:25	0° \approx			7902 Oct 28 05:03	0° \approx	
evening set	7898 Mar 11 21:02	7° \approx 44'24		morning rise	7902 Nov 15 20:22	12° \approx 17'05	
max. Earth dist.	7898 Apr 03 00:34	24° \approx 24'59	2.39147 AU		7902 Dec 13 07:04	0° \approx	
	7898 Apr 10 07:43	0° \approx			7903 Jan 30 06:46	0° \approx	
					7903 Mar 21 16:37	0° \approx	
conjunction	7898 May 11 23:13	24° \approx 36'08	-0°42'23	desc. node	7903 Apr 05 22:22	8° \approx 37'37	
minimum elong	7898 May 12 02:18	24° \approx 42'11	0°42'27		7903 May 16 20:43	0° \approx	
	7898 May 18 19:57	0° \approx		retrograde	7903 Jul 26 21:39	21° \approx 02'30	
	7898 Jun 25 19:00	0° \approx		opposition	7903 Aug 31 11:10	13° \approx 37'47	-4°59'59
asc. node	7898 Jul 14 18:56	14° \approx 57'24		greatest brilliancy	7903 Sep 01 21:05	13° \approx 07'15	-2.0m
morning rise	7898 Jul 22 21:00	21° \approx 16'57		min. Earth dist.	7903 Sep 08 15:37	10° \approx 41'52	0.52441 AU
	7898 Aug 03 02:07	0° \approx		direct	7903 Oct 09 10:40	4° \approx 34'21	
	7898 Sep 11 13:55	0° \approx			7903 Dec 19 16:28	0° \approx	
	7898 Oct 23 01:32	0° \approx			7904 Feb 03 03:17	0° \approx	
	7898 Dec 06 09:52	0° \approx		asc. node	7904 Mar 06 18:56	24° \approx 00'30	
	7899 Jan 24 06:28	0° \approx			7904 Mar 14 17:30	0° \approx	
	7899 Mar 27 06:38	0° \approx			7904 Apr 23 02:14	0° \approx	

	7904 Jun 01 20:14	0°♏		morning rise	7909 Mar 02 22:43	28°♏08'41	
	7904 Jul 12 22:22	0°♎			7909 Mar 05 16:29	0°♎	
	7904 Aug 24 20:03	0°♍			7909 Apr 18 02:26	0°♎	
evening set	7904 Sep 18 10:11	16°♍37'24			7909 May 29 21:40	0°♎	
	7904 Oct 08 14:21	0°♌			7909 Jul 09 10:07	0°♌	
					7909 Aug 18 06:26	0°♌	
conjunction	7904 Nov 06 17:49	18°♌59'12	0°49'44		7909 Sep 27 12:42	0°♌	
minimum elong	7904 Nov 06 19:02	19°♌01'10	0°49'49	asc. node	7909 Oct 27 17:13	21°♌28'59	
max. Earth dist.	7904 Nov 18 04:07	26°♌20'42	2.65566 AU		7909 Nov 09 08:37	0°♌	
	7904 Nov 23 20:56	0°♌			7910 Jan 01 16:55	0°♌	
morning rise	7904 Dec 22 09:41	18°♌09'51		retrograde	7910 Feb 09 13:45	9°♌12'26	
	7905 Jan 10 03:18	0°♌		min. Earth dist.	7910 Mar 12 05:38	2°♌43'57	0.52911 AU
desc. node	7905 Feb 20 19:35	26°♌09'06		greatest brilliancy	7910 Mar 18 09:43	0°♌23'44	-2.0m
	7905 Feb 26 23:34	0°♌		opposition	7910 Mar 19 19:03	29°♌51'59	5°15'15
	7905 Apr 16 10:38	0°♎			7910 Mar 19 10:37	30°♎♎	
	7905 Jun 05 10:02	0°♎		direct	7910 Apr 23 22:30	22°♎07'28	
	7905 Jul 30 21:41	0°♎			7910 Jun 01 21:28	0°♌	
retrograde	7905 Sep 30 15:56	17°♎51'22			7910 Aug 04 18:24	0°♌	
opposition	7905 Oct 31 07:22	12°♎34'53	-5°16'10		7910 Sep 26 14:47	0°♌	
greatest brilliancy	7905 Nov 01 14:50	12°♎12'20	-2.8m	desc. node	7910 Oct 13 16:14	10°♌08'54	
min. Earth dist.	7905 Nov 06 07:50	10°♎51'48	0.39235 AU		7910 Nov 15 04:27	0°♌	
direct	7905 Dec 02 16:52	6°♎34'55			7911 Jan 01 07:47	0°♌	
asc. node	7906 Jan 22 18:51	21°♎48'50		evening set	7911 Jan 09 06:56	5°♌13'24	
	7906 Feb 06 15:45	0°♌		max. Earth dist.	7911 Jan 28 01:16	17°♌42'58	2.56900 AU
	7906 Mar 25 09:48	0°♌			7911 Feb 15 02:39	0°♎	
	7906 May 07 23:17	0°♏					
	7906 Jun 20 16:04	0°♎		conjunction	7911 Feb 25 13:48	7°♎14'13	-0°59'56
	7906 Aug 04 11:58	0°♌		minimum elong	7911 Feb 25 12:40	7°♎12'16	0°59'52
	7906 Sep 19 14:42	0°♌			7911 Mar 29 16:15	0°♎	
evening set	7906 Oct 29 01:42	25°♌11'44		morning rise	7911 Apr 17 12:25	13°♎44'49	
	7906 Nov 05 15:18	0°♌			7911 May 09 08:07	0°♎	
max. Earth dist.	7906 Dec 10 23:41	22°♌24'57	2.68101 AU		7911 Jun 17 14:51	0°♌	
					7911 Jul 26 05:04	0°♌	
conjunction	7906 Dec 13 11:09	23°♌59'16	0°13'42		7911 Sep 02 23:34	0°♏	
minimum elong	7906 Dec 13 11:33	23°♌59'56	0°13'49	asc. node	7911 Sep 14 14:50	8°♏51'30	
behind sun begin	7906 Dec 13 02:13	23°♌45'07			7911 Oct 13 00:40	0°♎	
behind sun end	7906 Dec 13 20:54	24°♌14'44			7911 Nov 24 22:23	0°♌	
	7906 Dec 22 22:18	0°♌			7912 Jan 13 15:11	0°♌	
desc. node	7907 Jan 08 18:04	10°♌42'49		retrograde	7912 Mar 19 18:46	21°♌03'05	
morning rise	7907 Jan 26 03:23	21°♌50'12		min. Earth dist.	7912 Apr 24 22:23	12°♌40'08	0.63567 AU
	7907 Feb 07 20:11	0°♌		opposition	7912 Apr 28 22:58	11°♌03'51	3°50'31
	7907 Mar 25 23:03	0°♎		greatest brilliancy	7912 Apr 28 10:19	11°♌16'28	-1.5m
	7907 May 10 03:42	0°♎		direct	7912 Jun 06 17:25	1°♌59'27	
	7907 Jun 23 12:03	0°♎		desc. node	7912 Aug 30 16:49	29°♌34'04	
	7907 Aug 06 10:41	0°♌			7912 Aug 31 13:19	0°♌	
	7907 Sep 20 12:00	0°♌			7912 Oct 24 19:15	0°♌	
	7907 Nov 13 23:05	0°♏			7912 Dec 12 09:09	0°♌	
asc. node	7907 Dec 10 19:44	7°♏21'56			7913 Jan 26 09:37	0°♎	
retrograde	7907 Dec 18 21:17	7°♏50'02		evening set	7913 Feb 20 11:14	17°♎35'51	
min. Earth dist.	7908 Jan 13 23:02	3°♏25'28	0.39583 AU	max. Earth dist.	7913 Mar 06 21:37	28°♎00'35	2.44342 AU
opposition	7908 Jan 20 19:58	1°♏20'36	2°50'02		7913 Mar 09 15:04	0°♎	
greatest brilliancy	7908 Jan 20 00:30	1°♏35'23	-2.8m				
	7908 Jan 25 08:45	30°♎♎		conjunction	7913 Apr 16 23:02	28°♎39'54	-1°00'30
direct	7908 Feb 20 00:58	25°♎51'16		minimum elong	7913 Apr 17 00:53	28°♎43'27	1°00'33
	7908 Mar 17 07:51	0°♏			7913 Apr 18 16:58	0°♎	
	7908 May 20 22:48	0°♎			7913 May 27 09:00	0°♌	
	7908 Jul 11 00:39	0°♌		morning rise	7913 Jun 22 01:40	20°♌14'12	
	7908 Aug 29 06:19	0°♌			7913 Jul 04 10:46	0°♌	
	7908 Oct 16 22:03	0°♌		asc. node	7913 Aug 01 13:47	22°♌03'55	
desc. node	7908 Nov 25 16:29	24°♌50'46			7913 Aug 11 18:59	0°♏	
evening set	7908 Dec 03 08:10	29°♌40'47			7913 Sep 20 07:05	0°♎	
	7908 Dec 03 20:19	0°♌			7913 Oct 31 21:08	0°♌	
max. Earth dist.	7909 Jan 01 18:37	18°♌28'04	2.65140 AU		7913 Dec 15 17:33	0°♌	
					7914 Feb 04 18:53	0°♌	
conjunction	7909 Jan 17 01:15	28°♌21'50	-0°27'03	retrograde	7914 Apr 23 06:06	25°♌21'21	
minimum elong	7909 Jan 17 00:28	28°♌20'33	0°26'55	opposition	7914 Jun 02 16:14	15°♌35'45	1°33'03
	7909 Jan 19 13:29	0°♌		min. Earth dist.	7914 Jun 02 10:54	15°♌41'04	0.68020 AU

greatest brilliancy	7914 Jun 02 16:16	15° \mathbb{A} 35'43	-1.3m	evening set	7919 Aug 31 21:40	29° \mathbb{M} 08'51	
direct	7914 Jul 13 13:44	5° \mathbb{A} 48'25			7919 Sep 02 03:16	0° \mathbb{L}	
desc. node	7914 Jul 18 16:39	5° \mathbb{A} 57'43			7919 Oct 16 13:24	0° \mathbb{M}	
	7914 Sep 29 04:04	0° \mathbb{Z}					
	7914 Nov 21 11:48	0° \approx		conjunction	7919 Oct 23 00:11	4° \mathbb{M} 15'18	0°59'46
	7915 Jan 06 18:39	0° \mathbb{H}		minimum elong	7919 Oct 23 01:18	4° \mathbb{M} 17'08	0°59'51
	7915 Feb 18 04:45	0° \mathbb{Y}		max. Earth dist.	7919 Nov 09 14:57	15° \mathbb{M} 46'20	2.63080 AU
	7915 Mar 30 02:01	0° \mathbb{B}			7919 Dec 01 16:29	0° \mathbb{A}	
evening set	7915 Apr 20 00:41	16° \mathbb{B} 16'02		morning rise	7919 Dec 09 09:47	4° \mathbb{A} 56'06	
	7915 May 07 11:36	0° \mathbb{I}			7920 Jan 18 02:42	0° \mathbb{Z}	
	7915 Jun 14 08:51	0° \mathbb{G}			7920 Mar 06 15:36	0° \approx	
asc. node	7915 Jun 19 12:06	4° \mathbb{G} 03'26		desc. node	7920 Mar 09 10:52	1° \approx 42'28	
					7920 Apr 25 21:20	0° \mathbb{H}	
conjunction	7915 Jun 28 12:05	11° \mathbb{G} 08'57	0°06'30		7920 Jun 19 21:52	0° \mathbb{Y}	
minimum elong	7915 Jun 28 11:22	11° \mathbb{G} 07'33	0°06'22	retrograde	7920 Sep 01 02:44	22° \mathbb{Y} 42'32	
behind sun begin	7915 Jun 27 06:59	10° \mathbb{G} 11'46		opposition	7920 Oct 03 19:22	16° \mathbb{Y} 34'08	-5°57'42
behind sun end	7915 Jun 29 15:44	12° \mathbb{G} 03'17		greatest brilliancy	7920 Oct 05 15:04	15° \mathbb{Y} 59'10	-2.5m
	7915 Jul 22 15:47	0° \mathbb{Q}		min. Earth dist.	7920 Oct 12 05:10	13° \mathbb{Y} 53'56	0.44000 AU
max. Earth dist.	7915 Aug 18 15:46	20° \mathbb{Q} 37'39	2.39276 AU	direct	7920 Nov 08 07:14	9° \mathbb{Y} 08'23	
	7915 Aug 31 04:20	0° \mathbb{M}			7921 Jan 08 17:51	0° \mathbb{B}	
morning rise	7915 Sep 06 21:31	4° \mathbb{M} 58'06		asc. node	7921 Feb 08 11:29	19° \mathbb{B} 16'42	
	7915 Oct 11 14:58	0° \mathbb{L}			7921 Feb 24 02:29	0° \mathbb{I}	
	7915 Nov 24 13:00	0° \mathbb{M}			7921 Apr 06 21:22	0° \mathbb{G}	
	7916 Jan 10 15:36	0° \mathbb{A}			7921 May 18 05:04	0° \mathbb{Q}	
	7916 Mar 03 04:51	0° \mathbb{Z}			7921 Jun 29 12:01	0° \mathbb{M}	
retrograde	7916 May 27 07:40	28° \mathbb{Z} 12'39			7921 Aug 12 08:34	0° \mathbb{L}	
desc. node	7916 Jun 04 15:11	27° \mathbb{Z} 46'43			7921 Sep 26 19:23	0° \mathbb{M}	
opposition	7916 Jul 05 18:11	19° \mathbb{Z} 05'05	-1°05'36	evening set	7921 Oct 14 02:16	11° \mathbb{M} 11'11	
greatest brilliancy	7916 Jul 05 21:06	19° \mathbb{Z} 02'15	-1.4m		7921 Nov 12 11:00	0° \mathbb{A}	
min. Earth dist.	7916 Jul 09 07:32	17° \mathbb{Z} 41'40	0.65901 AU				
direct	7916 Aug 16 07:48	9° \mathbb{Z} 01'42		conjunction	7921 Nov 29 13:28	10° \mathbb{A} 53'09	0°28'49
	7916 Oct 24 02:35	0° \approx		minimum elong	7921 Nov 29 14:18	10° \mathbb{A} 54'29	0°28'56
	7916 Dec 14 14:12	0° \mathbb{H}		max. Earth dist.	7921 Dec 02 10:01	12° \mathbb{A} 42'03	2.67778 AU
	7917 Jan 27 09:16	0° \mathbb{Y}			7921 Dec 29 16:06	0° \mathbb{Z}	
	7917 Mar 08 15:45	0° \mathbb{B}		morning rise	7922 Jan 12 15:08	8° \mathbb{Z} 51'46	
	7917 Apr 16 04:04	0° \mathbb{I}		desc. node	7922 Jan 25 08:19	16° \mathbb{Z} 56'32	
asc. node	7917 May 06 11:00	16° \mathbb{I} 01'17			7922 Feb 14 20:16	0° \approx	
	7917 May 24 04:11	0° \mathbb{G}			7922 Apr 02 15:38	0° \mathbb{H}	
	7917 Jul 01 16:36	0° \mathbb{Q}			7922 May 19 02:14	0° \mathbb{Y}	
evening set	7917 Jul 02 13:41	0° \mathbb{Q} 40'29			7922 Jul 04 13:08	0° \mathbb{B}	
	7917 Aug 10 13:06	0° \mathbb{M}			7922 Aug 21 10:15	0° \mathbb{I}	
					7922 Oct 18 17:15	0° \mathbb{G}	
conjunction	7917 Sep 04 09:44	18° \mathbb{M} 02'28	1°03'15	retrograde	7922 Nov 20 13:07	6° \mathbb{G} 34'00	
minimum elong	7917 Sep 04 08:18	17° \mathbb{M} 59'55	1°03'12	min. Earth dist.	7922 Dec 18 11:45	2° \mathbb{G} 00'09	0.36812 AU
	7917 Sep 21 07:18	0° \mathbb{L}		opposition	7922 Dec 20 21:32	1° \mathbb{G} 21'15	-0°30'23
max. Earth dist.	7917 Oct 11 19:00	14° \mathbb{L} 10'51	2.53029 AU	greatest brilliancy	7922 Dec 20 21:08	1° \mathbb{G} 21'31	-3.1m
morning rise	7917 Oct 30 02:40	26° \mathbb{L} 34'48			7922 Dec 25 23:56	30° \mathbb{R} \mathbb{I}	
	7917 Nov 04 05:33	0° \mathbb{M}		asc. node	7922 Dec 27 11:05	29° \mathbb{I} 37'41	
	7917 Dec 20 09:19	0° \mathbb{A}		direct	7923 Jan 19 04:57	26° \mathbb{I} 28'15	
	7918 Feb 06 23:32	0° \mathbb{Z}			7923 Feb 11 20:38	0° \mathbb{G}	
	7918 Mar 31 11:34	0° \approx			7923 Apr 16 02:00	0° \mathbb{Q}	
desc. node	7918 Apr 22 13:16	11° \approx 20'57			7923 Jun 04 00:43	0° \mathbb{M}	
	7918 Jun 07 19:17	0° \mathbb{H}			7923 Jul 21 12:19	0° \mathbb{L}	
retrograde	7918 Jul 07 10:28	4° \mathbb{H} 35'15			7923 Sep 07 03:30	0° \mathbb{M}	
	7918 Aug 03 15:15	30° \mathbb{R} \approx			7923 Oct 25 00:13	0° \mathbb{A}	
opposition	7918 Aug 13 10:45	26° \approx 32'54	-3°57'03	evening set	7923 Nov 20 10:22	16° \mathbb{A} 36'23	
greatest brilliancy	7918 Aug 14 09:35	26° \approx 11'34	-1.7m		7923 Dec 11 14:42	0° \mathbb{Z}	
min. Earth dist.	7918 Aug 20 13:15	23° \approx 53'52	0.57350 AU	desc. node	7923 Dec 13 06:18	1° \mathbb{Z} 02'52	
direct	7918 Sep 22 18:07	16° \approx 55'41		max. Earth dist.	7923 Dec 24 16:40	8° \mathbb{Z} 19'43	2.66958 AU
	7918 Nov 11 04:18	0° \mathbb{H}					
	7919 Jan 02 04:34	0° \mathbb{Y}		conjunction	7924 Jan 04 01:20	14° \mathbb{Z} 57'30	-0°11'28
	7919 Feb 13 16:27	0° \mathbb{B}		minimum elong	7924 Jan 04 00:59	14° \mathbb{Z} 56'57	0°11'20
asc. node	7919 Mar 24 11:48	29° \mathbb{B} 27'37		behind sun begin	7924 Jan 03 11:43	14° \mathbb{Z} 35'40	
	7919 Mar 25 04:35	0° \mathbb{I}		behind sun end	7924 Jan 04 14:16	15° \mathbb{Z} 18'13	
	7919 May 02 21:29	0° \mathbb{G}			7924 Jan 27 08:19	0° \approx	
	7919 Jun 11 02:20	0° \mathbb{Q}		morning rise	7924 Feb 17 00:48	13° \approx 32'29	
	7919 Jul 21 16:17	0° \mathbb{M}			7924 Mar 12 18:53	0° \mathbb{H}	

