

conjunction	16100 May 26 16:38	18°II49'45	-1°12'45		16105 Jan 04 14:56	0°Z	
minimum elong	16100 May 26 17:03	18°II50'26	1°13'28		16105 Feb 12 19:05	0°≈	
	16100 Jun 13 00:49	0°☿			16105 Mar 26 02:12	0°X	
morning rise	16100 Jul 09 12:19	17°☿16'51			16105 May 10 02:05	0°Y	
	16100 Jul 28 16:56	0°♂		desc. node	16105 Jun 08 05:09	17°Y22'39	
	16100 Sep 10 21:12	0°♍			16105 Jul 02 07:45	0°X	
	16100 Oct 23 12:26	0°♂		retrograde	16105 Sep 02 08:53	17°X47'36	
asc. node	16100 Nov 08 03:18	11°♂15'23		min. Earth dist.	16105 Oct 11 12:05	8°X34'04	0.67792 AU
	16100 Dec 03 18:31	0°♍		opposition	16105 Oct 13 05:47	7°X52'44	-4°12'03
	16101 Jan 13 05:16	0°♂		greatest brilliancy	16105 Oct 12 22:19	8°X00'09	-1.3m
	16101 Feb 23 03:22	0°Z			16105 Nov 06 08:23	30°R'Y	
	16101 Apr 08 19:47	0°≈		direct	16105 Nov 22 19:41	28°Y17'49	
retrograde	16101 Jun 17 23:42	26°≈11'45			16105 Dec 10 09:29	0°X	
min. Earth dist.	16101 Jul 16 17:56	20°≈27'57	0.48248 AU		16106 Feb 23 12:19	0°II	
greatest brilliancy	16101 Jul 24 09:09	17°≈42'47	-2.3m		16106 Apr 16 05:21	0°☿	
opposition	16101 Jul 25 00:31	17°≈28'51	2°10'59		16106 Jun 01 06:12	0°♂	
direct	16101 Aug 27 19:53	10°≈23'24		asc. node	16106 Jun 30 04:49	20°♂11'28	
desc. node	16101 Sep 02 22:29	10°≈37'39			16106 Jul 13 19:01	0°♍	
	16101 Nov 02 10:30	0°X		evening set	16106 Aug 17 23:46	26°♍16'01	
	16101 Dec 29 06:11	0°Y			16106 Aug 22 20:58	0°♂	
	16102 Feb 18 15:54	0°X			16106 Sep 30 09:05	0°♍	
	16102 Apr 08 18:12	0°II		max. Earth dist.	16106 Oct 11 11:28	8°♍46'44	2.36190 AU
evening set	16102 May 18 07:22	25°II04'39					
	16102 May 25 21:46	0°☿		conjunction	16106 Oct 25 18:25	20°♍07'14	1°04'55
max. Earth dist.	16102 Jun 09 17:24	9°☿41'55	2.60642 AU	minimum elong	16106 Oct 25 15:47	20°♍02'00	1°05'26
					16106 Nov 07 04:52	0°♂	
conjunction	16102 Jul 02 20:19	25°☿07'29	-0°50'04		16106 Dec 15 06:02	0°Z	
minimum elong	16102 Jul 02 21:50	25°☿10'01	0°50'46	morning rise	16107 Jan 08 07:20	18°Z34'32	
	16102 Jul 10 01:00	0°♂			16107 Jan 23 09:26	0°≈	
morning rise	16102 Aug 20 17:40	29°♂00'29			16107 Mar 05 10:14	0°X	
	16102 Aug 22 03:06	0°♍			16107 Apr 18 02:32	0°Y	
asc. node	16102 Sep 25 20:03	25°♍11'26		desc. node	16107 Apr 26 01:01	5°Y13'14	
	16102 Oct 02 07:48	0°♂			16107 Jun 04 12:39	0°X	
	16102 Nov 10 23:37	0°♍			16107 Jul 29 08:21	0°II	
	16102 Dec 19 17:24	0°♂		retrograde	16107 Oct 06 15:12	20°II15'29	
	16103 Jan 27 10:27	0°Z		opposition	16107 Nov 15 20:47	10°II49'29	-4°53'46
	16103 Mar 08 08:38	0°≈		greatest brilliancy	16107 Nov 16 05:04	10°II41'21	-1.3m
	16103 Apr 20 13:38	0°X		min. Earth dist.	16107 Nov 18 00:47	9°II58'25	0.67939 AU
	16103 Jun 12 14:12	0°Y		direct	16107 Dec 27 10:04	0°II49'31	
desc. node	16103 Jul 22 04:31	11°Y52'51			16108 Mar 21 16:51	0°☿	
retrograde	16103 Jul 30 04:24	12°Y18'27			16108 May 10 04:13	0°♂	
min. Earth dist.	16103 Sep 02 18:46	4°Y32'31	0.60884 AU	asc. node	16108 May 17 05:07	4°♂39'55	
opposition	16103 Sep 08 07:09	2°Y22'38	-2°05'07		16108 Jun 22 13:34	0°♍	
greatest brilliancy	16103 Sep 07 19:44	2°Y33'50	-1.6m		16108 Aug 01 18:08	0°♂	
	16103 Sep 14 12:31	30°R'X			16108 Sep 09 04:38	0°♍	
direct	16103 Oct 16 08:49	23°X39'35		greatest brilliancy	16108 Oct 11 23:26	26°♍00'06	1.1m
	16103 Nov 20 18:46	0°Y			16108 Oct 17 00:28	0°♂	
	16104 Jan 26 08:45	0°X		evening set	16108 Nov 01 05:05	12°X'00'12	
	16104 Mar 19 01:21	0°II			16108 Nov 24 05:34	0°Z	
	16104 May 06 07:28	0°☿			16109 Jan 02 16:06	0°≈	
	16104 Jun 20 11:24	0°♂					
evening set	16104 Jun 25 21:58	3°♂44'27		conjunction	16109 Jan 08 21:20	4°≈36'49	0°39'00
max. Earth dist.	16104 Jul 10 03:47	13°♂39'45	2.49115 AU	minimum elong	16109 Jan 09 00:04	4°≈41'52	0°39'38
	16104 Aug 02 01:03	0°♍			16109 Feb 12 23:31	0°X	
asc. node	16104 Aug 12 11:26	7°♍36'14		max. Earth dist.	16109 Feb 21 10:48	5°X57'39	2.48944 AU
				morning rise	16109 Mar 08 04:59	16°X11'50	
conjunction	16104 Aug 17 14:57	11°♍23'28	0°03'34	desc. node	16109 Mar 12 16:05	19°X15'15	
minimum elong	16104 Aug 17 14:44	11°♍23'05	0°03'16		16109 Mar 28 13:21	0°Y	
behind sun begin	16104 Aug 16 15:10	10°♍39'38			16109 May 13 15:55	0°X	
behind sun end	16104 Aug 18 14:18	12°♍06'35			16109 Jul 01 20:55	0°II	
	16104 Sep 11 11:39	0°♂			16109 Aug 25 20:32	0°☿	
morning rise	16104 Oct 19 04:18	29°♂03'37		retrograde	16109 Nov 12 20:39	24°☿33'50	
	16104 Oct 20 09:08	0°♍		opposition	16109 Dec 21 02:07	16°☿00'31	-4°09'23
	16104 Nov 27 11:18	0°♂		greatest brilliancy	16109 Dec 22 00:29	15°☿39'04	-1.6m
greatest brilliancy	16104 Dec 28 00:42	24°X'04'08	1.2m	min. Earth dist.	16109 Dec 27 01:52	13°☿42'59	0.61224 AU

direct	16110 Jan 30 23:48	6°☾06'32		max. Earth dist.	16115 May 09 01:21	2°♊41'22	2.68285 AU
asc. node	16110 Apr 04 09:34	25°☾37'29					
	16110 Apr 12 13:20	0°♊		conjunction	16115 May 14 04:44	5°♊57'11	-1°14'01
	16110 May 30 08:54	0°♎		minimum elong	16115 May 14 04:36	5°♊56'58	1°14'40
	16110 Jul 10 20:32	0°♊			16115 Jun 20 19:33	0°☾	
	16110 Aug 18 20:10	0°♌		morning rise	16115 Jun 26 07:47	3°☾33'08	
	16110 Sep 26 02:18	0°♊			16115 Aug 05 21:17	0°♊	
	16110 Nov 03 19:55	0°♊			16115 Sep 19 18:20	0°♎	
	16110 Dec 13 21:40	0°♌			16115 Nov 02 08:42	0°♊	
evening set	16111 Jan 07 10:30	17°♌43'14		asc. node	16115 Nov 25 20:59	16°♊31'42	
	16111 Jan 24 20:29	0°♊			16115 Dec 14 20:04	0°♌	
desc. node	16111 Jan 28 06:58	2°♊23'39			16116 Jan 25 22:16	0°♊	
					16116 Mar 09 21:55	0°♊	
conjunction	16111 Mar 02 02:30	24°♊48'50	-0°20'13		16116 May 09 21:34	0°♌	
minimum elong	16111 Mar 02 01:36	24°♊47'18	0°20'04	retrograde	16116 May 28 06:53	2°♌22'57	
	16111 Mar 09 20:29	0°♎			16116 Jun 15 08:01	30°♊3	
max. Earth dist.	16111 Mar 25 00:57	10°♎03'06	2.60689 AU	min. Earth dist.	16116 Jun 23 19:59	27°♊32'37	0.42765 AU
morning rise	16111 Apr 18 22:00	26°♎14'02		opposition	16116 Jul 01 23:18	24°♊52'03	4°33'10
	16111 Apr 24 18:45	0°♊		greatest brilliancy	16116 Jun 30 18:03	25°♊16'17	-2.6m
	16111 Jun 11 10:03	0°♊		direct	16116 Aug 02 16:17	18°♊43'17	
	16111 Jul 30 20:54	0°☾			16116 Sep 18 09:32	0°♌	
	16111 Sep 21 10:31	0°♊		desc. node	16116 Sep 19 09:46	0°♌25'10	
	16111 Nov 25 01:46	0°♎			16116 Nov 16 20:51	0°♊	
retrograde	16112 Jan 01 11:49	7°♎10'22			16117 Jan 07 13:08	0°♎	
opposition	16112 Feb 04 22:22	0°♎11'53	-0°54'24		16117 Feb 26 06:12	0°♊	
greatest brilliancy	16112 Feb 05 06:55	0°♎04'25	-2.3m		16117 Apr 15 16:32	0°♊	
	16112 Feb 05 11:59	30°♊0		evening set	16117 May 04 09:55	11°♊50'03	
min. Earth dist.	16112 Feb 13 14:37	27°♊11'09	0.48518 AU	max. Earth dist.	16117 May 30 20:27	28°♊48'44	2.63834 AU
asc. node	16112 Feb 20 15:20	24°♊58'26			16117 Jun 01 16:21	0°☾	
direct	16112 Mar 13 12:29	21°♊38'44					
	16112 Apr 19 05:54	0°♎		conjunction	16117 Jun 17 17:38	10°☾29'53	-1°02'22
	16112 Jun 11 08:37	0°♊		minimum elong	16117 Jun 17 18:51	10°☾31'53	1°03'06
	16112 Jul 23 13:13	0°♌			16117 Jul 16 23:18	0°♊	
	16112 Sep 01 13:39	0°♊		morning rise	16117 Aug 02 22:56	11°♊34'36	
	16112 Oct 11 17:43	0°♊			16117 Aug 29 10:03	0°♎	
	16112 Nov 22 03:45	0°♌			16117 Oct 10 01:58	0°♊	
desc. node	16112 Dec 15 02:54	16°♌07'11		asc. node	16117 Oct 12 14:00	1°♊50'23	
	16113 Jan 04 07:37	0°♊			16117 Nov 19 05:32	0°♌	
	16113 Feb 18 05:46	0°♎			16117 Dec 28 10:22	0°♊	
evening set	16113 Feb 22 00:26	2°♎28'35			16118 Feb 05 15:15	0°♊	
	16113 Apr 05 14:04	0°♊			16118 Mar 18 09:00	0°♌	
					16118 May 03 00:19	0°♊	
conjunction	16113 Apr 09 08:28	2°♊24'31	-0°59'31	retrograde	16118 Jul 15 01:11	26°♊26'40	
minimum elong	16113 Apr 09 07:12	2°♊22'30	0°59'50	desc. node	16118 Aug 07 17:02	22°♊30'11	
max. Earth dist.	16113 Apr 16 23:32	7°♊16'35	2.67245 AU	min. Earth dist.	16118 Aug 16 11:51	19°♊24'12	0.56468 AU
	16113 May 22 19:42	0°♊		opposition	16118 Aug 23 08:20	16°♊45'36	-0°44'57
morning rise	16113 May 23 00:10	0°♊07'02		greatest brilliancy	16118 Aug 23 03:05	16°♊50'39	-1.8m
	16113 Jul 09 11:20	0°☾		direct	16118 Sep 28 23:15	8°♊33'39	
	16113 Aug 26 07:16	0°♊			16118 Dec 09 23:56	0°♎	
	16113 Oct 13 11:26	0°♎			16119 Feb 04 19:52	0°♊	
	16113 Dec 02 00:26	0°♊			16119 Mar 27 15:54	0°♊	
asc. node	16114 Jan 07 20:31	20°♊32'12			16119 May 14 08:39	0°☾	
	16114 Jan 27 12:15	0°♌		evening set	16119 Jun 10 12:25	17°☾52'03	
retrograde	16114 Mar 16 02:19	12°♌06'34		max. Earth dist.	16119 Jun 27 07:47	29°☾13'30	2.54135 AU
opposition	16114 Apr 14 13:19	7°♌14'17	6°18'57		16119 Jun 28 11:00	0°♊	
greatest brilliancy	16114 Apr 15 00:43	7°♌06'39	-3.0m				
min. Earth dist.	16114 Apr 17 03:35	6°♌32'37	0.36835 AU	conjunction	16119 Jul 29 13:25	21°♊40'40	-0°20'56
direct	16114 May 14 13:45	2°♌04'25		minimum elong	16119 Jul 29 14:30	21°♊42'35	0°21'27
	16114 Jul 28 04:12	0°♊			16119 Aug 10 04:34	0°♎	
	16114 Sep 13 16:22	0°♊		asc. node	16119 Aug 30 05:59	14°♎37'05	
	16114 Oct 29 05:46	0°♌			16119 Sep 19 21:14	0°♊	
desc. node	16114 Nov 02 04:17	2°♌35'29		morning rise	16119 Sep 23 09:09	2°♊38'18	
	16114 Dec 14 04:07	0°♊			16119 Oct 29 00:47	0°♌	
	16115 Jan 29 22:37	0°♎			16119 Dec 06 07:40	0°♊	
	16115 Mar 18 08:01	0°♊			16120 Jan 13 14:38	0°♊	
evening set	16115 Mar 31 12:04	8°♊18'41			16120 Feb 21 22:24	0°♌	
	16115 May 04 19:33	0°♊			16120 Apr 03 14:31	0°♊	

	16120 May 19 23:22	0°♈			16125 Apr 24 12:47	0°♏	
desc. node	16120 Jun 24 20:23	19°♈20'10			16125 Jun 08 17:32	0°♐	
	16120 Jul 21 19:37	0°♉			16125 Jul 19 11:38	0°♑	
retrograde	16120 Aug 20 01:25	4°♉50'57			16125 Aug 27 03:52	0°♒	
	16120 Sep 16 05:46	30°♊			16125 Oct 04 04:23	0°♓	
min. Earth dist.	16120 Sep 26 13:39	26°♈08'42	0.65882 AU		16125 Nov 11 15:36	0°♈	
opposition	16120 Sep 29 19:53	24°♈51'17	-3°34'32	evening set	16125 Dec 15 07:02	25°♈27'56	
greatest brilliancy	16120 Sep 29 08:32	25°♈02'32	-1.4m		16125 Dec 21 09:54	0°♉	
direct	16120 Nov 08 14:59	15°♈32'58			16126 Feb 01 00:57	0°♊	
	16121 Jan 04 20:27	0°♋					
	16121 Mar 05 03:02	0°♌		conjunction	16126 Feb 11 23:07	7°♋37'44	0°01'23
	16121 Apr 24 00:34	0°♍		minimum elong	16126 Feb 11 23:14	7°♋37'56	0°01'43
	16121 Jun 08 14:31	0°♎		behind sun begin	16126 Feb 11 00:44	6°♋58'53	
asc. node	16121 Jul 16 23:09	26°♏59'37		behind sun end	16126 Feb 12 21:44	8°♋16'56	
	16121 Jul 21 02:35	0°♐		desc. node	16126 Feb 14 01:49	9°♋05'35	
evening set	16121 Jul 25 17:31	3°♐22'28		max. Earth dist.	16126 Mar 14 06:07	28°♋17'49	2.56641 AU
max. Earth dist.	16121 Aug 11 06:49	15°♐37'29	2.40567 AU		16126 Mar 16 19:07	0°♈	
	16121 Aug 30 07:10	0°♑		morning rise	16126 Apr 03 21:13	11°♈59'28	
					16126 May 01 16:22	0°♉	
conjunction	16121 Sep 25 08:59	20°♑09'25	0°45'46		16126 Jun 18 17:00	0°♊	
minimum elong	16121 Sep 25 05:27	20°♑02'30	0°45'55		16126 Aug 08 12:07	0°♋	
	16121 Oct 07 22:12	0°♌			16126 Oct 04 17:57	0°♏	
	16121 Nov 14 19:31	0°♐		retrograde	16126 Dec 11 01:16	19°♏09'45	
morning rise	16121 Dec 08 01:58	18°♐24'35		opposition	16127 Jan 16 05:43	11°♏26'55	-2°36'23
	16121 Dec 22 20:29	0°♑		greatest brilliancy	16127 Jan 17 02:11	11°♏08'05	-1.9m
	16122 Jan 30 22:38	0°♒		min. Earth dist.	16127 Jan 24 04:53	8°♏31'46	0.54021 AU
	16122 Mar 12 23:08	0°♋		direct	16127 Feb 24 13:57	2°♏07'30	
	16122 Apr 25 21:36	0°♈		asc. node	16127 Mar 09 04:22	3°♏10'14	
desc. node	16122 May 12 16:55	10°♈48'08			16127 May 11 00:58	0°♐	
	16122 Jun 13 12:18	0°♉			16127 Jun 24 19:02	0°♑	
	16122 Aug 14 12:37	0°♊			16127 Aug 04 00:11	0°♒	
retrograde	16122 Sep 23 03:09	7°♊53'41			16127 Sep 12 00:26	0°♓	
	16122 Oct 29 06:14	30°♋			16127 Oct 21 10:07	0°♈	
opposition	16122 Nov 02 18:33	28°♋13'53	-4°46'49		16127 Dec 01 04:01	0°♉	
greatest brilliancy	16122 Nov 02 20:05	28°♋12'22	-1.2m	desc. node	16128 Jan 01 18:35	22°♉24'04	
min. Earth dist.	16122 Nov 03 09:32	27°♋59'06	0.68710 AU		16128 Jan 12 17:47	0°♊	
direct	16122 Dec 14 03:09	18°♋20'59		evening set	16128 Feb 06 10:42	16°♋48'50	
	16123 Feb 01 22:17	0°♌			16128 Feb 26 05:16	0°♈	
	16123 Apr 01 20:31	0°♍					
	16123 May 19 10:54	0°♎		conjunction	16128 Mar 25 22:03	18°♈46'52	-0°47'11
asc. node	16123 Jun 03 19:42	10°♏27'13		minimum elong	16128 Mar 25 20:39	18°♈44'36	0°47'21
	16123 Jul 01 09:12	0°♐		max. Earth dist.	16128 Apr 08 00:02	27°♈13'32	2.65330 AU
	16123 Aug 10 11:37	0°♑			16128 Apr 12 07:45	0°♉	
	16123 Sep 17 22:02	0°♒		morning rise	16128 May 09 16:52	17°♉26'32	
evening set	16123 Oct 01 12:16	10°♒46'28			16128 May 29 14:50	0°♊	
	16123 Oct 25 16:57	0°♓			16128 Jul 16 18:29	0°♋	
	16123 Dec 02 19:23	0°♈			16128 Sep 03 20:04	0°♌	
					16128 Oct 24 19:38	0°♍	
conjunction	16123 Dec 13 19:59	8°♈32'21	0°59'45		16128 Dec 22 02:25	0°♎	
minimum elong	16123 Dec 13 23:15	8°♈38'38	1°00'28	asc. node	16129 Jan 24 09:57	11°♑06'20	
	16124 Jan 11 01:46	0°♉		retrograde	16129 Feb 11 12:29	13°♑03'10	
max. Earth dist.	16124 Feb 03 20:29	17°♉32'19	2.43236 AU	opposition	16129 Mar 14 12:47	7°♑30'26	3°18'59
morning rise	16124 Feb 16 23:05	26°♉59'00		greatest brilliancy	16129 Mar 15 07:46	7°♑16'09	-2.8m
	16124 Feb 21 04:44	0°♊		min. Earth dist.	16129 Mar 21 11:17	5°♑25'29	0.40163 AU
desc. node	16124 Mar 29 09:38	25°♊45'57		direct	16129 Apr 16 19:20	0°♒59'00	
	16124 Apr 04 16:52	0°♋			16129 Jun 30 03:37	0°♓	
	16124 May 21 02:00	0°♌			16129 Aug 14 00:16	0°♈	
	16124 Jul 10 13:25	0°♍			16129 Sep 25 17:22	0°♉	
	16124 Sep 09 18:41	0°♎		desc. node	16129 Nov 07 22:19	0°♊	
retrograde	16124 Oct 28 03:49	10°♏54'17			16129 Nov 18 17:06	7°♊21'38	
opposition	16124 Dec 06 08:39	1°♏56'51	-4°38'54		16129 Dec 22 10:10	0°♋	
greatest brilliancy	16124 Dec 07 02:43	1°♏39'18	-1.4m		16130 Feb 06 07:01	0°♌	
min. Earth dist.	16124 Dec 10 21:16	0°♏11'29	0.64649 AU	evening set	16130 Mar 17 12:16	25°♈07'36	
	16124 Dec 11 09:13	30°♊			16130 Mar 25 04:11	0°♉	
direct	16125 Jan 16 18:04	21°♊55'29					
	16125 Feb 24 19:22	0°♋		conjunction	16130 Apr 30 19:32	23°♋14'01	-1°11'25
asc. node	16125 Apr 20 21:50	27°♋47'50		minimum elong	16130 Apr 30 18:53	23°♋12'59	1°11'57

max. Earth dist.	16130 Apr 30 15:04	23°♄06'56	2.68542 AU		16135 Jun 02 04:05	0°♑	
	16130 May 11 11:46	0°♈		desc. node	16135 Jul 12 09:09	17°♑07'24	
morning rise	16130 Jun 12 18:11	20°♈29'35		retrograde	16135 Aug 07 07:53	21°♑08'55	
	16130 Jun 27 15:53	0°♄		min. Earth dist.	16135 Sep 12 00:40	13°♑01'53	0.62934 AU
	16130 Aug 13 06:12	0°♏		opposition	16135 Sep 16 18:37	11°♑09'37	-2°43'11
	16130 Sep 28 01:39	0°♎		greatest brilliancy	16135 Sep 16 06:01	11°♑22'02	-1.5m
	16130 Nov 12 01:57	0°♊		direct	16135 Oct 25 13:10	2°♑12'24	
asc. node	16130 Dec 12 12:16	20°♊28'34			16136 Jan 19 05:17	0°♄	
	16130 Dec 26 16:21	0°♌			16136 Mar 13 15:28	0°♈	
	16131 Feb 10 14:49	0°♌			16136 May 01 10:16	0°♄	
	16131 Apr 11 13:20	0°♄			16136 Jun 15 17:48	0°♏	
retrograde	16131 May 04 04:53	3°♄30'08		evening set	16136 Jul 06 00:10	14°♏04'00	
	16131 May 27 07:48	30°♌♌		max. Earth dist.	16136 Jul 19 17:24	23°♏48'45	2.46109 AU
min. Earth dist.	16131 May 30 04:17	29°♌12'17	0.38291 AU		16136 Jul 28 07:18	0°♎	
opposition	16131 Jun 04 23:33	27°♌31'26	6°46'34	asc. node	16136 Aug 02 16:02	3°♎54'15	
greatest brilliancy	16131 Jun 03 18:07	27°♌52'50	-2.9m				
direct	16131 Jul 04 13:51	22°♌20'09		conjunction	16136 Aug 30 09:41	24°♎29'55	0°19'01
	16131 Aug 10 06:31	0°♄		minimum elong	16136 Aug 30 08:17	24°♎27'16	0°18'52
desc. node	16131 Oct 06 22:07	28°♄35'31			16136 Sep 06 16:03	0°♊	
	16131 Oct 09 09:22	0°♌			16136 Oct 15 11:30	0°♌	
	16131 Nov 28 22:20	0°♌		morning rise	16136 Nov 05 07:23	16°♌24'05	
	16132 Jan 16 23:14	0°♑			16136 Nov 22 11:55	0°♌	
	16132 Mar 05 12:42	0°♄			16136 Dec 30 14:09	0°♄	
evening set	16132 Apr 20 19:49	28°♄56'58			16137 Feb 07 16:42	0°♌	
	16132 Apr 22 11:47	0°♈			16137 Mar 20 19:28	0°♌	
max. Earth dist.	16132 May 21 15:01	18°♈31'31	2.66241 AU		16137 May 04 05:50	0°♑	
				desc. node	16137 May 29 10:01	15°♑34'30	
conjunction	16132 Jun 03 12:00	26°♈48'28	-1°10'13		16137 Jun 24 00:44	0°♄	
minimum elong	16132 Jun 03 12:45	26°♈49'40	1°10'56	retrograde	16137 Sep 09 21:34	25°♄29'47	
	16132 Jun 08 10:25	0°♄		opposition	16137 Oct 20 17:56	15°♄39'22	-4°28'31
morning rise	16132 Jul 17 23:16	25°♄59'17		min. Earth dist.	16137 Oct 19 20:07	16°♄00'57	0.68406 AU
	16132 Jul 23 23:15	0°♏		greatest brilliancy	16137 Oct 20 13:19	15°♄43'56	-1.2m
	16132 Sep 05 21:08	0°♎		direct	16137 Nov 30 16:17	5°♄57'05	
	16132 Oct 18 03:14	0°♊			16138 Feb 16 04:18	0°♈	
asc. node	16132 Oct 29 09:16	8°♊10'38			16138 Apr 10 17:19	0°♄	
	16132 Nov 27 22:24	0°♌			16138 May 27 06:04	0°♏	
	16133 Jan 06 19:30	0°♌		asc. node	16138 Jun 20 11:26	16°♏45'37	
	16133 Feb 15 20:56	0°♄			16138 Jul 08 22:22	0°♎	
	16133 Mar 30 08:23	0°♌			16138 Aug 18 00:35	0°♊	
	16133 May 22 19:44	0°♌		evening set	16138 Sep 01 20:38	11°♊27'25	
retrograde	16133 Jun 28 09:35	8°♌21'46			16138 Sep 25 12:05	0°♌	
min. Earth dist.	16133 Jul 28 12:30	2°♌08'19	0.51327 AU		16138 Nov 02 07:15	0°♌	
	16133 Aug 03 06:27	30°♌♌					
opposition	16133 Aug 05 10:33	29°♌11'13	0°59'00	conjunction	16138 Nov 12 19:47	8°♌20'54	1°08'25
greatest brilliancy	16133 Aug 05 03:42	29°♌17'37	-2.1m	minimum elong	16138 Nov 12 19:39	8°♌20'36	1°09'04
desc. node	16133 Aug 24 04:35	23°♌22'58			16138 Dec 10 08:15	0°♄	
direct	16133 Sep 09 07:32	21°♌38'59		max. Earth dist.	16138 Dec 31 23:20	16°♄43'01	2.37738 AU
	16133 Oct 19 19:29	0°♌			16139 Jan 18 11:55	0°♌	
	16133 Dec 22 10:13	0°♑		morning rise	16139 Jan 23 22:03	4°♌03'23	
	16134 Feb 13 06:46	0°♄			16139 Feb 28 12:18	0°♌	
	16134 Apr 03 22:01	0°♈			16139 Apr 13 01:16	0°♑	
	16134 May 21 06:10	0°♄		desc. node	16139 Apr 16 04:17	2°♑04'36	
evening set	16134 May 26 11:12	3°♄23'26			16139 May 29 22:31	0°♄	
max. Earth dist.	16134 Jun 15 19:18	16°♄48'03	2.58549 AU		16139 Jul 21 13:19	0°♈	
	16134 Jul 05 09:21	0°♏		retrograde	16139 Oct 14 14:14	27°♈58'21	
				opposition	16139 Nov 23 12:34	18°♈41'27	-4°52'15
conjunction	16134 Jul 11 23:39	4°♏30'31	-0°40'49	greatest brilliancy	16139 Nov 24 00:30	18°♈29'46	-1.3m
minimum elong	16134 Jul 12 01:09	4°♏33'07	0°41'27	min. Earth dist.	16139 Nov 26 12:34	17°♈31'01	0.67059 AU
	16134 Aug 17 08:55	0°♎		direct	16140 Jan 04 02:30	8°♈39'44	
morning rise	16134 Aug 31 21:05	10°♎27'26			16140 Mar 13 19:30	0°♄	
asc. node	16134 Sep 16 00:54	21°♎33'40			16140 May 04 08:24	0°♏	
	16134 Sep 27 09:36	0°♊		asc. node	16140 May 07 11:56	2°♏02'05	
	16134 Nov 05 21:10	0°♌			16140 Jun 17 06:51	0°♎	
	16134 Dec 14 10:36	0°♌			16140 Jul 27 15:51	0°♊	
	16135 Jan 21 22:51	0°♄			16140 Sep 04 04:17	0°♌	
	16135 Mar 02 13:26	0°♌			16140 Oct 12 01:18	0°♌	
	16135 Apr 13 22:41	0°♌		evening set	16140 Nov 18 03:17	29°♌05'03	

	16140 Nov 19 07:40	0°♁			16145 Nov 23 11:12	0°♁	
	16140 Dec 28 19:53	0°♁		asc. node	16145 Dec 29 04:12	21°♁58'29	
conjunction	16141 Jan 22 03:51	17°♁49'46	0°25'14		16146 Jan 11 19:41	0°♁	
minimum elong	16141 Jan 22 05:35	17°♁52'54	0°25'46	retrograde	16146 Mar 24 03:12	0°♁	
	16141 Feb 08 04:41	0°♁			16146 Apr 03 20:06	0°♁45'49	
max. Earth dist.	16141 Mar 01 19:02	15°♁03'54	2.51863 AU	opposition	16146 Apr 14 12:13	30°♁	
desc. node	16141 Mar 02 19:01	15°♁45'09		greatest brilliancy	16146 May 03 08:08	25°♁51'00	7°17'16
morning rise	16141 Mar 18 10:05	26°♁23'50		min. Earth dist.	16146 May 03 04:13	25°♁53'36	-3.0m
	16141 Mar 23 18:40	0°♁		direct	16146 May 02 17:54	26°♁00'25	0.36347 AU
	16141 May 08 17:31	0°♁			16146 Jun 01 12:09	21°♁01'24	
	16141 Jun 26 09:00	0°♁			16146 Jul 10 08:15	0°♁	
	16141 Aug 18 07:33	0°♁			16146 Sep 04 09:54	0°♁	
	16141 Oct 28 06:24	0°♁		desc. node	16146 Oct 22 07:43	0°♁	
retrograde	16141 Nov 22 11:49	3°♁23'25			16146 Oct 23 09:17	0°♁40'41	
	16141 Dec 15 18:16	30°♁			16146 Dec 08 09:37	0°♁	
opposition	16141 Dec 30 01:54	25°♁06'03	-3°42'46		16147 Jan 24 19:35	0°♁	
greatest brilliancy	16141 Dec 31 01:05	24°♁44'05	-1.7m	evening set	16147 Mar 13 13:25	0°♁	
min. Earth dist.	16142 Jan 05 20:04	22°♁32'48	0.58880 AU		16147 Apr 08 07:48	16°♁11'51	
direct	16142 Feb 08 13:28	15°♁20'48		max. Earth dist.	16147 Apr 30 04:34	0°♁	
asc. node	16142 Mar 25 16:16	26°♁25'53			16147 May 13 23:53	8°♁45'34	2.67793 AU
	16142 Apr 02 11:01	0°♁		conjunction	16147 May 21 20:55	13°♁46'34	-1°13'49
	16142 May 23 16:03	0°♁		minimum elong	16147 May 21 21:07	13°♁46'53	1°14'30
	16142 Jul 04 23:00	0°♁			16147 Jun 16 03:49	0°♁	
	16142 Aug 13 06:51	0°♁		morning rise	16147 Jul 04 07:23	11°♁46'25	
	16142 Sep 20 18:08	0°♁			16147 Aug 01 00:36	0°♁	
	16142 Oct 29 16:08	0°♁			16147 Sep 14 12:49	0°♁	
evening set	16142 Dec 08 22:20	0°♁			16147 Oct 27 14:12	0°♁	
desc. node	16143 Jan 18 23:22	29°♁15'22		asc. node	16147 Nov 16 01:54	13°♁53'50	
	16143 Jan 18 11:54	28°♁55'23			16147 Dec 08 08:33	0°♁	
	16143 Jan 20 01:01	0°♁			16148 Jan 18 09:42	0°♁	
	16143 Mar 05 03:45	0°♁			16148 Feb 29 06:39	0°♁	
conjunction	16143 Mar 11 11:16	4°♁11'25	-0°31'09	retrograde	16148 Apr 16 20:53	0°♁	
minimum elong	16143 Mar 11 10:02	4°♁09'23	0°31'07	min. Earth dist.	16148 Jun 09 09:04	16°♁51'10	
max. Earth dist.	16143 Mar 30 18:14	16°♁51'19	2.62562 AU	opposition	16148 Jul 07 02:48	11°♁31'31	0.45744 AU
	16143 Apr 20 02:10	0°♁		greatest brilliancy	16148 Jul 15 11:26	8°♁36'38	3°10'15
morning rise	16143 Apr 26 23:47	4°♁25'02		direct	16148 Jul 14 13:28	8°♁55'53	-2.4m
	16143 Jun 06 13:12	0°♁		desc. node	16148 Aug 17 08:35	1°♁55'23	
	16143 Jul 25 10:10	0°♁			16148 Sep 09 16:48	5°♁06'18	
	16143 Sep 14 08:51	0°♁			16148 Nov 08 08:45	0°♁	
	16143 Nov 10 00:48	0°♁			16149 Jan 01 12:29	0°♁	
retrograde	16144 Jan 15 07:57	19°♁13'42			16149 Feb 21 03:04	0°♁	
asc. node	16144 Feb 10 23:47	14°♁51'24		evening set	16149 Apr 10 22:38	0°♁	
opposition	16144 Feb 17 13:38	12°♁44'40	0°24'26		16149 May 12 06:50	19°♁49'45	
greatest brilliancy	16144 Feb 17 16:54	12°♁41'58	-2.4m	max. Earth dist.	16149 May 28 01:24	0°♁	
min. Earth dist.	16144 Feb 26 04:45	9°♁52'27	0.45346 AU		16149 Jun 05 09:43	5°♁26'24	2.62175 AU
direct	16144 Mar 24 20:51	4°♁48'22		conjunction	16149 Jun 26 04:43	19°♁10'21	-0°55'50
	16144 Jun 01 07:14	0°♁		minimum elong	16149 Jun 26 06:08	19°♁12'42	0°56'32
	16144 Jul 16 00:10	0°♁			16149 Jul 12 07:10	0°♁	
	16144 Aug 26 00:37	0°♁		morning rise	16149 Aug 12 18:04	21°♁39'53	
	16144 Oct 05 19:29	0°♁			16149 Aug 24 14:06	0°♁	
	16144 Nov 16 17:02	0°♁		asc. node	16149 Oct 02 19:06	28°♁21'39	
desc. node	16144 Dec 05 07:46	12°♁58'26			16149 Oct 05 00:23	0°♁	
	16144 Dec 30 05:54	0°♁			16149 Nov 13 21:50	0°♁	
	16145 Feb 13 10:39	0°♁			16149 Dec 22 20:20	0°♁	
evening set	16145 Mar 02 19:55	11°♁18'00			16150 Jan 30 17:29	0°♁	
	16145 Mar 31 22:25	0°♁			16150 Mar 11 21:37	0°♁	
conjunction	16145 Apr 17 06:14	10°♁24'08	-1°05'00		16150 Apr 24 18:52	0°♁	
minimum elong	16145 Apr 17 05:10	10°♁22'26	1°05'25	retrograde	16150 Jun 21 17:51	0°♁	
max. Earth dist.	16145 Apr 22 00:12	13°♁25'14	2.67951 AU	desc. node	16150 Jul 23 19:00	6°♁10'45	
	16145 May 18 04:04	0°♁			16150 Jul 28 23:28	5°♁59'22	
morning rise	16145 May 30 12:19	7°♁48'28		min. Earth dist.	16150 Aug 23 02:39	30°♁	
	16145 Jul 04 14:42	0°♁		opposition	16150 Aug 26 11:11	28°♁43'52	0.59017 AU
	16145 Aug 20 22:26	0°♁		greatest brilliancy	16150 Sep 01 14:49	26°♁20'03	-1°34'18
	16145 Oct 07 02:15	0°♁		direct	16150 Sep 01 05:08	26°♁29'30	-1.7m
					16150 Oct 09 02:24	17°♁49'59	

	16150 Nov 29 08:50	0°♄			16155 Nov 27 21:38	0°♄	
	16151 Jan 29 15:45	0°♄					
	16151 Mar 22 12:45	0°♄	conjunction		16155 Dec 29 15:37	24°♄19'08	0°48'47
	16151 May 09 14:08	0°♄	minimum elong		16155 Dec 29 18:56	24°♄25'23	0°49'26
evening set	16151 Jun 19 14:59	27°♄10'11			16156 Jan 06 05:20	0°♄	
	16151 Jun 23 18:37	0°♄	max. Earth dist.		16156 Feb 15 04:19	29°♄08'18	2.46449 AU
max. Earth dist.	16151 Jul 04 21:50	7°♄39'52	2.51444 AU		16156 Feb 16 09:25	0°♄	
	16151 Aug 05 11:22	0°♄	morning rise		16156 Feb 28 19:17	8°♄44'26	
			desc. node		16156 Mar 19 13:32	22°♄21'54	
conjunction	16151 Aug 09 12:27	2°♄55'37	-0°07'26		16156 Mar 30 20:45	0°♄	
minimum elong	16151 Aug 09 12:54	2°♄56'27	0°07'50		16156 May 16 00:02	0°♄	
behind sun begin	16151 Aug 08 16:35	2°♄19'38			16156 Jul 04 14:20	0°♄	
behind sun end	16151 Aug 10 09:14	3°♄33'18			16156 Aug 30 09:30	0°♄	
asc. node	16151 Aug 20 10:59	10°♄54'48		retrograde	16156 Nov 05 21:29	19°♄04'53	
	16151 Sep 15 01:35	0°♄		opposition	16156 Dec 14 14:32	10°♄19'58	-4°23'49
morning rise	16151 Oct 07 20:02	17°♄23'07		greatest brilliancy	16156 Dec 15 11:12	10°♄00'02	-1.5m
	16151 Oct 24 02:22	0°♄		min. Earth dist.	16156 Dec 19 22:53	8°♄16'24	0.62886 AU
	16151 Dec 01 06:42	0°♄		direct	16157 Jan 24 18:58	0°♄21'44	
	16152 Jan 08 11:09	0°♄		asc. node	16157 Apr 11 06:24	26°♄33'32	
	16152 Feb 16 15:37	0°♄			16157 Apr 17 06:50	0°♄	
	16152 Mar 29 00:14	0°♄			16157 Jun 02 21:00	0°♄	
	16152 May 13 08:53	0°♄			16157 Jul 14 01:08	0°♄	
desc. node	16152 Jun 15 00:35	18°♄52'11			16157 Aug 21 21:35	0°♄	
	16152 Jul 07 21:26	0°♄			16157 Sep 29 00:49	0°♄	
retrograde	16152 Aug 27 16:25	12°♄49'32			16157 Nov 06 14:33	0°♄	
min. Earth dist.	16152 Oct 05 03:17	3°♄49'38	0.67070 AU		16157 Dec 16 11:42	0°♄	
opposition	16152 Oct 07 13:34	2°♄51'57	-3°58'25	evening set	16157 Dec 28 20:15	9°♄01'53	
greatest brilliancy	16152 Oct 07 04:03	3°♄01'22	-1.3m		16158 Jan 27 05:38	0°♄	
	16152 Oct 14 23:36	30°♄		desc. node	16158 Feb 04 04:02	5°♄32'20	
direct	16152 Nov 16 20:26	23°♄23'55					
	16152 Dec 23 06:33	0°♄		conjunction	16158 Feb 22 13:14	18°♄10'58	-0°11'34
	16153 Feb 26 21:09	0°♄		minimum elong	16158 Feb 22 12:40	18°♄09'59	0°11'20
	16153 Apr 18 19:52	0°♄		behind sun begin	16158 Feb 21 21:14	17°♄43'43	
	16153 Jun 03 17:19	0°♄		behind sun end	16158 Feb 23 04:05	18°♄36'13	
asc. node	16153 Jul 07 03:26	23°♄22'51			16158 Mar 12 01:34	0°♄	
	16153 Jul 16 07:17	0°♄		max. Earth dist.	16158 Mar 20 16:36	5°♄44'33	2.58989 AU
evening set	16153 Aug 07 08:49	16°♄17'34		morning rise	16158 Apr 12 14:30	20°♄46'10	
	16153 Aug 25 11:24	0°♄			16158 Apr 26 22:00	0°♄	
max. Earth dist.	16153 Sep 01 12:18	5°♄23'57	2.37769 AU		16158 Jun 13 15:53	0°♄	
	16153 Oct 03 01:30	0°♄			16158 Aug 02 13:50	0°♄	
					16158 Sep 25 15:37	0°♄	
conjunction	16153 Oct 11 23:54	7°♄03'09	0°58'22	retrograde	16158 Dec 22 17:16	29°♄32'24	
minimum elong	16153 Oct 11 20:14	6°♄55'54	0°58'42	opposition	16159 Jan 27 00:09	22°♄12'46	-1°42'36
	16153 Nov 09 22:08	0°♄		greatest brilliancy	16159 Jan 27 15:07	21°♄59'22	-2.1m
	16153 Dec 17 22:43	0°♄		min. Earth dist.	16159 Feb 04 11:23	19°♄11'33	0.51038 AU
morning rise	16153 Dec 26 01:42	6°♄19'35		asc. node	16159 Feb 27 12:05	13°♄36'39	
	16154 Jan 26 00:33	0°♄		direct	16159 Mar 06 11:53	13°♄15'58	
	16154 Mar 07 23:38	0°♄			16159 Apr 30 09:03	0°♄	
	16154 Apr 20 16:05	0°♄			16159 Jun 17 12:14	0°♄	
desc. node	16154 May 02 21:29	7°♄58'59			16159 Jul 28 16:11	0°♄	
	16154 Jun 07 09:51	0°♄			16159 Sep 06 04:14	0°♄	
	16154 Aug 03 03:38	0°♄			16159 Oct 15 22:18	0°♄	
retrograde	16154 Sep 30 18:40	15°♄27'21			16159 Nov 25 23:19	0°♄	
opposition	16154 Nov 10 05:33	5°♄54'41	-4°52'29	desc. node	16159 Dec 22 22:43	19°♄02'57	
greatest brilliancy	16154 Nov 10 10:47	5°♄49'32	-1.2m		16160 Jan 07 19:12	0°♄	
min. Earth dist.	16154 Nov 11 16:52	5°♄19'57	0.68414 AU	evening set	16160 Feb 16 01:46	26°♄26'23	
	16154 Nov 26 09:52	30°♄			16160 Feb 21 11:07	0°♄	
direct	16154 Dec 21 17:59	25°♄57'28					
	16155 Jan 18 05:14	0°♄		conjunction	16160 Apr 03 06:16	27°♄10'43	-0°54'53
	16155 Mar 26 09:35	0°♄		minimum elong	16160 Apr 03 04:55	27°♄08'33	0°55'09
	16155 May 14 01:40	0°♄			16160 Apr 07 15:46	0°♄	
asc. node	16155 May 25 02:16	7°♄23'07		max. Earth dist.	16160 Apr 13 06:23	3°♄35'30	2.66494 AU
	16155 Jun 26 07:34	0°♄		morning rise	16160 May 17 08:22	25°♄14'28	
	16155 Aug 05 12:02	0°♄			16160 May 24 21:24	0°♄	
	16155 Sep 12 22:59	0°♄			16160 Jul 11 17:35	0°♄	
evening set	16155 Oct 19 09:43	28°♄55'13			16160 Aug 29 01:08	0°♄	
	16155 Oct 20 18:23	0°♄			16160 Oct 17 06:04	0°♄	

	16160 Dec 08 08:00	0°♄	evening set	16166 Jun 03 21:36	11°♅59'48	
asc. node	16161 Jan 14 17:08	18°♄15'45	max. Earth dist.	16166 Jun 22 05:03	24°♅13'34	2.56189 AU
retrograde	16161 Mar 01 08:00	29°♄13'47		16166 Jun 30 17:14	0°♄	
opposition	16161 Mar 31 08:52	24°♄08'17 5°07'01				
greatest brilliancy	16161 Apr 01 03:40	23°♄55'05 -2.9m	conjunction	16166 Jul 21 16:50	14°♄29'12 -0°29'57	
min. Earth dist.	16161 Apr 05 05:45	22°♄46'33 0.37983 AU	minimum elong	16166 Jul 21 18:10	14°♄31'33 0°30'30	
direct	16161 May 01 16:37	18°♄26'30		16166 Aug 12 14:33	0°♄	
	16161 Jun 14 05:26	0°♄	asc. node	16166 Sep 06 04:55	17°♄53'36	
	16161 Aug 04 18:27	0°♄	morning rise	16166 Sep 13 02:58	23°♄00'48	
	16161 Sep 18 12:58	0°♄		16166 Sep 22 11:37	0°♄	
	16161 Nov 01 20:05	0°♄		16166 Oct 31 19:13	0°♄	
desc. node	16161 Nov 08 23:23	4°♄47'11		16166 Dec 09 05:11	0°♄	
	16161 Dec 17 00:35	0°♄		16167 Jan 16 13:58	0°♄	
	16162 Feb 01 07:53	0°♄		16167 Feb 24 23:17	0°♄	
	16162 Mar 20 10:58	0°♄		16167 Apr 07 19:48	0°♄	
evening set	16162 Mar 25 13:51	3°♄14'33		16167 May 24 23:34	0°♄	
max. Earth dist.	16162 May 05 14:19	29°♄12'05 2.68504 AU	desc. node	16167 Jul 02 15:28	19°♄26'26	
	16162 May 06 20:33	0°♄	retrograde	16167 Aug 15 05:09	29°♄34'26	
			min. Earth dist.	16167 Sep 20 22:58	21°♄07'35 0.64692 AU	
conjunction	16162 May 08 11:26	1°♄01'39 -1°13'28	opposition	16167 Sep 24 21:29	19°♄34'16 -3°15'19	
minimum elong	16162 May 08 11:06	1°♄01'06 1°14'04	greatest brilliancy	16167 Sep 24 09:04	19°♄46'31 -1.4m	
morning rise	16162 Jun 20 10:55	28°♄24'37	direct	16167 Nov 03 06:59	10°♄24'44	
	16162 Jun 22 22:25	0°♄		16168 Jan 11 01:30	0°♄	
	16162 Aug 08 05:58	0°♄		16168 Mar 08 00:21	0°♄	
	16162 Sep 22 12:57	0°♄		16168 Apr 26 11:14	0°♄	
	16162 Nov 05 17:20	0°♄		16168 Jun 10 23:45	0°♄	
asc. node	16162 Dec 02 18:48	18°♄42'26	evening set	16168 Jul 16 18:55	25°♄05'50	
	16162 Dec 19 00:08	0°♄	asc. node	16168 Jul 23 22:02	0°♄14'54	
	16163 Jan 31 07:41	0°♄		16168 Jul 23 13:49	0°♄	
	16163 Mar 19 07:34	0°♄	max. Earth dist.	16168 Jul 31 00:33	5°♄25'54 2.43029 AU	
retrograde	16163 May 18 23:59	20°♄52'16		16168 Sep 01 21:09	0°♄	
min. Earth dist.	16163 Jun 13 22:29	16°♄20'56 0.40547 AU				
greatest brilliancy	16163 Jun 20 01:13	14°♄27'01 -2.7m	conjunction	16168 Sep 13 10:50	8°♄51'43 0°34'37	
opposition	16163 Jun 21 09:07	14°♄02'02 5°36'27	minimum elong	16168 Sep 13 08:06	8°♄46'28 0°34'38	
direct	16163 Jul 22 02:19	8°♄20'23		16168 Oct 10 14:35	0°♄	
desc. node	16163 Sep 27 04:18	29°♄14'15		16168 Nov 17 13:17	0°♄	
	16163 Sep 28 16:51	0°♄	morning rise	16168 Nov 23 14:06	4°♄46'57	
	16163 Nov 22 00:55	0°♄		16168 Dec 25 14:13	0°♄	
	16164 Jan 11 09:34	0°♄		16169 Feb 02 15:21	0°♄	
	16164 Feb 29 13:36	0°♄		16169 Mar 15 15:11	0°♄	
	16164 Apr 17 19:08	0°♄		16169 Apr 28 15:45	0°♄	
evening set	16164 Apr 28 13:40	6°♄48'02	desc. node	16169 May 19 13:21	13°♄16'11	
max. Earth dist.	16164 May 26 20:57	24°♄52'52 2.65009 AU		16169 Jun 16 21:22	0°♄	
	16164 Jun 03 18:57	0°♄		16169 Aug 24 17:53	0°♄	
			retrograde	16169 Sep 17 10:05	3°♄06'24	
conjunction	16164 Jun 11 12:55	5°♄02'21 -1°06'13		16169 Oct 09 11:02	30°♄	
minimum elong	16164 Jun 11 13:58	5°♄04'03 1°06'56	opposition	16169 Oct 28 04:59	23°♄21'25 -4°40'50	
	16164 Jul 19 05:18	0°♄	greatest brilliancy	16169 Oct 28 03:41	23°♄22'43 -1.2m	
morning rise	16164 Jul 26 21:08	5°♄10'23	min. Earth dist.	16169 Oct 28 03:29	23°♄22'54 0.68714 AU	
	16164 Aug 31 21:52	0°♄	direct	16169 Dec 08 10:25	13°♄32'50	
	16164 Oct 12 20:43	0°♄		16170 Feb 07 15:08	0°♄	
asc. node	16164 Oct 19 13:06	4°♄53'18		16170 Apr 04 23:01	0°♄	
	16164 Nov 22 07:29	0°♄		16170 May 22 03:30	0°♄	
	16164 Dec 31 19:12	0°♄	asc. node	16170 Jun 10 17:45	13°♄24'53	
	16165 Feb 09 07:11	0°♄		16170 Jul 04 00:40	0°♄	
	16165 Mar 22 13:35	0°♄		16170 Aug 13 04:01	0°♄	
	16165 May 09 01:48	0°♄	evening set	16170 Sep 18 00:25	27°♄55'40	
retrograde	16165 Jul 08 01:24	19°♄26'06		16170 Sep 20 15:25	0°♄	
min. Earth dist.	16165 Aug 08 11:37	12°♄45'19 0.54242 AU		16170 Oct 28 10:27	0°♄	
desc. node	16165 Aug 14 11:21	10°♄28'37				
opposition	16165 Aug 15 21:15	9°♄56'18 -0°04'15	conjunction	16170 Nov 30 14:24	26°♄11'05 1°05'36	
greatest brilliancy	16167 Sep 15 18:33	23°♄07'19 0.8m	minimum elong	16170 Nov 30 16:41	26°♄15'33 1°06'18	
direct	16165 Sep 20 18:45	2°♄00'59		16170 Dec 05 11:36	0°♄	
	16165 Dec 14 18:09	0°♄		16171 Jan 13 15:34	0°♄	
	16166 Feb 07 15:53	0°♄	max. Earth dist.	16171 Jan 23 13:07	7°♄22'57 2.40666 AU	
	16166 Mar 29 23:35	0°♄	morning rise	16171 Feb 07 00:26	18°♄01'03	
	16166 May 16 13:26	0°♄		16171 Feb 23 15:53	0°♄	