	7924 Apr 25 18:15	0°♈	direct	7929 Jun 29 18:03	23°♌10'27	
	7924 Jun 07 07:30	0°♉	desc. node	7929 Aug 04 06:00	29°♌30'27	
	7924 Jul 18 17:00	0°♊		7929 Aug 05 18:24	0°♈	
	7924 Aug 28 14:32	0°♋		7929 Oct 09 22:42	0°♎	
	7924 Oct 09 11:37	0°♌		7929 Nov 29 16:24	0°♏	
asc. node	7924 Nov 13 11:28	22°♌52'43		7930 Jan 14 07:42	0°♐	
	7924 Nov 25 19:15	0°♍		7930 Feb 25 14:42	0°♑	
retrograde	7925 Jan 22 05:59	18°♍43'59	evening set	7930 Mar 25 15:44	20°♑55'17	
min. Earth dist.	7925 Feb 19 11:12	13°♍11'21 0.47489 AU		7930 Apr 06 13:04	0°♒	
greatest brilliancy	7925 Feb 26 08:10	10°♍44'18 -2.3m	max. Earth dist.	7930 May 06 09:32	23°♒12'56 2.36991 AU	
opposition	7925 Feb 27 21:21	10°♍10'50 5°07'23		7930 May 15 00:22	0°♓	
direct	7925 Apr 02 05:27	3°♍13'36				
	7925 Jun 21 11:05	0°♎	conjunction	7930 May 29 02:46	11°♓08'29 -0°26'44	
	7925 Aug 14 19:51	0°♏	minimum elong	7930 May 29 05:21	11°♓13'35 0°26'50	
	7925 Oct 04 11:44	0°♐		7930 Jun 21 22:27	0°♋	
desc. node	7925 Oct 30 05:19	15°♐41'41	asc. node	7930 Jul 06 04:47	11°♋15'08	
	7925 Nov 22 06:06	0°♑		7930 Jul 30 04:48	0°♌	
evening set	7925 Dec 25 13:26	21°♑10'17	morning rise	7930 Aug 10 02:21	8°♌24'19	
	7926 Jan 08 03:48	0°♒		7930 Sep 07 15:41	0°♍	
max. Earth dist.	7926 Jan 17 05:53	5°♒57'48 2.60727 AU		7930 Oct 19 01:27	0°♎	
				7930 Dec 02 03:35	0°♏	
conjunction	7926 Feb 09 08:36	21°♒22'59 -0°49'14		7931 Jan 19 03:11	0°♐	
minimum elong	7926 Feb 09 07:23	21°♒20'56 0°49'08		7931 Mar 16 19:40	0°♑	
	7926 Feb 22 00:52	0°♒	retrograde	7931 May 14 07:40	15°♑30'27	
morning rise	7926 Mar 29 02:18	24°♒26'46	desc. node	7931 Jun 22 05:41	6°♑30'12	
	7926 Apr 05 21:12	0°♓	opposition	7931 Jun 23 06:52	6°♑05'24 -0°02'11	
	7926 May 16 22:18	0°♈	greatest brilliancy	7931 Jun 23 07:00	6°♑05'16 -1.3m	
	7926 Jun 25 14:31	0°♉	min. Earth dist.	7931 Jun 25 08:48	5°♑16'10 0.67510 AU	
	7926 Aug 03 13:34	0°♊		7931 Jul 09 22:57	30°♒♈	
	7926 Sep 11 16:51	0°♋	direct	7931 Aug 03 18:31	26°♒04'58	
asc. node	7926 Oct 01 09:11	14°♋45'09		7931 Aug 30 17:40	0°♎	
	7926 Oct 22 07:13	0°♌		7931 Nov 05 22:44	0°♏	
	7926 Dec 05 16:25	0°♍		7931 Dec 24 10:48	0°♐	
	7927 Feb 01 22:14	0°♎		7932 Feb 05 12:01	0°♑	
retrograde	7927 Mar 06 11:16	6°♎19'04		7932 Mar 16 13:07	0°♒	
	7927 Apr 05 23:39	30°♎♌		7932 Apr 23 23:14	0°♓	
min. Earth dist.	7927 Apr 09 15:17	28°♌35'57 0.60049 AU	asc. node	7932 May 23 04:04	23°♓06'43	
greatest brilliancy	7927 Apr 14 06:34	26°♌46'02 -1.6m		7932 May 31 21:14	0°♋	
opposition	7927 Apr 15 03:19	26°♌25'32 4°33'49	evening set	7932 Jun 03 11:33	2°♋02'56	
direct	7927 May 22 15:58	17°♌46'55		7932 Jul 09 06:25	0°♌	
	7927 Jul 12 20:45	0°♍				
	7927 Sep 11 23:17	0°♎	conjunction	7932 Aug 11 07:53	25°♌05'29 0°49'46	
desc. node	7927 Sep 17 05:33	2°♎54'48	minimum elong	7932 Aug 11 05:00	25°♌00'07 0°49'41	
	7927 Nov 02 17:35	0°♏		7932 Aug 17 22:26	0°♍	
	7927 Dec 20 14:09	0°♐	max. Earth dist.	7932 Sep 26 15:40	28°♍41'55 2.47823 AU	
evening set	7928 Feb 03 11:24	0°♑00'31		7932 Sep 28 12:02	0°♎	
	7928 Feb 03 11:06	0°♒	morning rise	7932 Oct 11 08:57	8°♎58'54	
max. Earth dist.	7928 Feb 17 20:19	10°♒00'36 2.49598 AU		7932 Nov 11 07:54	0°♏	
	7928 Mar 16 18:51	0°♓		7932 Dec 27 16:17	0°♐	
				7933 Feb 15 05:17	0°♑	
conjunction	7928 Mar 25 19:37	6°♓36'43 -1°06'44		7933 Apr 12 11:54	0°♒	
minimum elong	7928 Mar 25 19:48	6°♓37'03 1°06'44	desc. node	7933 May 09 03:48	11°♒12'26	
	7928 Apr 26 01:25	0°♈	retrograde	7933 Jun 20 06:22	19°♒49'19	
morning rise	7928 May 23 21:11	21°♈23'47	opposition	7933 Jul 28 10:13	11°♒17'01 -2°50'08	
	7928 Jun 03 22:15	0°♉	greatest brilliancy	7933 Jul 28 23:15	11°♒04'34 -1.6m	
	7928 Jul 12 03:52	0°♊	min. Earth dist.	7933 Aug 03 05:00	9°♒04'21 0.61428 AU	
asc. node	7928 Aug 18 05:44	28°♊56'09	direct	7933 Sep 07 12:18	1°♒21'58	
	7928 Aug 19 14:48	0°♋		7933 Nov 27 00:22	0°♌	
	7928 Sep 28 05:27	0°♌		7934 Jan 12 16:54	0°♍	
	7928 Nov 09 01:58	0°♍		7934 Feb 22 21:50	0°♎	
	7928 Dec 24 21:12	0°♎		7934 Apr 02 20:24	0°♏	
	7929 Feb 18 17:33	0°♐	asc. node	7934 Apr 10 02:56	5°♓41'12	
retrograde	7929 Apr 10 00:58	12°♐38'24		7934 May 11 04:03	0°♋	
min. Earth dist.	7929 May 18 19:09	3°♐25'16 0.67044 AU		7934 Jun 19 00:23	0°♌	
opposition	7929 May 20 12:25	2°♐44'04 2°29'25		7934 Jul 29 05:35	0°♍	
greatest brilliancy	7929 May 20 09:08	2°♐47'20 -1.3m	evening set	7934 Aug 10 22:35	9°♍12'22	
	7929 May 27 12:15	30°♒♌		7934 Sep 09 08:16	0°♎	

conjunction	7934 Oct 05 19:56	18° Ω 09'24	1°05'55		7939 Jun 17 07:16	0° \mathcal{B}	
minimum elong	7934 Oct 05 20:30	18° Ω 10'22	1°05'58		7939 Jul 30 01:36	0° Π	
	7934 Oct 23 12:01	0° \mathcal{M}			7939 Sep 10 23:00	0° \mathcal{G}	
max. Earth dist.	7934 Oct 30 11:48	4° \mathcal{M} 37'47	2.59760 AU		7939 Oct 27 02:59	0° Ω	
morning rise	7934 Nov 24 16:47	21° \mathcal{M} 05'40		asc. node	7939 Dec 01 03:55	17° Ω 35'06	
	7934 Dec 08 13:15	0° \mathcal{A}		retrograde	7940 Jan 01 19:41	24° Ω 11'05	
	7935 Jan 25 06:17	0° \mathcal{Z}		min. Earth dist.	7940 Jan 28 03:04	19° Ω 29'18	0.42141 AU
	7935 Mar 15 19:47	0° \approx		greatest brilliancy	7940 Feb 03 22:58	17° Ω 16'54	-2.6m
desc. node	7935 Mar 27 01:09	6° \approx 34'24		opposition	7940 Feb 05 05:20	16° Ω 52'11	4°04'09
	7935 May 08 01:12	0° \mathcal{H}		direct	7940 Mar 07 12:25	10° Ω 51'21	
	7935 Jul 21 03:07	0° Υ			7940 May 10 01:43	0° \mathcal{M}	
retrograde	7935 Aug 08 03:02	1° Υ 50'46			7940 Jul 04 04:28	0° Ω	
	7935 Aug 25 06:44	30° \mathcal{R} \mathcal{H}			7940 Aug 23 17:40	0° \mathcal{M}	
opposition	7935 Sep 11 19:15	24° \mathcal{H} 50'23	-5°29'52		7940 Oct 11 23:37	0° \mathcal{A}	
greatest brilliancy	7935 Sep 13 10:45	24° \mathcal{H} 15'57	-2.1m	desc. node	7940 Nov 15 18:43	21° \mathcal{A} 35'07	
min. Earth dist.	7935 Sep 20 09:25	21° \mathcal{H} 51'57	0.49494 AU		7940 Nov 29 04:11	0° \mathcal{Z}	
direct	7935 Oct 19 18:26	16° \mathcal{H} 14'30		evening set	7940 Dec 11 08:19	7° \mathcal{Z} 42'35	
	7935 Dec 07 20:06	0° Υ		max. Earth dist.	7941 Jan 07 06:32	24° \mathcal{Z} 59'58	2.63799 AU
	7936 Jan 26 12:53	0° \mathcal{B}			7941 Jan 14 22:55	0° \approx	
asc. node	7936 Feb 26 04:06	21° \mathcal{B} 48'13					
	7936 Mar 08 06:22	0° Π		conjunction	7941 Jan 25 07:11	6° \approx 46'54	-0°35'44
	7936 Apr 17 04:39	0° \mathcal{G}		minimum elong	7941 Jan 25 06:11	6° \approx 45'15	0°35'38
	7936 May 27 08:08	0° Ω			7941 Mar 01 00:07	0° \mathcal{H}	
	7936 Jul 07 17:42	0° \mathcal{M}		morning rise	7941 Mar 11 23:08	7° \mathcal{H} 29'28	
	7936 Aug 19 21:38	0° Ω			7941 Apr 13 05:14	0° Υ	
evening set	7936 Sep 28 04:08	26° Ω 16'04			7941 May 24 17:49	0° \mathcal{B}	
	7936 Oct 03 20:26	0° \mathcal{M}			7941 Jul 03 22:13	0° Π	
					7941 Aug 12 09:19	0° \mathcal{G}	
conjunction	7936 Nov 15 06:37	27° \mathcal{M} 28'16	0°42'35		7941 Sep 21 02:40	0° Ω	
minimum elong	7936 Nov 15 07:45	27° \mathcal{M} 30'04	0°42'42	asc. node	7941 Oct 18 02:01	19° Ω 41'47	
	7936 Nov 19 05:25	0° \mathcal{A}			7941 Nov 01 18:24	0° \mathcal{M}	
max. Earth dist.	7936 Nov 23 11:42	2° \mathcal{A} 43'31	2.66602 AU		7941 Dec 19 15:24	0° Ω	
morning rise	7936 Dec 30 04:57	26° \mathcal{A} 03'35		retrograde	7942 Feb 19 01:02	19° Ω 57'57	
	7937 Jan 05 10:28	0° \mathcal{Z}		min. Earth dist.	7942 Mar 23 00:28	13° Ω 00'54	0.55669 AU
desc. node	7937 Feb 10 22:29	23° \mathcal{Z} 02'07		opposition	7942 Mar 29 21:45	10° Ω 21'00	5°05'48
	7937 Feb 21 23:45	0° \approx		greatest brilliancy	7942 Mar 28 16:28	10° Ω 49'23	-1.8m
	7937 Apr 10 17:51	0° \mathcal{H}		direct	7942 May 04 23:00	2° Ω 14'52	
	7937 May 29 02:15	0° Υ			7942 Jul 28 03:41	0° \mathcal{M}	
	7937 Jul 18 15:41	0° \mathcal{B}			7942 Sep 21 00:16	0° \mathcal{A}	
	7937 Sep 20 14:35	0° Π		desc. node	7942 Oct 03 19:22	7° \mathcal{A} 27'30	
retrograde	7937 Oct 18 18:14	4° Π 38'01			7942 Nov 10 05:54	0° \mathcal{Z}	
	7937 Nov 16 12:39	30° \mathcal{R} \mathcal{B}			7942 Dec 27 14:58	0° \approx	
opposition	7937 Nov 17 18:46	29° \mathcal{B} 39'38	-4°01'38	evening set	7943 Jan 18 02:44	14° \approx 10'31	
greatest brilliancy	7937 Nov 18 11:26	29° \mathcal{B} 28'20	-3.0m	max. Earth dist.	7943 Feb 04 01:23	25° \approx 37'02	2.54467 AU
min. Earth dist.	7937 Nov 21 05:24	28° \mathcal{B} 43'47	0.37482 AU		7943 Feb 10 10:55	0° \mathcal{H}	
direct	7937 Dec 18 10:49	24° \mathcal{B} 20'16					
asc. node	7938 Jan 13 05:00	28° \mathcal{B} 38'02		conjunction	7943 Mar 07 13:39	17° \mathcal{H} 32'37	-1°04'14
	7938 Jan 17 06:47	0° Π		minimum elong	7943 Mar 07 12:49	17° \mathcal{H} 31'09	1°04'12
	7938 Mar 15 17:04	0° \mathcal{G}			7943 Mar 24 22:44	0° Υ	
	7938 Apr 30 17:23	0° Ω		morning rise	7943 Apr 29 21:55	26° Υ 33'12	
	7938 Jun 14 14:32	0° \mathcal{M}			7943 May 04 11:42	0° \mathcal{B}	
	7938 Jul 30 03:08	0° Ω			7943 Jun 12 15:01	0° Π	
	7938 Sep 14 16:02	0° \mathcal{M}			7943 Jul 21 01:54	0° \mathcal{G}	
	7938 Oct 31 22:37	0° \mathcal{A}			7943 Aug 28 17:00	0° Ω	
evening set	7938 Nov 06 08:08	3° \mathcal{A} 24'47		asc. node	7943 Sep 05 00:09	5° Ω 35'35	
max. Earth dist.	7938 Dec 16 00:57	28° \mathcal{A} 32'58	2.67931 AU		7943 Oct 07 12:32	0° \mathcal{M}	
	7938 Dec 18 07:45	0° \mathcal{Z}			7943 Nov 18 21:00	0° Ω	
					7944 Jan 05 11:44	0° \mathcal{M}	
conjunction	7938 Dec 21 08:02	1° \mathcal{Z} 54'52	0°04'30	retrograde	7944 Mar 27 15:08	29° \mathcal{M} 25'13	
minimum elong	7938 Dec 21 08:09	1° \mathcal{Z} 55'03	0°04'38	min. Earth dist.	7944 May 03 18:08	20° \mathcal{M} 43'21	0.65073 AU
behind sun begin	7938 Dec 20 14:19	1° \mathcal{Z} 26'43		opposition	7944 May 06 23:29	19° \mathcal{M} 26'08	3°22'13
behind sun end	7938 Dec 22 01:59	2° \mathcal{Z} 23'24		greatest brilliancy	7944 May 06 14:41	19° \mathcal{M} 34'55	-1.4m
desc. node	7938 Dec 29 19:58	7° \mathcal{Z} 19'33		direct	7944 Jun 15 08:07	10° \mathcal{M} 10'06	
morning rise	7939 Feb 02 23:21	29° \mathcal{Z} 52'45		desc. node	7944 Aug 20 20:08	28° \mathcal{M} 48'05	
	7939 Feb 03 03:50	0° \approx			7944 Aug 23 10:32	0° \mathcal{A}	
	7939 Mar 21 00:25	0° \mathcal{H}			7944 Oct 19 03:48	0° \mathcal{Z}	
	7939 May 04 17:10	0° Υ			7944 Dec 07 09:34	0° \approx	

	7945 Jan 21 15:12	0° H		max. Earth dist.	7949 Oct 19 05:58	22° Q 28'21	2.55614 AU
evening set	7945 Mar 03 16:25	29° H 07'13			7949 Oct 30 11:27	0° M	
	7945 Mar 04 21:19	0° Y		morning rise	7949 Nov 08 20:32	6° M 13'15	
max. Earth dist.	7945 Mar 20 16:44	11° Y 40'46	2.41380 AU		7949 Dec 15 12:42	0° J	
	7945 Apr 13 22:09	0° B			7950 Feb 01 16:40	0° Z	
					7950 Mar 24 19:28	0° \approx	
conjunction	7945 May 01 03:19	13° B 16'57	-0°51'46	desc. node	7950 Apr 12 15:41	10° \approx 19'18	
minimum elong	7945 May 01 06:04	13° B 22'18	0°51'50		7950 May 23 01:57	0° H	
	7945 May 22 12:27	0° II		retrograde	7950 Jul 18 02:37	14° H 10'36	
	7945 Jun 29 12:40	0° G		opposition	7950 Aug 23 09:03	6° H 27'51	-4°33'59
morning rise	7945 Jul 09 22:04	8° G 11'25		greatest brilliancy	7950 Aug 24 14:05	6° H 01'12	-1.9m
asc. node	7945 Jul 22 21:07	18° G 21'51		min. Earth dist.	7950 Aug 31 03:03	3° H 37'54	0.54730 AU
	7945 Aug 06 19:49	0° Q			7950 Sep 11 11:25	30° R \approx	
	7945 Sep 15 06:38	0° M		direct	7950 Oct 02 00:29	27° \approx 07'07	
	7945 Oct 26 17:34	0° Q			7950 Oct 23 11:27	0° H	
	7945 Dec 10 04:15	0° M			7950 Dec 25 08:54	0° Y	
	7946 Jan 28 16:03	0° J			7951 Feb 07 07:27	0° B	
	7946 Apr 07 15:51	0° Z		asc. node	7951 Mar 14 20:39	26° B 33'11	
retrograde	7946 Apr 30 19:53	2° Z 59'49			7951 Mar 19 09:00	0° II	
	7946 May 22 07:30	30° R J			7951 Apr 27 09:36	0° G	
opposition	7946 Jun 10 03:28	23° J 20'33	0°58'41		7951 Jun 05 20:34	0° Q	
greatest brilliancy	7946 Jun 10 04:14	23° J 19'47	-1.3m		7951 Jul 16 15:44	0° M	
min. Earth dist.	7946 Jun 10 17:25	23° J 06'42	0.68129 AU		7951 Aug 28 07:05	0° Q	
desc. node	7946 Jul 08 19:40	14° J 26'55		evening set	7951 Sep 11 15:59	9° Q 48'47	
direct	7946 Jul 21 07:46	13° J 27'33			7951 Oct 11 20:20	0° M	
	7946 Sep 20 14:01	0° Z					
	7946 Nov 15 16:46	0° \approx		conjunction	7951 Nov 01 03:03	13° M 17'24	0°54'18
	7947 Jan 01 15:47	0° H		minimum elong	7951 Nov 01 04:16	13° M 19'22	0°54'24
	7947 Feb 13 06:54	0° Y		max. Earth dist.	7951 Nov 15 05:02	22° M 24'48	2.64550 AU
	7947 Mar 25 05:34	0° B			7951 Nov 27 00:17	0° J	
	7947 May 02 15:03	0° II		morning rise	7951 Dec 17 11:38	13° J 03'28	
evening set	7947 May 05 19:04	2° II 30'16			7952 Jan 13 07:24	0° Z	
asc. node	7947 Jun 09 20:30	0° G 16'53		desc. node	7952 Feb 28 12:38	28° Z 49'50	
	7947 Jun 09 11:57	0° G			7952 Mar 01 09:59	0° \approx	
					7952 Apr 19 13:06	0° H	
conjunction	7947 Jul 15 12:31	28° G 14'46	0°24'53		7952 Jun 10 04:35	0° Y	
minimum elong	7947 Jul 15 10:05	28° G 10'02	0°24'44		7952 Aug 12 15:29	0° B	
	7947 Jul 17 18:54	0° Q		retrograde	7952 Sep 17 04:26	6° B 43'50	
	7947 Aug 26 07:38	0° M		opposition	7952 Oct 18 15:43	1° B 05'27	-5°45'51
max. Earth dist.	7947 Sep 06 08:55	8° M 09'24	2.42255 AU	greatest brilliancy	7952 Oct 20 07:18	0° B 35'35	-2.6m
morning rise	7947 Sep 20 19:18	18° M 38'21			7952 Oct 22 06:20	30° R Y	
	7947 Oct 06 18:03	0° Q		min. Earth dist.	7952 Oct 26 01:55	28° Y 51'45	0.41187 AU
	7947 Nov 19 13:45	0° M		direct	7952 Nov 21 12:06	24° Y 26'36	
	7948 Jan 05 06:54	0° J			7952 Dec 20 14:53	0° B	
	7948 Feb 25 08:37	0° Z		asc. node	7953 Jan 29 20:31	20° B 03'10	
	7948 Apr 30 19:45	0° \approx			7953 Feb 14 17:06	0° II	
desc. node	7948 May 25 18:08	5° \approx 36'33			7953 Mar 30 14:05	0° G	
retrograde	7948 Jun 04 16:47	6° \approx 10'51			7953 May 11 22:26	0° Q	
	7948 Jul 06 10:25	30° R Z			7953 Jun 23 21:18	0° M	
opposition	7948 Jul 13 17:54	27° Z 14'32	-1°43'36		7953 Aug 07 04:48	0° Q	
greatest brilliancy	7948 Jul 13 23:40	27° Z 08'56	-1.4m		7953 Sep 21 23:06	0° M	
min. Earth dist.	7948 Jul 18 02:08	25° Z 33'18	0.64594 AU	evening set	7953 Oct 22 17:46	19° M 46'14	
direct	7948 Aug 24 05:27	17° Z 12'14			7953 Nov 07 18:59	0° J	
	7948 Oct 14 04:03	0° \approx					
	7948 Dec 08 07:29	0° H		conjunction	7953 Dec 07 13:16	18° J 54'08	0°20'05
	7949 Jan 21 21:34	0° Y		minimum elong	7953 Dec 07 13:52	18° J 55'06	0°20'13
	7949 Mar 03 11:01	0° B		max. Earth dist.	7953 Dec 07 11:24	18° J 51'12	2.68061 AU
	7949 Apr 11 02:25	0° II			7953 Dec 25 00:46	0° Z	
asc. node	7949 Apr 26 20:56	12° II 25'19		desc. node	7954 Jan 15 10:38	13° Z 37'20	
	7949 May 19 04:26	0° G		morning rise	7954 Jan 20 08:19	16° Z 44'59	
	7949 Jun 26 18:39	0° Q			7954 Feb 10 01:27	0° \approx	
evening set	7949 Jul 17 17:06	15° Q 53'16			7954 Mar 28 11:33	0° H	
	7949 Aug 05 16:55	0° M			7954 May 13 04:36	0° Y	
					7954 Jun 27 08:43	0° B	
conjunction	7949 Sep 16 13:03	0° Q 00'41	1°06'25		7954 Aug 11 15:13	0° II	
minimum elong	7949 Sep 16 12:30	29° M 59'45	1°06'25		7954 Sep 28 15:49	0° G	
	7949 Sep 16 12:39	0° Q		retrograde	7954 Dec 07 01:17	24° G 56'27	