desc. node	16171 Apr 06 06:45	28° H 47'01	opposition	16176 Mar 02 13:01	26° H 34'41	1°58'48
	16171 Apr 08 02:19	0° Y	greatest brilliancy	16176 Mar 03 02:48	26° H 23'46	-2.6m
	16171 May 24 14:02	0° B	min. Earth dist.	16176 Mar 10 12:10	24° H 03'37	0.42357 AU
	16171 Jul 14 17:02	0° II	direct	16176 Apr 06 06:46	19° H 22'41	
	16171 Sep 18 23:12	0° E		16176 May 17 09:55	0° E	
retrograde	16171 Oct 22 18:26	5° E 47'45		16176 Jul 07 06:13	0° M	
	16171 Nov 22 12:29	30° R II		16176 Aug 18 22:18	0° J	
opposition	16171 Dec 01 08:12	26° II 40'58	-4°46'11	16176 Sep 29 14:31	0° Z	
greatest brilliancy	16171 Dec 01 23:38	26° II 25'56	-1.3m	16176 Nov 11 02:30	0° \approx	
min. Earth dist.	16171 Dec 05 04:37	25° II 11'00	0.65861 AU	16176 Nov 25 12:52	9° \approx 57'46	
direct	16172 Jan 11 21:00	16° II 38'48		16176 Dec 25 02:09	0° H	
	16172 Mar 04 04:42	0° E		16177 Feb 08 14:17	0° Y	
asc. node	16172 Apr 27 18:48	29° E 45'25	evening set	16177 Mar 11 07:08	19° Y 47'49	
	16172 Apr 28 04:08	0° Q		16177 Mar 27 06:27	0° B	
	16172 Jun 11 20:13	0° H				
	16172 Jul 22 11:07	0° E	conjunction	16177 Apr 25 00:43	18° B 16'35	-1°09'16
	16172 Aug 30 01:59	0° M	minimum elong	16177 Apr 24 23:53	18° B 15'14	1°09'46
	16172 Oct 07 00:52	0° J	max. Earth dist.	16177 Apr 26 23:39	19° B 30'58	2.68382 AU
	16172 Nov 14 09:14	0° Z		16177 May 13 12:44	0° II	
evening set	16172 Dec 03 22:13	14° Z 57'19	morning rise	16177 Jun 07 01:20	15° II 32'37	
	16172 Dec 23 23:37	0° \approx		16177 Jun 29 19:28	0° E	
				16177 Aug 15 17:15	0° Q	
conjunction	16173 Feb 03 07:19	29° \approx 54'17	0°11'20	16177 Oct 01 01:50	0° H	
minimum elong	16173 Feb 03 08:02	29° \approx 55'34	0°11'46	16177 Nov 15 23:35	0° E	
behind sun begin	16173 Feb 02 15:53	29° \approx 27'04		16177 Dec 19 09:37	21° E 48'06	
behind sun end	16173 Feb 04 00:11	0° H 24'03	asc. node	16178 Jan 01 03:17	0° M	
	16173 Feb 03 10:33	0° H		16178 Feb 19 21:57	0° J	
desc. node	16173 Feb 20 22:59	12° H 14'12	retrograde	16178 Apr 21 11:48	19° J 52'53	
max. Earth dist.	16173 Mar 09 03:33	23° H 19'15	2.54590 AU	16178 May 18 06:40	15° J 32'39	0.37026 AU
	16173 Mar 19 01:10	0° Y	min. Earth dist.	16178 May 21 04:47	14° J 44'28	-3.0m
morning rise	16173 Mar 27 23:48	5° Y 58'04	greatest brilliancy	16178 May 22 01:30	14° J 30'13	7°19'52
	16173 May 03 21:30	0° B	opposition	16178 Jun 20 04:05	9° J 36'02	
	16173 Jun 21 02:22	0° II	direct	16178 Aug 23 05:06	0° Z	
	16173 Aug 11 14:30	0° E		16178 Oct 13 16:57	29° Z 26'27	
	16173 Oct 11 04:20	0° Q	desc. node	16178 Oct 14 15:07	0° \approx	
retrograde	16173 Dec 02 16:14	12° Q 37'32		16178 Dec 02 08:23	0° H	
opposition	16174 Jan 08 13:14	4° Q 38'08	-3°07'51	16179 Jan 19 13:42	0° Y	
greatest brilliancy	16174 Jan 09 11:35	4° Q 17'16	-1.8m	16179 Mar 08 17:45	0° B	
min. Earth dist.	16174 Jan 16 00:54	1° Q 51'03	0.56297 AU	16179 Apr 16 00:42	23° B 59'33	
	16174 Jan 21 07:28	30° R E		16179 Apr 25 13:17	0° II	
direct	16174 Feb 17 11:51	25° E 05'09	evening set	16179 May 18 23:57	14° II 53'16	2.67039 AU
asc. node	16174 Mar 16 00:54	29° E 23'57	max. Earth dist.			
	16174 Mar 17 22:56	0° Q	conjunction	16179 May 29 14:00	21° II 39'45	-1°12'16
	16174 May 16 05:28	0° H	minimum elong	16179 May 29 14:31	21° II 40'36	1°12'59
	16174 Jun 28 18:10	0° E		16179 Jun 11 12:34	0° E	
	16174 Aug 07 12:55	0° M	morning rise	16179 Jul 12 12:28	20° E 14'23	
	16174 Sep 15 06:36	0° J		16179 Jul 27 05:38	0° Q	
	16174 Oct 24 09:56	0° Z		16179 Sep 09 10:21	0° H	
	16174 Dec 03 21:06	0° \approx		16179 Oct 22 01:16	0° E	
desc. node	16175 Jan 08 15:34	25° \approx 27'13	asc. node	16179 Nov 06 07:52	11° E 00'59	
	16175 Jan 15 04:31	0° H		16179 Dec 02 06:06	0° M	
evening set	16175 Jan 29 17:21	9° H 59'50		16180 Jan 11 14:00	0° J	
	16175 Feb 28 10:37	0° Y		16180 Feb 21 05:30	0° Z	
				16180 Apr 05 01:34	0° \approx	
conjunction	16175 Mar 20 09:52	13° Y 09'07	-0°40'58	16180 Jun 19 01:37	0° H	
minimum elong	16175 Mar 20 08:29	13° Y 06'51	0°41'02	16180 Jun 20 11:21	0° H 00'53	
max. Earth dist.	16175 Apr 05 05:42	23° Y 26'15	2.64193 AU	16180 Jun 21 21:01	30° R \approx	
	16175 Apr 15 10:11	0° B	min. Earth dist.	16180 Jul 19 12:51	24° \approx 11'20	0.48859 AU
morning rise	16175 May 04 21:14	12° B 25'37	opposition	16180 Jul 27 18:35	21° \approx 11'33	1°51'46
	16175 Jun 01 17:54	0° II	greatest brilliancy	16180 Jul 27 05:19	21° \approx 23'37	-2.2m
	16175 Jul 20 03:47	0° E	direct	16180 Aug 30 18:39	14° \approx 00'44	
	16175 Sep 07 22:02	0° Q	desc. node	16180 Aug 30 23:20	14° \approx 00'44	
	16175 Oct 30 17:45	0° H		16180 Oct 28 16:30	0° H	
	16176 Jan 09 12:25	0° E		16180 Dec 26 00:55	0° Y	
retrograde	16176 Jan 30 13:38	2° E 32'42		16181 Feb 15 20:13	0° B	
asc. node	16176 Feb 01 07:01	2° E 31'34		16181 Apr 06 03:05	0° II	
	16176 Feb 19 14:55	30° R H	evening set	16181 May 20 06:40	27° II 58'40	

	16181 May 23 09:38	0°☾		morning rise	16186 Jan 11 21:44	23°☾02'07	
max. Earth dist.	16181 Jun 11 05:23	12°☾19'06	2.60276 AU		16186 Jan 21 02:44	0°≈	
					16186 Mar 03 01:04	0°✎	
conjunction	16181 Jul 04 23:30	28°☾12'09	-0°47'45		16186 Apr 15 13:23	0°☿	
minimum elong	16181 Jul 05 01:01	28°☾14'43	0°48'25	desc. node	16186 Apr 23 01:26	4°☿57'40	
	16181 Jul 07 15:07	0°♈			16186 Jun 01 15:52	0°♄	
	16181 Aug 19 18:58	0°♊			16186 Jul 25 11:19	0°♈	
morning rise	16181 Aug 23 05:12	2°♊26'31		retrograde	16186 Oct 08 13:45	23°♈05'15	
asc. node	16181 Sep 23 00:23	24°♊48'11		opposition	16186 Nov 17 18:54	13°♈40'49	-4°53'55
	16181 Sep 30 00:52	0°♊		greatest brilliancy	16186 Nov 18 03:51	13°♈32'02	-1.3m
	16181 Nov 08 17:14	0°♋		min. Earth dist.	16186 Nov 20 02:30	12°♈46'18	0.67796 AU
	16181 Dec 17 10:39	0°♌		direct	16186 Dec 29 09:34	3°♈40'38	
	16182 Jan 25 01:59	0°♍			16187 Mar 19 05:07	0°☾	
	16182 Mar 05 20:08	0°≈			16187 May 08 11:15	0°♈	
	16182 Apr 17 15:24	0°✎		asc. node	16187 May 15 09:16	4°♈32'40	
	16182 Jun 07 22:07	0°☿			16187 Jun 21 03:41	0°♊	
desc. node	16182 Jul 19 04:01	14°☿18'02			16187 Jul 31 11:49	0°♊	
retrograde	16182 Aug 01 04:40	15°☿24'18			16187 Sep 07 23:58	0°♋	
min. Earth dist.	16182 Sep 05 00:34	7°☿34'51	0.61304 AU	greatest brilliancy	16187 Sep 30 17:33	18°♋00'41	1.1m
opposition	16182 Sep 10 10:17	5°☿27'42	-2°17'03		16187 Oct 15 20:08	0°♌	
greatest brilliancy	16182 Sep 09 22:10	5°☿39'34	-1.6m	evening set	16187 Nov 05 23:20	16°♌41'07	
	16182 Sep 25 22:18	30°♌			16187 Nov 23 00:28	0°♍	
direct	16182 Oct 18 16:25	26°♌41'41			16188 Jan 01 09:27	0°≈	
	16182 Nov 12 10:31	0°☿					
	16183 Jan 22 22:47	0°♄		conjunction	16188 Jan 12 23:31	8°≈35'08	0°35'39
	16183 Mar 17 05:32	0°♈		minimum elong	16188 Jan 13 02:04	8°≈39'48	0°36'13
	16183 May 04 17:44	0°☾			16188 Feb 11 14:44	0°✎	
	16183 Jun 19 01:20	0°♈		max. Earth dist.	16188 Feb 24 12:10	9°✎04'16	2.49505 AU
evening set	16183 Jun 29 05:25	6°♈59'45		desc. node	16188 Mar 09 16:18	18°✎52'24	
max. Earth dist.	16183 Jul 13 08:51	16°♈53'00	2.48556 AU	morning rise	16188 Mar 10 16:00	19°✎32'58	
	16183 Jul 31 17:30	0°♊			16188 Mar 26 01:53	0°☿	
asc. node	16183 Aug 10 15:19	7°♊12'20			16188 May 11 00:47	0°♄	
					16188 Jun 28 23:00	0°♈	
conjunction	16183 Aug 21 09:45	15°♊08'14	0°07'25		16188 Aug 22 02:22	0°☾	
minimum elong	16183 Aug 21 09:15	15°♊07'19	0°07'09	retrograde	16188 Nov 15 02:32	27°☾35'42	
behind sun begin	16183 Aug 20 11:15	14°♊26'33		opposition	16188 Dec 23 06:02	19°☾05'14	-4°02'26
behind sun end	16183 Aug 22 07:16	15°♊48'06		greatest brilliancy	16188 Dec 24 04:28	18°☾43'48	-1.6m
	16183 Sep 10 05:46	0°♊		min. Earth dist.	16188 Dec 29 09:46	16°☾44'25	0.60782 AU
	16183 Oct 19 04:11	0°♋		direct	16189 Feb 02 02:49	9°☾13'01	
morning rise	16183 Oct 23 18:55	3°♋36'40		asc. node	16189 Apr 01 12:58	26°☾17'41	
	16183 Nov 26 06:31	0°♌			16189 Apr 08 17:29	0°♈	
greatest brilliancy	16183 Dec 15 11:28	15°♌09'50	1.2m		16189 May 27 13:58	0°♊	
	16184 Jan 03 09:22	0°♍			16189 Jul 08 09:13	0°♋	
	16184 Feb 11 11:31	0°≈			16189 Aug 16 12:03	0°♌	
	16184 Mar 23 14:45	0°✎			16189 Sep 23 19:24	0°♌	
	16184 May 07 06:27	0°☿			16189 Nov 01 12:57	0°♍	
desc. node	16184 Jun 05 05:34	17°☿32'10			16189 Dec 11 13:48	0°≈	
	16184 Jun 28 08:19	0°♄		evening set	16190 Jan 10 03:43	21°≈20'02	
retrograde	16184 Sep 04 05:40	20°♄38'02			16190 Jan 22 11:07	0°✎	
min. Earth dist.	16184 Oct 13 13:22	11°♄21'45	0.67941 AU	desc. node	16190 Jan 25 08:38	2°✎01'17	
opposition	16184 Oct 15 03:38	10°♄43'55	-4°17'50				
greatest brilliancy	16184 Oct 14 20:36	10°♄50'52	-1.3m	conjunction	16190 Mar 04 08:44	27°✎58'38	-0°23'21
direct	16184 Nov 24 20:13	1°♄07'27		minimum elong	16190 Mar 04 07:43	27°✎56'55	0°23'14
	16185 Feb 20 01:24	0°♈			16190 Mar 07 09:19	0°☿	
	16185 Apr 13 11:10	0°☾		max. Earth dist.	16190 Mar 26 16:06	12°☿45'44	2.61061 AU
	16185 May 29 18:49	0°♈		morning rise	16190 Apr 20 21:48	29°☿09'00	
asc. node	16185 Jun 27 09:33	19°♈52'32			16190 Apr 22 05:34	0°♄	
	16185 Jul 11 11:26	0°♊			16190 Jun 08 18:10	0°♈	
	16185 Aug 20 15:33	0°♊			16190 Jul 28 00:00	0°☾	
evening set	16185 Aug 21 03:53	0°♊23'36			16190 Sep 18 00:33	0°♈	
	16185 Sep 28 04:40	0°♋			16190 Nov 18 09:42	0°♊	
				retrograde	16191 Jan 04 13:14	10°♊45'26	
conjunction	16185 Oct 29 15:45	24°♋56'35	1°06'24	opposition	16191 Feb 07 17:37	3°♊52'42	-0°35'28
minimum elong	16185 Oct 29 13:35	24°♋52'17	1°06'57	greatest brilliancy	16191 Feb 07 23:22	3°♊47'45	-2.3m
	16185 Nov 05 00:31	0°♌		min. Earth dist.	16191 Feb 16 10:43	0°♊52'29	0.47882 AU
max. Earth dist.	16185 Nov 11 17:51	5°♌20'08	2.36128 AU	asc. node	16191 Feb 17 20:04	0°♊24'51	
	16185 Dec 13 00:54	0°♍			16191 Feb 19 02:45	30°♌	

direct	16191 Mar 17 03:19	25°Ω25'56	conjunction	16196 Jun 19 18:35	13°♄29'15	-1°00'46
	16191 Apr 12 12:13	0°♎	minimum elong	16196 Jun 19 19:52	13°♄31'22	1°01'29
	16191 Jun 08 23:38	0°♊		16196 Jul 14 12:26	0°♊	
	16191 Jul 21 18:04	0°♎	morning rise	16196 Aug 05 05:22	14°♊48'29	
	16191 Aug 30 23:14	0°♈		16196 Aug 27 00:26	0°♎	
	16191 Oct 10 05:08	0°♄		16196 Oct 07 17:03	0°♊	
	16191 Nov 20 15:39	0°♌	asc. node	16196 Oct 09 17:57	1°♊29'52	
desc. node	16191 Dec 13 03:52	15°♌48'13		16196 Nov 16 20:41	0°♎	
	16192 Jan 02 19:22	0°♈		16196 Dec 26 00:45	0°♈	
	16192 Feb 16 17:02	0°♑		16197 Feb 03 03:18	0°♄	
evening set	16192 Feb 25 04:44	5°♑33'27		16197 Mar 15 15:14	0°♌	
	16192 Apr 03 00:43	0°♄		16197 Apr 29 12:24	0°♈	
			retrograde	16197 Jul 17 04:17	29°♈43'18	
conjunction	16192 Apr 11 07:35	5°♄17'49 -1°01'17	desc. node	16197 Aug 04 18:00	27°♈16'38	
minimum elong	16192 Apr 11 06:21	5°♄15'52 1°01'39	min. Earth dist.	16197 Aug 18 21:01	22°♈36'38	0.56983 AU
max. Earth dist.	16192 Apr 18 08:03	9°♄46'21 2.67408 AU	opposition	16197 Aug 25 15:09	20°♈00'13	-0°59'27
	16192 May 20 05:40	0°♊	greatest brilliancy	16197 Aug 25 08:22	20°♈06'46	-1.8m
morning rise	16192 May 24 21:04	2°♊55'55	direct	16197 Oct 01 11:10	11°♈44'31	
	16192 Jul 06 20:05	0°♄		16197 Dec 05 15:57	0°♑	
	16192 Aug 23 13:33	0°♊		16198 Feb 01 17:04	0°♄	
	16192 Oct 10 12:11	0°♎		16198 Mar 24 21:44	0°♊	
	16192 Nov 28 11:20	0°♊		16198 May 11 19:07	0°♄	
asc. node	16193 Jan 05 01:01	21°♊33'08	evening set	16198 Jun 12 16:14	20°♄58'11	
	16193 Jan 21 10:14	0°♎		16198 Jun 26 00:43	0°♊	
retrograde	16193 Mar 20 05:17	16°♎56'05	max. Earth dist.	16198 Jun 29 04:54	2°♊10'08	2.53657 AU
opposition	16193 Apr 18 12:56	12°♎05'29 6°37'10				
greatest brilliancy	16193 Apr 18 22:19	11°♎59'15 -3.0m	conjunction	16198 Aug 01 00:49	25°♊06'40	-0°17'33
min. Earth dist.	16193 Apr 20 14:47	11°♎32'22 0.36638 AU	minimum elong	16198 Aug 01 01:45	25°♊08'21	0°18'00
direct	16193 May 18 08:04	7°♎01'35		16198 Aug 07 20:40	0°♎	
	16193 Jul 23 14:20	0°♈	asc. node	16198 Aug 27 09:59	14°♎13'11	
	16193 Sep 10 08:52	0°♄		16198 Sep 17 15:00	0°♊	
	16193 Oct 26 07:35	0°♌	morning rise	16198 Sep 26 11:29	6°♊41'25	
desc. node	16193 Oct 30 04:14	2°♌31'38		16198 Oct 26 19:23	0°♎	
	16193 Dec 11 09:57	0°♈		16198 Dec 04 02:13	0°♈	
	16194 Jan 27 06:29	0°♑		16199 Jan 11 08:05	0°♄	
	16194 Mar 15 17:08	0°♄		16199 Feb 19 13:17	0°♌	
evening set	16194 Apr 02 11:47	11°♄12'35		16199 Apr 02 00:18	0°♈	
	16194 May 02 05:35	0°♊		16199 May 17 20:41	0°♑	
max. Earth dist.	16194 May 10 12:45	5°♊15'39 2.68220 AU	desc. node	16199 Jun 22 19:58	19°♑55'12	
				16199 Jul 16 02:00	0°♄	
conjunction	16194 May 16 02:53	8°♊48'39 -1°14'12	retrograde	16199 Aug 22 22:49	7°♄45'18	
minimum elong	16194 May 16 02:51	8°♊48'36 1°14'51		16199 Sep 27 02:53	30°♈♑	
	16194 Jun 18 06:12	0°♄	min. Earth dist.	16199 Sep 29 16:37	28°♑59'35	0.66138 AU
morning rise	16194 Jun 28 06:42	6°♄27'51	opposition	16199 Oct 02 19:04	27°♑46'00	-3°42'33
	16194 Aug 03 08:09	0°♊	greatest brilliancy	16199 Oct 02 07:54	27°♑57'02	-1.4m
	16194 Sep 17 04:49	0°♎	direct	16199 Nov 11 17:26	18°♑25'34	
	16194 Oct 30 18:00	0°♊		16199 Dec 31 21:11	0°♄	
asc. node	16194 Nov 23 00:02	16°♊22'39		16200 Mar 02 24:00	0°♊	
	16194 Dec 12 02:50	0°♎		16200 Apr 22 08:03	0°♄	
	16195 Jan 22 23:19	0°♈		16200 Jun 07 03:13	0°♊	
	16195 Mar 07 06:39	0°♄	asc. node	16200 Jul 15 02:06	26°♊36'33	
	16195 Apr 30 14:36	0°♌		16200 Jul 19 18:36	0°♎	
retrograde	16195 Jun 01 02:44	6°♌36'57	evening set	16200 Jul 29 13:29	7°♎08'56	
min. Earth dist.	16195 Jun 27 22:25	1°♌40'31 0.43299 AU	max. Earth dist.	16200 Aug 15 19:50	19°♎59'09	2.40012 AU
	16195 Jul 02 23:36	30°♈♄		16200 Aug 29 01:21	0°♊	
greatest brilliancy	16195 Jul 04 22:43	29°♄20'16 -2.5m				
opposition	16195 Jul 06 02:23	28°♄57'01 4°13'34	conjunction	16200 Sep 29 22:51	24°♊40'35	0°49'12
direct	16195 Aug 07 00:18	22°♄41'58	minimum elong	16200 Sep 29 19:11	24°♊33'24	0°49'24
	16195 Sep 12 12:24	0°♌		16200 Oct 06 17:37	0°♎	
desc. node	16195 Sep 17 10:50	1°♌49'39		16200 Nov 13 15:16	0°♈	
	16195 Nov 14 07:48	0°♈	morning rise	16200 Dec 13 00:45	23°♈14'36	
	16196 Jan 05 13:32	0°♑		16200 Dec 21 15:37	0°♄	
	16196 Feb 24 11:58	0°♄		16201 Jan 29 16:05	0°♌	
	16196 Apr 13 01:29	0°♊		16201 Mar 11 13:42	0°♈	
evening set	16196 May 06 08:44	14°♊43'03		16201 Apr 24 07:08	0°♑	
	16196 May 30 03:39	0°♄	desc. node	16201 May 10 17:51	10°♑38'59	
max. Earth dist.	16196 Jun 01 06:04	1°♄21'48 2.63546 AU		16201 Jun 11 10:45	0°♄	

	16201 Aug 09 23:24	0°♐				16206 Aug 02 12:42	0°♌
retrograde	16201 Sep 25 23:54	10°♐40'51				16206 Sep 10 15:10	0°♏
opposition	16201 Nov 05 15:34	1°♐02'15	-4°49'14			16206 Oct 20 01:14	0°♎
greatest brilliancy	16201 Nov 05 17:51	1°♐00'01	-1.2m			16206 Nov 29 18:29	0°♍
min. Earth dist.	16201 Nov 06 10:36	0°♐43'32	0.68676 AU	desc. node		16206 Dec 30 19:00	22°♍01'00
	16201 Nov 08 06:55	30°♏8				16207 Jan 11 07:06	0°♏
direct	16201 Dec 17 02:03	21°♏08'23		evening set		16207 Feb 09 19:46	20°♏04'30
	16202 Jan 28 14:03	0°♐				16207 Feb 24 17:18	0°♑
	16202 Mar 30 19:15	0°♑					
	16202 May 17 20:50	0°♒		conjunction		16207 Mar 30 00:07	21°♑46'18 -0°49'36
asc. node	16202 Jun 01 23:39	10°♒13'18		minimum elong		16207 Mar 29 22:42	21°♑44'01 0°49'46
	16202 Jun 30 00:07	0°♑				16207 Apr 11 18:35	0°♏
	16202 Aug 09 05:10	0°♑		max. Earth dist.		16207 Apr 11 14:37	29°♑53'39 2.65571 AU
	16202 Sep 16 16:50	0°♌		morning rise		16207 May 13 15:05	20°♏17'42
evening set	16202 Oct 06 11:19	15°♌40'18				16207 May 29 00:17	0°♐
	16202 Oct 24 12:02	0°♏				16207 Jul 16 01:42	0°♑
	16202 Dec 01 13:57	0°♎				16207 Sep 02 22:29	0°♒
conjunction	16202 Dec 18 11:50	13°♎04'49	0°57'26			16207 Oct 23 09:48	0°♑
minimum elong	16202 Dec 18 15:13	13°♎11'20	0°58'07	asc. node		16207 Dec 18 11:42	0°♑
	16203 Jan 09 19:04	0°♍		retrograde		16208 Jan 23 13:57	13°♑50'32
max. Earth dist.	16203 Feb 07 14:38	21°♍13'28	2.43884 AU	opposition		16208 Feb 17 05:12	17°♑22'05
	16203 Feb 19 20:04	0°♏		greatest brilliancy		16208 Mar 19 01:56	11°♑55'04 3°45'06
morning rise	16203 Feb 20 18:35	0°♏40'01		min. Earth dist.		16208 Mar 19 21:54	11°♑40'13 -2.8m
desc. node	16203 Mar 28 11:04	25°♏26'25		direct		16208 Mar 25 16:12	9°♑58'03 0.39693 AU
	16203 Apr 04 05:21	0°♑				16208 Apr 20 22:08	5°♑33'37
	16203 May 20 09:54	0°♏				16208 Jun 26 22:03	0°♌
	16203 Jul 09 11:21	0°♐				16208 Aug 11 20:49	0°♏
	16203 Sep 06 18:22	0°♑				16208 Sep 23 22:05	0°♎
retrograde	16203 Nov 01 04:53	13°♑46'40		desc. node		16208 Nov 06 06:24	0°♍
opposition	16203 Dec 10 08:33	4°♑51'14	-4°35'02			16208 Nov 16 19:02	7°♍10'25
greatest brilliancy	16203 Dec 11 03:03	4°♑33'18	-1.4m			16208 Dec 20 19:36	0°♏
min. Earth dist.	16203 Dec 15 01:14	3°♑02'14	0.64349 AU	evening set		16209 Feb 04 16:55	0°♑
	16203 Dec 23 08:13	30°♏8				16209 Mar 20 12:45	28°♑03'13
direct	16204 Jan 20 18:19	24°♐50'20				16209 Mar 23 14:15	0°♏
	16204 Feb 20 05:04	0°♑		conjunction		16209 May 03 17:34	26°♏04'53 -1°12'14
asc. node	16204 Apr 19 03:15	28°♑00'33		minimum elong		16209 May 03 16:59	26°♏03'58 1°12'48
	16204 Apr 22 11:17	0°♒		max. Earth dist.		16209 May 02 23:42	25°♏36'35 2.68557 AU
	16204 Jun 07 04:36	0°♑				16209 May 09 21:57	0°♐
	16204 Jul 18 03:33	0°♑		morning rise		16209 Jun 15 16:05	23°♐21'06
	16204 Aug 25 21:42	0°♌				16209 Jun 26 02:04	0°♑
	16204 Oct 02 22:34	0°♏				16209 Aug 11 15:55	0°♒
evening set	16204 Nov 10 09:08	0°♎				16209 Sep 26 09:52	0°♑
	16204 Dec 19 12:14	29°♎34'18				16209 Nov 10 06:54	0°♑
	16204 Dec 20 02:07	0°♍		asc. node		16209 Dec 10 16:28	20°♑34'14
desc. node	16205 Jan 30 15:32	0°♏				16209 Dec 24 14:20	0°♌
	16205 Feb 12 01:17	8°♏40'21				16210 Feb 07 18:23	0°♏
						16210 Apr 02 16:06	0°♎
conjunction	16205 Feb 15 13:18	11°♏05'51	-0°02'16	retrograde		16210 May 08 16:53	8°♎18'08
minimum elong	16205 Feb 15 13:11	11°♏05'39	0°01'58	min. Earth dist.		16210 Jun 03 12:05	3°♎59'00 0.38663 AU
behind sun begin	16205 Feb 14 14:56	10°♏27'11		greatest brilliancy		16210 Jun 08 10:45	2°♎32'20 -2.8m
behind sun end	16205 Feb 16 11:26	11°♏44'04		opposition		16210 Jun 09 16:59	2°♎10'06 6°33'12
	16205 Mar 15 07:48	0°♑				16210 Jun 17 10:14	30°♏8
max. Earth dist.	16205 Mar 16 23:03	1°♑05'45	2.57136 AU	direct		16210 Jul 09 12:24	26°♏53'40
morning rise	16205 Apr 07 01:31	15°♑04'00				16210 Aug 01 00:51	0°♎
	16205 Apr 30 02:44	0°♏		desc. node		16210 Oct 04 23:14	29°♎06'21
	16205 Jun 16 23:41	0°♐				16210 Oct 06 13:48	0°♍
	16205 Aug 06 10:48	0°♑				16210 Nov 26 20:32	0°♏
	16205 Oct 01 12:07	0°♒				16211 Jan 15 03:44	0°♑
retrograde	16205 Dec 14 15:01	22°♒25'22				16211 Mar 04 20:18	0°♏
opposition	16206 Jan 19 16:17	14°♒46'44	-2°22'56			16211 Apr 21 21:19	0°♐
greatest brilliancy	16206 Jan 20 11:29	14°♒29'12	-2.0m	evening set		16211 Apr 24 18:11	1°♐48'34
min. Earth dist.	16206 Jan 27 19:00	11°♒49'24	0.53474 AU	max. Earth dist.		16211 May 25 03:06	21°♐07'51 2.66018 AU
direct	16206 Feb 27 22:13	5°♒31'07					
asc. node	16206 Mar 07 08:53	5°♒53'35		conjunction		16211 Jun 07 11:27	29°♐43'51 -1°09'18
	16206 May 08 10:11	0°♑		minimum elong		16211 Jun 07 12:16	29°♐45'11 1°10'01
	16206 Jun 23 01:11	0°♑				16211 Jun 07 21:26	0°♑

morning rise	16211 Jul 22 02:39	29° \mathfrak{D} 05'07		greatest brilliancy	16216 Oct 23 11:28	18° \mathfrak{B} 33'24	-1.2m
	16211 Jul 23 11:27	0° \mathfrak{Q}		min. Earth dist.	16216 Oct 22 21:46	18° \mathfrak{B} 46'56	0.68509 AU
	16211 Sep 05 10:10	0° \mathfrak{M}		direct	16216 Dec 03 16:09	8° \mathfrak{B} 45'46	
	16211 Oct 17 16:42	0° \mathfrak{L}			16217 Feb 13 08:12	0° \mathfrak{I}	
asc. node	16211 Oct 28 12:19	7° \mathfrak{L} 51'37			16217 Apr 08 20:52	0° \mathfrak{D}	
	16211 Nov 27 11:39	0° \mathfrak{M}			16217 May 25 17:45	0° \mathfrak{Q}	
	16212 Jan 06 07:25	0° \mathfrak{J}		asc. node	16217 Jun 18 15:57	16° \mathfrak{Q} 28'16	
	16212 Feb 15 05:01	0° \mathfrak{Z}			16217 Jul 07 14:22	0° \mathfrak{M}	
	16212 Mar 28 05:21	0° \mathfrak{X}			16217 Aug 16 19:08	0° \mathfrak{L}	
	16212 May 18 02:02	0° \mathfrak{H}		evening set	16217 Sep 06 05:46	15° \mathfrak{L} 48'06	
retrograde	16212 Jul 01 16:41	11° \mathfrak{H} 53'22			16217 Sep 24 07:55	0° \mathfrak{M}	
min. Earth dist.	16212 Aug 01 01:27	5° \mathfrak{H} 35'33	0.51881 AU		16217 Nov 01 03:14	0° \mathfrak{J}	
opposition	16212 Aug 08 22:28	2° \mathfrak{H} 38'55	0°41'37				
greatest brilliancy	16212 Aug 08 17:39	2° \mathfrak{H} 43'25	-2.1m	conjunction	16217 Nov 17 17:21	13° \mathfrak{J} 09'16	1°08'23
	16212 Aug 16 08:03	30° \mathfrak{R} \mathfrak{X}		minimum elong	16217 Nov 17 17:52	13° \mathfrak{J} 10'16	1°09'03
desc. node	16212 Aug 22 05:44	28° \mathfrak{X} 10'00			16217 Dec 09 03:25	0° \mathfrak{Z}	
direct	16212 Sep 13 00:54	25° \mathfrak{X} 02'16		max. Earth dist.	16218 Jan 07 20:13	22° \mathfrak{Z} 54'23	2.38234 AU
	16212 Oct 13 07:39	0° \mathfrak{H}			16218 Jan 17 05:22	0° \mathfrak{X}	
	16212 Dec 19 22:42	0° \mathfrak{Y}		morning rise	16218 Jan 28 05:23	8° \mathfrak{X} 13'21	
	16213 Feb 11 08:48	0° \mathfrak{B}			16218 Feb 27 03:09	0° \mathfrak{H}	
	16213 Apr 02 05:42	0° \mathfrak{I}			16218 Apr 11 12:24	0° \mathfrak{Y}	
	16213 May 19 17:15	0° \mathfrak{D}		desc. node	16218 Apr 14 03:50	1° \mathfrak{Y} 45'52	
evening set	16213 May 29 12:10	6° \mathfrak{D} 22'08			16218 May 28 03:19	0° \mathfrak{B}	
max. Earth dist.	16213 Jun 18 07:49	19° \mathfrak{D} 28'07	2.58099 AU		16218 Jul 19 01:34	0° \mathfrak{I}	
	16213 Jul 03 22:49	0° \mathfrak{Q}			16218 Oct 05 15:39	0° \mathfrak{D}	
conjunction	16213 Jul 15 06:22	7° \mathfrak{Q} 44'33	-0°38'04	retrograde	16218 Oct 17 13:22	0° \mathfrak{D} 48'57	
minimum elong	16213 Jul 15 07:51	7° \mathfrak{Q} 47'07	0°38'40		16218 Oct 28 23:29	30° \mathfrak{R} \mathfrak{I}	
	16213 Aug 16 00:01	0° \mathfrak{M}		opposition	16218 Nov 26 11:14	21° \mathfrak{I} 33'46	-4°50'59
morning rise	16213 Sep 04 15:16	14° \mathfrak{M} 10'29		greatest brilliancy	16218 Nov 26 23:52	21° \mathfrak{I} 21'25	-1.3m
asc. node	16213 Sep 14 04:01	21° \mathfrak{M} 10'02		min. Earth dist.	16218 Nov 29 15:37	20° \mathfrak{I} 19'14	0.66862 AU
	16213 Sep 26 01:49	0° \mathfrak{L}		direct	16219 Jan 07 02:12	11° \mathfrak{I} 31'51	
	16213 Nov 04 13:55	0° \mathfrak{M}			16219 Mar 11 20:27	0° \mathfrak{D}	
	16213 Dec 13 03:14	0° \mathfrak{J}		asc. node	16219 May 03 12:56	0° \mathfrak{Q}	
	16214 Jan 20 14:23	0° \mathfrak{Z}			16219 May 06 16:00	2° \mathfrak{Q} 00'00	
	16214 Mar 01 02:07	0° \mathfrak{X}			16219 Jun 16 19:44	0° \mathfrak{M}	
	16214 Apr 12 04:32	0° \mathfrak{H}			16219 Jul 27 08:37	0° \mathfrak{L}	
	16214 May 30 11:10	0° \mathfrak{Y}			16219 Sep 03 22:51	0° \mathfrak{M}	
desc. node	16214 Jul 10 10:43	18° \mathfrak{Y} 36'17			16219 Oct 11 20:23	0° \mathfrak{J}	
retrograde	16214 Aug 10 06:38	24° \mathfrak{Y} 07'29		evening set	16219 Nov 19 02:17	0° \mathfrak{Z}	
min. Earth dist.	16214 Sep 15 04:50	15° \mathfrak{Y} 56'49	0.63298 AU		16219 Nov 23 17:15	3° \mathfrak{Z} 34'28	
opposition	16214 Sep 19 19:10	14° \mathfrak{Y} 08'13	-2°53'19		16219 Dec 28 13:13	0° \mathfrak{X}	
greatest brilliancy	16214 Sep 19 06:18	14° \mathfrak{Y} 20'53	-1.5m	conjunction	16220 Jan 27 00:39	21° \mathfrak{X} 34'14	0°21'41
direct	16214 Oct 28 17:30	5° \mathfrak{Y} 08'27		minimum elong	16220 Jan 27 02:08	21° \mathfrak{X} 36'54	0°22'10
	16215 Jan 16 11:36	0° \mathfrak{B}			16220 Feb 07 20:05	0° \mathfrak{H}	
	16215 Mar 12 17:37	0° \mathfrak{I}		desc. node	16220 Feb 29 20:05	15° \mathfrak{H} 22'36	
	16215 Apr 30 19:45	0° \mathfrak{D}		max. Earth dist.	16220 Mar 04 13:21	17° \mathfrak{H} 56'12	2.52388 AU
	16215 Jun 15 07:31	0° \mathfrak{Q}		morning rise	16220 Mar 21 18:06	29° \mathfrak{H} 37'21	
evening set	16215 Jul 10 09:58	17° \mathfrak{Q} 25'50			16220 Mar 22 07:35	0° \mathfrak{Y}	
max. Earth dist.	16215 Jul 24 00:25	27° \mathfrak{Q} 07'56	2.45521 AU		16220 May 07 03:07	0° \mathfrak{B}	
	16215 Jul 27 23:46	0° \mathfrak{M}			16220 Jun 24 13:06	0° \mathfrak{I}	
asc. node	16215 Aug 01 20:55	3° \mathfrak{M} 32'40			16220 Aug 15 21:54	0° \mathfrak{D}	
					16220 Oct 20 22:51	0° \mathfrak{Q}	
conjunction	16215 Sep 04 10:15	28° \mathfrak{M} 29'06	0°22'56	retrograde	16220 Nov 25 19:02	6° \mathfrak{Q} 27'43	
minimum elong	16215 Sep 04 08:32	28° \mathfrak{M} 25'51	0°22'49		16220 Dec 28 12:00	30° \mathfrak{R} \mathfrak{D}	
	16215 Sep 06 10:12	0° \mathfrak{L}		opposition	16221 Jan 02 07:06	28° \mathfrak{D} 13'28	-3°33'46
	16215 Oct 15 06:24	0° \mathfrak{M}		greatest brilliancy	16221 Jan 03 06:02	27° \mathfrak{D} 51'50	-1.7m
morning rise	16215 Nov 11 06:12	21° \mathfrak{M} 16'27		min. Earth dist.	16221 Jan 09 05:46	25° \mathfrak{D} 36'38	0.58413 AU
	16215 Nov 22 06:39	0° \mathfrak{J}		direct	16221 Feb 11 17:38	18° \mathfrak{D} 30'08	
	16215 Dec 30 07:55	0° \mathfrak{Z}		asc. node	16221 Mar 23 21:25	27° \mathfrak{D} 33'51	
	16216 Feb 07 08:28	0° \mathfrak{X}			16221 Mar 29 15:08	0° \mathfrak{Q}	
	16216 Mar 19 07:50	0° \mathfrak{H}			16221 May 21 17:47	0° \mathfrak{M}	
	16216 May 02 11:45	0° \mathfrak{Y}			16221 Jul 03 10:35	0° \mathfrak{L}	
desc. node	16216 May 27 09:47	15° \mathfrak{Y} 35'03			16221 Aug 11 22:03	0° \mathfrak{M}	
	16216 Jun 21 12:30	0° \mathfrak{B}			16221 Sep 19 10:29	0° \mathfrak{J}	
retrograde	16216 Sep 12 18:00	28° \mathfrak{B} 18'53			16221 Oct 28 08:23	0° \mathfrak{Z}	
opposition	16216 Oct 23 15:27	18° \mathfrak{B} 29'28	-4°32'54		16221 Dec 07 13:44	0° \mathfrak{X}	

desc. node	16222 Jan 16 12:28	28° \approx 31'36	asc. node	16226 Nov 14 05:52	13° \approx 41'52
	16222 Jan 18 15:09	0° H		16226 Dec 06 18:00	0° M
evening set	16222 Jan 22 13:22	2° H 43'45		16227 Jan 16 15:15	0° J
	16222 Mar 03 16:26	0° Y		16227 Feb 27 02:56	0° Z
				16227 Apr 14 05:45	0° \approx
conjunction	16222 Mar 14 16:03	7° Y 17'12 -0°34'03	retrograde	16227 Jun 14 00:28	20° \approx 53'12
minimum elong	16222 Mar 14 14:45	7° Y 15'04 0°34'03	min. Earth dist.	16227 Jul 12 01:01	15° \approx 28'02 0.46354 AU
max. Earth dist.	16222 Apr 02 08:16	19° Y 31'16 2.62894 AU	opposition	16227 Jul 20 10:14	12° \approx 30'54 2°50'01
	16222 Apr 18 13:11	0° Z	greatest brilliancy	16227 Jul 19 14:17	12° \approx 48'31 -2.4m
morning rise	16222 Apr 29 23:22	7° Z 18'53	direct	16227 Aug 22 11:44	5° \approx 43'46
	16222 Jun 04 21:57	0° II	desc. node	16227 Sep 08 17:45	7° \approx 30'28
	16222 Jul 23 14:59	0° G		16227 Nov 06 06:45	0° H
	16222 Sep 12 04:39	0° Q		16227 Dec 31 09:57	0° Y
	16222 Nov 06 12:35	0° M		16228 Feb 20 08:03	0° Z
retrograde	16223 Jan 19 15:00	23° M 01'30		16228 Apr 09 07:27	0° II
asc. node	16223 Feb 09 03:43	20° M 21'03	evening set	16228 May 15 05:29	22° II 42'39
opposition	16223 Feb 21 14:11	16° M 37'59 0°46'43		16228 May 26 12:52	0° G
greatest brilliancy	16223 Feb 21 20:17	16° M 32'56 -2.5m	max. Earth dist.	16228 Jun 07 20:33	8° G 01'42 2.61844 AU
min. Earth dist.	16223 Mar 02 02:16	13° M 49'16 0.44778 AU			
direct	16223 Mar 29 15:24	8° M 48'54	conjunction	16228 Jun 29 06:20	22° G 11'48 -0°53'49
	16223 May 30 04:09	0° Z	minimum elong	16228 Jun 29 07:47	22° G 14'13 0°54'30
	16223 Jul 15 00:33	0° M		16228 Jul 10 20:44	0° Q
	16223 Aug 25 08:39	0° J	morning rise	16228 Aug 16 02:55	24° Q 59'40
	16223 Oct 05 06:16	0° Z		16228 Aug 23 05:17	0° M
	16223 Nov 16 04:38	0° \approx	asc. node	16228 Sep 30 23:30	27° M 59'52
desc. node	16223 Dec 04 08:32	12° \approx 39'40		16228 Oct 03 16:38	0° Z
	16223 Dec 29 17:26	0° H		16228 Nov 12 14:29	0° M
	16224 Feb 12 21:49	0° Y		16228 Dec 21 12:24	0° J
evening set	16224 Mar 05 22:18	14° Y 17'53		16229 Jan 29 07:32	0° Z
	16224 Mar 30 09:13	0° Z		16229 Mar 10 06:56	0° \approx
				16229 Apr 22 15:55	0° H
conjunction	16224 Apr 20 04:53	13° Z 15'46 -1°06'28		16229 Jun 16 10:31	0° Y
minimum elong	16224 Apr 20 03:51	13° Z 14'08 1°06'54	retrograde	16229 Jul 26 21:38	9° Y 22'49
max. Earth dist.	16224 Apr 24 07:57	15° Z 53'07 2.68050 AU	desc. node	16229 Jul 26 22:41	9° Y 22'49
	16224 May 16 14:28	0° II	min. Earth dist.	16229 Aug 29 19:15	1° Y 51'50 0.59491 AU
morning rise	16224 Jun 02 09:57	10° II 38'15		16229 Sep 03 14:08	30° K H
	16224 Jul 03 00:17	0° G	opposition	16229 Sep 04 20:00	29° H 30'51 -1°47'28
	16224 Aug 19 06:06	0° Q	greatest brilliancy	16229 Sep 04 09:19	29° H 41'16 -1.7m
	16224 Oct 05 05:54	0° M	direct	16229 Oct 12 12:13	20° H 57'15
	16224 Nov 21 06:21	0° Z		16229 Nov 24 15:39	0° Y
asc. node	16224 Dec 27 06:28	22° Z 30'19		16230 Jan 27 08:36	0° Z
	16225 Jan 08 16:09	0° M		16230 Mar 20 17:14	0° II
	16225 Mar 09 01:55	0° J		16230 May 08 00:04	0° G
retrograde	16225 Apr 08 17:17	5° J 48'49	evening set	16230 Jun 22 20:42	0° Q 21'39
min. Earth dist.	16225 May 07 04:18	1° J 10'19 0.36412 AU		16230 Jun 22 08:00	0° Q
opposition	16225 May 08 10:40	0° J 50'05 7°23'41	max. Earth dist.	16230 Jul 07 20:48	10° Q 41'49 2.50912 AU
greatest brilliancy	16225 May 08 03:12	0° J 55'03 -3.0m		16230 Aug 04 03:09	0° M
	16225 May 11 14:20	30° K M			
direct	16225 Jun 06 13:32	26° M 01'01	conjunction	16230 Aug 13 03:41	6° M 32'06 -0°03'44
	16225 Jul 01 14:08	0° J	minimum elong	16230 Aug 13 03:55	6° M 32'30 0°04'05
	16225 Sep 01 13:34	0° Z	behind sun begin	16230 Aug 12 05:21	5° M 51'28
	16225 Oct 20 06:04	0° \approx	behind sun end	16230 Aug 14 02:28	7° M 13'35
desc. node	16225 Oct 21 11:39	0° \approx 46'40	asc. node	16230 Aug 18 14:12	10° M 30'28
	16225 Dec 06 14:33	0° H		16230 Sep 13 19:04	0° Z
	16226 Jan 23 03:26	0° Y	morning rise	16230 Oct 12 05:22	21° Z 44'03
	16226 Mar 11 22:50	0° Z		16230 Oct 22 20:52	0° M
evening set	16226 Apr 11 05:57	19° Z 01'53		16230 Nov 30 01:23	0° J
	16226 Apr 28 15:08	0° II		16231 Jan 07 05:02	0° Z
max. Earth dist.	16226 May 16 11:47	11° II 19'48 2.67669 AU		16231 Feb 15 07:21	0° \approx
				16231 Mar 28 11:35	0° H
conjunction	16226 May 24 18:27	16° II 36'28 -1°13'37		16231 May 12 10:35	0° Y
minimum elong	16226 May 24 18:44	16° II 36'55 1°14'18	desc. node	16231 Jun 14 00:54	19° Y 11'25
	16226 Jun 14 15:20	0° G		16231 Jul 05 07:54	0° Z
morning rise	16226 Jul 07 07:00	14° G 42'15	retrograde	16231 Aug 31 13:51	15° Z 42'22
	16226 Jul 30 12:43	0° Q	min. Earth dist.	16231 Oct 09 05:37	6° Z 39'11 0.67265 AU
	16226 Sep 13 00:56	0° M	opposition	16231 Oct 11 11:56	5° Z 45'31 -4°05'07
	16226 Oct 26 01:32	0° Z	greatest brilliancy	16231 Oct 11 02:48	5° Z 54'32 -1.3m



































































































