asc. node	7954 Dec 17 21:16	24°☾07'47			7960 Jan 29 18:49	0°☿	
min. Earth dist.	7955 Jan 02 12:34	20°☾35'46	0.37976 AU	evening set	7960 Feb 13 09:55	10°☿10'36	
opposition	7955 Jan 07 18:03	19°☾06'02	1°32'40	max. Earth dist.	7960 Feb 27 09:14	20°☿05'11	2.46738 AU
greatest brilliancy	7955 Jan 07 09:15	19°☾12'20	-3.0m		7960 Mar 12 02:30	0°♊	
direct	7955 Feb 06 08:38	13°☾58'03					
	7955 Apr 03 01:20	0°♋		conjunction	7960 Apr 06 20:48	19°♊04'13	-1°04'29
	7955 May 27 07:07	0°♌		minimum elong	7960 Apr 06 21:53	19°♊06'14	1°04'31
	7955 Jul 15 11:27	0°♍			7960 Apr 21 07:28	0°♎	
	7955 Sep 01 22:00	0°♏			7960 May 30 02:07	0°♐	
	7955 Oct 20 04:44	0°♑		morning rise	7960 Jun 08 18:28	7°♐35'42	
evening set	7955 Nov 28 09:22	24°♑34'01			7960 Jul 07 05:26	0°♑	
desc. node	7955 Dec 03 09:01	27°♑43'01		asc. node	7960 Aug 08 15:25	25°☾23'15	
	7955 Dec 06 23:35	0°♒			7960 Aug 14 14:13	0°♋	
max. Earth dist.	7955 Dec 29 21:01	14°♒35'20	2.66051 AU		7960 Sep 23 02:08	0°♌	
					7960 Nov 03 16:40	0°♍	
conjunction	7956 Jan 12 00:18	23°♒02'46	-0°20'39		7960 Dec 18 18:52	0°♎	
minimum elong	7956 Jan 11 23:41	23°♒01'46	0°20'31		7961 Feb 09 03:44	0°♏	
	7956 Jan 22 17:29	0°♐		retrograde	7961 Apr 17 14:54	20°♏27'45	
morning rise	7956 Feb 25 10:04	22°♐12'57		min. Earth dist.	7961 May 27 04:32	10°♏59'25	0.67716 AU
	7956 Mar 08 00:29	0°♑		opposition	7961 May 28 02:25	10°♏37'38	1°56'47
	7956 Apr 20 16:48	0°♊		greatest brilliancy	7961 May 28 01:15	10°♏38'47	-1.3m
	7956 Jun 01 20:17	0°♋		direct	7961 Jul 07 17:50	0°♏56'01	
	7956 Jul 12 17:42	0°♌		desc. node	7961 Jul 25 09:06	2°♏39'30	
	7956 Aug 21 23:43	0°☾			7961 Oct 03 02:52	0°♒	
	7956 Oct 01 19:05	0°♋			7961 Nov 24 07:27	0°♌	
asc. node	7956 Nov 03 19:13	22°♋52'09			7962 Jan 09 09:04	0°♑	
	7956 Nov 14 20:31	0°♌			7962 Feb 20 19:05	0°♊	
	7957 Jan 19 20:25	0°♍			7962 Apr 01 17:53	0°♋	
retrograde	7957 Feb 01 22:21	1°♍12'17		evening set	7962 Apr 08 11:46	5°♋11'57	
	7957 Feb 14 14:27	30°♌♐			7962 May 10 04:45	0°♌	
min. Earth dist.	7957 Mar 03 12:38	25°♌08'00	0.50532 AU				
greatest brilliancy	7957 Mar 10 00:50	22°♌43'13	-2.1m	conjunction	7962 Jun 15 01:22	28°♌23'16	-0°08'19
opposition	7957 Mar 11 12:47	22°♌09'41	5°17'09	minimum elong	7962 Jun 15 02:17	28°♌25'06	0°08'27
direct	7957 Apr 14 20:57	14°♌45'05		behind sun begin	7962 Jun 13 23:59	27°♌33'03	
	7957 Jun 10 20:51	0°♍		behind sun end	7962 Jun 16 04:36	29°♌17'08	
	7957 Aug 08 10:07	0°♎			7962 Jun 17 02:16	0°☾	
	7957 Sep 29 05:47	0°♏		asc. node	7962 Jun 26 13:55	7°☾29'29	
desc. node	7957 Oct 20 08:37	12°♏42'30		max. Earth dist.	7962 Jul 22 14:50	27°☾52'57	2.37249 AU
	7957 Nov 17 11:11	0°♒			7962 Jul 25 08:22	0°♋	
evening set	7958 Jan 02 20:30	29°♒33'12		morning rise	7962 Aug 26 06:12	24°♋21'51	
	7958 Jan 03 12:56	0°♌			7962 Sep 02 19:04	0°♍	
max. Earth dist.	7958 Jan 23 07:59	13°♌03'01	2.58710 AU		7962 Oct 14 03:34	0°♎	
	7958 Feb 17 09:56	0°♑			7962 Nov 27 01:15	0°♏	
					7963 Jan 13 09:12	0°♑	
conjunction	7958 Feb 18 09:20	0°♑40'06	-0°55'53		7963 Mar 08 03:18	0°♒	
minimum elong	7958 Feb 18 08:08	0°♑38'02	0°55'48	retrograde	7963 May 22 05:51	23°♒13'59	
	7958 Apr 01 03:27	0°♊		desc. node	7963 Jun 12 07:43	20°♒23'59	
morning rise	7958 Apr 08 17:48	5°♊29'04		opposition	7963 Jun 30 22:36	13°♒58'01	-0°39'00
	7958 May 12 00:08	0°♋		greatest brilliancy	7963 Jun 30 23:58	13°♒56'40	-1.4m
	7958 Jun 20 11:21	0°♌		min. Earth dist.	7963 Jul 03 19:39	12°♒50'14	0.66753 AU
	7958 Jul 29 05:08	0°☾		direct	7963 Aug 11 12:13	3°♒55'24	
	7958 Sep 06 02:38	0°♋			7963 Oct 29 16:20	0°♌	
asc. node	7958 Sep 21 16:29	11°♋48'03			7963 Dec 18 19:19	0°♑	
	7958 Oct 16 07:22	0°♌			7964 Jan 31 07:34	0°♊	
	7958 Nov 28 15:00	0°♍			7964 Mar 11 12:33	0°♋	
	7959 Jan 19 08:58	0°♎			7964 Apr 19 00:12	0°♌	
retrograde	7959 Mar 14 17:49	15°♎22'25		asc. node	7964 May 13 12:28	19°♌22'45	
min. Earth dist.	7959 Apr 19 01:02	7°♎16'45	0.62123 AU		7964 May 26 23:02	0°☾	
opposition	7959 Apr 23 18:05	5°♎24'28	4°09'51	evening set	7964 Jun 20 02:25	18°☾56'01	
greatest brilliancy	7959 Apr 23 01:59	5°♎40'28	-1.5m		7964 Jul 04 09:17	0°♋	
	7959 May 08 20:21	30°♌♍			7964 Aug 13 02:41	0°♌	
direct	7959 Jun 01 00:14	26°♍30'53					
	7959 Jun 26 10:00	0°♎		conjunction	7964 Aug 25 08:55	8°♌59'49	0°58'49
	7959 Sep 05 07:51	0°♏		minimum elong	7964 Aug 25 06:47	8°♌55'57	0°58'45
desc. node	7959 Sep 07 09:13	1°♏05'10			7964 Sep 23 17:19	0°♍	
	7959 Oct 28 10:57	0°♒		max. Earth dist.	7964 Oct 05 19:47	8°♍26'34	2.50773 AU
	7959 Dec 15 18:24	0°♌		morning rise	7964 Oct 22 07:18	19°♍44'45	

	7964 Nov 06 12:59	0°♌		7970 Mar 02 01:21	0°♏	
	7964 Dec 22 16:50	0°♏		7970 Apr 22 08:13	0°♏	
	7965 Feb 09 13:57	0°♏		7970 Jun 08 01:49	0°♏	
	7965 Apr 04 06:30	0°♏		7970 Jul 24 13:09	0°♏	
desc. node	7965 Apr 29 05:59	12°♏03'38		7970 Sep 09 15:12	0°♌	
retrograde	7965 Jun 29 18:55	28°♏34'17		7970 Oct 27 04:58	0°♏	
opposition	7965 Aug 06 08:37	20°♏17'33 -3°28'53	evening set	7970 Nov 14 10:14	11°♏28'45	
greatest brilliancy	7965 Aug 07 02:52	20°♏00'18 -1.7m		7970 Dec 13 16:59	0°♏	
min. Earth dist.	7965 Aug 12 21:02	17°♏49'52 0.59296 AU	desc. node	7970 Dec 19 22:53	3°♏58'11	
direct	7965 Sep 16 01:39	10°♏30'57	max. Earth dist.	7970 Dec 21 02:22	4°♏41'55 2.67503 AU	
	7965 Nov 18 01:29	0°♏				
	7966 Jan 06 07:08	0°♏	conjunction	7970 Dec 29 03:45	9°♏50'05 -0°04'53	
	7966 Feb 17 04:51	0°♏	minimum elong	7970 Dec 29 03:35	9°♏49'49 0°04'45	
	7966 Mar 28 10:51	0°♏	behind sun begin	7970 Dec 28 09:47	9°♏21'27	
asc. node	7966 Mar 31 12:56	2°♏23'55	behind sun end	7970 Dec 29 21:22	10°♏18'12	
	7966 May 05 22:54	0°♏		7971 Jan 29 12:11	0°♏	
	7966 Jun 13 22:51	0°♏	morning rise	7971 Feb 10 21:52	8°♏04'13	
	7966 Jul 24 07:31	0°♏		7971 Mar 16 03:41	0°♏	
evening set	7966 Aug 23 03:37	21°♏20'24		7971 Apr 29 11:09	0°♏	
	7966 Sep 04 13:11	0°♏		7971 Jun 11 11:09	0°♏	
				7971 Jul 23 09:53	0°♏	
conjunction	7966 Oct 15 19:33	28°♏01'02 1°02'54		7971 Sep 03 00:10	0°♏	
minimum elong	7966 Oct 15 20:29	28°♏02'36 1°02'58		7971 Oct 16 03:10	0°♏	
	7966 Oct 18 19:09	0°♌	asc. node	7971 Nov 21 12:57	22°♏09'48	
max. Earth dist.	7966 Nov 05 12:47	11°♌40'58 2.61694 AU		7971 Dec 07 15:01	0°♏	
morning rise	7966 Dec 03 05:14	29°♌36'07	retrograde	7972 Jan 14 10:06	9°♏05'34	
	7966 Dec 03 20:09	0°♏	min. Earth dist.	7972 Feb 10 15:49	3°♏56'58 0.45032 AU	
	7967 Jan 20 08:10	0°♏	greatest brilliancy	7972 Feb 17 15:07	1°♏33'25 -2.4m	
	7967 Mar 10 05:58	0°♏	opposition	7972 Feb 19 03:12	1°♏02'07 4°49'41	
desc. node	7967 Mar 17 03:51	4°♏09'14		7972 Feb 22 04:00	30°♏00'00	
	7967 Apr 30 12:28	0°♏	direct	7972 Mar 22 14:02	24°♏29'15	
	7967 Jun 28 13:52	0°♏		7972 Apr 22 17:09	0°♏	
retrograde	7967 Aug 21 16:07	13°♏40'56		7972 Jun 26 11:25	0°♏	
opposition	7967 Sep 24 07:08	7°♏08'29 -5°50'44		7972 Aug 17 22:10	0°♌	
greatest brilliancy	7967 Sep 26 02:27	6°♏32'22 -2.3m		7972 Oct 06 22:15	0°♏	
min. Earth dist.	7967 Oct 02 23:43	4°♏15'44 0.46439 AU	desc. node	7972 Nov 05 21:58	18°♏25'50	
	7967 Oct 19 23:18	30°♏00'00		7972 Nov 24 10:47	0°♏	
direct	7967 Oct 31 00:36	29°♏08'24	evening set	7972 Dec 19 09:58	15°♏49'55	
	7967 Nov 11 05:26	0°♏		7973 Jan 10 08:03	0°♏	
	7968 Jan 17 09:20	0°♏	max. Earth dist.	7973 Jan 12 21:52	1°♏41'00 2.62208 AU	
asc. node	7968 Feb 16 13:17	20°♏18'23				
	7968 Mar 01 03:17	0°♏	conjunction	7973 Feb 02 18:13	15°♏27'14 -0°43'51	
	7968 Apr 10 22:39	0°♏	minimum elong	7973 Feb 02 17:03	15°♏25'18 0°43'45	
	7968 May 21 15:19	0°♏		7973 Feb 24 07:53	0°♏	
	7968 Jul 02 10:50	0°♏	morning rise	7973 Mar 21 10:41	17°♏20'34	
	7968 Aug 14 22:07	0°♏		7973 Apr 08 09:07	0°♏	
	7968 Sep 29 02:17	0°♌		7973 May 19 15:59	0°♏	
evening set	7968 Oct 07 09:24	5°♌24'26		7973 Jun 28 14:03	0°♏	
	7968 Nov 14 13:59	0°♏		7973 Aug 06 18:06	0°♏	
				7973 Sep 15 02:19	0°♏	
conjunction	7968 Nov 23 12:13	5°♏41'44 0°34'44	asc. node	7973 Oct 08 11:21	17°♏22'22	
minimum elong	7968 Nov 23 13:11	5°♏43'17 0°34'52		7973 Oct 26 00:21	0°♏	
max. Earth dist.	7968 Nov 28 16:33	8°♏59'45 2.67356 AU		7973 Dec 10 08:31	0°♏	
	7968 Dec 31 18:34	0°♏	retrograde	7974 Feb 27 23:29	29°♏59'25	
morning rise	7969 Jan 06 21:33	3°♏52'50	min. Earth dist.	7974 Apr 02 04:46	22°♏36'28 0.58183 AU	
desc. node	7969 Feb 01 00:54	19°♏48'38	greatest brilliancy	7974 Apr 07 08:01	20°♏35'43 -1.7m	
	7969 Feb 17 02:33	0°♏	opposition	7974 Apr 08 08:38	20°♏11'34 4°49'25	
	7969 Apr 05 07:09	0°♏	direct	7974 May 15 06:20	11°♏46'42	
	7969 May 22 11:26	0°♏		7974 Jul 19 03:35	0°♌	
	7969 Jul 09 08:21	0°♏		7974 Sep 15 02:11	0°♏	
	7969 Aug 29 17:50	0°♏	desc. node	7974 Sep 23 22:09	5°♏00'24	
retrograde	7969 Nov 06 12:47	22°♏48'41		7974 Nov 05 04:36	0°♏	
opposition	7969 Dec 06 07:58	17°♏51'47 -2°09'31		7974 Dec 22 21:22	0°♏	
greatest brilliancy	7969 Dec 06 11:26	17°♏49'30 -3.1m	evening set	7975 Jan 27 05:54	23°♏28'14	
min. Earth dist.	7969 Dec 06 14:19	17°♏47'36 0.36652 AU		7975 Feb 05 19:10	0°♏	
asc. node	7970 Jan 03 12:39	12°♏57'11	max. Earth dist.	7975 Feb 11 15:05	4°♏01'25 2.51851 AU	
direct	7970 Jan 04 20:53	12°♏56'28				