	16231 Oct 27 10:05	30° Υ		desc. node	16237 Feb 02 05:19	5° X 08'58	
direct	16231 Nov 20 21:05	26° Υ 15'36					
	16231 Dec 17 12:13	0° B		conjunction	16237 Feb 25 21:44	21° X 25'55	-0°14'51
	16232 Feb 25 13:21	0° II		minimum elong	16237 Feb 25 21:01	21° X 24'42	0°14'40
	16232 Apr 17 02:03	0° C		behind sun begin	16237 Feb 25 12:38	21° X 10'29	
	16232 Jun 02 05:42	0° Ω		behind sun end	16237 Feb 26 05:24	21° X 38'55	
asc. node	16232 Jul 05 07:42	23° Ω 03'07			16237 Mar 10 14:43	0° Υ	
	16232 Jul 14 23:13	0° P		max. Earth dist.	16237 Mar 23 06:01	8° Υ 24'45	2.59403 AU
evening set	16232 Aug 11 08:49	20° P 15'13		morning rise	16237 Apr 15 15:39	23° Υ 43'44	
	16232 Aug 24 05:25	0° A			16237 Apr 25 08:58	0° B	
max. Earth dist.	16232 Sep 09 12:01	12° A 31'20	2.37290 AU		16237 Jun 11 23:49	0° II	
	16232 Oct 01 20:32	0° M			16237 Jul 31 15:45	0° C	
					16237 Sep 23 00:08	0° Ω	
conjunction	16232 Oct 16 18:44	11° M 47'37	1°00'51		16237 Dec 03 09:35	0° P	
minimum elong	16232 Oct 16 15:18	11° M 40'49	1°01'14	retrograde	16237 Dec 26 14:11	2° P 57'56	
	16232 Nov 08 17:14	0° X			16238 Jan 17 07:23	30° R Ω	
	16232 Dec 16 17:05	0° Z		opposition	16238 Jan 30 15:19	25° Ω 43'34	-1°26'16
morning rise	16232 Dec 30 21:29	11° Z 01'54		greatest brilliancy	16238 Jan 31 04:15	25° Ω 32'04	-2.1m
	16233 Jan 24 17:21	0° \approx		min. Earth dist.	16238 Feb 08 04:28	22° Ω 41'35	0.50412 AU
	16233 Mar 06 13:49	0° X		asc. node	16238 Feb 25 16:18	17° Ω 55'43	
	16233 Apr 19 01:59	0° Υ		direct	16238 Mar 09 23:17	16° Ω 51'50	
desc. node	16233 Apr 30 22:15	7° Υ 46'54			16238 Apr 26 12:49	0° P	
	16233 Jun 05 10:58	0° B			16238 Jun 15 10:53	0° A	
	16233 Jul 30 20:17	0° II			16238 Jul 27 00:30	0° M	
retrograde	16233 Oct 03 16:22	18° II 16'57			16238 Sep 04 16:07	0° X	
opposition	16233 Nov 13 03:20	8° II 45'52	-4°53'29		16238 Oct 14 11:31	0° Z	
greatest brilliancy	16233 Nov 13 09:20	8° II 39'59	-1.2m		16238 Nov 24 12:45	0° \approx	
min. Earth dist.	16233 Nov 14 18:53	8° II 07'03	0.68321 AU	desc. node	16238 Dec 21 00:16	18° \approx 42'38	
	16233 Dec 10 21:31	30° R B			16239 Jan 06 08:13	0° X	
direct	16233 Dec 24 17:15	28° B 47'59		evening set	16239 Feb 19 07:38	29° X 33'59	
	16234 Jan 08 03:36	0° II			16239 Feb 19 23:24	0° Υ	
	16234 Mar 24 02:15	0° C					
	16234 May 12 09:42	0° Ω		conjunction	16239 Apr 07 05:54	0° B 04'23	-0°56'55
asc. node	16234 May 23 06:47	7° Ω 13'50		minimum elong	16239 Apr 07 04:34	0° B 02'14	0°57'11
	16234 Jun 24 21:55	0° P			16239 Apr 07 03:10	0° B	
	16234 Aug 04 05:38	0° A		max. Earth dist.	16239 Apr 16 17:57	6° B 09'20	2.66690 AU
	16234 Sep 11 18:07	0° M		morning rise	16239 May 21 05:04	28° B 02'03	
	16234 Oct 19 13:45	0° X			16239 May 24 07:48	0° II	
evening set	16234 Oct 24 05:56	3° X 42'28			16239 Jul 11 02:25	0° C	
	16234 Nov 26 16:16	0° Z			16239 Aug 28 06:42	0° Ω	
					16239 Oct 16 04:06	0° P	
conjunction	16235 Jan 02 23:03	28° Z 31'14	0°45'43		16239 Dec 06 07:55	0° A	
minimum elong	16235 Jan 03 02:15	28° Z 37'14	0°46'21	asc. node	16240 Jan 13 21:57	19° A 49'09	
	16235 Jan 04 22:27	0° \approx			16240 Feb 09 23:37	0° M	
	16235 Feb 15 00:24	0° X		retrograde	16240 Mar 06 09:54	3° M 48'34	
max. Earth dist.	16235 Feb 18 09:29	2° X 23'57	2.47040 AU		16240 Mar 31 17:43	30° R A	
morning rise	16235 Mar 04 09:48	12° X 14'12		opposition	16240 Apr 05 04:13	28° A 47'42	5°30'47
desc. node	16235 Mar 18 13:37	21° X 59'51		greatest brilliancy	16240 Apr 05 22:27	28° A 35'06	-2.9m
	16235 Mar 30 08:59	0° Υ		min. Earth dist.	16240 Apr 09 15:18	27° A 33'55	0.37630 AU
	16235 May 15 08:14	0° B		direct	16240 May 06 03:25	23° A 14'51	
	16235 Jul 03 14:40	0° II			16240 Jun 07 13:47	0° M	
	16235 Aug 28 06:57	0° C			16240 Aug 02 01:34	0° X	
retrograde	16235 Nov 10 01:31	22° C 03'38			16240 Sep 16 11:57	0° Z	
opposition	16235 Dec 18 17:03	13° C 21'20	-4°18'10		16240 Oct 31 01:05	0° \approx	
greatest brilliancy	16235 Dec 19 14:02	13° C 01'11	-1.5m	desc. node	16240 Nov 06 23:49	4° \approx 38'36	
min. Earth dist.	16235 Dec 24 05:50	11° C 13'57	0.62498 AU		16240 Dec 15 08:21	0° X	
direct	16236 Jan 28 21:09	3° C 24'10			16241 Jan 30 17:05	0° Υ	
asc. node	16236 Apr 09 09:48	26° C 59'32			16241 Mar 18 21:03	0° B	
	16236 Apr 14 19:39	0° Ω		evening set	16241 Mar 28 13:38	6° B 07'50	
	16236 Jun 01 04:24	0° P			16241 May 05 07:16	0° II	
	16236 Jul 12 15:04	0° A		max. Earth dist.	16241 May 07 22:31	1° II 40'13	2.68484 AU
	16236 Aug 20 14:24	0° M					
	16236 Sep 27 18:40	0° X		conjunction	16241 May 11 09:02	3° II 51'02	-1°13'55
	16236 Nov 05 08:12	0° Z		minimum elong	16241 May 11 08:46	3° II 50'37	1°14'31
	16236 Dec 15 04:20	0° \approx			16241 Jun 21 09:31	0° C	
evening set	16237 Jan 01 17:10	12° \approx 47'55		morning rise	16241 Jun 23 08:54	1° C 16'01	
	16237 Jan 25 20:40	0° X			16241 Aug 06 16:58	0° Ω	

	16241 Sep 20 23:10	0°♍			16247 Jan 07 17:22	0°♎		
	16241 Nov 04 01:40	0°♊			16247 Mar 06 23:07	0°♈		
asc. node	16241 Nov 30 22:12	18°♊37'27			16247 Apr 25 19:03	0°♎		
	16241 Dec 17 04:37	0°♌			16247 Jun 10 12:22	0°♏		
	16242 Jan 29 03:21	0°♌		evening set	16247 Jul 21 10:28	28°♏42'02		
	16242 Mar 15 20:59	0°♎		asc. node	16247 Jul 23 01:06	29°♏51'51		
retrograde	16242 May 23 00:36	25°♎19'28			16247 Jul 23 05:37	0°♍		
min. Earth dist.	16242 Jun 18 03:51	20°♎43'09	0.41023 AU	max. Earth dist.	16247 Aug 04 20:39	9°♍13'05	2.42460 AU	
greatest brilliancy	16242 Jun 24 10:36	18°♎44'08	-2.7m		16247 Sep 01 15:04	0°♊		
opposition	16242 Jun 25 17:42	18°♎19'21	5°18'12					
direct	16242 Jul 26 16:42	12°♎31'23		conjunction	16247 Sep 18 18:38	13°♊08'46	0°38'25	
	16242 Sep 24 21:21	0°♋		minimum elong	16247 Sep 18 15:38	13°♊03'00	0°38'28	
desc. node	16242 Sep 25 05:11	0°♋09'18			16247 Oct 10 09:44	0°♌		
	16242 Nov 19 18:01	0°♈			16247 Nov 17 08:45	0°♌		
	16243 Jan 09 12:18	0°♍		morning rise	16247 Nov 29 13:19	9°♌39'40		
	16243 Feb 27 20:38	0°♎			16247 Dec 25 09:00	0°♎		
	16243 Apr 17 04:50	0°♈			16248 Feb 02 08:23	0°♋		
evening set	16243 May 02 12:08	9°♈39'17			16248 Mar 14 05:04	0°♈		
max. Earth dist.	16243 May 30 08:39	27°♈28'02	2.64757 AU		16248 Apr 27 00:01	0°♍		
	16243 Jun 03 06:41	0°♎		desc. node	16248 May 17 14:12	13°♍11'10		
					16248 Jun 14 16:20	0°♎		
conjunction	16243 Jun 15 12:45	7°♎58'14	-1°04'55		16248 Aug 17 17:35	0°♈		
minimum elong	16243 Jun 15 13:51	8°♎00'02	1°05'37	retrograde	16248 Sep 20 07:01	5°♈54'42		
	16243 Jul 18 18:34	0°♏			16248 Oct 21 02:34	30°♈		
morning rise	16243 Jul 31 01:42	8°♏18'42		opposition	16248 Oct 31 02:11	26°♈10'56	-4°44'05	
	16243 Aug 31 12:10	0°♍		greatest brilliancy	16248 Oct 31 01:38	26°♈11'29	-1.2m	
	16243 Oct 12 11:30	0°♊		min. Earth dist.	16248 Oct 31 05:09	26°♈08'01	0.68731 AU	
asc. node	16243 Oct 18 16:59	4°♊33'16		direct	16248 Dec 11 09:00	16°♈21'03		
	16243 Nov 21 12:10	0°♌			16249 Feb 04 02:06	0°♈		
	16243 Dec 31 08:51	0°♌			16249 Apr 02 23:14	0°♎		
	16244 Feb 08 18:03	0°♎			16249 May 20 13:25	0°♏		
	16244 Mar 20 17:10	0°♋		asc. node	16249 Jun 08 21:21	13°♏09'40		
	16244 May 06 02:49	0°♈			16249 Jul 02 15:15	0°♍		
retrograde	16244 Jul 11 06:40	22°♈48'02			16249 Aug 11 21:10	0°♊		
min. Earth dist.	16244 Aug 11 22:30	16°♈02'50	0.54782 AU		16249 Sep 19 09:52	0°♌		
desc. node	16244 Aug 12 12:33	15°♈49'40		evening set	16249 Sep 22 20:05	2°♌42'19		
opposition	16244 Aug 19 06:01	13°♈15'40	-0°20'03		16249 Oct 27 05:17	0°♌		
greatest brilliancy	16244 Aug 19 03:33	13°♈18'01	-1.9m		16249 Dec 04 05:59	0°♎		
direct	16244 Sep 24 08:50	5°♈16'09						
	16244 Dec 11 20:56	0°♍		conjunction	16249 Dec 05 10:57	0°♎56'32	1°04'08	
	16245 Feb 05 15:24	0°♎		minimum elong	16249 Dec 05 13:41	1°♎01'51	1°04'50	
	16245 Mar 28 06:20	0°♈			16250 Jan 12 08:43	0°♋		
	16245 May 15 00:21	0°♎		max. Earth dist.	16250 Jan 27 23:15	11°♋37'15	2.41307 AU	
evening set	16245 Jun 07 00:10	15°♎02'06		morning rise	16250 Feb 11 00:41	21°♋54'07		
max. Earth dist.	16245 Jun 24 20:42	26°♎59'29	2.55737 AU		16250 Feb 22 06:59	0°♈		
	16245 Jun 29 07:06	0°♏		desc. node	16250 Apr 04 08:23	28°♈29'21		
					16250 Apr 06 14:17	0°♍		
conjunction	16245 Jul 25 01:31	17°♏48'06	-0°26'50		16250 May 22 20:47	0°♎		
minimum elong	16245 Jul 25 02:46	17°♏50'18	0°27'21		16250 Jul 12 11:44	0°♈		
	16245 Aug 11 06:35	0°♍			16250 Sep 13 11:54	0°♎		
asc. node	16245 Sep 04 09:10	17°♍30'11		retrograde	16250 Oct 25 18:06	8°♎38'53		
morning rise	16245 Sep 17 00:14	26°♍51'31			16250 Dec 03 04:23	30°♎		
	16245 Sep 21 05:05	0°♊		opposition	16250 Dec 04 07:06	29°♈34'05	-4°43'25	
	16245 Oct 30 13:24	0°♌		greatest brilliancy	16250 Dec 04 23:10	29°♈18'29	-1.4m	
	16245 Dec 07 23:12	0°♌		min. Earth dist.	16250 Dec 08 08:02	27°♈59'59	0.65603 AU	
	16246 Jan 15 06:46	0°♎		direct	16251 Jan 14 20:32	19°♈31'54		
	16246 Feb 23 13:24	0°♋			16251 Mar 01 05:44	0°♎		
	16246 Apr 06 04:12	0°♈		asc. node	16251 Apr 27 00:15	29°♎52'20		
	16246 May 22 16:34	0°♍			16251 Apr 27 05:13	0°♏		
desc. node	16246 Jun 30 15:45	20°♍19'58			16251 Jun 11 07:48	0°♍		
	16246 Jul 28 17:03	0°♎			16251 Jul 22 03:01	0°♊		
retrograde	16246 Aug 18 03:58	2°♎31'11			16251 Aug 29 19:40	0°♌		
	16246 Sep 06 13:28	30°♎			16251 Oct 06 18:51	0°♌		
min. Earth dist.	16246 Sep 24 03:13	24°♍00'23	0.64995 AU		16251 Nov 14 02:33	0°♎		
opposition	16246 Sep 27 21:30	22°♍31'18	-3°24'16	evening set	16251 Dec 09 08:58	19°♎18'25		
greatest brilliancy	16246 Sep 27 09:09	22°♍43'29	-1.4m		16251 Dec 23 15:40	0°♋		
direct	16246 Nov 06 09:42	13°♍19'24			16252 Feb 03 00:52	0°♈		

conjunction	16252 Feb 08 00:52	3° H 31'31	0°07'42			16256 Nov 14 01:40	0° L	
minimum elong	16252 Feb 08 01:21	3° H 32'22	0°08'04	asc. node		16256 Dec 17 13:33	22° L 02'24	
behind sun begin	16252 Feb 07 04:57	2° H 56'31				16256 Dec 29 18:25	0° M	
behind sun end	16252 Feb 08 21:45	4° H 08'11				16257 Feb 16 00:23	0° J	
desc. node	16252 Feb 19 22:45	11° H 50'21		retrograde		16257 Apr 26 06:23	24° J 50'44	
max. Earth dist.	16252 Mar 11 20:19	26° H 08'47	2.55119 AU	min. Earth dist.		16257 May 22 16:10	20° J 32'44	0.37263 AU
	16252 Mar 17 13:28	0° Y		greatest brilliancy		16257 May 26 01:12	19° J 36'44	-2.9m
morning rise	16252 Mar 31 05:41	9° Y 07'21		opposition		16257 May 27 00:17	19° J 20'44	7°13'50
	16252 May 02 07:11	0° B		direct		16257 Jun 25 03:37	14° J 23'40	
	16252 Jun 19 07:47	0° II				16257 Aug 18 20:53	0° Z	
	16252 Aug 09 10:07	0° S		desc. node		16257 Oct 11 18:09	29° Z 43'45	
	16252 Oct 07 04:32	0° O				16257 Oct 12 05:04	0° \approx	
retrograde	16252 Dec 06 03:05	15° O 47'46				16257 Nov 30 09:53	0° H	
opposition	16253 Jan 11 21:10	7° O 52'12	-2°56'25			16258 Jan 17 19:53	0° Y	
greatest brilliancy	16253 Jan 12 18:47	7° O 32'08	-1.8m			16258 Mar 07 02:18	0° B	
min. Earth dist.	16253 Jan 19 12:42	5° O 02'13	0.55782 AU	evening set		16258 Apr 18 23:41	26° B 51'18	
	16253 Feb 05 07:36	30° R S				16258 Apr 23 23:24	0° II	
direct	16253 Feb 20 18:05	28° S 21'55		max. Earth dist.		16258 May 21 13:22	17° II 30'45	2.66855 AU
	16253 Mar 08 15:12	0° O						
asc. node	16253 Mar 14 05:37	1° O 17'03		conjunction		16258 Jun 01 13:11	24° II 33'29	-1°11'39
	16253 May 13 23:30	0° M		minimum elong		16258 Jun 01 13:48	24° II 34'27	1°12'20
	16253 Jun 27 03:02	0° L				16258 Jun 09 23:51	0° S	
	16253 Aug 06 02:45	0° M		morning rise		16258 Jul 15 14:40	23° S 16'23	
	16253 Sep 13 22:06	0° J				16258 Jul 25 17:51	0° O	
	16253 Oct 23 01:26	0° Z				16258 Sep 07 23:10	0° M	
	16253 Dec 02 11:44	0° \approx				16258 Oct 20 14:13	0° L	
desc. node	16254 Jan 06 15:26	25° \approx 03'20		asc. node		16258 Nov 04 10:58	10° L 43'18	
	16254 Jan 13 17:51	0° H				16258 Nov 30 18:30	0° M	
evening set	16254 Feb 02 04:58	13° H 22'14				16259 Jan 10 00:27	0° J	
	16254 Feb 26 22:34	0° Y				16259 Feb 19 10:43	0° Z	
						16259 Apr 03 14:30	0° \approx	
conjunction	16254 Mar 23 13:29	16° Y 12'31	-0°43'37			16259 Jun 01 13:23	0° H	
minimum elong	16254 Mar 23 12:04	16° Y 10'13	0°43'43	retrograde		16259 Jun 24 22:02	3° H 42'35	
max. Earth dist.	16254 Apr 07 21:01	26° Y 08'30	2.64485 AU			16259 Jul 17 16:06	30° R \approx	
	16254 Apr 13 20:46	0° B		min. Earth dist.		16259 Jul 24 04:48	27° \approx 48'46	0.49427 AU
morning rise	16254 May 07 20:18	15° B 18'52		opposition		16259 Aug 01 10:36	24° \approx 48'16	1°33'02
	16254 May 31 02:52	0° II		greatest brilliancy		16259 Jul 31 23:33	24° \approx 58'21	-2.2m
	16254 Jul 18 09:56	0° S		desc. node		16259 Aug 29 23:55	17° \approx 45'05	
	16254 Sep 05 22:00	0° O		direct		16259 Sep 04 16:25	17° \approx 32'27	
	16254 Oct 28 00:13	0° M				16259 Oct 25 11:33	0° H	
	16254 Dec 30 22:07	0° L				16259 Dec 24 18:05	0° Y	
asc. node	16255 Jan 30 10:34	6° L 29'31				16260 Feb 14 23:49	0° B	
retrograde	16255 Feb 04 01:16	6° L 37'35				16260 Apr 04 11:27	0° II	
opposition	16255 Mar 07 20:35	0° L 45'19	2°23'58			16260 May 21 20:59	0° S	
greatest brilliancy	16255 Mar 08 12:29	0° L 32'50	-2.7m	evening set		16260 May 23 07:02	0° S 55'06	
	16255 Mar 10 06:06	30° R M		max. Earth dist.		16260 Jun 13 16:47	14° S 56'10	2.59858 AU
min. Earth dist.	16255 Mar 15 14:19	28° M 20'17	0.41821 AU			16260 Jul 06 04:35	0° O	
direct	16255 Apr 11 04:37	23° M 42'39						
	16255 May 12 02:03	0° L		conjunction		16260 Jul 08 04:34	1° O 21'24	-0°45'18
	16255 Jul 05 18:10	0° M		minimum elong		16260 Jul 08 06:04	1° O 23'58	0°45'55
	16255 Aug 18 00:49	0° J				16260 Aug 18 10:00	0° M	
	16255 Sep 28 22:16	0° Z		morning rise		16260 Aug 26 20:06	6° M 00'38	
	16255 Nov 10 12:19	0° \approx		asc. node		16260 Sep 21 02:53	24° M 23'27	
desc. node	16255 Nov 24 14:32	9° \approx 43'12				16260 Sep 28 16:56	0° L	
	16255 Dec 24 12:37	0° H				16260 Nov 07 09:51	0° M	
	16256 Feb 08 00:46	0° Y				16260 Dec 16 03:10	0° J	
evening set	16256 Mar 14 08:48	22° Y 45'48				16261 Jan 23 17:18	0° Z	
	16256 Mar 25 16:49	0° B				16261 Mar 04 08:17	0° \approx	
						16261 Apr 15 19:24	0° H	
conjunction	16256 Apr 27 23:23	21° B 08'20	-1°10'23			16261 Jun 04 17:39	0° Y	
minimum elong	16256 Apr 27 22:37	21° B 07'07	1°10'52	desc. node		16261 Jul 17 05:37	16° Y 23'39	
max. Earth dist.	16256 Apr 29 08:24	22° B 00'38	2.68437 AU	retrograde		16261 Aug 04 05:24	18° Y 26'01	
	16256 May 11 23:03	0° II		min. Earth dist.		16261 Sep 08 06:35	10° Y 32'13	0.61712 AU
morning rise	16256 Jun 09 23:28	18° II 23'47		opposition		16261 Sep 13 12:09	8° Y 29'05	-2°28'22
	16256 Jun 28 05:32	0° S		greatest brilliancy		16261 Sep 12 23:31	8° Y 41'28	-1.6m
	16256 Aug 14 02:25	0° O				16261 Oct 14 15:21	30° R H	
	16256 Sep 29 08:46	0° M		direct		16261 Oct 21 21:44	29° H 40'08	