conjunction	7975 Mar 18 03:40	28° H 28'58	-1°06'35		7980 Feb 19 03:33	0° Z	
minimum elong	7975 Mar 18 03:20	28° H 28'23	1°06'34		7980 Apr 17 20:58	0° \approx	
	7975 Mar 20 05:54	0° Y		desc. node	7980 May 15 20:50	10° \approx 04'10	
	7975 Apr 29 16:06	0° B		retrograde	7980 Jun 13 09:41	14° \approx 20'37	
morning rise	7975 May 13 10:32	10° B 29'27		opposition	7980 Jul 21 23:46	5° \approx 36'51	-2°22'04
	7975 Jun 07 16:19	0° II		greatest brilliancy	7980 Jul 22 09:18	5° \approx 27'40	-1.5m
	7975 Jul 16 00:13	0° D		min. Earth dist.	7980 Jul 27 03:03	3° \approx 38'05	0.62961 AU
	7975 Aug 23 12:20	0° Ω			7980 Aug 06 07:42	30° R Z	
asc. node	7975 Aug 26 08:03	2° Ω 10'22		direct	7980 Sep 01 07:05	25° Z 37'37	
	7975 Oct 02 03:54	0° M			7980 Sep 29 02:40	0° \approx	
	7975 Nov 13 02:53	0° A			7980 Dec 01 10:06	0° H	
	7975 Dec 29 10:19	0° M			7981 Jan 16 03:37	0° Y	
	7976 Feb 27 01:48	0° A			7981 Feb 26 02:03	0° B	
retrograde	7976 Apr 04 07:54	7° A 32'49			7981 Apr 05 21:42	0° II	
	7976 May 08 17:37	30° R M		asc. node	7981 Apr 17 04:26	8° II 51'09	
min. Earth dist.	7976 May 12 09:22	28° M 33'22	0.66282 AU		7981 May 14 02:32	0° D	
opposition	7976 May 14 19:07	27° M 35'44	2°51'57		7981 Jun 21 19:19	0° Ω	
greatest brilliancy	7976 May 14 13:39	27° M 41'11	-1.4m	evening set	7981 Jul 31 20:04	29° Ω 59'28	
direct	7976 Jun 23 16:35	18° M 09'33			7981 Jul 31 20:22	0° M	
desc. node	7976 Aug 10 22:42	29° M 02'15			7981 Sep 11 18:31	0° A	
	7976 Aug 13 09:20	0° A					
	7976 Oct 13 03:59	0° Z		conjunction	7981 Sep 27 18:41	11° A 04'35	1°06'57
	7976 Dec 02 07:03	0° \approx		minimum elong	7981 Sep 27 18:52	11° A 04'54	1°06'58
	7977 Jan 16 19:38	0° H			7981 Oct 25 18:41	0° M	
	7977 Feb 28 03:39	0° Y		max. Earth dist.	7981 Oct 25 23:24	0° M 07'51	2.58004 AU
evening set	7977 Mar 15 16:26	11° Y 28'25		morning rise	7981 Nov 18 00:52	15° M 19'31	
max. Earth dist.	7977 Apr 08 13:12	29° Y 31'34	2.38680 AU		7981 Dec 10 18:26	0° A	
	7977 Apr 09 04:03	0° B			7982 Jan 27 14:43	0° Z	
					7982 Mar 18 17:13	0° \approx	
conjunction	7977 May 16 09:44	28° B 58'05	-0°39'02	desc. node	7982 Apr 02 18:23	8° \approx 36'50	
minimum elong	7977 May 16 12:48	29° B 04'07	0°39'07		7982 May 12 19:39	0° H	
	7977 May 17 17:13	0° II		retrograde	7982 Jul 29 13:04	24° H 20'51	
	7977 Jun 24 16:06	0° D		opposition	7982 Sep 02 23:57	17° H 00'14	-5°07'38
asc. node	7977 Jul 13 06:31	14° D 39'34		greatest brilliancy	7982 Sep 04 11:12	16° H 28'43	-2.0m
morning rise	7977 Jul 27 16:01	25° D 55'03		min. Earth dist.	7982 Sep 11 07:39	14° H 02'45	0.51906 AU
	7977 Aug 01 22:07	0° Ω		direct	7982 Oct 11 19:45	8° H 01'27	
	7977 Sep 10 07:53	0° M			7982 Dec 15 21:59	0° Y	
	7977 Oct 21 16:25	0° A			7983 Jan 31 08:46	0° B	
	7977 Dec 04 19:47	0° M		asc. node	7983 Mar 05 05:23	23° B 58'42	
	7978 Jan 22 05:28	0° A			7983 Mar 13 05:46	0° II	
	7978 Mar 22 17:46	0° Z			7983 Apr 21 16:49	0° D	
retrograde	7978 May 08 12:16	10° Z 38'38			7983 May 31 11:12	0° Ω	
opposition	7978 Jun 17 15:51	1° Z 06'42	0°23'20		7983 Jul 11 12:48	0° M	
greatest brilliancy	7978 Jun 17 16:30	1° Z 06'03	-1.3m		7983 Aug 23 09:31	0° A	
min. Earth dist.	7978 Jun 19 01:20	0° Z 33'35	0.67912 AU	evening set	7983 Sep 21 20:24	19° A 53'16	
	7978 Jun 20 11:23	30° R A			7983 Oct 07 02:52	0° M	
desc. node	7978 Jun 28 22:28	26° A 48'32					
direct	7978 Jul 29 01:04	21° A 09'13		conjunction	7983 Nov 09 21:30	21° M 59'27	0°47'46
	7978 Sep 09 10:32	0° Z		minimum elong	7983 Nov 09 22:42	22° M 01'22	0°47'53
	7978 Nov 09 11:46	0° \approx		max. Earth dist.	7983 Nov 20 14:45	28° M 52'57	2.65798 AU
	7978 Dec 27 08:27	0° H			7983 Nov 22 08:35	0° A	
	7979 Feb 08 06:39	0° Y		morning rise	7983 Dec 25 09:08	21° A 01'28	
	7979 Mar 20 07:41	0° B			7984 Jan 08 13:58	0° Z	
	7979 Apr 27 18:07	0° II		desc. node	7984 Feb 18 15:33	25° Z 48'30	
evening set	7979 May 22 07:56	19° II 27'31			7984 Feb 25 08:23	0° \approx	
asc. node	7979 May 31 05:56	26° II 31'10			7984 Apr 13 15:10	0° H	
	7979 Jun 04 15:31	0° D			7984 Jun 02 03:52	0° Y	
	7979 Jul 12 23:01	0° Ω			7984 Jul 26 00:23	0° B	
				retrograde	7984 Oct 04 09:50	22° B 15'17	
conjunction	7979 Jul 31 14:06	14° Ω 16'38	0°40'25	opposition	7984 Nov 03 23:43	17° B 02'44	-5°01'50
minimum elong	7979 Jul 31 11:02	14° Ω 10'47	0°40'16	greatest brilliancy	7984 Nov 05 04:13	16° B 42'30	-2.8m
	7979 Aug 21 12:31	0° M		min. Earth dist.	7984 Nov 09 13:24	15° B 28'25	0.38852 AU
max. Earth dist.	7979 Sep 19 15:41	21° M 14'56	2.45344 AU	direct	7984 Dec 05 23:58	11° B 10'58	
	7979 Oct 01 23:09	0° A		asc. node	7985 Jan 20 06:44	23° B 28'21	
morning rise	7979 Oct 03 09:21	1° A 00'15			7985 Feb 01 23:20	0° II	
	7979 Nov 14 17:14	0° M			7985 Mar 22 05:16	0° D	
	7979 Dec 31 03:05	0° A			7985 May 05 04:24	0° Ω	

	7985 Jun 18 00:48	0°♎			7990 Mar 27 09:27	0°♑	
	7985 Aug 01 22:01	0°♊		morning rise	7990 Apr 20 07:12	17°♑27'40	
	7985 Sep 17 01:15	0°♋			7990 May 07 02:42	0°♌	
evening set	7985 Oct 31 04:01	28°♋08'37			7990 Jun 15 10:06	0°♍	
	7985 Nov 03 02:15	0°♌			7990 Jul 24 00:06	0°♎	
max. Earth dist.	7985 Dec 12 13:01	25°♌00'20	2.68102 AU		7990 Aug 31 17:13	0°♏	
				asc. node	7990 Sep 12 02:16	8°♏41'02	
conjunction	7985 Dec 15 11:02	26°♌51'25	0°11'01		7990 Oct 10 15:05	0°♐	
minimum elong	7985 Dec 15 11:22	26°♌51'56	0°11'10		7990 Nov 22 05:36	0°♑	
behind sun begin	7985 Dec 14 21:58	26°♌30'41			7991 Jan 09 23:24	0°♒	
behind sun end	7985 Dec 16 00:46	27°♌13'12		retrograde	7991 Mar 22 17:56	24°♒01'03	
	7985 Dec 20 09:47	0°♑		min. Earth dist.	7991 Apr 28 02:13	15°♒35'02	0.63871 AU
desc. node	7986 Jan 05 12:41	10°♑15'35		opposition	7991 May 02 00:04	14°♒01'33	3°42'59
morning rise	7986 Jan 28 02:27	24°♑42'12		greatest brilliancy	7991 May 01 12:14	14°♒13'20	-1.5m
	7986 Feb 05 08:07	0°♒		direct	7991 Jun 09 22:13	4°♒54'55	
	7986 Mar 23 10:47	0°♓		desc. node	7991 Aug 28 12:29	29°♒48'52	
	7986 May 07 14:06	0°♑			7991 Aug 28 21:30	0°♌	
	7986 Jun 20 19:24	0°♌			7991 Oct 22 22:54	0°♍	
	7986 Aug 03 11:53	0°♍			7991 Dec 10 20:05	0°♎	
	7986 Sep 16 22:13	0°♎			7992 Jan 25 00:43	0°♏	
	7986 Nov 06 23:58	0°♏		evening set	7992 Feb 24 01:13	21°♏05'18	
asc. node	7986 Dec 08 05:46	11°♏02'37			7992 Mar 07 08:51	0°♑	
retrograde	7986 Dec 22 04:51	12°♏24'40		max. Earth dist.	7992 Mar 09 18:33	1°♑45'24	2.43756 AU
min. Earth dist.	7987 Jan 17 03:47	7°♏58'17	0.40034 AU		7992 Apr 16 12:22	0°♌	
greatest brilliancy	7987 Jan 23 10:37	6°♏03'04	-2.8m				
opposition	7987 Jan 24 08:56	5°♏45'55	3°11'11	conjunction	7992 Apr 20 02:26	2°♌44'33	-0°58'44
direct	7987 Feb 23 18:42	0°♏10'50		minimum elong	7992 Apr 20 04:31	2°♌48'32	0°58'48
	7987 May 18 03:04	0°♐			7992 May 25 05:10	0°♍	
	7987 Jul 09 00:05	0°♑		morning rise	7992 Jun 26 00:17	25°♑02'59	
	7987 Aug 27 12:05	0°♒			7992 Jul 02 06:53	0°♎	
	7987 Oct 15 06:57	0°♓		asc. node	7992 Jul 29 23:07	21°♎43'55	
desc. node	7987 Nov 23 11:15	24°♓25'38			7992 Aug 09 14:14	0°♏	
	7987 Dec 02 07:25	0°♑			7992 Sep 18 00:30	0°♐	
evening set	7987 Dec 06 08:50	2°♑34'04			7992 Oct 29 11:15	0°♑	
max. Earth dist.	7988 Jan 04 05:30	21°♑00'24	2.64913 AU		7992 Dec 13 01:20	0°♒	
	7988 Jan 18 02:29	0°♒			7993 Feb 01 08:43	0°♓	
				retrograde	7993 Apr 25 03:39	28°♓08'57	
conjunction	7988 Jan 20 02:35	1°♒18'24	-0°29'37	opposition	7993 Jun 04 14:01	18°♓24'16	1°23'05
minimum elong	7988 Jan 20 01:44	1°♒17'00	0°29'29	min. Earth dist.	7993 Jun 04 11:37	18°♓26'40	0.68071 AU
	7988 Mar 03 07:03	0°♓		greatest brilliancy	7993 Jun 04 14:13	18°♓24'04	-1.3m
morning rise	7988 Mar 05 02:40	1°♓13'51		direct	7993 Jul 15 13:53	8°♓35'58	
	7988 Apr 15 18:01	0°♑		desc. node	7993 Jul 15 12:03	8°♓35'58	
	7988 May 27 13:35	0°♌			7993 Sep 25 10:12	0°♍	
	7988 Jul 07 01:34	0°♍			7993 Nov 18 17:16	0°♎	
	7988 Aug 15 20:08	0°♎			7994 Jan 04 08:11	0°♏	
	7988 Sep 24 22:14	0°♏			7994 Feb 15 22:31	0°♑	
asc. node	7988 Oct 25 03:42	21°♏42'02			7994 Mar 27 22:03	0°♌	
	7988 Nov 06 07:08	0°♐		evening set	7994 Apr 23 10:48	20°♌37'29	
	7988 Dec 27 05:55	0°♑			7994 May 05 08:32	0°♍	
retrograde	7989 Feb 11 21:20	12°♑41'14			7994 Jun 12 05:35	0°♎	
min. Earth dist.	7989 Mar 14 19:56	6°♑07'14	0.53444 AU	asc. node	7994 Jun 16 21:42	3°♑41'41	
greatest brilliancy	7989 Mar 20 21:54	3°♑48'15	-2.0m				
opposition	7989 Mar 22 06:41	3°♑16'55	5°14'26	conjunction	7994 Jul 02 08:47	15°♑52'27	0°11'06
	7989 Mar 31 09:44	30°♒♎		minimum elong	7994 Jul 02 07:34	15°♑50'04	0°10'56
direct	7989 Apr 26 14:09	25°♎28'19		behind sun begin	7994 Jul 01 08:51	15°♑05'30	
	7989 May 25 06:36	0°♑		behind sun end	7994 Jul 03 06:18	16°♑34'37	
	7989 Aug 01 08:16	0°♒			7994 Jul 20 11:24	0°♏	
	7989 Sep 23 18:06	0°♓		max. Earth dist.	7994 Aug 23 08:26	25°♏50'21	2.39816 AU
desc. node	7989 Oct 10 11:45	9°♓53'49			7994 Aug 28 22:09	0°♐	
	7989 Nov 12 13:24	0°♑		morning rise	7994 Sep 10 05:24	9°♐05'31	
	7989 Dec 29 20:17	0°♒			7994 Oct 09 06:18	0°♑	
evening set	7990 Jan 11 10:40	8°♒15'44			7994 Nov 22 00:56	0°♒	
max. Earth dist.	7990 Jan 29 21:57	20°♒35'26	2.56458 AU		7995 Jan 07 21:41	0°♓	
	7990 Feb 12 17:50	0°♓			7995 Feb 28 19:06	0°♑	
					7995 May 16 18:38	0°♒	
conjunction	7990 Feb 27 22:26	10°♓30'46	-1°01'18	retrograde	7995 May 30 09:10	1°♒03'28	
minimum elong	7990 Feb 27 21:22	10°♓28'56	1°01'15	desc. node	7995 Jun 02 10:46	0°♒59'58	

	7995 Jun 12 07:01	30° κ $\overline{3}$			8000 Sep 24 07:06	0° \mathbb{M}	
opposition	7995 Jul 08 18:06	21° $\overline{3}$ 57'42 -1°16'26	evening set		8000 Oct 16 06:40	14° \mathbb{M} 12'46	
greatest brilliancy	7995 Jul 08 21:37	21° $\overline{3}$ 54'16 -1.4m			8000 Nov 09 22:27	0° $\overline{7}$	
min. Earth dist.	7995 Jul 12 10:25	20° $\overline{3}$ 31'30 0.65693 AU					
direct	7995 Aug 19 07:40	11° $\overline{3}$ 54'38	conjunction		8000 Dec 01 14:25	13° $\overline{7}$ 47'15 0°26'18	
	7995 Oct 21 04:05	0° \approx	minimum elong		8000 Dec 01 15:11	13° $\overline{7}$ 48'28 0°26'26	
	7995 Dec 12 20:10	0° \mathcal{H}	max. Earth dist.		8000 Dec 03 19:27	15° $\overline{7}$ 11'29 2.67850 AU	
	7996 Jan 25 23:51	0° Υ			8000 Dec 27 03:20	0° $\overline{3}$	
	7996 Mar 06 10:16	0° \mathcal{B}	morning rise		8001 Jan 14 14:23	11° $\overline{3}$ 43'30	
	7996 Apr 14 00:19	0° \mathbb{I}	desc. node		8001 Jan 22 03:02	16° $\overline{3}$ 30'39	
asc. node	7996 May 03 22:14	15° \mathbb{I} 42'56			8001 Feb 12 06:59	0° \approx	
	7996 May 22 00:39	0° \mathcal{G}			8001 Mar 31 00:57	0° \mathcal{H}	
	7996 Jun 29 12:10	0° Ω			8001 May 16 08:22	0° Υ	
evening set	7996 Jul 06 00:50	5° Ω 00'19			8001 Jul 01 12:30	0° \mathcal{B}	
	7996 Aug 08 07:00	0° \mathbb{P}			8001 Aug 17 16:36	0° \mathbb{I}	
					8001 Oct 10 19:50	0° \mathcal{G}	
conjunction	7996 Sep 07 08:01	21° \mathbb{P} 46'52 1°04'19	retrograde		8001 Nov 24 04:04	11° \mathcal{G} 24'23	
minimum elong	7996 Sep 07 06:50	21° \mathbb{P} 44'44 1°04'19	min. Earth dist.		8001 Dec 21 19:40	6° \mathcal{G} 54'46 0.36944 AU	
	7996 Sep 18 23:00	0° $\underline{5}$	opposition		8001 Dec 24 19:19	6° \mathcal{G} 05'55 -0°00'40	
max. Earth dist.	7996 Oct 13 21:56	17° $\underline{5}$ 16'01 2.53531 AU	asc. node		8001 Dec 24 22:46	6° \mathcal{G} 03'34	
morning rise	7996 Nov 01 13:08	29° $\underline{5}$ 50'33	greatest brilliancy		8001 Dec 24 19:21	6° \mathcal{G} 05'53 -3.1m	
	7996 Nov 01 18:48	0° \mathbb{M}	direct		8002 Jan 23 03:15	1° \mathcal{G} 11'23	
	7996 Dec 17 19:35	0° $\overline{7}$			8002 Apr 12 02:18	0° Ω	
	7997 Feb 04 04:51	0° $\overline{3}$			8002 May 31 22:53	0° \mathbb{P}	
	7997 Mar 28 04:02	0° \approx			8002 Jul 18 17:29	0° $\underline{5}$	
desc. node	7997 Apr 19 08:41	11° \approx 39'55			8002 Sep 04 11:40	0° \mathbb{M}	
	7997 May 31 09:34	0° \mathcal{H}			8002 Oct 22 10:08	0° $\overline{7}$	
retrograde	7997 Jul 09 21:15	7° \mathcal{H} 43'24	evening set		8002 Nov 22 10:21	19° $\overline{7}$ 28'28	
opposition	7997 Aug 15 19:01	29° \approx 44'21 -4°06'44			8002 Dec 09 02:03	0° $\overline{3}$	
	7997 Aug 15 02:09	30° κ \approx	desc. node		8002 Dec 10 01:39	0° $\overline{3}$ 37'25	
greatest brilliancy	7997 Aug 16 19:10	29° \approx 21'53 -1.8m	max. Earth dist.		8002 Dec 26 04:32	10° $\overline{3}$ 53'07 2.66799 AU	
min. Earth dist.	7997 Aug 23 00:44	27° \approx 03'08 0.56879 AU					
direct	7997 Sep 24 23:38	20° \approx 10'15	conjunction		8003 Jan 06 01:09	17° $\overline{3}$ 50'27 -0°14'09	
	7997 Nov 05 23:06	0° \mathcal{H}	minimum elong		8003 Jan 06 00:43	17° $\overline{3}$ 49'46 0°14'00	
	7997 Dec 30 05:19	0° Υ	behind sun begin		8003 Jan 05 15:38	17° $\overline{3}$ 35'10	
	7998 Feb 11 04:06	0° \mathcal{B}	behind sun end		8003 Jan 06 09:49	18° $\overline{3}$ 04'22	
asc. node	7998 Mar 21 22:13	29° \mathcal{B} 17'25			8003 Jan 24 20:52	0° \approx	
	7998 Mar 22 20:20	0° \mathbb{I}	morning rise		8003 Feb 19 02:18	16° \approx 31'29	
	7998 Apr 30 14:42	0° \mathcal{G}			8003 Mar 11 08:11	0° \mathcal{H}	
	7998 Jun 08 19:33	0° Ω			8003 Apr 24 07:38	0° Υ	
	7998 Jul 19 08:36	0° \mathbb{P}			8003 Jun 05 20:15	0° \mathcal{B}	
	7998 Aug 30 18:07	0° $\underline{5}$			8003 Jul 17 04:15	0° \mathbb{I}	
evening set	7998 Sep 03 12:11	2° $\underline{5}$ 35'23			8003 Aug 26 22:31	0° \mathcal{G}	
	7998 Oct 14 02:39	0° \mathbb{M}			8003 Oct 07 11:38	0° Ω	
			asc. node		8003 Nov 11 21:21	23° Ω 35'16	
conjunction	7998 Oct 25 06:52	7° \mathbb{M} 22'16 0°58'21			8003 Nov 22 13:27	0° \mathbb{P}	
minimum elong	7998 Oct 25 08:01	7° \mathbb{M} 24'10 0°58'25	retrograde		8004 Jan 25 19:25	22° \mathbb{P} 32'33	
max. Earth dist.	7998 Nov 11 07:06	18° \mathbb{M} 28'18 2.63370 AU	min. Earth dist.		8004 Feb 23 08:13	16° \mathbb{P} 53'06 0.48081 AU	
	7998 Nov 29 04:07	0° $\overline{7}$	greatest brilliancy		8004 Mar 01 02:36	14° \mathbb{P} 26'48 -2.2m	
morning rise	7998 Dec 11 11:23	7° $\overline{7}$ 51'49	opposition		8004 Mar 02 15:57	13° \mathbb{P} 52'52 5°12'13	
	7999 Jan 15 12:29	0° $\overline{3}$	direct		8004 Apr 05 03:38	6° \mathbb{P} 50'15	
	7999 Mar 04 22:06	0° \approx			8004 Jun 17 10:48	0° $\underline{5}$	
desc. node	7999 Mar 07 05:33	1° \approx 24'49			8004 Aug 11 18:54	0° \mathbb{M}	
	7999 Apr 23 19:55	0° \mathcal{H}			8004 Oct 01 18:07	0° $\overline{7}$	
	7999 Jun 16 17:43	0° Υ	desc. node		8004 Oct 27 01:14	15° $\overline{7}$ 22'09	
retrograde	7999 Sep 05 13:51	26° Υ 35'29			8004 Nov 19 16:26	0° $\overline{3}$	
opposition	7999 Oct 07 23:41	20° Υ 32'58 -5°56'19	evening set		8004 Dec 27 13:46	24° $\overline{3}$ 04'15	
greatest brilliancy	7999 Oct 09 19:17	19° Υ 58'27 -2.5m			8005 Jan 05 17:02	0° \approx	
min. Earth dist.	7999 Oct 16 06:03	17° Υ 56'43 0.43438 AU	max. Earth dist.		8005 Jan 18 18:05	8° \approx 33'31 2.60372 AU	
direct	7999 Nov 12 05:50	13° Υ 15'27					
	8000 Jan 05 02:27	0° \mathcal{B}	conjunction		8005 Feb 11 11:57	24° \approx 26'07 -0°51'12	
asc. node	8000 Feb 06 22:02	19° \mathcal{B} 49'28	minimum elong		8005 Feb 11 10:43	24° \approx 24'02 0°51'06	
	8000 Feb 22 00:06	0° \mathbb{I}			8005 Feb 19 16:19	0° \mathcal{H}	
	8000 Apr 04 04:22	0° \mathcal{G}	morning rise		8005 Mar 31 12:40	27° \mathcal{H} 48'44	
	8000 May 15 15:33	0° Ω			8005 Apr 03 14:13	0° Υ	
	8000 Jun 26 23:45	0° \mathbb{P}			8005 May 14 16:04	0° \mathcal{B}	
	8000 Aug 09 20:29	0° $\underline{5}$			8005 Jun 23 08:18	0° \mathbb{I}	