	16261 Oct 29 08:29	0°♄		conjunction	16267 Jan 17 00:54	12°♊31'45	0°32'12
	16262 Jan 20 10:51	0°♄		minimum elong	16267 Jan 17 03:12	12°♊35'57	0°32'44
	16262 Mar 15 09:11	0°♄			16267 Feb 10 05:48	0°♄	
	16262 May 03 03:49	0°♄		max. Earth dist.	16267 Feb 27 10:15	12°♄05'18	2.50057 AU
	16262 Jun 17 15:14	0°♄		desc. node	16267 Mar 08 16:55	18°♄30'22	
evening set	16262 Jul 02 13:15	10°♄15'55		morning rise	16267 Mar 15 02:48	22°♄53'50	
max. Earth dist.	16262 Jul 16 09:03	19°♄57'59	2.47972 AU		16267 Mar 25 14:14	0°♄	
	16262 Jul 30 09:55	0°♄			16267 May 10 09:30	0°♄	
asc. node	16262 Aug 08 19:22	6°♄48'56			16267 Jun 28 01:23	0°♄	
					16267 Aug 20 11:20	0°♄	
conjunction	16262 Aug 25 06:32	18°♄57'21	0°11'19		16267 Nov 09 00:57	0°♄	
minimum elong	16262 Aug 25 05:45	18°♄55'54	0°11'06	retrograde	16267 Nov 19 08:01	0°♄36'51	
behind sun begin	16262 Aug 24 11:36	18°♄22'10			16267 Nov 29 07:00	30°♄	
behind sun end	16262 Aug 25 23:53	19°♄29'39		opposition	16267 Dec 27 09:32	22°♄09'17	-3°54'53
	16262 Sep 08 23:44	0°♄		greatest brilliancy	16267 Dec 28 08:02	21°♄47'52	-1.6m
	16262 Oct 17 22:51	0°♄		min. Earth dist.	16268 Jan 02 18:01	19°♄44'25	0.60358 AU
morning rise	16262 Oct 28 13:58	8°♄19'44		direct	16268 Feb 06 05:34	12°♄18'14	
	16262 Nov 25 01:06	0°♄		asc. node	16268 Mar 30 17:48	27°♄04'30	
greatest brilliancy	16262 Dec 02 00:39	5°♄31'14	1.2m		16268 Apr 05 16:34	0°♄	
	16263 Jan 02 03:00	0°♄			16268 May 25 18:22	0°♄	
	16263 Feb 10 03:10	0°♄			16268 Jul 06 21:39	0°♄	
	16263 Mar 23 02:49	0°♄			16268 Aug 15 03:34	0°♄	
	16263 May 06 11:12	0°♄			16268 Sep 22 11:54	0°♄	
desc. node	16263 Jun 04 05:56	17°♄39'17			16268 Oct 31 05:14	0°♄	
	16263 Jun 26 13:52	0°♄			16268 Dec 10 05:08	0°♄	
retrograde	16263 Sep 08 02:50	23°♄27'33		evening set	16269 Jan 13 21:00	24°♄57'32	
min. Earth dist.	16263 Oct 17 15:42	14°♄07'44	0.68091 AU		16269 Jan 21 01:08	0°♄	
opposition	16263 Oct 19 01:20	13°♄34'31	-4°23'07	desc. node	16269 Jan 23 09:19	1°♄38'12	
greatest brilliancy	16263 Oct 18 18:55	13°♄40'51	-1.3m		16269 Mar 05 21:43	0°♄	
direct	16263 Nov 28 19:35	3°♄56'26					
	16264 Feb 18 11:34	0°♄		conjunction	16269 Mar 07 15:31	1°♄09'51	-0°26'27
	16264 Apr 11 16:05	0°♄		minimum elong	16269 Mar 07 14:24	1°♄07'58	0°26'23
	16264 May 28 06:58	0°♄		max. Earth dist.	16269 Mar 29 04:02	15°♄23'40	2.61437 AU
asc. node	16264 Jun 25 14:11	19°♄34'03			16269 Apr 20 16:05	0°♄	
	16264 Jul 10 03:38	0°♄		morning rise	16269 Apr 23 22:26	2°♄05'52	
	16264 Aug 19 10:07	0°♄			16269 Jun 07 02:05	0°♄	
evening set	16264 Aug 25 08:33	4°♄32'50			16269 Jul 26 03:10	0°♄	
	16264 Sep 27 00:21	0°♄			16269 Sep 15 16:08	0°♄	
					16269 Nov 13 17:46	0°♄	
conjunction	16264 Nov 03 13:52	29°♄47'17	1°07'32	retrograde	16270 Jan 08 14:52	14°♄21'51	
minimum elong	16264 Nov 03 12:18	29°♄44'11	1°08'06	opposition	16270 Feb 11 12:53	7°♄34'18	-0°15'56
	16264 Nov 03 20:16	0°♄		greatest brilliancy	16270 Sep 08 10:57	7°♄31'41	0.2m
max. Earth dist.	16264 Dec 05 00:01	24°♄39'10	2.36307 AU	asc. node	16270 Feb 16 00:12	6°♄01'31	
	16264 Dec 11 19:43	0°♄		min. Earth dist.	16270 Feb 20 04:47	4°♄35'53	0.47301 AU
morning rise	16265 Jan 16 11:15	27°♄27'59			16270 Mar 10 07:42	30°♄	
	16265 Jan 19 19:44	0°♄		direct	16270 Mar 20 17:05	29°♄13'26	
	16265 Mar 01 15:24	0°♄			16270 Mar 31 04:27	0°♄	
	16265 Apr 13 23:45	0°♄			16270 Jun 06 12:15	0°♄	
desc. node	16265 Apr 21 00:37	4°♄40'37			16270 Jul 19 23:00	0°♄	
	16265 May 30 19:09	0°♄			16270 Aug 29 09:22	0°♄	
	16265 Jul 22 17:49	0°♄			16270 Oct 08 17:02	0°♄	
retrograde	16265 Oct 11 12:28	25°♄55'16			16270 Nov 19 03:50	0°♄	
opposition	16265 Nov 20 17:16	16°♄32'37	-4°53'34	desc. node	16270 Dec 11 04:37	15°♄28'39	
greatest brilliancy	16265 Nov 21 03:03	16°♄23'03	-1.3m		16271 Jan 01 07:10	0°♄	
min. Earth dist.	16265 Nov 23 05:42	15°♄33'32	0.67650 AU		16271 Feb 15 04:12	0°♄	
direct	16266 Jan 01 08:41	6°♄31'55		evening set	16271 Feb 28 08:38	8°♄37'24	
	16266 Mar 16 13:49	0°♄			16271 Apr 02 11:17	0°♄	
	16266 May 06 17:07	0°♄					
asc. node	16266 May 13 13:27	4°♄27'24		conjunction	16271 Apr 15 06:47	8°♄11'20	-1°03'01
	16266 Jun 19 16:54	0°♄		minimum elong	16271 Apr 15 05:37	8°♄09'28	1°03'22
	16266 Jul 30 04:36	0°♄		max. Earth dist.	16271 Apr 21 18:46	12°♄19'42	2.67545 AU
	16266 Sep 06 18:29	0°♄			16271 May 19 15:33	0°♄	
greatest brilliancy	16266 Sep 18 13:03	9°♄18'24	1.1m	morning rise	16271 May 28 18:29	5°♄45'50	
	16266 Oct 14 15:08	0°♄			16271 Jul 06 04:47	0°♄	
evening set	16266 Nov 10 16:58	21°♄21'16			16271 Aug 22 19:44	0°♄	
	16266 Nov 21 18:57	0°♄			16271 Oct 09 13:04	0°♄	
	16266 Dec 31 02:34	0°♄			16271 Nov 26 23:53	0°♄	

asc. node	16272 Jan 04 03:34	22°♌25'44			16277 Jan 30 13:37	0°♏	
	16272 Jan 18 02:14	0°♍			16277 Mar 23 03:52	0°♐	
retrograde	16272 Mar 25 04:41	21°♍51'34			16277 May 10 06:02	0°♑	
opposition	16272 Apr 23 14:14	17°♍00'55	6°53'07	evening set	16277 Jun 15 20:10	24°♑03'51	
greatest brilliancy	16272 Apr 23 20:52	16°♍56'30	-3.0m		16277 Jun 24 14:46	0°♒	
min. Earth dist.	16272 Apr 25 00:41	16°♍37'59	0.36524 AU	max. Earth dist.	16277 Jul 01 22:28	5°♒00'15	2.53153 AU
direct	16272 May 23 06:37	12°♍01'20					
	16272 Jul 19 12:33	0°♎		conjunction	16277 Aug 04 12:27	28°♒33'02	-0°14'05
	16272 Sep 07 23:59	0°♏		minimum elong	16277 Aug 04 13:14	28°♒34'26	0°14'30
	16272 Oct 24 09:45	0°♐		behind sun begin	16277 Aug 04 03:18	28°♒16'41	
desc. node	16272 Oct 28 06:45	2°♐31'21		behind sun end	16277 Aug 04 23:09	28°♒52'12	
	16272 Dec 09 16:31	0°♑			16277 Aug 06 12:59	0°♒	
	16273 Jan 25 15:02	0°♑		asc. node	16277 Aug 25 13:26	13°♒48'03	
	16273 Mar 14 02:50	0°♒			16277 Sep 16 08:54	0°♓	
evening set	16273 Apr 05 09:54	14°♒02'49		morning rise	16277 Sep 30 14:33	10°♓46'19	
	16273 Apr 30 16:12	0°♓			16277 Oct 25 14:14	0°♍	
max. Earth dist.	16273 May 12 21:17	7°♓44'26	2.68139 AU		16277 Dec 02 21:13	0°♎	
					16278 Jan 10 02:12	0°♏	
conjunction	16273 May 18 23:57	11°♓37'31	-1°14'17		16278 Feb 18 05:04	0°♐	
minimum elong	16273 May 19 00:01	11°♓37'37	1°14'55		16278 Mar 31 11:17	0°♑	
	16273 Jun 16 17:32	0°♑			16278 May 15 20:18	0°♒	
morning rise	16273 Jul 01 05:26	9°♑21'21		desc. node	16278 Jun 20 20:34	20°♒25'29	
	16273 Aug 01 19:48	0°♒			16278 Jul 11 12:30	0°♓	
	16273 Sep 15 16:04	0°♒		retrograde	16278 Aug 25 21:34	10°♓38'57	
	16273 Oct 29 03:55	0°♓		min. Earth dist.	16278 Oct 02 19:58	1°♓49'30	0.66378 AU
asc. node	16273 Nov 21 03:47	16°♓13'55		opposition	16278 Oct 05 18:06	0°♓40'12	-3°50'14
	16273 Dec 10 10:03	0°♍		greatest brilliancy	16278 Oct 05 07:12	0°♓50'59	-1.3m
	16274 Jan 21 01:05	0°♎			16278 Oct 07 10:52	30°♒	
	16274 Mar 04 18:23	0°♏		direct	16278 Nov 14 18:11	21°♒17'42	
	16274 Apr 24 12:34	0°♐			16278 Dec 27 07:51	0°♑	
retrograde	16274 Jun 04 21:26	10°♐51'18			16279 Feb 28 19:55	0°♒	
min. Earth dist.	16274 Jul 01 23:34	5°♐49'33	0.43890 AU		16279 Apr 20 15:35	0°♓	
greatest brilliancy	16274 Jul 09 03:37	3°♐24'16	-2.5m		16279 Jun 05 16:17	0°♓	
opposition	16274 Jul 10 05:43	3°♐02'07	3°53'06	asc. node	16279 Jul 13 06:13	26°♓15'08	
	16274 Jul 19 21:12	30°♒			16279 Jul 18 10:56	0°♒	
direct	16274 Aug 11 08:04	26°♒40'36		evening set	16279 Aug 02 08:40	10°♒53'58	
	16274 Sep 04 04:00	0°♓		max. Earth dist.	16279 Aug 20 23:12	24°♒48'13	2.39441 AU
desc. node	16274 Sep 15 12:23	3°♓27'41			16279 Aug 27 19:40	0°♓	
	16274 Nov 11 16:22	0°♑					
	16275 Jan 03 13:59	0°♑		conjunction	16279 Oct 04 12:40	29°♓12'22	0°52'25
	16275 Feb 22 18:21	0°♒		minimum elong	16279 Oct 04 08:56	29°♓05'02	0°52'39
	16275 Apr 12 11:07	0°♓			16279 Oct 05 12:55	0°♍	
evening set	16275 May 10 06:39	17°♓33'23			16279 Nov 12 10:43	0°♎	
	16275 May 29 15:37	0°♑		morning rise	16279 Dec 18 00:07	28°♎05'50	
max. Earth dist.	16275 Jun 04 18:24	3°♑58'06	2.63252 AU		16279 Dec 20 10:24	0°♏	
					16280 Jan 28 09:19	0°♐	
conjunction	16275 Jun 23 18:44	16°♑26'18	-0°59'05		16280 Mar 09 04:15	0°♑	
minimum elong	16275 Jun 23 20:04	16°♑28'30	0°59'45		16280 Apr 21 16:58	0°♒	
	16275 Jul 14 02:18	0°♒		desc. node	16280 May 07 18:55	10°♒29'03	
morning rise	16275 Aug 09 11:47	18°♒01'16			16280 Jun 08 10:25	0°♓	
	16275 Aug 26 15:45	0°♒			16280 Aug 05 00:47	0°♓	
	16275 Oct 07 09:14	0°♓		retrograde	16280 Sep 27 21:35	13°♓29'15	
asc. node	16275 Oct 08 22:39	1°♓08'42		opposition	16280 Nov 07 13:03	3°♓52'13	-4°51'10
	16275 Nov 16 13:02	0°♍		greatest brilliancy	16280 Nov 07 16:09	3°♓49'11	-1.2m
	16275 Dec 25 16:17	0°♎		min. Earth dist.	16280 Nov 08 12:40	3°♓29'01	0.68638 AU
	16276 Feb 02 16:26	0°♏			16280 Nov 17 15:48	30°♒	
	16276 Mar 13 22:45	0°♐		direct	16280 Dec 19 00:25	23°♒57'20	
	16276 Apr 27 03:59	0°♑			16281 Jan 22 07:03	0°♒	
	16276 Jun 28 19:20	0°♑			16281 Mar 27 15:50	0°♑	
retrograde	16276 Jul 20 09:07	2°♑59'39			16281 May 15 06:13	0°♒	
desc. node	16276 Aug 02 17:37	1°♑43'40		asc. node	16281 May 30 04:30	10°♒01'30	
	16276 Aug 09 23:31	30°♒			16281 Jun 27 15:11	0°♒	
min. Earth dist.	16276 Aug 22 07:07	25°♒48'10	0.57497 AU		16281 Aug 06 23:13	0°♓	
opposition	16276 Aug 28 22:03	23°♒14'37	-1°13'53		16281 Sep 14 12:14	0°♍	
greatest brilliancy	16276 Aug 28 13:51	23°♒22'32	-1.8m	evening set	16281 Oct 10 07:22	20°♍27'12	
direct	16276 Oct 04 22:44	14°♒54'57			16281 Oct 22 07:38	0°♎	
	16276 Dec 02 00:23	0°♑			16281 Nov 29 08:48	0°♏	

conjunction	16281 Dec 22 00:55	17°  30'50	0°54'54			16286 Dec 13 12:45	0° 	
minimum elong	16281 Dec 22 04:26	17°  37'33	0°55'32	asc. node		16287 Jan 20 18:35	16°  13'58	
	16282 Jan 07 12:25	0° 		retrograde		16287 Feb 21 01:39	21°  43'43	
max. Earth dist.	16282 Feb 10 02:50	24°  43'41	2.44493 AU	opposition		16287 Mar 23 16:11	16°  22'42	4°10'54
	16282 Feb 17 11:17	0° 		greatest brilliancy		16287 Mar 24 13:00	16°  07'29	-2.8m
morning rise	16282 Feb 23 13:27	4°  19'41		min. Earth dist.		16287 Mar 29 23:57	14°  32'27	0.39226 AU
desc. node	16282 Mar 25 11:00	25°  04'33		direct		16287 Apr 25 02:22	10°  11'26	
	16282 Apr 01 17:38	0° 				16287 Jun 23 05:38	0° 	
	16282 May 17 17:43	0° 				16287 Aug 09 13:53	0° 	
	16282 Jul 06 09:50	0° 				16287 Sep 22 00:39	0° 	
	16282 Sep 02 03:10	0° 				16287 Nov 04 12:56	0° 	
retrograde	16282 Nov 03 07:38	16°  42'39		desc. node		16287 Nov 14 19:32	6°  59'15	
opposition	16282 Dec 12 09:47	7°  49'47	-4°30'36			16287 Dec 19 03:58	0° 	
greatest brilliancy	16282 Dec 13 04:50	7°  31'24	-1.4m			16288 Feb 03 02:09	0° 	
min. Earth dist.	16282 Dec 17 07:06	5°  56'35	0.64010 AU			16288 Mar 21 00:02	0° 	
	16283 Jan 04 12:55	30°  11		evening set		16288 Mar 22 13:17	0°  59'09	
direct	16283 Jan 22 19:09	27°  14'26		max. Earth dist.		16288 May 04 06:53	28°  04'03	2.68575 AU
	16283 Feb 10 22:42	0° 						
asc. node	16283 Apr 17 06:52	28°  16'29		conjunction		16288 May 05 15:30	28°  55'43	-1°12'58
	16283 Apr 20 05:42	0° 		minimum elong		16288 May 05 15:02	28°  54'57	1°13'31
	16283 Jun 05 13:47	0° 				16288 May 07 08:05	0° 	
	16283 Jul 16 18:29	0° 		morning rise		16288 Jun 17 14:01	26°  12'47	
	16283 Aug 24 15:14	0° 				16288 Jun 23 12:18	0° 	
	16283 Oct 01 16:57	0° 				16288 Aug 09 01:45	0° 	
	16283 Nov 09 03:09	0° 				16288 Sep 23 18:23	0° 	
	16283 Dec 18 18:54	0° 				16288 Nov 07 12:37	0° 	
evening set	16283 Dec 23 13:35	3°  31'52		asc. node		16288 Dec 07 19:56	20°  36'25	
	16284 Jan 29 06:30	0° 				16288 Dec 21 14:11	0° 	
desc. node	16284 Feb 10 02:22	8°  17'11				16289 Feb 04 03:31	0° 	
						16289 Mar 26 18:16	0° 	
conjunction	16284 Feb 19 00:26	14°  27'47	-0°05'43	retrograde		16289 May 11 23:54	13°  00'51	
minimum elong	16284 Feb 19 00:08	14°  27'16	0°05'28	min. Earth dist.		16289 Jun 06 20:44	8°  38'34	0.39045 AU
behind sun begin	16284 Feb 18 03:02	13°  25'55		greatest brilliancy		16289 Jun 12 01:20	7°  06'01	-2.8m
behind sun end	16284 Feb 19 21:14	15°  03'35		opposition		16289 Jun 13 07:54	6°  43'05	6°18'33
	16284 Mar 12 20:39	0° 		direct		16289 Jul 13 09:14	1°  21'08	
max. Earth dist.	16284 Mar 18 12:24	3°  47'22	2.57576 AU	desc. node		16289 Oct 01 23:43	29°  41'46	
morning rise	16284 Apr 09 03:59	18°  05'24				16289 Oct 02 13:13	0° 	
	16284 Apr 27 13:08	0° 				16289 Nov 23 17:09	0° 	
	16284 Jun 14 06:30	0° 				16290 Jan 12 07:30	0° 	
	16284 Aug 03 10:13	0° 				16290 Mar 02 03:32	0° 	
	16284 Sep 27 11:21	0° 				16290 Apr 19 06:48	0° 	
retrograde	16284 Dec 17 08:28	25°  04'50		evening set		16290 Apr 26 17:01	4°  11'40'48	
opposition	16285 Jan 22 04:37	18°  01'12	-2°08'47	max. Earth dist.		16290 May 26 16:33	23°  11'46'09	2.65799 AU
greatest brilliancy	16285 Jan 22 22:26	17°  05'51	-2.0m			16290 Jun 05 08:37	0° 	
min. Earth dist.	16285 Jan 30 09:32	15°  01'23	0.52869 AU					
direct	16285 Mar 02 07:00	8°  05'44		conjunction		16290 Jun 09 10:50	2°  39'00	-1°08'18
asc. node	16285 Mar 04 12:27	9°  01'48		minimum elong		16290 Jun 09 11:45	2°  40'29	1°08'59
	16285 May 04 11:35	0° 				16290 Jul 20 23:54	0° 	
	16285 Jun 20 04:07	0° 		morning rise		16290 Jul 24 05:48	2°  10'29	
	16285 Jul 30 22:56	0° 				16290 Sep 02 23:24	0° 	
	16285 Sep 08 04:13	0° 				16290 Oct 15 06:15	0° 	
	16285 Oct 17 15:12	0° 		asc. node		16290 Oct 25 15:34	7°  32'51	
	16285 Nov 27 08:18	0° 				16290 Nov 25 00:54	0° 	
desc. node	16285 Dec 27 20:55	21°  34'10'4				16291 Jan 03 19:24	0° 	
	16286 Jan 08 20:13	0° 				16291 Feb 12 13:32	0° 	
evening set	16286 Feb 12 03:15	23°  25'17'06				16291 Mar 26 04:15	0° 	
	16286 Feb 22 05:22	0° 				16291 May 14 03:25	0° 	
				retrograde		16291 Jul 05 01:17	15°  23'59	
conjunction	16286 Apr 01 00:45	24°  43'11	-0°51'51	min. Earth dist.		16291 Aug 04 15:14	9°  01'20	0.52445 AU
minimum elong	16286 Mar 31 23:21	24°  40'54	0°52'05	opposition		16291 Aug 12 10:23	6°  06'02	0°24'28
	16286 Apr 09 05:31	0° 		greatest brilliancy		16291 Aug 12 07:36	6°  08'38	-2.1m
max. Earth dist.	16286 Apr 13 03:12	2°  30'22	2.65807 AU	desc. node		16291 Aug 20 06:52	3°  16'52	
morning rise	16286 May 15 12:15	23°  07'07				16291 Sep 01 04:39	30° 	
	16286 May 26 09:53	0° 		direct		16291 Sep 16 18:37	28°  34'39	
	16286 Jul 13 09:13	0° 				16291 Oct 03 04:59	0° 	
	16286 Aug 31 01:43	0° 				16291 Dec 17 08:13	0° 	
	16286 Oct 20 02:29	0° 				16292 Feb 09 09:47	0° 	

	16292 Mar 30 12:52	0°♊	morning rise	16297 Jan 31 10:33	12°♎18'02	
	16292 May 17 04:09	0°♉		16297 Feb 24 18:39	0°♏	
evening set	16292 May 31 13:31	9°♉21'33		16297 Apr 09 00:34	0°♐	
max. Earth dist.	16292 Jun 19 21:15	22°♉09'35 2.57676 AU	desc. node	16297 Apr 11 05:10	1°♐28'12	
	16292 Jul 01 12:29	0°♏		16297 May 25 09:41	0°♑	
				16297 Jul 15 17:26	0°♊	
conjunction	16292 Jul 17 12:50	10°♏57'56 -0°35'14		16297 Sep 23 09:39	0°♉	
minimum elong	16292 Jul 17 14:16	11°♏00'24 0°35'47	retrograde	16297 Oct 19 12:38	3°♉37'58	
	16292 Aug 13 15:42	0°♐		16297 Nov 12 16:29	30°♏♊	
morning rise	16292 Sep 07 08:40	17°♐51'34	opposition	16297 Nov 28 09:42	24°♊24'47 -4°49'19	
asc. node	16292 Sep 11 07:59	20°♐46'36	greatest brilliancy	16297 Nov 28 23:08	24°♊11'42 -1.3m	
	16292 Sep 23 18:50	0°♐	min. Earth dist.	16297 Dec 01 18:46	23°♊05'48 0.66646 AU	
	16292 Nov 02 07:32	0°♌	direct	16298 Jan 09 00:52	14°♊22'28	
	16292 Dec 10 20:38	0°♑		16298 Mar 07 15:53	0°♉	
	16293 Jan 18 06:34	0°♑		16298 Apr 30 16:50	0°♏	
	16293 Feb 26 15:22	0°♎	asc. node	16298 May 03 21:16	2°♏00'46	
	16293 Apr 09 11:20	0°♏		16298 Jun 14 08:24	0°♐	
	16293 May 26 22:12	0°♐		16298 Jul 25 01:07	0°♐	
desc. node	16293 Jul 07 11:14	19°♐54'00		16298 Sep 01 16:58	0°♌	
retrograde	16293 Aug 12 07:04	27°♐07'01		16298 Oct 09 14:47	0°♑	
min. Earth dist.	16293 Sep 17 10:28	18°♐51'46 0.63653 AU		16298 Nov 16 20:05	0°♑	
opposition	16293 Sep 21 20:10	17°♐07'38 -3°03'21	evening set	16298 Nov 27 09:15	8°♑08'35	
greatest brilliancy	16293 Sep 21 07:09	17°♐20'28 -1.5m		16298 Dec 26 05:47	0°♎	
direct	16293 Oct 30 20:38	8°♐05'11				
	16294 Jan 12 13:19	0°♑	conjunction	16299 Jan 29 22:13	25°♎20'43 0°18'00	
	16294 Mar 09 18:22	0°♊	minimum elong	16299 Jan 29 23:26	25°♎22'54 0°18'27	
	16294 Apr 28 04:23	0°♉		16299 Feb 05 10:57	0°♏	
	16294 Jun 12 20:38	0°♏	desc. node	16299 Feb 26 20:03	14°♏58'36	
evening set	16294 Jul 12 22:17	20°♏53'10	max. Earth dist.	16299 Mar 07 09:03	20°♏51'16 2.52953 AU	
	16294 Jul 25 15:54	0°♐		16299 Mar 20 20:19	0°♐	
max. Earth dist.	16294 Jul 26 09:34	0°♐31'55 2.44953 AU	morning rise	16299 Mar 25 02:04	2°♐50'57	
asc. node	16294 Jul 29 23:49	3°♐08'06		16299 May 05 12:59	0°♑	
	16294 Sep 04 04:26	0°♐		16299 Jun 22 18:04	0°♊	
				16299 Aug 13 14:49	0°♉	
conjunction	16294 Sep 07 13:03	2°♐32'57 0°26'53		16299 Oct 15 11:53	0°♏	
minimum elong	16294 Sep 07 11:00	2°♐29'04 0°26'49	retrograde	16299 Nov 29 03:29	9°♏32'09	
	16294 Oct 13 01:49	0°♌	opposition	16300 Jan 05 12:39	1°♏21'22 -3°24'03	
morning rise	16294 Nov 15 04:14	26°♌06'05	greatest brilliancy	16300 Jan 06 11:16	1°♏00'06 -1.7m	
	16294 Nov 20 02:21	0°♑		16300 Jan 09 02:58	30°♏♉	
	16294 Dec 28 02:52	0°♑	min. Earth dist.	16300 Jan 12 15:01	28°♉41'24 0.57944 AU	
	16295 Feb 05 01:33	0°♎	direct	16300 Feb 14 21:33	21°♉39'48	
	16295 Mar 17 21:34	0°♏	asc. node	16300 Mar 22 02:06	28°♉50'43	
	16295 Apr 30 19:16	0°♐		16300 Mar 25 02:28	0°♏	
desc. node	16295 May 25 10:13	15°♐33'21		16300 May 19 17:49	0°♐	
	16295 Jun 19 03:54	0°♑		16300 Jul 01 21:46	0°♐	
	16295 Sep 01 20:06	0°♊		16300 Aug 10 13:12	0°♌	
retrograde	16295 Sep 15 15:44	1°♊07'20		16300 Sep 18 02:50	0°♑	
	16295 Sep 28 21:51	30°♏♑		16300 Oct 27 00:30	0°♑	
opposition	16295 Oct 26 12:57	21°♑19'05 -4°37'07		16300 Dec 06 04:48	0°♎	
greatest brilliancy	16295 Oct 26 09:42	21°♑22'18 -1.2m	desc. node	16301 Jan 14 12:04	28°♎06'54	
min. Earth dist.	16295 Oct 25 23:56	21°♑31'55 0.68574 AU		16301 Jan 17 04:49	0°♏	
direct	16295 Dec 06 14:25	11°♑33'53	evening set	16301 Jan 26 04:05	6°♏13'37	
	16296 Feb 10 07:16	0°♊		16301 Mar 02 04:37	0°♐	
	16296 Apr 05 23:16	0°♉				
	16296 May 23 04:39	0°♏	conjunction	16301 Mar 17 21:35	10°♐24'45 -0°36'56	
asc. node	16296 Jun 15 19:10	16°♏10'06	minimum elong	16301 Mar 17 20:13	10°♐22'31 0°36'59	
	16296 Jul 05 05:36	0°♐	max. Earth dist.	16301 Apr 04 21:19	22°♐10'19 2.63237 AU	
	16296 Aug 14 12:52	0°♐		16301 Apr 16 23:52	0°♑	
evening set	16296 Sep 09 20:55	20°♐22'35	morning rise	16301 May 02 23:19	10°♑13'50	
	16296 Sep 22 02:56	0°♌		16301 Jun 03 06:42	0°♊	
	16296 Oct 29 22:37	0°♑		16301 Jul 21 20:17	0°♉	
				16301 Sep 10 02:01	0°♏	
conjunction	16296 Nov 21 17:02	18°♑02'23 1°08'01		16301 Nov 03 07:50	0°♐	
minimum elong	16296 Nov 21 18:11	18°♑04'39 1°08'39	retrograde	16302 Jan 23 21:16	26°♐52'18	
	16296 Dec 06 22:22	0°♑	asc. node	16302 Feb 07 07:05	25°♐32'19	
max. Earth dist.	16297 Jan 13 11:23	28°♑52'46 2.38819 AU	opposition	16302 Feb 25 15:46	20°♐34'24 1°09'37	
	16297 Jan 14 23:02	0°♎	greatest brilliancy	16302 Feb 26 00:33	20°♐27'11 -2.5m	

min. Earth dist.	16302 Mar 06 00:36	17° \mathbb{M} 49'53	0.44204 AU	minimum elong	16307 Jul 03 11:12	25° \mathbb{S} 19'54	0°52'18
direct	16302 Apr 02 08:13	12° \mathbb{M} 53'31			16307 Jul 10 09:38	0° \mathcal{O}	
	16302 May 26 13:55	0° \mathcal{E}		morning rise	16307 Aug 20 14:36	28° \mathcal{O} 26'19	
	16302 Jul 12 21:59	0° \mathbb{M}			16307 Aug 22 19:40	0° \mathbb{M}	
	16302 Aug 23 15:12	0° \mathcal{Z}		asc. node	16307 Sep 30 01:55	27° \mathbb{M} 36'03	
	16302 Oct 03 16:13	0° \mathcal{Z}			16307 Oct 03 08:03	0° \mathcal{E}	
	16302 Nov 14 15:43	0° \approx			16307 Nov 12 06:27	0° \mathbb{M}	
desc. node	16302 Dec 02 10:14	12° \approx 23'17			16307 Dec 21 04:12	0° \mathcal{Z}	
	16302 Dec 28 04:33	0° \mathcal{H}			16308 Jan 28 21:59	0° \mathcal{Z}	
	16303 Feb 11 08:32	0° \mathcal{Y}			16308 Mar 08 17:37	0° \approx	
evening set	16303 Mar 10 01:01	17° \mathcal{Y} 18'47			16308 Apr 20 16:26	0° \mathcal{H}	
	16303 Mar 29 19:31	0° \mathcal{B}			16308 Jun 12 06:13	0° \mathcal{Y}	
				desc. node	16308 Jul 25 00:36	12° \mathcal{Y} 18'56	
conjunction	16303 Apr 24 03:46	16° \mathcal{B} 08'32	-1°07'50	retrograde	16308 Jul 29 23:49	12° \mathcal{Y} 28'51	
minimum elong	16303 Apr 24 02:48	16° \mathcal{B} 07'01	1°08'17	min. Earth dist.	16308 Sep 02 02:39	4° \mathcal{Y} 52'58	0.59933 AU
max. Earth dist.	16303 Apr 27 19:40	18° \mathcal{B} 28'02	2.68142 AU	opposition	16308 Sep 07 23:01	2° \mathcal{Y} 35'58	-1°59'55
	16303 May 16 00:23	0° \mathbb{I}		greatest brilliancy	16308 Sep 07 11:28	2° \mathcal{Y} 47'15	-1.7m
morning rise	16303 Jun 06 07:30	13° \mathbb{I} 28'43			16308 Sep 14 19:19	30° \mathcal{R} \mathcal{H}	
	16303 Jul 02 09:40	0° \mathbb{S}		direct	16308 Oct 15 18:13	23° \mathcal{H} 59'10	
	16303 Aug 18 14:04	0° \mathcal{O}			16308 Nov 19 00:57	0° \mathcal{Y}	
	16303 Oct 04 10:38	0° \mathbb{M}			16309 Jan 25 00:33	0° \mathcal{B}	
	16303 Nov 20 04:02	0° \mathcal{E}			16309 Mar 18 21:48	0° \mathbb{I}	
asc. node	16303 Dec 26 10:43	22° \mathcal{E} 58'34			16309 May 06 10:19	0° \mathbb{S}	
	16304 Jan 06 19:40	0° \mathbb{M}			16309 Jun 20 21:44	0° \mathcal{O}	
	16304 Mar 01 13:14	0° \mathcal{Z}		evening set	16309 Jun 26 02:34	3° \mathcal{O} 32'52	
retrograde	16304 Apr 13 16:26	10° \mathcal{Z} 50'21		max. Earth dist.	16309 Jul 10 15:54	13° \mathcal{O} 36'36	2.50342 AU
min. Earth dist.	16304 May 11 13:51	6° \mathcal{Z} 18'44	0.36485 AU		16309 Aug 02 19:13	0° \mathbb{M}	
opposition	16304 May 13 12:25	5° \mathcal{Z} 47'42	7°27'13				
greatest brilliancy	16304 May 13 01:32	5° \mathcal{Z} 54'57	-3.0m	conjunction	16309 Aug 16 20:20	10° \mathbb{M} 11'15	0°00'03
direct	16304 Jun 11 11:42	0° \mathcal{Z} 59'06		minimum elong	16309 Aug 16 20:24	10° \mathbb{M} 11'21	0°00'15
	16304 Aug 29 10:10	0° \mathcal{Z}		behind sun begin	16309 Aug 15 21:14	9° \mathbb{M} 29'03	
	16304 Oct 18 01:43	0° \approx		behind sun end	16309 Aug 17 19:34	10° \mathbb{M} 53'43	
desc. node	16304 Oct 19 13:22	0° \approx 55'39		asc. node	16309 Aug 16 18:11	10° \mathbb{M} 07'20	
	16304 Dec 04 17:56	0° \mathcal{H}			16309 Sep 12 12:33	0° \mathcal{E}	
	16305 Jan 21 10:10	0° \mathcal{Y}		morning rise	16309 Oct 16 18:01	26° \mathcal{E} 12'31	
	16305 Mar 10 07:22	0° \mathcal{B}			16309 Oct 21 15:03	0° \mathbb{M}	
evening set	16305 Apr 14 04:39	21° \mathcal{B} 53'55			16309 Nov 28 19:30	0° \mathcal{Z}	
	16305 Apr 27 00:52	0° \mathbb{I}			16310 Jan 05 22:17	0° \mathcal{Z}	
max. Earth dist.	16305 May 18 22:22	13° \mathbb{I} 53'15	2.67535 AU		16310 Feb 13 22:39	0° \approx	
					16310 Mar 26 23:06	0° \mathcal{H}	
conjunction	16305 May 27 16:52	19° \mathbb{I} 29'06	-1°13'17		16310 May 10 13:48	0° \mathcal{Y}	
minimum elong	16305 May 27 17:15	19° \mathbb{I} 29'43	1°13'57	desc. node	16310 Jun 12 02:15	19° \mathcal{Y} 27'19	
	16305 Jun 13 02:05	0° \mathbb{S}			16310 Jul 02 03:57	0° \mathcal{B}	
morning rise	16305 Jul 10 07:46	17° \mathbb{S} 41'22		retrograde	16310 Sep 03 11:51	18° \mathcal{B} 32'38	
	16305 Jul 29 00:12	0° \mathcal{O}		min. Earth dist.	16310 Oct 12 08:19	9° \mathcal{B} 25'38	0.67458 AU
	16305 Sep 11 12:45	0° \mathbb{M}		opposition	16310 Oct 14 09:52	8° \mathcal{B} 36'38	-4°11'19
	16305 Oct 24 13:09	0° \mathcal{E}		greatest brilliancy	16310 Oct 14 01:14	8° \mathcal{B} 45'11	-1.3m
asc. node	16305 Nov 12 09:25	13° \mathcal{E} 28'01			16310 Nov 11 17:47	30° \mathcal{R} \mathcal{Y}	
	16305 Dec 05 04:31	0° \mathbb{M}		direct	16310 Nov 23 20:09	29° \mathcal{Y} 04'59	
	16306 Jan 14 22:53	0° \mathcal{Z}			16310 Dec 06 12:26	0° \mathcal{B}	
	16306 Feb 25 03:04	0° \mathcal{Z}			16311 Feb 23 04:17	0° \mathbb{I}	
	16306 Apr 11 02:57	0° \approx			16311 Apr 16 08:15	0° \mathbb{S}	
retrograde	16306 Jun 17 14:33	24° \approx 47'00			16311 Jun 01 18:24	0° \mathcal{O}	
min. Earth dist.	16306 Jul 15 19:52	19° \approx 17'23	0.46926 AU	asc. node	16311 Jul 04 12:41	22° \mathcal{O} 43'55	
greatest brilliancy	16306 Jul 23 12:24	16° \approx 34'06	-2.3m		16311 Jul 14 15:40	0° \mathbb{M}	
opposition	16306 Jul 24 06:11	16° \approx 18'20	2°30'15	evening set	16311 Aug 16 07:57	24° \mathbb{M} 10'37	
direct	16306 Aug 26 13:53	9° \approx 25'40			16311 Aug 24 00:08	0° \mathcal{E}	
desc. node	16306 Sep 06 18:28	10° \approx 11'49		max. Earth dist.	16311 Sep 17 19:46	19° \mathcal{E} 08'37	2.36851 AU
	16306 Nov 02 22:53	0° \mathcal{H}			16311 Oct 01 16:19	0° \mathbb{M}	
	16306 Dec 29 05:58	0° \mathcal{Y}					
	16307 Feb 18 12:16	0° \mathcal{B}		conjunction	16311 Oct 22 13:46	16° \mathbb{M} 31'20	1°03'01
	16307 Apr 08 15:43	0° \mathbb{I}		minimum elong	16311 Oct 22 10:37	16° \mathbb{M} 25'04	1°03'26
evening set	16307 May 19 05:04	25° \mathbb{I} 37'46			16311 Nov 08 13:02	0° \mathcal{Z}	
	16307 May 25 23:48	0° \mathbb{S}			16311 Dec 16 11:57	0° \mathcal{Z}	
max. Earth dist.	16307 Jun 11 09:30	10° \mathbb{S} 41'16	2.61467 AU	morning rise	16312 Jan 05 16:41	15° \mathcal{Z} 41'48	
					16312 Jan 24 10:26	0° \approx	
conjunction	16307 Jul 03 09:43	25° \mathbb{S} 17'26	-0°51'41		16312 Mar 05 04:12	0° \mathcal{H}	

	16312 Apr 17 12:14	0°♈		16317 Sep 03 04:21	0°♏
desc. node	16312 Apr 28 21:25	7°♈31'17		16317 Oct 13 00:51	0°♐
	16312 Jun 03 13:14	0°♉		16317 Nov 23 02:00	0°♑
	16312 Jul 27 19:47	0°♊	desc. node	16317 Dec 19 01:11	18°♑21'45
retrograde	16312 Oct 06 14:54	21°♊05'22		16318 Jan 04 20:48	0°♒
opposition	16312 Nov 16 01:11	11°♊35'59 -4°54'06		16318 Feb 18 11:11	0°♓
greatest brilliancy	16312 Nov 16 08:03	11°♊29'15 -1.2m	evening set	16318 Feb 22 12:59	2°♓41'10
min. Earth dist.	16312 Nov 17 21:37	10°♊52'25 0.68229 AU		16318 Apr 05 14:06	0°♈
direct	16312 Dec 27 15:13	1°♊37'14			
	16313 Mar 21 17:05	0°♉	conjunction	16318 Apr 10 06:03	2°♈59'30 -0°58'53
	16313 May 10 17:26	0°♊	minimum elong	16318 Apr 10 04:45	2°♈57'25 0°59'12
asc. node	16313 May 21 11:05	7°♊04'41	max. Earth dist.	16318 Apr 19 06:21	8°♈45'13 2.66870 AU
	16313 Jun 23 12:12	0°♋		16318 May 22 17:45	0°♌
	16313 Aug 02 23:18	0°♍	morning rise	16318 May 24 02:45	0°♌52'07
	16313 Sep 10 13:27	0°♎		16318 Jul 09 10:42	0°♏
	16313 Oct 18 09:33	0°♐		16318 Aug 26 11:41	0°♑
evening set	16313 Oct 29 01:24	8°♐27'02		16318 Oct 14 01:58	0°♒
	16313 Nov 25 11:31	0°♐		16318 Dec 03 10:51	0°♓
	16314 Jan 03 16:18	0°♑	asc. node	16319 Jan 12 00:35	21°♓11'11
conjunction	16314 Jan 07 05:35	2°♑39'33 0°42'32		16319 Feb 01 03:08	0°♌
minimum elong	16314 Jan 07 08:39	2°♑45'16 0°43'06	retrograde	16319 Mar 12 10:51	8°♌31'03
	16314 Feb 13 16:06	0°♒	opposition	16319 Apr 11 01:47	3°♌33'13 5°53'10
max. Earth dist.	16314 Feb 21 14:37	5°♒38'05 2.47608 AU	greatest brilliancy	16319 Apr 11 18:55	3°♌21'28 -2.9m
morning rise	16314 Mar 08 00:02	15°♒42'06	min. Earth dist.	16319 Apr 15 00:33	2°♌28'18 0.37365 AU
desc. node	16314 Mar 16 13:53	21°♒36'51		16319 Apr 24 23:46	30°♌♌
	16314 Mar 28 21:50	0°♈	direct	16319 May 11 19:48	28°♌07'41
	16314 May 13 17:06	0°♉		16319 May 28 08:17	0°♍
	16314 Jul 01 16:14	0°♊		16319 Jul 31 04:06	0°♐
	16314 Aug 25 09:56	0°♋		16319 Sep 15 10:14	0°♐
retrograde	16314 Nov 13 05:39	25°♋00'46	desc. node	16319 Oct 30 06:11	0°♑
opposition	16314 Dec 21 19:09	16°♋21'15 -4°12'04		16319 Nov 06 01:52	4°♑32'31
greatest brilliancy	16314 Dec 22 16:29	16°♋00'49 -1.5m		16319 Dec 14 16:15	0°♒
min. Earth dist.	16314 Dec 27 12:28	14°♋09'44 0.62114 AU		16320 Jan 30 02:14	0°♓
direct	16315 Jan 31 22:19	6°♋24'43	evening set	16320 Mar 17 06:55	0°♈
asc. node	16315 Apr 08 14:19	27°♋29'50		16320 Mar 31 12:27	8°♈59'44
	16315 Apr 13 05:52	0°♌	max. Earth dist.	16320 May 03 17:44	0°♊
	16315 May 31 11:39	0°♍		16320 May 10 05:07	4°♊06'10 2.68436 AU
	16315 Jul 12 05:03	0°♍	conjunction	16320 May 14 06:31	6°♊40'38 -1°14'16
	16315 Aug 20 07:10	0°♎	minimum elong	16320 May 14 06:21	6°♊40'22 1°14'52
	16315 Sep 27 12:17	0°♏		16320 Jun 19 20:25	0°♏
	16315 Nov 05 01:34	0°♐	morning rise	16320 Jun 26 07:35	4°♏09'06
	16315 Dec 14 20:42	0°♑		16320 Aug 05 03:46	0°♑
evening set	16316 Jan 06 13:59	16°♑33'26		16320 Sep 19 09:02	0°♒
	16316 Jan 25 11:32	0°♒		16320 Nov 02 09:25	0°♓
desc. node	16316 Feb 01 06:36	4°♒45'45	asc. node	16320 Nov 29 01:17	18°♓32'59
conjunction	16316 Mar 01 06:25	24°♒41'02 -0°18'08		16320 Dec 15 08:28	0°♌
minimum elong	16316 Mar 01 05:33	24°♒39'35 0°18'00		16321 Jan 26 23:05	0°♏
	16316 Mar 09 03:47	0°♈	retrograde	16321 Mar 12 16:21	0°♐
max. Earth dist.	16316 Mar 25 17:31	11°♈01'54 2.59805 AU	min. Earth dist.	16321 May 27 00:08	29°♐49'21
morning rise	16316 Apr 18 17:02	26°♈41'52	greatest brilliancy	16321 Jun 22 08:48	25°♐08'18 0.41567 AU
	16316 Apr 23 19:52	0°♉	opposition	16321 Jun 28 20:29	23°♐03'19 -2.7m
	16316 Jun 10 07:41	0°♊	direct	16321 Jun 30 02:49	22°♐38'48 4°58'37
	16316 Jul 29 17:58	0°♋		16321 Jul 31 05:55	16°♐44'09
	16316 Sep 20 11:13	0°♌	desc. node	16321 Sep 20 10:54	0°♑
	16316 Nov 25 03:29	0°♍		16321 Sep 23 07:09	1°♑15'37
retrograde	16316 Dec 30 11:27	6°♍24'49		16321 Nov 17 08:59	0°♒
	16317 Feb 01 03:42	30°♍♍		16322 Jan 07 14:29	0°♓
opposition	16317 Feb 03 06:47	29°♌15'14 -1°09'09		16322 Feb 26 03:25	0°♈
greatest brilliancy	16317 Feb 03 17:25	29°♌05'50 -2.2m	evening set	16322 Apr 15 14:18	0°♊
min. Earth dist.	16317 Feb 11 19:56	26°♌13'51 0.49831 AU		16322 May 05 09:59	12°♊29'46
asc. node	16317 Feb 23 20:30	22°♌38'12	max. Earth dist.	16322 Jun 01 18:09	0°♋
direct	16317 Mar 13 09:43	20°♌28'18		16322 Jun 01 22:29	0°♋07'01 2.64494 AU
	16317 Apr 22 00:25	0°♍	conjunction	16322 Jun 18 12:03	10°♋53'46 -1°03'31
	16317 Jun 13 08:28	0°♎	minimum elong	16322 Jun 18 13:14	10°♋55'42 1°04'11
	16317 Jul 25 09:01	0°♏		16322 Jul 17 07:39	0°♑

morning rise	16322 Aug 03 06:11	11°♏27'30		opposition	16327 Nov 03 23:40	29°♎01'37	-4°46'58
	16322 Aug 30 02:27	0°♍		greatest brilliancy	16327 Nov 03 23:53	29°♎01'24	-1.2m
	16322 Oct 11 02:23	0°♌		min. Earth dist.	16327 Nov 04 07:11	28°♎54'12	0.68741 AU
asc. node	16322 Oct 16 21:18	4°♌13'49		direct	16327 Dec 15 06:51	19°♎10'31	
	16322 Nov 20 12:57	0°♍			16328 Feb 01 01:56	0°♏	
	16322 Dec 29 22:31	0°♎			16328 Mar 31 22:13	0°♏	
	16323 Feb 07 04:49	0°♎			16328 May 18 23:25	0°♏	
	16323 Mar 19 21:01	0°♏		asc. node	16328 Jun 07 02:10	12°♏56'06	
	16323 May 04 08:02	0°♏			16328 Jul 01 06:28	0°♍	
retrograde	16323 Jul 15 14:22	26°♏12'56			16328 Aug 10 15:08	0°♌	
desc. node	16323 Aug 11 12:24	21°♏10'06			16328 Sep 18 05:08	0°♍	
min. Earth dist.	16323 Aug 16 11:38	19°♏22'08	0.55341 AU	evening set	16328 Sep 27 14:08	7°♍24'36	
opposition	16323 Aug 23 15:43	16°♏37'40	-0°35'49		16328 Oct 26 00:40	0°♎	
greatest brilliancy	16323 Aug 23 11:22	16°♏41'50	-1.9m		16328 Dec 03 00:36	0°♎	
direct	16323 Sep 28 23:23	8°♏33'44					
	16323 Dec 09 17:57	0°♏		conjunction	16328 Dec 10 05:02	5°♎35'59	1°02'22
	16324 Feb 04 13:28	0°♎		minimum elong	16328 Dec 10 08:06	5°♎41'57	1°03'02
	16324 Mar 26 12:26	0°♏			16329 Jan 11 01:51	0°♏	
	16324 May 13 10:46	0°♏		max. Earth dist.	16329 Feb 01 02:23	15°♏38'09	2.41916 AU
evening set	16324 Jun 10 02:25	18°♏04'44		morning rise	16329 Feb 15 00:12	25°♏45'27	
	16324 Jun 27 20:27	0°♏			16329 Feb 20 21:56	0°♏	
max. Earth dist.	16324 Jun 27 12:15	29°♏46'05	2.55268 AU	desc. node	16329 Apr 02 08:05	28°♏08'24	
					16329 Apr 05 02:11	0°♏	
conjunction	16324 Jul 28 10:18	21°♏08'17	-0°23'38		16329 May 21 03:46	0°♎	
minimum elong	16324 Jul 28 11:27	21°♏10'18	0°24'05		16329 Jul 10 07:46	0°♏	
	16324 Aug 09 22:10	0°♍			16329 Sep 08 22:25	0°♏	
asc. node	16324 Sep 02 12:29	17°♍05'50		retrograde	16329 Oct 28 20:14	11°♏32'53	
	16324 Sep 19 22:14	0°♌		opposition	16329 Dec 07 07:35	2°♏30'31	-4°40'09
morning rise	16324 Sep 20 22:25	0°♌45'16		greatest brilliancy	16329 Dec 08 00:19	2°♏14'17	-1.4m
	16324 Oct 29 07:28	0°♍		min. Earth dist.	16329 Dec 11 13:02	0°♏52'07	0.65315 AU
	16324 Dec 06 17:20	0°♎			16329 Dec 13 19:25	30°♎♏	
	16325 Jan 13 23:52	0°♎		direct	16330 Jan 17 20:11	22°♏28'25	
	16325 Feb 22 03:55	0°♏			16330 Feb 24 11:29	0°♏	
	16325 Apr 04 13:13	0°♏		asc. node	16330 Apr 25 04:03	0°♏00'20	
	16325 May 20 11:41	0°♏			16330 Apr 25 03:50	0°♏	
desc. node	16325 Jun 28 15:50	21°♏06'42			16330 Jun 09 18:33	0°♍	
	16325 Jul 21 01:00	0°♎			16330 Jul 20 18:51	0°♌	
retrograde	16325 Aug 21 03:57	5°♎28'42			16330 Aug 28 13:53	0°♎	
	16325 Sep 19 02:16	30°♎♏			16330 Oct 05 13:46	0°♎	
min. Earth dist.	16325 Sep 27 07:38	26°♏53'45	0.65289 AU		16330 Nov 12 21:00	0°♎	
opposition	16325 Sep 30 21:25	25°♏28'58	-3°32'58	evening set	16330 Dec 13 15:09	23°♎28'06	
greatest brilliancy	16325 Sep 30 09:08	25°♏41'07	-1.4m		16330 Dec 22 08:48	0°♏	
direct	16325 Nov 09 11:06	16°♏14'48			16331 Feb 01 16:09	0°♏	
	16326 Jan 04 00:48	0°♎					
	16326 Mar 04 20:40	0°♏		conjunction	16331 Feb 11 15:28	7°♏01'27	0°04'07
	16326 Apr 24 02:38	0°♏		minimum elong	16331 Feb 11 15:44	7°♏01'55	0°04'27
	16326 Jun 09 01:01	0°♏		behind sun begin	16331 Feb 10 17:22	6°♏22'45	
asc. node	16326 Jul 21 04:37	29°♏29'45		behind sun end	16331 Feb 12 14:06	7°♏41'02	
	16326 Jul 21 21:23	0°♍		desc. node	16331 Feb 17 23:17	11°♏26'11	
evening set	16326 Jul 25 02:04	2°♍18'44		max. Earth dist.	16331 Mar 15 13:26	28°♏57'28	2.55595 AU
max. Earth dist.	16326 Aug 08 20:42	13°♍08'06	2.41862 AU		16331 Mar 17 02:32	0°♏	
	16326 Aug 31 08:48	0°♌		morning rise	16331 Apr 04 10:05	12°♏12'51	
					16331 May 01 17:36	0°♎	
conjunction	16326 Sep 23 03:40	17°♌29'22	0°42'06		16331 Jun 18 14:09	0°♏	
minimum elong	16326 Sep 23 00:26	17°♌23'06	0°42'12		16331 Aug 08 07:33	0°♏	
	16326 Oct 09 04:33	0°♍			16331 Oct 04 14:57	0°♏	
	16326 Nov 16 03:47	0°♎		retrograde	16331 Dec 10 17:38	19°♏01'05	
morning rise	16326 Dec 04 14:38	14°♎37'14		opposition	16332 Jan 16 06:47	11°♏09'46	-2°44'15
	16326 Dec 24 03:24	0°♎		greatest brilliancy	16332 Jan 17 03:31	10°♏50'34	-1.9m
	16327 Feb 01 01:11	0°♏		min. Earth dist.	16332 Jan 24 00:37	8°♏17'57	0.55218 AU
	16327 Mar 13 18:57	0°♏		direct	16332 Feb 25 00:09	1°♏42'25	
	16327 Apr 26 08:39	0°♏		asc. node	16332 Mar 12 08:31	3°♏27'03	
desc. node	16327 May 16 15:00	13°♏04'54			16332 May 11 12:44	0°♍	
	16327 Jun 13 12:52	0°♎			16332 Jun 25 09:44	0°♌	
	16327 Aug 13 10:31	0°♏			16332 Aug 04 15:16	0°♍	
retrograde	16327 Sep 24 05:09	8°♏43'59			16332 Sep 12 12:54	0°♎	
	16327 Nov 01 12:17	30°♎♏			16332 Oct 21 16:51	0°♎	