	8005 Aug 01 06:27	0°☿			8010 Jul 23 16:25	30°♄♂
	8005 Sep 09 07:33	0°♏	direct		8010 Aug 05 18:31	28°♂♂54'44
asc. node	8005 Sep 28 18:26	14°♏38'25			8010 Aug 19 12:13	0°♄
	8005 Oct 19 17:17	0°♎			8010 Nov 02 17:29	0°♁
	8005 Dec 02 14:43	0°♊			8010 Dec 21 20:47	0°♈
	8006 Jan 26 19:21	0°♌			8011 Feb 03 04:08	0°♐
retrograde	8006 Mar 08 12:18	9°♌26'36			8011 Mar 15 08:15	0°♄
min. Earth dist.	8006 Apr 11 22:11	1°♌39'34	0.60485 AU		8011 Apr 22 19:41	0°♐
greatest brilliancy	8006 Apr 16 11:45	29°♊51'23	-1.6m	asc. node	8011 May 21 14:02	22°♐45'38
	8006 Apr 16 03:02	30°♄♂			8011 May 30 17:47	0°☿
opposition	8006 Apr 17 07:30	29°♊31'52	4°27'58	evening set	8011 Jun 08 03:45	6°☿38'14
direct	8006 May 25 00:30	20°♊50'16			8011 Jul 08 02:09	0°♏
	8006 Jul 07 08:03	0°♌				
	8006 Sep 08 18:23	0°♂	conjunction		8011 Aug 15 14:06	29°♏10'43 0°52'21
desc. node	8006 Sep 14 01:43	2°♂53'57	minimum elong		8011 Aug 15 11:21	29°♏05'36 0°52'15
	8006 Oct 31 00:03	0°♄			8011 Aug 16 16:41	0°♎
	8006 Dec 18 02:13	0°♁			8011 Sep 27 04:15	0°♊
	8007 Feb 01 02:51	0°♈	max. Earth dist.		8011 Sep 30 01:12	2°♊01'18 2.48404 AU
evening set	8007 Feb 05 18:26	3°♈12'20	morning rise		8011 Oct 15 00:27	12°♊26'22
max. Earth dist.	8007 Feb 20 01:37	13°♈11'20			8011 Nov 09 21:30	0°♌
	8007 Mar 15 13:14	0°♐			8011 Dec 26 02:05	0°♂
					8012 Feb 13 07:34	0°♄
conjunction	8007 Mar 29 11:14	10°♐11'50	-1°06'30		8012 Apr 08 12:38	0°♁
minimum elong	8007 Mar 29 11:38	10°♐12'34	1°06'32	desc. node	8012 May 05 22:56	12°♁08'27
	8007 Apr 24 21:27	0°♄		retrograde	8012 Jun 22 12:06	22°♁48'21
morning rise	8007 May 28 05:44	25°♄40'15		opposition	8012 Jul 30 13:58	14°♁18'35 -3°00'43
	8007 Jun 02 18:58	0°♐		greatest brilliancy	8012 Jul 31 04:06	14°♁05'06 -1.6m
	8007 Jul 11 00:17	0°☿		min. Earth dist.	8012 Aug 05 11:47	12°♁03'25 0.61061 AU
asc. node	8007 Aug 16 17:19	28°☿41'36		direct	8012 Sep 09 14:59	4°♁25'07
	8007 Aug 18 09:49	0°♏			8012 Nov 23 13:54	0°♈
	8007 Sep 26 21:53	0°♎			8013 Jan 10 02:04	0°♐
	8007 Nov 07 13:49	0°♊			8013 Feb 20 13:39	0°♄
	8007 Dec 22 23:32	0°♌			8013 Mar 31 14:56	0°♐
	8008 Feb 15 04:56	0°♂	asc. node		8013 Apr 07 14:13	5°♐26'29
retrograde	8008 Apr 11 22:45	15°♂30'15			8013 May 08 23:19	0°☿
min. Earth dist.	8008 May 20 21:09	6°♂14'29	0.67208 AU		8013 Jun 16 19:07	0°♏
opposition	8008 May 22 11:22	5°♂36'24	2°20'06		8013 Jul 26 22:59	0°♎
greatest brilliancy	8008 May 22 08:35	5°♂39'11	-1.3m	evening set	8013 Aug 13 20:09	12°♎56'14
	8008 Jun 06 18:10	30°♄♌			8013 Sep 06 23:57	0°♊
direct	8008 Jul 01 20:10	26°♌01'11				
	8008 Jul 29 07:32	0°♂	conjunction		8013 Oct 08 06:31	21°♊25'22 1°05'16
desc. node	8008 Aug 01 01:53	0°♂45'54	minimum elong		8013 Oct 08 07:14	21°♊26'34 1°05'19
	8008 Oct 06 17:07	0°♄			8013 Oct 21 01:50	0°♌
	8008 Nov 27 00:30	0°♁	max. Earth dist.		8013 Nov 01 06:58	7°♌25'29 2.60143 AU
	8009 Jan 11 21:54	0°♈	morning rise		8013 Nov 26 20:01	24°♌04'38
	8009 Feb 23 08:30	0°♐			8013 Dec 06 01:06	0°♂
evening set	8009 Mar 28 15:38	24°♐51'35			8014 Jan 22 15:22	0°♄
	8009 Apr 04 09:02	0°♄			8014 Mar 12 23:13	0°♁
	8009 May 12 21:25	0°♐	desc. node		8014 Mar 23 21:02	6°♁26'26
max. Earth dist.	8009 May 17 10:05	3°♐34'14			8014 May 04 12:27	0°♈
					8014 Jul 10 03:47	0°♐
conjunction	8009 Jun 01 17:42	15°♐41'05	-0°22'37	retrograde	8014 Aug 11 02:40	5°♐23'02
minimum elong	8009 Jun 01 19:59	15°♐45'36	0°22'43		8014 Sep 10 01:19	30°♄♈
	8009 Jun 19 19:37	0°☿		opposition	8014 Sep 14 14:34	28°♈27'56 -5°35'28
asc. node	8009 Jul 03 15:50	10°☿55'39		greatest brilliancy	8014 Sep 16 07:13	27°♈52'52 -2.2m
	8009 Jul 28 01:07	0°♏		min. Earth dist.	8014 Sep 23 06:46	25°♈29'21 0.48913 AU
morning rise	8009 Aug 13 17:40	12°♏51'27		direct	8014 Oct 22 09:42	19°♈58'28
	8009 Sep 05 10:12	0°♎			8014 Dec 02 07:51	0°♐
	8009 Oct 16 17:07	0°♊			8015 Jan 23 10:18	0°♄
	8009 Nov 29 14:48	0°♌	asc. node		8015 Feb 23 15:05	21°♄55'29
	8010 Jan 16 05:44	0°♂			8015 Mar 06 15:24	0°♐
	8010 Mar 12 14:26	0°♄			8015 Apr 15 17:58	0°☿
retrograde	8010 May 16 06:51	18°♄19'20			8015 May 25 22:53	0°♏
desc. node	8010 Jun 19 00:44	11°♄19'42			8015 Jul 06 08:28	0°♎
opposition	8010 Jun 25 05:28	8°♄55'35	-0°12'54		8015 Aug 18 11:40	0°♊
greatest brilliancy	8010 Jun 25 05:51	8°♄55'13	-1.3m	evening set	8015 Oct 01 10:19	29°♊21'54
min. Earth dist.	8010 Jun 27 10:19	8°♄03'32	0.67405 AU		8015 Oct 02 09:32	0°♌

	8015 Nov 17 17:43	0°♊			8020 Aug 10 00:53	0°♎		
					8020 Sep 18 15:20	0°♏		
conjunction	8015 Nov 18 07:42	0°♊22'22	0°40'24	asc. node	8020 Oct 15 13:25	19°♏46'42		
minimum elong	8015 Nov 18 08:47	0°♊24'07	0°40'31		8020 Oct 29 23:41	0°♐		
max. Earth dist.	8015 Nov 25 21:12	5°♊12'28	2.66762 AU		8020 Dec 15 18:47	0°♑		
morning rise	8016 Jan 02 03:18	28°♊52'20		retrograde	8021 Feb 21 05:32	23°♑17'28		
	8016 Jan 03 22:05	0°♋		min. Earth dist.	8021 Mar 25 10:56	16°♑16'13	0.56145 AU	
desc. node	8016 Feb 08 17:54	22°♋37'56		greatest brilliancy	8021 Mar 31 01:31	14°♑05'51	-1.8m	
	8016 Feb 20 10:08	0°♌		opposition	8021 Apr 01 05:59	13°♑38'14	5°02'45	
	8016 Apr 08 01:15	0°♍		direct	8021 May 07 11:33	5°♑28'40		
	8016 May 26 02:36	0°♎			8021 Jul 24 07:20	0°♒		
	8016 Jul 14 21:07	0°♏			8021 Sep 18 00:42	0°♊		
	8016 Sep 11 09:54	0°♐		desc. node	8021 Sep 30 14:37	7°♊16'29		
retrograde	8016 Oct 22 23:14	9°♐24'55			8021 Nov 07 13:45	0°♋		
opposition	8016 Nov 21 19:39	4°♐28'41	-3°37'48		8021 Dec 25 03:10	0°♌		
greatest brilliancy	8016 Nov 22 09:11	4°♐19'37	-3.0m	evening set	8022 Jan 20 07:04	17°♌15'15		
min. Earth dist.	8016 Nov 24 17:11	3°♐42'16	0.37226 AU	max. Earth dist.	8022 Feb 05 22:10	28°♌30'54	2.53995 AU	
	8016 Dec 11 17:53	30°♑♋			8022 Feb 08 02:11	0°♍		
direct	8016 Dec 22 03:37	29°♋16'00						
	8017 Jan 01 14:40	0°♐		conjunction	8022 Mar 09 23:46	20°♋54'06	-1°05'06	
asc. node	8017 Jan 10 14:20	1°♐44'49		minimum elong	8022 Mar 09 23:03	20°♋52'49	1°05'04	
	8017 Mar 11 18:00	0°♎			8022 Mar 22 16:08	0°♏		
	8017 Apr 27 15:44	0°♏		morning rise	8022 May 02 20:40	0°♋26'56		
	8017 Jun 11 20:19	0°♐			8022 May 02 06:23	0°♋		
	8017 Jul 27 12:03	0°♑			8022 Jun 10 10:12	0°♐		
	8017 Sep 12 02:21	0°♒			8022 Jul 18 20:49	0°♎		
	8017 Oct 29 09:45	0°♊			8022 Aug 26 10:37	0°♏		
evening set	8017 Nov 08 08:39	6°♊17'26		asc. node	8022 Sep 02 10:21	5°♏22'08		
	8017 Dec 15 19:39	0°♋			8022 Oct 05 03:23	0°♐		
max. Earth dist.	8017 Dec 17 14:15	1°♋07'38	2.67883 AU		8022 Nov 16 06:10	0°♑		
					8023 Jan 02 05:38	0°♒		
conjunction	8017 Dec 23 06:42	4°♋44'31	0°01'48		8023 Mar 10 21:09	0°♊		
minimum elong	8017 Dec 23 06:43	4°♋44'33	0°01'57	retrograde	8023 Mar 30 13:30	2°♊21'12		
behind sun begin	8017 Dec 22 12:25	4°♋15'28			8023 Apr 18 04:30	30°♒♌		
behind sun end	8017 Dec 24 01:01	5°♋13'39		min. Earth dist.	8023 May 06 21:34	23°♌36'17	0.65324 AU	
desc. node	8017 Dec 26 15:28	6°♋53'07		opposition	8023 May 09 23:41	22°♌22'25	3°13'51	
	8018 Jan 31 16:28	0°♌		greatest brilliancy	8023 May 09 15:40	22°♌30'24	-1.4m	
morning rise	8018 Feb 04 22:07	2°♌44'23		direct	8023 Jun 18 12:03	13°♌04'25		
	8018 Mar 18 13:24	0°♍		desc. node	8023 Aug 18 14:52	29°♌18'41		
	8018 May 02 05:42	0°♎			8023 Aug 20 04:14	0°♊		
	8018 Jun 14 18:07	0°♏			8023 Oct 17 03:59	0°♋		
	8018 Jul 27 08:50	0°♐			8023 Dec 05 19:04	0°♌		
	8018 Sep 07 22:04	0°♎			8024 Jan 20 05:48	0°♍		
	8018 Oct 23 00:38	0°♏			8024 Mar 02 15:13	0°♏		
asc. node	8018 Nov 28 14:21	19°♏38'31		evening set	8024 Mar 06 08:42	2°♏43'34		
retrograde	8019 Jan 04 20:59	28°♏31'37		max. Earth dist.	8024 Mar 23 19:37	15°♏39'56	2.40856 AU	
min. Earth dist.	8019 Jan 31 07:19	23°♏44'54	0.42656 AU		8024 Apr 11 18:02	0°♋		
greatest brilliancy	8019 Feb 07 03:53	21°♏30'15	-2.6m					
opposition	8019 Feb 08 12:03	21°♏03'38	4°18'45	conjunction	8024 May 04 09:48	17°♋29'44	-0°49'07	
direct	8019 Mar 12 01:06	14°♏56'38		minimum elong	8024 May 04 12:41	17°♋35'20	0°49'12	
	8019 May 06 00:38	0°♐			8024 May 20 09:13	0°♐		
	8019 Jul 01 21:32	0°♑			8024 Jun 27 09:18	0°♎		
	8019 Aug 21 21:02	0°♒		morning rise	8024 Jul 13 19:09	12°♎56'03		
	8019 Oct 10 07:33	0°♊		asc. node	8024 Jul 20 07:56	18°♎03'40		
desc. node	8019 Nov 13 14:39	21°♊13'01			8024 Aug 04 15:23	0°♏		
	8019 Nov 27 15:00	0°♋			8024 Sep 13 00:09	0°♐		
evening set	8019 Dec 14 08:51	10°♋36'00			8024 Oct 24 07:54	0°♑		
max. Earth dist.	8020 Jan 09 17:09	27°♋32'22	2.63522 AU		8024 Dec 07 13:04	0°♒		
	8020 Jan 13 11:55	0°♌			8025 Jan 25 11:44	0°♊		
					8025 Mar 30 14:32	0°♋		
conjunction	8020 Jan 28 08:48	9°♌45'06	-0°38'07	retrograde	8025 May 02 18:20	5°♋49'15		
minimum elong	8020 Jan 28 07:45	9°♌43'23	0°37'59		8025 Jun 02 03:17	30°♒♊		
	8020 Feb 27 14:48	0°♍		opposition	8025 Jun 12 01:55	26°♊11'10	0°48'19	
morning rise	8020 Mar 14 04:33	10°♍39'13		greatest brilliancy	8025 Jun 12 02:41	26°♊10'25	-1.3m	
	8020 Apr 10 21:08	0°♎		min. Earth dist.	8025 Jun 12 19:12	25°♊54'02	0.68109 AU	
	8020 May 22 10:22	0°♏		desc. node	8025 Jul 05 14:46	18°♊16'46		
	8020 Jul 01 14:46	0°♐		direct	8025 Jul 23 08:14	16°♊17'23		

	8025 Sep 16 01:45	0°♄		minimum elong	8030 Nov 03 09:21	16°♌22'04	0°52'38
	8025 Nov 12 17:58	0°♊		max. Earth dist.	8030 Nov 16 19:27	25°♌02'49	2.64827 AU
	8025 Dec 30 03:07	0°♋			8030 Nov 24 12:25	0°♊	
	8026 Feb 10 23:19	0°♌		morning rise	8030 Dec 19 11:58	15°♊55'57	
	8026 Mar 23 00:53	0°♍			8031 Jan 10 18:17	0°♄	
	8026 Apr 30 11:49	0°♎		desc. node	8031 Feb 25 08:21	28°♄29'46	
evening set	8026 May 09 09:18	7°♎01'55			8031 Feb 27 18:31	0°♊	
asc. node	8026 Jun 07 07:20	29°♎56'43			8031 Apr 17 16:09	0°♋	
	8026 Jun 07 09:00	0°♌			8031 Jun 07 16:37	0°♌	
	8026 Jul 15 15:10	0°♍			8031 Aug 06 08:34	0°♍	
				retrograde	8031 Sep 21 18:04	10°♍51'42	
conjunction	8026 Jul 19 03:13	2°♍42'32	0°28'52	opposition	8031 Oct 23 02:05	5°♍18'13	-5°37'54
minimum elong	8026 Jul 19 00:31	2°♍37'18	0°28'42	greatest brilliancy	8031 Oct 24 15:47	4°♍50'00	-2.7m
	8026 Aug 24 02:12	0°♎		min. Earth dist.	8031 Oct 30 04:44	3°♍11'25	0.40712 AU
max. Earth dist.	8026 Sep 09 21:19	12°♎22'38	2.42824 AU		8031 Nov 12 10:23	30°♎♌	
morning rise	8026 Sep 23 18:01	22°♎24'09		direct	8031 Nov 25 13:57	28°♌47'56	
	8026 Oct 04 10:12	0°♎			8031 Dec 08 16:10	0°♍	
	8026 Nov 17 02:38	0°♌		asc. node	8032 Jan 28 08:08	21°♍04'29	
	8027 Jan 02 14:47	0°♊			8032 Feb 12 01:21	0°♎	
	8027 Feb 22 04:55	0°♄			8032 Mar 27 16:26	0°♌	
	8027 Apr 25 13:43	0°♊			8032 May 09 06:47	0°♍	
desc. node	8027 May 23 13:37	7°♊45'01			8032 Jun 21 07:51	0°♎	
retrograde	8027 Jun 07 19:19	9°♊03'52			8032 Aug 04 16:02	0°♎	
opposition	8027 Jul 16 18:52	0°♊09'35	-1°54'28		8032 Sep 19 10:28	0°♌	
greatest brilliancy	8027 Jul 17 01:26	0°♊03'13	-1.4m	evening set	8032 Oct 24 21:35	22°♌45'32	
	8027 Jul 17 04:45	30°♎♄			8032 Nov 05 06:30	0°♊	
min. Earth dist.	8027 Jul 21 06:39	28°♄25'10	0.64301 AU				
direct	8027 Aug 27 06:27	20°♄07'52		conjunction	8032 Dec 09 13:46	21°♊46'47	0°17'27
	8027 Oct 10 02:20	0°♊		minimum elong	8032 Dec 09 14:18	21°♊47'36	0°17'36
	8027 Dec 06 08:50	0°♋		max. Earth dist.	8032 Dec 08 21:59	21°♊21'45	2.68103 AU
	8028 Jan 20 09:43	0°♌			8032 Dec 22 12:33	0°♄	
	8028 Mar 01 03:41	0°♍		desc. node	8033 Jan 12 05:19	13°♄09'56	
	8028 Apr 08 21:05	0°♎		morning rise	8033 Jan 22 07:21	19°♄35'58	
asc. node	8028 Apr 24 06:03	12°♎05'43			8033 Feb 07 13:18	0°♊	
	8028 May 16 23:42	0°♌			8033 Mar 25 22:45	0°♋	
	8028 Jun 24 13:31	0°♍			8033 May 10 13:45	0°♌	
evening set	8028 Jul 21 00:47	20°♍03'04			8033 Jun 24 13:32	0°♍	
	8028 Aug 03 10:38	0°♎			8033 Aug 08 10:51	0°♎	
	8028 Sep 14 04:43	0°♎			8033 Sep 24 08:21	0°♌	
				retrograde	8033 Dec 10 13:42	29°♌41'21	
conjunction	8028 Sep 19 06:07	3°♎32'06	1°06'46	asc. node	8033 Dec 15 07:43	29°♌31'54	
minimum elong	8028 Sep 19 05:47	3°♎31'31	1°06'48	min. Earth dist.	8034 Jan 05 18:44	25°♌21'41	0.38308 AU
max. Earth dist.	8028 Oct 21 01:46	25°♎19'00	2.56097 AU	opposition	8034 Jan 11 12:11	23°♌42'32	1°58'54
	8028 Oct 28 01:27	0°♌		greatest brilliancy	8034 Jan 11 00:15	23°♌51'10	-2.9m
morning rise	8028 Nov 11 02:56	9°♌19'23		direct	8034 Feb 10 04:15	18°♌30'13	
	8028 Dec 13 00:12	0°♊			8034 Mar 28 04:19	0°♍	
	8029 Jan 30 00:14	0°♄			8034 May 23 21:18	0°♎	
	8029 Mar 21 17:58	0°♊			8034 Jul 12 13:51	0°♎	
desc. node	8029 Apr 09 11:15	10°♊24'16			8034 Aug 30 04:59	0°♌	
	8029 May 18 09:49	0°♋			8034 Oct 17 14:08	0°♊	
retrograde	8029 Jul 20 15:26	17°♋22'38		evening set	8034 Nov 30 09:51	27°♊26'49	
opposition	8029 Aug 25 19:25	9°♋43'37	-4°42'36	desc. node	8034 Nov 30 03:49	27°♊17'17	
greatest brilliancy	8029 Aug 27 01:53	9°♋15'50	-1.9m		8034 Dec 04 10:50	0°♄	
min. Earth dist.	8029 Sep 02 17:24	6°♋51'09	0.54219 AU	max. Earth dist.	8034 Dec 31 10:04	17°♄10'45	2.65865 AU
direct	8029 Oct 04 08:25	0°♋26'33					
	8029 Dec 22 01:41	0°♌		conjunction	8035 Jan 14 00:44	25°♄57'11	-0°23'17
	8030 Feb 04 16:22	0°♍		minimum elong	8035 Jan 14 00:03	25°♄56'04	0°23'09
asc. node	8030 Mar 12 06:34	26°♍25'56			8035 Jan 20 06:23	0°♊	
	8030 Mar 16 23:05	0°♎		morning rise	8035 Feb 27 12:32	25°♊14'15	
	8030 Apr 25 01:27	0°♌			8035 Mar 06 14:45	0°♋	
	8030 Jun 03 12:33	0°♍			8035 Apr 19 07:50	0°♌	
	8030 Jul 14 07:02	0°♎			8035 May 31 11:21	0°♍	
	8030 Aug 25 21:21	0°♎			8035 Jul 11 07:53	0°♎	
evening set	8030 Sep 14 04:42	13°♎09'59			8035 Aug 20 11:37	0°♌	
	8030 Oct 09 09:29	0°♌			8035 Sep 30 01:34	0°♍	
				asc. node	8035 Nov 02 05:33	23°♍15'16	
conjunction	8030 Nov 03 08:07	16°♌20'05	0°52'33		8035 Nov 12 11:24	0°♎	

	8036 Jan 09 05:48	0°♄			8041 Mar 30 13:23	0°♄
retrograde	8036 Feb 05 08:09	4°♄50'05		evening set	8041 Apr 11 17:41	9°♄23'57
	8036 Mar 02 11:03	30°♄♂			8041 May 08 01:06	0°♄
min. Earth dist.	8036 Mar 06 05:10	28°♄40'23	0.51097 AU		8041 Jun 14 22:28	0°♄
greatest brilliancy	8036 Mar 12 15:57	26°♄16'01	-2.1m			
opposition	8036 Mar 14 03:39	25°♄42'36	5°18'27	conjunction	8041 Jun 18 21:57	3°♄08'49 -0°03'41
direct	8036 Apr 17 15:57	18°♄13'22		minimum elong	8041 Jun 18 22:23	3°♄09'41 0°03'49
	8036 Jun 05 15:09	0°♄		behind sun begin	8041 Jun 17 16:28	2°♄10'35
	8036 Aug 05 04:01	0°♄		behind sun end	8041 Jun 20 04:17	4°♄08'46
	8036 Sep 26 10:06	0°♄		asc. node	8041 Jun 23 23:06	7°♄08'04
desc. node	8036 Oct 17 04:11	12°♄25'42			8041 Jul 23 03:35	0°♄
	8036 Nov 14 20:20	0°♄		max. Earth dist.	8041 Aug 01 21:36	7°♄32'09 2.37664 AU
	8037 Jan 01 01:18	0°♄		morning rise	8041 Aug 29 18:54	28°♄42'14
evening set	8037 Jan 04 23:17	2°♄33'14			8041 Aug 31 12:33	0°♄
max. Earth dist.	8037 Jan 25 00:04	15°♄47'13	2.58308 AU		8041 Oct 11 18:36	0°♄
	8037 Feb 15 00:50	0°♄			8041 Nov 24 12:40	0°♄
					8042 Jan 10 13:59	0°♄
conjunction	8037 Feb 20 15:55	3°♄51'42 -0°57'32			8042 Mar 04 12:04	0°♄
minimum elong	8037 Feb 20 14:45	3°♄49'41 0°57'28		retrograde	8042 May 24 05:32	26°♄03'21
	8037 Mar 29 20:18	0°♄		desc. node	8042 Jun 09 03:51	24°♄26'22
morning rise	8037 Apr 11 08:54	9°♄02'57		opposition	8042 Jul 02 21:36	16°♄48'59 -0°49'45
	8037 May 09 18:19	0°♄		greatest brilliancy	8042 Jul 02 23:26	16°♄47'12 -1.4m
	8037 Jun 18 06:07	0°♄		min. Earth dist.	8042 Jul 05 22:05	15°♄38'00 0.66595 AU
	8037 Jul 26 23:35	0°♄		direct	8042 Aug 13 12:22	6°♄46'19
	8037 Sep 03 19:30	0°♄			8042 Oct 26 02:26	0°♄
asc. node	8037 Sep 19 04:16	11°♄40'35			8042 Dec 16 02:58	0°♄
	8037 Oct 13 20:30	0°♄			8043 Jan 28 22:44	0°♄
	8037 Nov 25 19:31	0°♄			8043 Mar 10 07:19	0°♄
	8038 Jan 15 04:43	0°♄			8043 Apr 17 20:32	0°♄
retrograde	8038 Mar 16 17:38	18°♄23'58		asc. node	8043 May 11 23:33	19°♄04'02
min. Earth dist.	8038 Apr 21 06:08	10°♄14'51	0.62471 AU		8043 May 25 19:30	0°♄
opposition	8038 Apr 25 20:11	8°♄25'38	4°02'57	evening set	8043 Jun 24 16:35	23°♄24'52
greatest brilliancy	8038 Apr 25 05:02	8°♄40'40	-1.5m		8043 Jul 03 04:49	0°♄
	8038 May 25 07:21	30°♄♂			8043 Aug 11 20:31	0°♄
direct	8038 Jun 03 06:43	29°♄29'27				
	8038 Jun 12 13:29	0°♄		conjunction	8043 Aug 29 11:13	12°♄54'35 1°00'32
	8038 Sep 01 20:45	0°♄		minimum elong	8043 Aug 29 09:18	12°♄51'07 1°00'28
desc. node	8038 Sep 04 04:53	1°♄12'43			8043 Sep 22 09:00	0°♄
	8038 Oct 25 15:18	0°♄		max. Earth dist.	8043 Oct 08 23:15	11°♄34'16 2.51316 AU
	8038 Dec 13 05:13	0°♄		morning rise	8043 Oct 25 20:25	23°♄06'41
	8039 Jan 27 09:31	0°♄			8043 Nov 05 02:11	0°♄
evening set	8039 Feb 15 21:43	13°♄34'40			8043 Dec 21 02:50	0°♄
max. Earth dist.	8039 Mar 01 21:09	23°♄31'54	2.46159 AU		8044 Feb 07 18:14	0°♄
	8039 Mar 10 19:47	0°♄			8044 Mar 31 18:27	0°♄
				desc. node	8044 Apr 26 01:51	12°♄35'29
conjunction	8039 Apr 10 20:03	22°♄58'59 -1°03'25			8044 Jun 15 03:22	0°♄
minimum elong	8039 Apr 10 21:24	23°♄01'30 1°03'28		retrograde	8044 Jul 02 02:41	1°♄37'09
	8039 Apr 20 02:22	0°♄			8044 Jul 18 03:39	30°♄♂
	8039 May 28 21:49	0°♄		opposition	8044 Aug 08 14:20	23°♄23'26 -3°38'58
morning rise	8039 Jun 13 12:38	12°♄15'31		greatest brilliancy	8044 Aug 09 09:53	23°♄05'01 -1.7m
	8039 Jul 06 01:09	0°♄		min. Earth dist.	8044 Aug 15 06:44	20°♄52'44 0.58867 AU
asc. node	8039 Aug 07 01:24	25°♄05'37		direct	8044 Sep 18 06:00	13°♄39'07
	8039 Aug 13 09:04	0°♄			8044 Nov 13 21:51	0°♄
	8039 Sep 21 19:02	0°♄			8045 Jan 03 11:59	0°♄
	8039 Nov 02 06:00	0°♄			8045 Feb 14 18:25	0°♄
	8039 Dec 17 00:54	0°♄			8045 Mar 26 03:55	0°♄
	8040 Feb 06 10:37	0°♄		asc. node	8045 Mar 28 23:59	2°♄11'58
retrograde	8040 Apr 19 11:38	23°♄16'14			8045 May 03 17:10	0°♄
min. Earth dist.	8040 May 29 05:43	13°♄45'24	0.67809 AU		8045 Jun 11 16:59	0°♄
opposition	8040 May 30 00:11	13°♄27'02	1°47'05		8045 Jul 22 00:34	0°♄
greatest brilliancy	8040 May 29 23:21	13°♄27'51	-1.3m	evening set	8045 Aug 25 21:06	24°♄53'51
direct	8040 Jul 09 18:39	3°♄44'07			8045 Sep 02 04:39	0°♄
desc. node	8040 Jul 22 04:51	4°♄37'11			8045 Oct 16 08:49	0°♄
	8040 Sep 29 14:44	0°♄				
	8040 Nov 21 13:47	0°♄		conjunction	8045 Oct 18 03:49	1°♄11'26 1°01'46
	8041 Jan 06 22:33	0°♄		minimum elong	8045 Oct 18 04:51	1°♄13'09 1°01'50
	8041 Feb 18 12:27	0°♄		max. Earth dist.	8045 Nov 07 07:09	14°♄26'40 2.62022 AU

	8045 Dec 01 08:01	0°♊		greatest brilliancy	8051 Feb 20 12:45	5°♎25'13	-2.4m
morning rise	8045 Dec 05 07:26	2°♊32'53		opposition	8051 Feb 22 01:38	4°♎52'53	4°57'58
	8046 Jan 17 17:51	0°♊			8051 Mar 10 13:33	30°♎♎	
	8046 Mar 07 11:38	0°♊		direct	8051 Mar 26 15:57	28°♎14'17	
desc. node	8046 Mar 13 22:45	3°♊54'19			8051 Apr 12 14:27	0°♎	
	8046 Apr 27 07:54	0°♊			8051 Jun 23 21:27	0°♎	
	8046 Jun 23 12:35	0°♊			8051 Aug 15 23:59	0°♎	
retrograde	8046 Aug 24 21:54	17°♊21'18			8051 Oct 05 05:54	0°♊	
opposition	8046 Sep 27 06:17	10°♊54'33	-5°53'00	desc. node	8051 Nov 03 17:48	18°♊04'08	
greatest brilliancy	8046 Sep 29 02:14	10°♊18'12	-2.3m		8051 Nov 22 21:47	0°♊	
min. Earth dist.	8046 Oct 05 22:01	8°♊03'42	0.45855 AU	evening set	8051 Dec 22 10:17	18°♊42'36	
direct	8046 Nov 02 18:42	3°♊01'40			8052 Jan 08 21:35	0°♊	
	8047 Jan 13 17:12	0°♊		max. Earth dist.	8052 Jan 15 08:21	4°♊12'48	2.61875 AU
asc. node	8047 Feb 13 23:41	20°♊36'21					
	8047 Feb 27 07:15	0°♊		conjunction	8052 Feb 05 20:45	18°♊27'21	-0°46'01
	8047 Apr 09 08:53	0°♊		minimum elong	8052 Feb 05 19:34	18°♊25'23	0°45'54
	8047 May 20 03:54	0°♊			8052 Feb 22 23:20	0°♊	
	8047 Jul 01 00:03	0°♊		morning rise	8052 Mar 23 19:00	20°♊36'40	
	8047 Aug 13 11:09	0°♊			8052 Apr 06 01:49	0°♊	
	8047 Sep 27 14:49	0°♊			8052 May 17 09:14	0°♊	
evening set	8047 Oct 10 14:35	8°♊27'28			8052 Jun 26 07:09	0°♊	
	8047 Nov 13 02:03	0°♊			8052 Aug 04 10:11	0°♊	
					8052 Sep 12 16:01	0°♊	
conjunction	8047 Nov 26 13:16	8°♊35'32	0°32'21	asc. node	8052 Oct 05 20:31	17°♊18'41	
minimum elong	8047 Nov 26 14:11	8°♊37'01	0°32'28		8052 Oct 23 08:40	0°♊	
max. Earth dist.	8047 Dec 01 01:23	11°♊27'38	2.67465 AU		8052 Dec 07 01:39	0°♊	
	8047 Dec 30 06:10	0°♊			8053 Feb 07 19:08	0°♊	
morning rise	8048 Jan 09 20:35	6°♊43'12		retrograde	8053 Mar 02 02:16	3°♊11'09	
desc. node	8048 Jan 29 19:50	19°♊22'55			8053 Mar 23 07:51	30°♊♎	
	8048 Feb 15 13:21	0°♊		min. Earth dist.	8053 Apr 04 13:29	25°♎44'02	0.58659 AU
	8048 Apr 02 16:02	0°♊		opposition	8053 Apr 10 14:34	23°♎21'53	4°44'34
	8048 May 19 15:59	0°♊		greatest brilliancy	8053 Apr 09 15:00	23°♎44'59	-1.7m
	8048 Jul 06 02:58	0°♊		direct	8053 May 17 17:12	14°♎53'37	
	8048 Aug 25 05:07	0°♊			8053 Jul 14 14:34	0°♊	
retrograde	8048 Nov 10 08:58	27°♊37'29			8053 Sep 12 00:09	0°♊	
opposition	8048 Dec 10 07:26	22°♊38'10	-1°40'26	desc. node	8053 Sep 20 18:00	4°♊54'18	
greatest brilliancy	8048 Dec 10 09:15	22°♊36'58	-3.1m		8053 Nov 02 11:54	0°♊	
min. Earth dist.	8048 Dec 09 23:18	22°♊43'35	0.36614 AU		8053 Dec 20 09:37	0°♊	
asc. node	8049 Jan 01 00:13	18°♊08'41		evening set	8054 Jan 29 11:06	26°♊35'23	
direct	8049 Jan 08 19:40	17°♊44'31			8054 Feb 03 10:51	0°♊	
	8049 Feb 24 04:49	0°♊		max. Earth dist.	8054 Feb 13 13:26	6°♊58'43	2.51362 AU
	8049 Apr 18 22:01	0°♊			8054 Mar 18 00:01	0°♊	
	8049 Jun 05 04:24	0°♊					
	8049 Jul 21 20:29	0°♊		conjunction	8054 Mar 20 16:05	1°♊56'11	-1°06'51
	8049 Sep 07 00:41	0°♊		minimum elong	8054 Mar 20 15:54	1°♊55'52	1°06'52
	8049 Oct 24 15:45	0°♊			8054 Apr 27 11:45	0°♊	
evening set	8049 Nov 16 10:38	14°♊20'45		morning rise	8054 May 16 14:16	14°♊34'35	
	8049 Dec 11 04:52	0°♊			8054 Jun 05 12:34	0°♊	
desc. node	8049 Dec 16 18:13	3°♊31'39			8054 Jul 13 20:03	0°♊	
max. Earth dist.	8049 Dec 22 15:24	7°♊16'12	2.67385 AU		8054 Aug 21 06:45	0°♊	
				asc. node	8054 Aug 23 19:02	1°♊56'21	
conjunction	8049 Dec 31 03:20	12°♊41'31	-0°07'35		8054 Sep 29 19:32	0°♊	
minimum elong	8049 Dec 31 03:06	12°♊41'08	0°07'26		8054 Nov 10 13:30	0°♊	
behind sun begin	8049 Dec 30 10:32	12°♊14'41			8054 Dec 26 09:39	0°♊	
behind sun end	8049 Dec 31 19:39	13°♊07'36			8055 Feb 21 11:07	0°♊	
	8050 Jan 27 00:59	0°♊		retrograde	8055 Apr 07 06:11	10°♊26'59	
morning rise	8050 Feb 12 22:43	11°♊00'26		min. Earth dist.	8055 May 15 12:37	1°♊24'26	0.66500 AU
	8050 Mar 13 16:57	0°♊		opposition	8055 May 17 18:53	0°♊30'21	2°42'55
	8050 Apr 27 00:12	0°♊		greatest brilliancy	8055 May 17 14:05	0°♊35'08	-1.4m
	8050 Jun 08 23:12	0°♊			8055 May 19 01:25	30°♊♎	
	8050 Jul 20 19:47	0°♊		direct	8055 Jun 26 19:45	21°♊02'11	
	8050 Aug 31 05:37	0°♊		desc. node	8055 Aug 08 18:03	29°♊55'49	
	8050 Oct 12 20:51	0°♊			8055 Aug 08 22:40	0°♊	
asc. node	8050 Nov 18 23:31	23°♊16'09			8055 Oct 11 00:52	0°♊	
	8050 Dec 01 17:30	0°♊			8055 Nov 30 15:31	0°♊	
retrograde	8051 Jan 17 02:15	13°♊03'57			8056 Jan 15 09:44	0°♊	
min. Earth dist.	8051 Feb 13 15:09	7°♊49'06	0.45606 AU		8056 Feb 26 21:11	0°♊	

evening set	8056 Mar 18 12:34	15° Υ 15'26		morning rise	8060 Nov 20 06:01	18° \mathbb{M} 23'26	
	8056 Apr 06 23:44	0° \mathcal{B}			8060 Dec 08 05:34	0° \mathcal{A}	
max. Earth dist.	8056 Apr 14 15:06	5° \mathcal{B} 52'01	2.38243 AU		8061 Jan 24 22:36	0° \mathcal{Z}	
	8056 May 15 13:59	0° \mathbb{I}			8061 Mar 15 18:10	0° \approx	
				desc. node	8061 Mar 30 13:40	8° \approx 33'57	
conjunction	8056 May 19 21:18	3° \mathbb{I} 23'24	-0°35'28		8061 May 08 22:15	0° \mathcal{H}	
minimum elong	8056 May 20 00:15	3° \mathbb{I} 29'14	0°35'34	retrograde	8061 Aug 01 08:49	27° \mathcal{H} 45'52	
	8056 Jun 22 12:59	0° \mathcal{E}		opposition	8061 Sep 05 15:49	20° \mathcal{H} 29'59	-5°14'47
asc. node	8056 Jul 10 17:24	14° \mathcal{E} 20'28		greatest brilliancy	8061 Sep 07 04:27	19° \mathcal{H} 57'30	-2.0m
	8056 Jul 30 18:08	0° Ω		min. Earth dist.	8061 Sep 14 02:13	17° \mathcal{H} 31'19	0.51353 AU
morning rise	8056 Jul 31 11:15	0° Ω 33'13		direct	8061 Oct 14 08:31	11° \mathcal{H} 36'14	
	8056 Sep 08 02:00	0° \mathbb{P}			8061 Dec 11 18:14	0° Υ	
	8056 Oct 19 07:26	0° \mathcal{L}			8062 Jan 28 11:55	0° \mathcal{B}	
	8056 Dec 02 05:52	0° \mathbb{M}		asc. node	8062 Mar 02 16:39	24° \mathcal{B} 00'07	
	8057 Jan 19 05:21	0° \mathcal{A}			8062 Mar 10 17:23	0° \mathbb{I}	
	8057 Mar 17 19:29	0° \mathcal{Z}			8062 Apr 19 07:34	0° \mathcal{E}	
retrograde	8057 May 10 10:26	13° \mathcal{Z} 28'12			8062 May 29 02:48	0° Ω	
opposition	8057 Jun 19 14:16	3° \mathcal{Z} 57'34	0°12'41		8062 Jul 09 04:00	0° \mathbb{P}	
greatest brilliancy	8057 Jun 19 14:42	3° \mathcal{Z} 57'08	-1.3m		8062 Aug 20 23:41	0° \mathcal{L}	
min. Earth dist.	8057 Jun 21 03:14	3° \mathcal{Z} 21'05	0.67852 AU	evening set	8062 Sep 24 04:46	23° \mathcal{L} 04'37	
desc. node	8057 Jun 25 17:18	1° \mathcal{Z} 33'50			8062 Oct 04 15:54	0° \mathbb{M}	
	8057 Jun 29 22:06	30° \mathcal{R} \mathcal{A}					
direct	8057 Jul 31 01:44	23° \mathcal{A} 59'19		conjunction	8062 Nov 11 23:59	24° \mathbb{M} 56'57	0°45'44
	8057 Sep 03 03:56	0° \mathcal{Z}		minimum elong	8062 Nov 12 01:10	24° \mathbb{M} 58'51	0°45'51
	8057 Nov 06 09:18	0° \approx			8062 Nov 19 20:41	0° \mathcal{A}	
	8057 Dec 24 18:48	0° \mathcal{H}		max. Earth dist.	8062 Nov 22 03:50	1° \mathcal{A} 28'21	2.65999 AU
	8058 Feb 05 22:35	0° Υ		morning rise	8062 Dec 27 08:30	23° \mathcal{A} 52'17	
	8058 Mar 18 02:30	0° \mathcal{B}			8063 Jan 06 01:06	0° \mathcal{Z}	
	8058 Apr 25 14:12	0° \mathbb{I}		desc. node	8063 Feb 15 10:37	25° \mathcal{Z} 25'23	
evening set	8058 May 26 00:49	24° \mathbb{I} 05'57			8063 Feb 22 17:52	0° \approx	
asc. node	8058 May 28 15:30	26° \mathbb{I} 10'03			8063 Apr 11 20:43	0° \mathcal{H}	
	8058 Jun 02 11:43	0° \mathcal{E}			8063 May 30 23:44	0° Υ	
	8058 Jul 10 18:26	0° Ω			8063 Jul 22 12:31	0° \mathcal{B}	
				retrograde	8063 Oct 09 10:50	26° \mathcal{B} 48'21	
conjunction	8058 Aug 04 01:00	18° Ω 34'50	0°43'40	opposition	8063 Nov 08 19:56	21° \mathcal{B} 40'15	-4°44'56
minimum elong	8058 Aug 03 21:54	18° Ω 28'59	0°43'32	greatest brilliancy	8063 Nov 09 21:25	21° \mathcal{B} 22'27	-2.9m
	8058 Aug 19 06:24	0° \mathbb{P}		min. Earth dist.	8063 Nov 13 23:22	20° \mathcal{B} 14'33	0.38462 AU
max. Earth dist.	8058 Sep 22 05:34	24° \mathbb{P} 45'10	2.45939 AU	direct	8063 Dec 10 10:20	15° \mathcal{B} 57'26	
	8058 Sep 29 14:51	0° \mathcal{L}		asc. node	8064 Jan 18 15:53	25° \mathcal{B} 24'45	
morning rise	8058 Oct 06 04:21	4° \mathcal{L} 37'10			8064 Jan 28 11:16	0° \mathbb{I}	
	8058 Nov 12 06:03	0° \mathbb{M}			8064 Mar 18 20:09	0° \mathcal{E}	
	8058 Dec 28 11:35	0° \mathcal{A}			8064 May 02 07:45	0° Ω	
	8059 Feb 16 03:04	0° \mathcal{Z}			8064 Jun 15 09:06	0° \mathbb{P}	
	8059 Apr 14 08:30	0° \approx			8064 Jul 30 08:21	0° \mathcal{L}	
desc. node	8059 May 13 15:39	11° \approx 25'42			8064 Sep 14 12:25	0° \mathbb{M}	
retrograde	8059 Jun 16 13:27	17° \approx 17'53			8064 Oct 31 13:53	0° \mathcal{A}	
opposition	8059 Jul 25 02:15	8° \approx 36'26	-2°32'51	evening set	8064 Nov 02 05:35	1° \mathcal{A} 02'55	
greatest brilliancy	8059 Jul 25 12:47	8° \approx 26'19	-1.5m	max. Earth dist.	8064 Dec 13 23:38	27° \mathcal{A} 30'22	2.68090 AU
min. Earth dist.	8059 Jul 30 09:18	6° \approx 34'28	0.62638 AU				
	8059 Aug 20 23:49	30° \mathcal{R} \mathcal{Z}		conjunction	8064 Dec 17 10:00	29° \mathcal{A} 41'06	0°08'22
direct	8059 Sep 04 09:44	28° \mathcal{Z} 38'12		minimum elong	8064 Dec 17 10:14	29° \mathcal{A} 41'29	0°08'30
	8059 Sep 19 10:39	0° \approx		behind sun begin	8064 Dec 16 18:23	29° \mathcal{A} 16'19	
	8059 Nov 29 05:23	0° \mathcal{H}		behind sun end	8064 Dec 18 02:06	0° \mathcal{Z} 06'39	
	8060 Jan 14 14:10	0° Υ			8064 Dec 17 21:55	0° \mathcal{Z}	
	8060 Feb 24 18:17	0° \mathcal{B}		desc. node	8065 Jan 02 07:57	9° \mathcal{Z} 48'27	
	8060 Apr 03 16:17	0° \mathbb{I}		morning rise	8065 Jan 30 00:57	27° \mathcal{Z} 32'27	
asc. node	8060 Apr 14 15:34	8° \mathbb{I} 35'58			8065 Feb 02 20:41	0° \approx	
	8060 May 11 21:37	0° \mathcal{E}			8065 Mar 20 23:19	0° \mathcal{H}	
	8060 Jun 19 13:45	0° Ω			8065 May 05 01:38	0° Υ	
	8060 Jul 29 13:25	0° \mathbb{P}			8065 Jun 18 04:23	0° \mathcal{B}	
evening set	8060 Aug 03 21:36	3° \mathbb{P} 54'38			8065 Jul 31 15:28	0° \mathbb{I}	
	8060 Sep 09 09:47	0° \mathcal{L}			8065 Sep 13 13:01	0° \mathcal{E}	
					8065 Nov 01 08:07	0° Ω	
conjunction	8060 Sep 30 08:08	14° \mathcal{L} 28'18	1°06'40	asc. node	8065 Dec 05 15:51	14° Ω 16'47	
minimum elong	8060 Sep 30 08:29	14° \mathcal{L} 28'53	1°06'43	retrograde	8065 Dec 25 11:52	16° Ω 59'20	
	8060 Oct 23 08:00	0° \mathbb{M}		min. Earth dist.	8066 Jan 20 10:47	12° Ω 29'50	0.40482 AU
max. Earth dist.	8060 Oct 27 17:29	2° \mathbb{M} 55'38	2.58434 AU	opposition	8066 Jan 27 21:53	10° Ω 11'03	3°31'15

greatest brilliancy	8066 Jan 26 20:51	10°♏30'37	-2.8m	conjunction	8071 Apr 24 04:43	6°♎46'22	-0°56'48
direct	8066 Feb 27 13:54	4°♏30'08		minimum elong	8071 Apr 24 07:02	6°♎50'49	0°56'53
	8066 May 14 00:47	0°♏			8071 May 24 01:56	0°♏	
	8066 Jul 05 21:48	0°♏		morning rise	8071 Jun 30 20:12	29°♏45'45	
	8066 Aug 24 17:25	0°♏			8071 Jul 01 03:25	0°♏	
	8066 Oct 12 15:56	0°♏		asc. node	8071 Jul 28 09:37	21°♏25'42	
desc. node	8066 Nov 20 07:12	24°♏02'03			8071 Aug 08 09:40	0°♏	
	8066 Nov 29 18:47	0°♏			8071 Sep 16 17:53	0°♏	
evening set	8066 Dec 08 08:58	5°♏25'50			8071 Oct 28 01:16	0°♏	
max. Earth dist.	8067 Jan 05 18:17	23°♏35'11	2.64676 AU		8071 Dec 11 09:17	0°♏	
	8067 Jan 15 15:48	0°♏			8072 Jan 30 00:44	0°♏	
					8072 Apr 14 08:37	0°♏	
conjunction	8067 Jan 22 03:07	4°♏13'17	-0°32'05	retrograde	8072 Apr 27 01:29	0°♏57'57	
minimum elong	8067 Jan 22 02:12	4°♏11'48	0°31'58		8072 May 09 06:19	30°♏♏	
	8067 Mar 01 21:54	0°♏		opposition	8072 Jun 06 12:21	21°♏14'34	1°12'59
morning rise	8067 Mar 08 06:20	4°♏18'19		greatest brilliancy	8072 Jun 06 12:43	21°♏14'12	-1.3m
	8067 Apr 14 09:55	0°♏		min. Earth dist.	8072 Jun 06 13:47	21°♏13'08	0.68100 AU
	8067 May 26 05:59	0°♏		desc. node	8072 Jul 12 07:30	11°♏35'29	
	8067 Jul 05 17:45	0°♏		direct	8072 Jul 17 14:24	11°♏25'11	
	8067 Aug 14 10:57	0°♏			8072 Sep 21 10:02	0°♏	
	8067 Sep 23 09:27	0°♏			8072 Nov 15 20:31	0°♏	
asc. node	8067 Oct 23 15:21	21°♏53'06			8073 Jan 01 20:16	0°♏	
	8067 Nov 04 08:42	0°♏			8073 Feb 13 15:16	0°♏	
	8067 Dec 23 12:52	0°♏			8073 Mar 25 17:33	0°♏	
retrograde	8068 Feb 15 04:10	16°♏07'21		evening set	8073 Apr 26 20:54	24°♏59'43	
min. Earth dist.	8068 Mar 17 08:31	9°♏29'03	0.53960 AU		8073 May 03 05:24	0°♏	
greatest brilliancy	8068 Mar 23 09:32	7°♏10'42	-1.9m		8073 Jun 10 02:37	0°♏	
opposition	8068 Mar 24 17:38	6°♏40'00	5°12'57	asc. node	8073 Jun 14 08:52	3°♏22'18	
	8068 Apr 15 18:02	30°♏♏					
direct	8068 Apr 29 05:59	28°♏47'21		conjunction	8073 Jul 06 01:43	20°♏27'16	0°15'28
	8068 May 13 12:04	0°♏		minimum elong	8073 Jul 06 00:04	20°♏24'03	0°15'18
	8068 Jul 28 19:22	0°♏		behind sun begin	8073 Jul 05 14:40	20°♏05'38	
	8068 Sep 20 20:44	0°♏		behind sun end	8073 Jul 06 09:29	20°♏42'27	
desc. node	8068 Oct 07 07:04	9°♏39'11			8073 Jul 18 07:35	0°♏	
	8068 Nov 09 22:21	0°♏			8073 Aug 26 16:35	0°♏	
	8068 Dec 27 09:07	0°♏		max. Earth dist.	8073 Aug 28 00:34	0°♏59'36	2.40352 AU
evening set	8069 Jan 13 14:01	11°♏16'47		morning rise	8073 Sep 13 08:31	13°♏02'36	
max. Earth dist.	8069 Jan 31 14:00	23°♏19'29	2.56013 AU		8073 Oct 06 22:12	0°♏	
	8069 Feb 10 09:26	0°♏			8073 Nov 19 13:23	0°♏	
					8074 Jan 05 04:29	0°♏	
conjunction	8069 Mar 02 06:27	13°♏45'55	-1°02'32		8074 Feb 25 11:45	0°♏	
minimum elong	8069 Mar 02 05:29	13°♏44'13	1°02'29		8074 May 05 07:33	0°♏	
	8069 Mar 25 03:00	0°♏		desc. node	8074 May 30 06:52	3°♏53'22	
morning rise	8069 Apr 23 02:03	21°♏10'47		retrograde	8074 Jun 01 10:05	3°♏55'01	
	8069 May 04 21:28	0°♏			8074 Jun 26 09:42	30°♏♏	
	8069 Jun 13 05:22	0°♏		opposition	8074 Jul 10 18:12	24°♏51'13	-1°27'16
	8069 Jul 21 19:05	0°♏		greatest brilliancy	8074 Jul 10 22:23	24°♏47'09	-1.4m
	8069 Aug 29 10:52	0°♏		min. Earth dist.	8074 Jul 14 14:28	23°♏21'25	0.65450 AU
asc. node	8069 Sep 09 12:35	8°♏28'17		direct	8074 Aug 21 08:38	14°♏48'20	
	8069 Oct 08 05:46	0°♏			8074 Oct 16 21:49	0°♏	
	8069 Nov 19 13:46	0°♏			8074 Dec 09 23:46	0°♏	
	8070 Jan 06 11:56	0°♏			8075 Jan 23 12:40	0°♏	
retrograde	8070 Mar 24 17:07	26°♏58'18			8075 Mar 05 03:13	0°♏	
min. Earth dist.	8070 Apr 30 06:40	18°♏28'47	0.64165 AU		8075 Apr 12 19:12	0°♏	
opposition	8070 May 04 00:52	16°♏59'04	3°35'11	asc. node	8075 May 02 07:55	15°♏23'56	
greatest brilliancy	8070 May 03 13:59	17°♏09'54	-1.5m		8075 May 20 20:05	0°♏	
direct	8070 Jun 12 02:39	7°♏50'07			8075 Jun 28 07:10	0°♏	
desc. node	8070 Aug 25 07:12	0°♏07'12		evening set	8075 Jul 10 11:56	9°♏20'14	
	8070 Aug 25 01:11	0°♏			8075 Aug 07 00:48	0°♏	
	8070 Oct 20 01:16	0°♏					
	8070 Dec 08 06:35	0°♏		conjunction	8075 Sep 11 04:11	25°♏26'34	1°05'13
	8071 Jan 22 15:53	0°♏		minimum elong	8075 Sep 11 03:13	25°♏24'52	1°05'11
evening set	8071 Feb 26 14:46	24°♏33'40			8075 Sep 17 15:02	0°♏	
	8071 Mar 06 03:04	0°♏		max. Earth dist.	8075 Oct 16 16:37	20°♏06'17	2.54045 AU
max. Earth dist.	8071 Mar 13 09:09	5°♏18'16	2.43206 AU		8075 Oct 31 08:38	0°♏	
	8071 Apr 15 08:23	0°♏		morning rise	8075 Nov 04 21:29	3°♏01'38	
					8075 Dec 16 06:35	0°♏	

	8076 Feb 02 11:15	0°♁	direct	8081 Jan 26 23:52	5°♁53'18	
	8076 Mar 24 23:06	0°♁		8081 Apr 07 19:38	0°♁	
desc. node	8076 Apr 16 04:23	11°♁54'15		8081 May 28 19:32	0°♁	
	8076 May 25 10:22	0°♁		8081 Jul 15 22:11	0°♁	
retrograde	8076 Jul 12 06:58	10°♁50'06		8081 Sep 01 19:41	0°♁	
opposition	8076 Aug 18 02:32	2°♁54'34 -4°16'06		8081 Oct 19 20:00	0°♁	
greatest brilliancy	8076 Aug 19 04:10	2°♁30'50 -1.8m	evening set	8081 Nov 24 10:53	22°♁21'08	
	8076 Aug 25 23:52	30°♁	desc. node	8081 Dec 06 20:23	0°♁10'58	
min. Earth dist.	8076 Aug 25 12:45	0°♁10'03 0.56397 AU		8081 Dec 06 13:28	0°♁	
direct	8076 Sep 27 05:45	23°♁23'11	max. Earth dist.	8081 Dec 27 19:13	13°♁30'42 2.66656 AU	
	8076 Oct 30 20:08	0°♁				
	8076 Dec 27 04:11	0°♁	conjunction	8082 Jan 08 01:02	20°♁43'16 -0°16'50	
	8077 Feb 08 14:50	0°♁	minimum elong	8082 Jan 08 00:32	20°♁42'28 0°16'41	
asc. node	8077 Mar 19 08:03	29°♁07'43		8082 Jan 22 09:45	0°♁	
	8077 Mar 20 11:17	0°♁	morning rise	8082 Feb 21 03:44	19°♁29'47	
	8077 Apr 28 07:02	0°♁		8082 Mar 08 22:10	0°♁	
	8077 Jun 06 11:52	0°♁		8082 Apr 21 22:07	0°♁	
	8077 Jul 17 00:08	0°♁		8082 Jun 03 10:23	0°♁	
	8077 Aug 28 08:28	0°♁		8082 Jul 14 17:03	0°♁	
evening set	8077 Sep 06 03:23	6°♁03'23		8082 Aug 24 08:15	0°♁	
	8077 Oct 11 15:43	0°♁		8082 Oct 04 14:06	0°♁	
			asc. node	8082 Nov 09 07:40	24°♁12'25	
conjunction	8077 Oct 27 13:00	10°♁28'18 0°56'50		8082 Nov 18 15:41	0°♁	
minimum elong	8077 Oct 27 14:11	10°♁30'15 0°56'56	retrograde	8083 Jan 28 07:29	26°♁19'21	
max. Earth dist.	8077 Nov 12 23:16	21°♁10'11 2.63686 AU	min. Earth dist.	8083 Feb 26 02:57	20°♁34'40 0.48657 AU	
	8077 Nov 26 15:53	0°♁	greatest brilliancy	8083 Mar 04 20:37	18°♁07'55 -2.2m	
morning rise	8077 Dec 13 11:53	10°♁45'33	opposition	8083 Mar 06 10:08	17°♁33'41 5°16'07	
	8078 Jan 12 22:39	0°♁	direct	8083 Apr 09 02:09	10°♁25'56	
	8078 Mar 02 05:18	0°♁		8083 Jun 14 03:56	0°♁	
desc. node	8078 Mar 04 01:26	1°♁07'46		8083 Aug 09 16:33	0°♁	
	8078 Apr 20 20:06	0°♁		8083 Sep 29 23:55	0°♁	
	8078 Jun 12 19:50	0°♁	desc. node	8083 Oct 24 20:33	15°♁02'30	
	8078 Aug 30 22:58	0°♁		8083 Nov 18 02:23	0°♁	
retrograde	8078 Sep 08 23:06	0°♁29'28	evening set	8083 Dec 30 16:04	27°♁01'50	
	8078 Sep 17 17:32	30°♁		8084 Jan 04 05:54	0°♁	
opposition	8078 Oct 11 04:07	24°♁32'08 -5°53'41	max. Earth dist.	8084 Jan 21 07:51	11°♁12'21 2.60002 AU	
greatest brilliancy	8078 Oct 12 22:55	23°♁58'27 -2.5m				
min. Earth dist.	8078 Oct 19 06:04	22°♁00'36 0.42907 AU	conjunction	8084 Feb 14 16:57	27°♁32'46 -0°53'06	
direct	8078 Nov 15 02:20	17°♁22'38	minimum elong	8084 Feb 14 15:44	27°♁30'42 0°53'01	
	8078 Dec 30 20:51	0°♁		8084 Feb 18 07:30	0°♁	
asc. node	8079 Feb 04 09:34	20°♁27'34		8084 Apr 01 07:11	0°♁	
	8079 Feb 18 19:49	0°♁	morning rise	8084 Apr 03 00:26	1°♁13'44	
	8079 Apr 02 10:48	0°♁		8084 May 12 10:12	0°♁	
	8079 May 14 01:44	0°♁		8084 Jun 21 02:54	0°♁	
	8079 Jun 25 11:11	0°♁		8084 Jul 30 00:34	0°♁	
	8079 Aug 08 08:03	0°♁		8084 Sep 06 23:51	0°♁	
	8079 Sep 22 18:31	0°♁	asc. node	8084 Sep 26 06:08	14°♁32'52	
evening set	8079 Oct 19 11:07	17°♁14'25		8084 Oct 17 05:23	0°♁	
	8079 Nov 08 09:48	0°♁		8084 Nov 29 16:17	0°♁	
				8085 Jan 21 16:26	0°♁	
conjunction	8079 Dec 04 14:57	16°♁40'36 0°23'46	retrograde	8085 Mar 10 14:05	12°♁31'44	
minimum elong	8079 Dec 04 15:39	16°♁41'43 0°23'54	min. Earth dist.	8085 Apr 14 05:22	4°♁40'38 0.60876 AU	
max. Earth dist.	8079 Dec 06 04:32	17°♁40'17 2.67932 AU	opposition	8085 Apr 19 11:17	2°♁36'20 4°21'51	
	8079 Dec 25 14:45	0°♁	greatest brilliancy	8085 Apr 18 16:35	2°♁54'48 -1.6m	
morning rise	8080 Jan 17 13:06	14°♁34'03		8085 Apr 26 06:11	30°♁	
desc. node	8080 Jan 19 22:22	16°♁05'07	direct	8085 May 27 08:43	23°♁51'42	
	8080 Feb 10 18:12	0°♁		8085 Jun 30 20:41	0°♁	
	8080 Mar 28 11:03	0°♁		8085 Sep 05 11:43	0°♁	
	8080 May 13 15:35	0°♁	desc. node	8085 Sep 10 21:06	2°♁54'10	
	8080 Jun 28 13:36	0°♁		8085 Oct 28 05:48	0°♁	
	8080 Aug 14 03:12	0°♁		8085 Dec 15 13:40	0°♁	
	8080 Oct 04 14:42	0°♁		8086 Jan 29 17:53	0°♁	
retrograde	8080 Nov 27 20:37	16°♁15'04	evening set	8086 Feb 08 03:58	6°♁29'50	
asc. node	8080 Dec 22 09:43	12°♁33'08	max. Earth dist.	8086 Feb 22 06:34	16°♁23'06 2.48532 AU	
min. Earth dist.	8080 Dec 25 02:30	11°♁49'32 0.37132 AU		8086 Mar 13 06:44	0°♁	
opposition	8080 Dec 28 16:58	10°♁50'08 0°28'56				
greatest brilliancy	8080 Dec 28 14:55	10°♁51'32 -3.0m	conjunction	8086 Apr 01 06:22	13°♁55'35 -1°06'04	

minimum elong	8086 Apr 01 06:59	13° Υ 56'42	1°06'06	desc. node	8091 May 03 18:40	12° \approx 57'07	
	8086 Apr 22 16:34	0° \mathcal{B}		retrograde	8091 Jun 25 18:04	25° \approx 48'13	
morning rise	8086 May 31 18:33	0° Π 07'01		opposition	8091 Aug 02 18:18	17° \approx 21'22	-3°11'07
	8086 May 31 14:58	0° Π		greatest brilliancy	8091 Aug 03 09:38	17° \approx 06'48	-1.6m
	8086 Jul 08 20:21	0° \mathfrak{C}		min. Earth dist.	8091 Aug 08 20:36	15° \approx 02'34	0.60675 AU
greatest brilliancy	8086 Aug 12 19:50	27° \mathfrak{C} 22'34	1.2m	direct	8091 Sep 12 18:49	7° \approx 29'32	
asc. node	8086 Aug 14 03:34	28° \mathfrak{C} 24'10			8091 Nov 20 22:39	0° \mathcal{H}	
	8086 Aug 16 05:01	0° \mathcal{Q}			8092 Jan 08 09:35	0° Υ	
	8086 Sep 24 15:02	0° \mathfrak{M}			8092 Feb 19 04:24	0° \mathcal{B}	
	8086 Nov 05 03:02	0° \mathfrak{L}			8092 Mar 29 08:42	0° Π	
	8086 Dec 20 04:21	0° \mathfrak{M}		asc. node	8092 Apr 05 01:39	5° Π 13'33	
	8087 Feb 11 02:27	0° \mathcal{A}			8092 May 06 18:03	0° \mathfrak{C}	
retrograde	8087 Apr 14 20:01	18° \mathcal{A} 19'19			8092 Jun 14 13:28	0° \mathcal{Q}	
min. Earth dist.	8087 May 23 23:26	9° \mathcal{A} 00'25	0.67348 AU		8092 Jul 24 16:04	0° \mathfrak{M}	
opposition	8087 May 25 09:39	8° \mathcal{A} 26'23	2°10'40	evening set	8092 Aug 16 17:04	16° \mathfrak{M} 39'02	
greatest brilliancy	8087 May 25 07:22	8° \mathcal{A} 28'38	-1.3m		8092 Sep 04 15:15	0° \mathfrak{L}	
	8087 Jun 21 04:38	30° \mathfrak{R} \mathfrak{M}					
direct	8087 Jul 04 21:08	28° \mathfrak{M} 49'26		conjunction	8092 Oct 10 17:14	24° \mathfrak{L} 42'06	1°04'27
	8087 Jul 19 05:57	0° \mathcal{A}		minimum elong	8092 Oct 10 18:03	24° \mathfrak{L} 43'27	1°04'30
desc. node	8087 Jul 29 21:09	2° \mathcal{A} 10'36			8092 Oct 18 15:11	0° \mathfrak{M}	
	8087 Oct 04 09:49	0° \mathfrak{Z}		max. Earth dist.	8092 Nov 03 00:35	10° \mathfrak{M} 11'28	2.60514 AU
	8087 Nov 25 08:12	0° \approx		morning rise	8092 Nov 28 23:50	27° \mathfrak{M} 05'25	
	8088 Jan 10 11:58	0° \mathcal{H}			8092 Dec 03 12:25	0° \mathcal{A}	
	8088 Feb 22 02:09	0° Υ			8093 Jan 20 00:06	0° \mathfrak{Z}	
evening set	8088 Mar 31 17:54	28° Υ 53'29			8093 Mar 10 02:58	0° \approx	
	8088 Apr 02 04:40	0° \mathcal{B}		desc. node	8093 Mar 20 15:25	6° \approx 15'15	
	8088 May 10 17:55	0° Π			8093 May 01 02:28	0° \mathcal{H}	
max. Earth dist.	8088 Jun 02 13:34	18° Π 02'23	2.36605 AU		8093 Jul 02 17:42	0° Υ	
				retrograde	8093 Aug 14 04:19	8° Υ 55'30	
conjunction	8088 Jun 05 12:58	20° Π 23'47	-0°18'12	opposition	8093 Sep 17 10:00	2° Υ 05'45	-5°40'11
minimum elong	8088 Jun 05 14:53	20° Π 27'34	0°18'20	greatest brilliancy	8093 Sep 19 03:47	1° Υ 29'56	-2.2m
	8088 Jun 17 16:02	0° \mathfrak{C}			8093 Sep 23 12:31	30° \mathfrak{R} \mathcal{H}	
asc. node	8088 Jul 01 00:25	10° \mathfrak{C} 32'50		min. Earth dist.	8093 Sep 26 02:29	29° \mathcal{H} 07'51	0.48333 AU
	8088 Jul 25 20:37	0° \mathcal{Q}		direct	8093 Oct 25 00:30	23° \mathcal{H} 42'16	
morning rise	8088 Aug 17 12:00	17° \mathcal{Q} 25'12			8093 Nov 25 14:38	0° Υ	
	8088 Sep 03 04:04	0° \mathfrak{M}			8094 Jan 20 04:44	0° \mathcal{B}	
	8088 Oct 14 08:29	0° \mathfrak{L}		asc. node	8094 Feb 21 01:10	22° \mathcal{B} 04'11	
	8088 Nov 27 02:14	0° \mathfrak{M}			8094 Mar 03 22:51	0° Π	
	8089 Jan 13 09:31	0° \mathcal{A}			8094 Apr 13 05:55	0° \mathfrak{C}	
	8089 Mar 08 15:57	0° \mathfrak{Z}			8094 May 23 12:23	0° \mathcal{Q}	
retrograde	8089 May 18 05:32	21° \mathfrak{Z} 07'21			8094 Jul 03 22:07	0° \mathfrak{M}	
desc. node	8089 Jun 15 20:29	15° \mathfrak{Z} 59'35			8094 Aug 16 00:45	0° \mathfrak{L}	
opposition	8089 Jun 27 03:59	11° \mathfrak{Z} 45'17	-0°23'35		8094 Sep 29 21:49	0° \mathfrak{M}	
greatest brilliancy	8089 Jun 27 04:40	11° \mathfrak{Z} 44'37	-1.3m	evening set	8094 Oct 03 17:16	2° \mathfrak{M} 29'55	
min. Earth dist.	8089 Jun 29 12:52	10° \mathfrak{Z} 49'26	0.67291 AU		8094 Nov 15 05:15	0° \mathcal{A}	
direct	8089 Aug 07 18:28	1° \mathfrak{Z} 44'00					
	8089 Oct 30 09:36	0° \approx		conjunction	8094 Nov 20 09:53	3° \mathcal{A} 19'27	0°38'07
	8089 Dec 19 06:01	0° \mathcal{H}		minimum elong	8094 Nov 20 10:57	3° \mathcal{A} 21'08	0°38'15
	8090 Jan 31 20:04	0° Υ		max. Earth dist.	8094 Nov 27 09:32	7° \mathcal{A} 47'06	2.66911 AU
	8090 Mar 13 03:28	0° \mathcal{B}			8095 Jan 01 08:54	0° \mathfrak{Z}	
	8090 Apr 20 16:17	0° Π		morning rise	8095 Jan 04 03:04	1° \mathfrak{Z} 44'42	
asc. node	8090 May 19 00:43	22° Π 25'45		desc. node	8095 Feb 05 12:19	22° \mathfrak{Z} 13'15	
	8090 May 28 14:24	0° \mathfrak{C}			8095 Feb 17 19:48	0° \approx	
greatest brilliancy	8090 Jun 07 01:50	7° \mathfrak{C} 28'41	1.2m		8095 Apr 06 08:20	0° \mathcal{H}	
evening set	8090 Jun 11 20:34	11° \mathfrak{C} 14'24			8095 May 24 03:45	0° Υ	
	8090 Jul 05 21:45	0° \mathcal{Q}			8095 Jul 12 07:04	0° \mathcal{B}	
	8090 Aug 14 10:31	0° \mathfrak{M}			8095 Sep 05 16:28	0° Π	
				retrograde	8095 Oct 27 23:39	14° Π 07'31	
conjunction	8090 Aug 18 21:14	3° \mathfrak{M} 17'42	0°54'45	opposition	8095 Nov 26 18:02	9° Π 12'25	-3°12'59
minimum elong	8090 Aug 18 18:38	3° \mathfrak{M} 12'54	0°54'39	greatest brilliancy	8095 Nov 27 04:46	9° Π 05'15	-3.0m
	8090 Sep 24 19:51	0° \mathfrak{L}		min. Earth dist.	8095 Nov 29 02:26	8° Π 34'49	0.37018 AU
max. Earth dist.	8090 Oct 02 07:47	5° \mathfrak{L} 16'25	2.48973 AU	direct	8095 Dec 26 22:36	4° Π 04'53	
morning rise	8090 Oct 17 16:43	15° \mathfrak{L} 55'58		asc. node	8096 Jan 09 01:19	5° Π 14'10	
	8090 Nov 07 10:27	0° \mathfrak{M}			8096 Mar 07 13:11	0° \mathfrak{C}	
	8090 Dec 23 11:28	0° \mathcal{A}			8096 Apr 24 12:35	0° \mathcal{Q}	
	8091 Feb 10 10:14	0° \mathfrak{Z}			8096 Jun 09 01:12	0° \mathfrak{M}	
	8091 Apr 05 17:49	0° \approx			8096 Jul 24 20:10	0° \mathfrak{L}	

	8096 Sep 09 11:56	0°♄		morning rise	8101 May 06 20:12	4°♄21'22
	8096 Oct 26 20:14	0°♂			8101 Jun 09 06:09	0°♄
evening set	8096 Nov 10 10:02	9°♂12'10			8101 Jul 17 16:18	0°♄
	8096 Dec 13 06:56	0°♄			8101 Aug 25 04:35	0°♄
max. Earth dist.	8096 Dec 19 00:57	3°♄39'09	2.67803 AU	asc. node	8101 Aug 31 20:31	5°♄07'55
desc. node	8096 Dec 23 10:36	6°♄27'12			8101 Oct 03 18:27	0°♄
					8101 Nov 14 15:46	0°♄
					8101 Dec 31 01:37	0°♄
conjunction	8096 Dec 25 06:30	7°♄37'05	-0°00'59			
minimum elong	8096 Dec 25 06:26	7°♄36'59	0°00'49			
behind sun begin	8096 Dec 24 12:08	7°♄07'51				
behind sun end	8096 Dec 26 00:45	8°♄06'08				
	8097 Jan 29 04:21	0°♄				
morning rise	8097 Feb 06 22:30	5°♄40'05				
	8097 Mar 16 01:27	0°♄				
	8097 Apr 29 17:13	0°♄				
	8097 Jun 12 04:08	0°♄				
	8097 Jul 24 15:53	0°♄				
	8097 Sep 04 22:37	0°♄				
	8097 Oct 19 05:49	0°♄				
asc. node	8097 Nov 26 01:32	21°♄24'01				
	8097 Dec 18 23:11	0°♄				
retrograde	8098 Jan 07 17:07	2°♄43'50				
	8098 Jan 27 04:12	30°♄				
min. Earth dist.	8098 Feb 03 09:48	27°♄51'39	0.43194 AU			
greatest brilliancy	8098 Feb 10 05:48	25°♄35'27	-2.6m			
opposition	8098 Feb 11 15:37	25°♄07'05	4°31'27			
direct	8098 Mar 15 08:45	18°♄54'07				
	8098 Apr 30 09:26	0°♄				
	8098 Jun 28 13:30	0°♄				
	8098 Aug 19 00:13	0°♄				
	8098 Oct 07 15:24	0°♄				
desc. node	8098 Nov 10 10:11	20°♄50'31				
	8098 Nov 25 01:45	0°♄				
evening set	8098 Dec 16 08:48	13°♄28'21				
max. Earth dist.	8099 Jan 11 05:05	0°♄06'46	2.63222 AU			
	8099 Jan 11 00:55	0°♄				
conjunction	8099 Jan 30 10:22	12°♄43'20	-0°40'26			
minimum elong	8099 Jan 30 09:17	12°♄41'32	0°40'19			
	8099 Feb 25 05:31	0°♄				
morning rise	8099 Mar 17 11:06	13°♄51'16				
	8099 Apr 09 12:57	0°♄				
	8099 May 21 02:35	0°♄				
	8099 Jun 30 06:42	0°♄				
	8099 Aug 08 15:41	0°♄				
	8099 Sep 17 03:27	0°♄				
asc. node	8099 Oct 13 22:30	19°♄47'34				
	8099 Oct 28 05:24	0°♄				
	8099 Dec 13 03:26	0°♄				
retrograde	8100 Feb 24 10:30	26°♄34'31				
min. Earth dist.	8100 Mar 28 21:44	19°♄28'25	0.56664 AU			
greatest brilliancy	8100 Apr 03 10:21	17°♄19'52	-1.8m			
opposition	8100 Apr 04 13:44	16°♄53'16	4°59'01			
direct	8100 May 11 00:46	8°♄39'45				
	8100 Jul 21 07:26	0°♄				
	8100 Sep 16 00:57	0°♄				
desc. node	8100 Sep 28 10:16	7°♄06'12				
	8100 Nov 05 21:52	0°♄				
	8100 Dec 23 15:45	0°♄				
evening set	8101 Jan 23 10:52	20°♄18'20				
	8101 Feb 06 17:55	0°♄				
max. Earth dist.	8101 Feb 08 15:14	1°♄17'38	2.53527 AU			
conjunction	8101 Mar 13 09:43	24°♄14'31	-1°05'49			
minimum elong	8101 Mar 13 09:07	24°♄13'28	1°05'48			
	8101 Mar 21 10:12	0°♄				
	8101 May 01 01:51	0°♄				