	16332 Dec 01 02:49	0°♊			16337 Oct 19 03:12	0°♎
desc. node	16333 Jan 04 17:36	24°♊42'02		asc. node	16337 Nov 02 14:03	10°♎25'30
	16333 Jan 12 08:00	0°♋			16337 Nov 29 06:55	0°♎
evening set	16333 Feb 05 14:38	16°♋39'14			16338 Jan 08 11:05	0°♌
	16333 Feb 25 11:31	0°♌			16338 Feb 17 16:47	0°♌
					16338 Apr 01 06:56	0°♊
conjunction	16333 Mar 26 15:32	19°♌11'28 -0°46'07			16338 May 25 11:11	0°♋
minimum elong	16333 Mar 26 14:06	19°♌09'08 0°46'16		retrograde	16338 Jun 28 09:34	7°♋21'27
max. Earth dist.	16333 Apr 10 07:21	28°♌41'03 2.64761 AU		min. Earth dist.	16338 Jul 27 21:06	1°♋22'17 0.50003 AU
	16333 Apr 12 08:22	0°♍			16338 Jul 31 15:36	30°♋
morning rise	16333 May 10 18:02	18°♍08'28		opposition	16338 Aug 05 01:17	28°♋22'31 1°14'38
	16333 May 29 12:54	0°♎		greatest brilliancy	16338 Aug 04 16:29	28°♋30'35 -2.2m
	16333 Jul 16 17:23	0°♏		desc. node	16338 Aug 28 01:21	21°♋53'29
	16333 Sep 03 23:57	0°♐		direct	16338 Sep 08 13:15	21°♋01'30
	16333 Oct 25 11:19	0°♑			16338 Oct 20 12:31	0°♋
	16333 Dec 24 14:17	0°♒			16338 Dec 22 08:49	0°♌
asc. node	16334 Jan 28 15:05	9°♒58'59			16339 Feb 13 02:18	0°♍
retrograde	16334 Feb 08 14:47	10°♒43'23			16339 Apr 03 19:10	0°♎
opposition	16334 Mar 12 04:52	4°♒57'35 2°49'16			16339 May 21 08:04	0°♏
greatest brilliancy	16334 Mar 12 22:43	4°♒43'46 -2.7m		evening set	16339 May 27 07:10	3°♏51'30
min. Earth dist.	16334 Mar 19 18:46	2°♒37'51 0.41266 AU		max. Earth dist.	16339 Jun 17 07:02	17°♏38'03 2.59471 AU
	16334 Mar 29 16:29	30°♑			16339 Jul 05 18:11	0°♐
direct	16334 Apr 15 03:16	28°♑05'03				
	16334 May 01 17:44	0°♒		conjunction	16339 Jul 12 08:57	4°♐29'30 -0°42'46
	16334 Jul 03 00:52	0°♓		minimum elong	16339 Jul 12 10:27	4°♐32'04 0°43'21
	16334 Aug 16 00:58	0°♌			16339 Aug 18 01:26	0°♑
	16334 Sep 27 04:32	0°♍		morning rise	16339 Aug 31 09:45	9°♑32'24
	16334 Nov 08 21:14	0°♎		asc. node	16339 Sep 20 06:53	24°♑00'36
desc. node	16334 Nov 22 15:29	9°♎28'43			16339 Sep 28 09:32	0°♒
	16334 Dec 22 22:41	0°♋			16339 Nov 07 02:55	0°♓
	16335 Feb 06 11:17	0°♌			16339 Dec 15 19:56	0°♌
evening set	16335 Mar 18 09:51	25°♌42'09			16340 Jan 23 08:40	0°♍
	16335 Mar 25 03:30	0°♍			16340 Mar 02 20:24	0°♎
					16340 Apr 13 23:51	0°♋
conjunction	16335 May 01 21:09	23°♍57'56 -1°11'21			16340 Jun 01 19:01	0°♌
minimum elong	16335 May 01 20:27	23°♍56'50 1°11'52		desc. node	16340 Jul 15 06:45	18°♌15'21
max. Earth dist.	16335 May 02 17:34	24°♍30'18 2.68490 AU		retrograde	16340 Aug 07 06:46	21°♌28'54
	16335 May 11 09:46	0°♎		min. Earth dist.	16340 Sep 11 12:54	13°♌30'18 0.62109 AU
morning rise	16335 Jun 13 20:28	21°♎12'38		opposition	16340 Sep 16 13:56	11°♌31'21 -2°39'22
	16335 Jun 27 16:03	0°♏		greatest brilliancy	16340 Sep 16 00:53	11°♌44'12 -1.5m
	16335 Aug 13 12:08	0°♐		direct	16340 Oct 25 01:23	2°♌39'37
	16335 Sep 28 16:33	0°♑			16341 Jan 17 18:58	0°♍
	16335 Nov 13 05:20	0°♒			16341 Mar 13 11:08	0°♎
asc. node	16335 Dec 16 17:46	22°♒12'59			16341 May 01 12:43	0°♏
	16335 Dec 28 12:59	0°♓			16341 Jun 16 04:15	0°♐
	16336 Feb 13 15:21	0°♌		evening set	16341 Jul 05 22:27	13°♐35'55
retrograde	16336 Apr 30 21:39	29°♌44'06		max. Earth dist.	16341 Jul 19 11:39	23°♐08'30 2.47417 AU
min. Earth dist.	16336 May 27 02:34	25°♌26'20 0.37514 AU			16341 Jul 29 01:50	0°♑
opposition	16336 May 31 21:01	24°♌06'16 7°05'28		asc. node	16341 Aug 06 22:56	6°♑25'31
greatest brilliancy	16336 May 30 20:15	24°♌23'40 -2.9m				
direct	16336 Jun 30 04:50	19°♌05'42		conjunction	16341 Aug 29 03:46	22°♑48'16 0°15'13
	16336 Aug 13 15:26	0°♍		minimum elong	16341 Aug 29 02:42	22°♑46'16 0°15'03
desc. node	16336 Oct 09 18:35	0°♎04'08		behind sun begin	16341 Aug 28 17:27	22°♑29'00
	16336 Oct 09 15:46	0°♏		behind sun end	16341 Aug 29 11:57	23°♑03'33
	16336 Nov 28 09:58	0°♋			16341 Sep 07 17:37	0°♒
	16337 Jan 16 01:15	0°♌			16341 Oct 16 17:50	0°♓
	16337 Mar 05 10:25	0°♍		morning rise	16341 Nov 02 06:42	12°♓58'07
evening set	16337 Apr 21 22:06	29°♍42'12		greatest brilliancy	16341 Nov 20 23:07	27°♓43'17 1.2m
	16337 Apr 22 09:24	0°♎			16341 Nov 23 20:16	0°♌
max. Earth dist.	16337 May 24 00:06	20°♎03'49 2.66684 AU			16341 Dec 31 21:19	0°♍
					16342 Feb 08 19:32	0°♎
conjunction	16337 Jun 04 11:42	27°♎26'00 -1°10'56			16342 Mar 21 15:36	0°♋
minimum elong	16337 Jun 04 12:25	27°♎27'08 1°11'37			16342 May 04 16:59	0°♌
	16337 Jun 08 11:17	0°♏		desc. node	16342 Jun 02 06:25	17°♌44'03
morning rise	16337 Jul 18 16:09	26°♏17'08			16342 Jun 23 23:19	0°♍
	16337 Jul 24 06:16	0°♐		retrograde	16342 Sep 11 01:20	26°♍17'48
	16337 Sep 06 12:08	0°♑		opposition	16342 Oct 21 23:06	16°♍25'41 -4°28'11

min. Earth dist.	16342 Oct 20 17:54	16°♄54'34	0.68203 AU			16348 Jan 20 15:06	0°♄
greatest brilliancy	16342 Oct 21 17:17	16°♄31'27	-1.3m	desc. node		16348 Jan 22 09:23	1°♄14'03
direct	16342 Dec 01 17:48	6°♄46'06				16348 Mar 04 10:05	0°♄
	16343 Feb 15 17:27	0°♄					
	16343 Apr 10 19:16	0°♄		conjunction		16348 Mar 10 22:35	4°♄21'16 -0°29'33
	16343 May 27 17:45	0°♄		minimum elong		16348 Mar 10 21:21	4°♄19'15 0°29'31
asc. node	16343 Jun 24 17:21	19°♄15'30		max. Earth dist.		16348 Mar 31 15:39	18°♄01'02 2.61815 AU
	16343 Jul 09 18:33	0°♄				16348 Apr 19 02:46	0°♄
	16343 Aug 19 03:31	0°♄		morning rise		16348 Apr 26 22:48	5°♄02'05
evening set	16343 Aug 30 17:15	8°♄52'31				16348 Jun 05 10:31	0°♄
	16343 Sep 26 19:10	0°♄				16348 Jul 24 07:25	0°♄
	16343 Nov 03 15:32	0°♄				16348 Sep 13 10:14	0°♄
						16348 Nov 09 17:29	0°♄
conjunction	16343 Nov 09 13:13	4°♄41'21	1°08'21	retrograde		16349 Jan 12 16:27	18°♄01'20
minimum elong	16343 Nov 09 12:16	4°♄39'28	1°08'55	asc. node		16349 Feb 14 03:38	11°♄44'35
	16343 Dec 11 14:32	0°♄		opposition		16349 Feb 15 09:48	11°♄18'57 0°04'32
max. Earth dist.	16343 Dec 19 00:43	5°♄47'58	2.36697 AU	greatest brilliancy		16350 Jul 06 09:33	1°♄08'34 1.8m
	16344 Jan 19 13:11	0°♄		min. Earth dist.		16349 Feb 24 00:20	8°♄23'01 0.46711 AU
morning rise	16344 Jan 21 21:12	1°♄45'39		direct		16349 Mar 24 06:32	3°♄05'02
	16344 Feb 29 06:32	0°♄				16349 Jun 03 19:45	0°♄
	16344 Apr 12 11:14	0°♄				16349 Jul 18 02:30	0°♄
desc. node	16344 Apr 19 01:55	4°♄24'58				16349 Aug 27 19:06	0°♄
	16344 May 29 00:04	0°♄				16349 Oct 07 05:00	0°♄
	16344 Jul 20 04:42	0°♄				16349 Nov 17 16:17	0°♄
retrograde	16344 Oct 14 11:27	28°♄43'47		desc. node		16349 Dec 09 06:15	15°♄10'03
opposition	16344 Nov 23 15:00	19°♄23'00	-4°52'55			16349 Dec 30 19:16	0°♄
greatest brilliancy	16344 Nov 24 01:36	19°♄12'38	-1.3m			16350 Feb 13 15:38	0°♄
min. Earth dist.	16344 Nov 26 07:55	18°♄19'30	0.67480 AU	evening set		16350 Mar 03 12:28	11°♄40'36
direct	16345 Jan 04 06:03	9°♄21'35				16350 Mar 31 22:06	0°♄
	16345 Mar 13 18:51	0°♄					
	16345 May 04 22:16	0°♄		conjunction		16350 Apr 18 06:20	11°♄04'52 -1°04'39
asc. node	16345 May 11 18:17	4°♄24'13		minimum elong		16350 Apr 18 05:12	11°♄03'03 1°05'02
	16345 Jun 18 05:46	0°♄		max. Earth dist.		16350 Apr 24 08:35	14°♄57'32 2.67680 AU
	16345 Jul 28 21:00	0°♄				16350 May 18 01:47	0°♄
greatest brilliancy	16345 Sep 03 09:09	28°♄18'55	1.1m	morning rise		16350 May 31 15:59	8°♄35'31
	16345 Sep 05 12:29	0°♄				16350 Jul 04 14:05	0°♄
	16345 Oct 13 09:32	0°♄				16350 Aug 21 03:02	0°♄
evening set	16345 Nov 15 13:20	26°♄07'13				16350 Oct 07 15:54	0°♄
	16345 Nov 20 12:50	0°♄				16350 Nov 24 16:16	0°♄
	16345 Dec 29 19:17	0°♄		asc. node		16351 Jan 02 07:41	23°♄11'29
						16351 Jan 14 08:48	0°♄
conjunction	16346 Jan 21 02:50	16°♄29'14	0°28'37	retrograde		16351 Mar 31 05:13	26°♄48'19
minimum elong	16346 Jan 21 04:52	16°♄32'57	0°29'06	opposition		16351 Apr 29 16:02	21°♄57'21 7°06'32
	16346 Feb 08 20:49	0°♄		greatest brilliancy		16351 Apr 29 19:23	21°♄55'07 -3.0m
max. Earth dist.	16346 Mar 02 11:14	15°♄11'00	2.50646 AU	min. Earth dist.		16351 Apr 30 09:59	21°♄45'27 0.36430 AU
desc. node	16346 Mar 06 17:36	18°♄07'56		direct		16351 May 29 02:43	17°♄01'51
morning rise	16346 Mar 18 13:04	26°♄13'10				16351 Jul 15 14:22	0°♄
	16346 Mar 24 02:58	0°♄				16351 Sep 06 11:15	0°♄
	16346 May 08 18:59	0°♄				16351 Oct 23 10:22	0°♄
	16346 Jun 26 05:09	0°♄		desc. node		16351 Oct 27 08:26	2°♄32'05
	16346 Aug 17 23:58	0°♄				16351 Dec 08 22:21	0°♄
	16346 Oct 27 11:38	0°♄				16352 Jan 24 23:13	0°♄
retrograde	16346 Nov 22 14:34	3°♄37'20				16352 Mar 12 12:18	0°♄
	16346 Dec 16 17:40	30°♄		evening set		16352 Apr 08 08:57	16°♄54'41
opposition	16346 Dec 30 13:07	25°♄12'53	-3°46'51			16352 Apr 29 02:35	0°♄
greatest brilliancy	16346 Dec 31 11:37	24°♄51'30	-1.6m	max. Earth dist.		16352 May 15 05:40	10°♄13'20 2.68044 AU
min. Earth dist.	16347 Jan 06 00:58	22°♄44'54	0.59927 AU				
direct	16347 Feb 09 07:15	15°♄22'58		conjunction		16352 May 21 22:23	14°♄28'53 -1°14'14
asc. node	16347 Mar 29 22:41	27°♄57'13		minimum elong		16352 May 21 22:32	14°♄29'07 1°14'52
	16347 Apr 03 08:27	0°♄				16352 Jun 15 04:41	0°♄
	16347 May 24 22:07	0°♄		morning rise		16352 Jul 04 05:33	12°♄17'36
	16347 Jul 06 10:18	0°♄				16352 Jul 31 07:26	0°♄
	16347 Aug 14 19:33	0°♄				16352 Sep 14 03:40	0°♄
	16347 Sep 22 04:51	0°♄				16352 Oct 27 14:44	0°♄
	16347 Oct 30 21:49	0°♄		asc. node		16352 Nov 19 07:24	16°♄02'38
	16347 Dec 09 20:35	0°♄				16352 Dec 08 18:55	0°♄
evening set	16348 Jan 18 14:50	28°♄35'17				16353 Jan 19 05:35	0°♄

	16353 Mar 02 11:21	0°♄				16358 Feb 26 14:00	0°♄		
	16353 Apr 19 21:46	0°♌				16358 Apr 18 22:24	0°♌		
retrograde	16353 Jun 08 16:21	14°♌58'58				16358 Jun 04 04:58	0°♌		
min. Earth dist.	16353 Jul 05 22:05	9°♌52'58	0.44450 AU	asc. node		16358 Jul 11 11:00	25°♌55'19		
greatest brilliancy	16353 Jul 13 06:49	7°♌22'33	-2.5m			16358 Jul 17 03:08	0°♌		
opposition	16353 Jul 14 07:04	7°♌01'51	3°32'40	evening set		16358 Aug 06 03:46	14°♌39'29		
direct	16353 Aug 15 15:17	0°♌34'21		max. Earth dist.		16358 Aug 26 11:17	29°♌54'50	2.38886 AU	
desc. node	16353 Sep 13 13:12	5°♌18'44				16358 Aug 26 14:00	0°♌		
	16353 Nov 08 21:03	0°♌				16358 Oct 04 08:14	0°♌		
	16354 Jan 01 13:08	0°♌							
	16354 Feb 20 23:58	0°♌		conjunction		16358 Oct 09 04:04	3°♌47'51	0°55'25	
	16354 Apr 10 20:06	0°♄		minimum elong		16358 Oct 09 00:20	3°♌40'30	0°55'42	
evening set	16354 May 13 05:57	20°♄26'52				16358 Nov 11 06:02	0°♌		
	16354 May 28 02:52	0°♌				16358 Dec 19 04:46	0°♌		
max. Earth dist.	16354 Jun 07 09:42	6°♌40'22	2.62914 AU	morning rise		16358 Dec 23 01:00	3°♌00'32		
						16359 Jan 27 01:50	0°♌		
conjunction	16354 Jun 26 20:52	19°♌28'08	-0°57'13			16359 Mar 08 17:57	0°♌		
minimum elong	16354 Jun 26 22:15	19°♌30'25	0°57'52			16359 Apr 21 02:09	0°♌		
	16354 Jul 12 15:17	0°♌		desc. node		16359 May 06 17:53	10°♌16'23		
morning rise	16354 Aug 12 20:43	21°♌20'35				16359 Jun 07 10:24	0°♌		
	16354 Aug 25 06:02	0°♌				16359 Aug 02 11:50	0°♄		
	16354 Oct 06 00:27	0°♌		retrograde		16359 Oct 01 20:28	16°♄18'16		
asc. node	16354 Oct 07 00:42	0°♌44'29		opposition		16359 Nov 11 10:43	6°♄42'47	-4°52'40	
	16354 Nov 15 04:41	0°♌		greatest brilliancy		16359 Nov 11 14:38	6°♄38'57	-1.2m	
	16354 Dec 24 07:40	0°♌		min. Earth dist.		16359 Nov 12 14:46	6°♄15'12	0.68596 AU	
	16355 Feb 01 06:09	0°♌				16359 Nov 30 07:56	30°♌		
	16355 Mar 13 07:55	0°♌		direct		16359 Dec 22 21:50	26°♌46'58		
	16355 Apr 25 23:51	0°♌				16360 Jan 16 06:05	0°♄		
	16355 Jun 22 13:47	0°♌				16360 Mar 25 10:06	0°♌		
retrograde	16355 Jul 24 13:18	6°♌11'36				16360 May 13 14:35	0°♌		
desc. node	16355 Aug 01 19:13	5°♌42'40		asc. node		16360 May 28 08:44	9°♌50'18		
	16355 Aug 23 19:13	30°♌				16360 Jun 26 05:33	0°♌		
min. Earth dist.	16355 Aug 26 16:40	28°♌54'48	0.57976 AU			16360 Aug 05 16:47	0°♌		
opposition	16355 Sep 02 03:21	26°♌24'51	-1°27'38			16360 Sep 13 07:23	0°♌		
greatest brilliancy	16355 Sep 01 17:54	26°♌34'01	-1.8m	evening set		16360 Oct 15 02:54	25°♌13'25		
direct	16355 Oct 09 06:48	18°♌01'44				16360 Oct 21 03:10	0°♌		
	16355 Nov 28 22:57	0°♌				16360 Nov 28 03:40	0°♌		
	16356 Jan 29 08:41	0°♌							
	16356 Mar 21 09:15	0°♄		conjunction		16360 Dec 26 12:42	21°♌53'41	0°52'09	
	16356 May 08 16:25	0°♌		minimum elong		16360 Dec 26 16:13	22°♌00'22	0°52'46	
evening set	16356 Jun 19 00:23	27°♌10'53				16361 Jan 06 05:42	0°♌		
	16356 Jun 23 04:20	0°♌		max. Earth dist.		16361 Feb 13 18:50	28°♌20'41	2.45073 AU	
max. Earth dist.	16356 Jul 04 15:51	7°♌50'55	2.52607 AU			16361 Feb 16 02:17	0°♌		
	16356 Aug 05 04:42	0°♌		morning rise		16361 Feb 27 07:33	7°♌58'05		
				desc. node		16361 Mar 23 10:38	24°♌42'34		
conjunction	16356 Aug 08 02:07	2°♌04'30	-0°10'32			16361 Mar 31 05:35	0°♌		
minimum elong	16356 Aug 08 02:43	2°♌05'35	0°10'53			16361 May 16 01:18	0°♌		
behind sun begin	16356 Aug 07 09:51	1°♌35'18				16361 Jul 04 08:55	0°♄		
behind sun end	16356 Aug 08 19:36	2°♌35'54				16361 Aug 29 19:32	0°♌		
asc. node	16356 Aug 23 16:41	13°♌23'54		retrograde		16361 Nov 06 11:15	19°♌38'44		
	16356 Sep 15 02:00	0°♌		opposition		16361 Dec 15 11:08	10°♌48'29	-4°25'45	
morning rise	16356 Oct 04 21:50	15°♌01'42		greatest brilliancy		16361 Dec 16 06:39	10°♌29'38	-1.4m	
	16356 Oct 24 07:59	0°♌		min. Earth dist.		16361 Dec 20 12:31	8°♌51'23	0.63670 AU	
	16356 Dec 01 14:58	0°♌		direct		16362 Jan 25 19:09	0°♌48'27		
	16357 Jan 08 19:08	0°♌		asc. node		16362 Apr 15 10:58	28°♌36'06		
	16357 Feb 16 19:59	0°♌				16362 Apr 17 21:44	0°♌		
	16357 Mar 29 22:05	0°♌				16362 Jun 03 22:07	0°♌		
	16357 May 13 21:18	0°♌				16362 Jul 15 08:43	0°♌		
desc. node	16357 Jun 18 21:54	20°♌51'33				16362 Aug 23 07:59	0°♌		
	16357 Jul 07 15:42	0°♌				16362 Sep 30 10:32	0°♌		
retrograde	16357 Aug 28 20:18	13°♌31'07				16362 Nov 07 20:28	0°♌		
min. Earth dist.	16357 Oct 05 22:48	4°♌37'53	0.66618 AU			16362 Dec 17 11:09	0°♌		
opposition	16357 Oct 08 16:24	3°♌32'57	-3°57'21	evening set		16362 Dec 27 14:38	7°♌29'00		
greatest brilliancy	16357 Oct 08 05:49	3°♌43'26	-1.3m			16363 Jan 27 21:10	0°♌		
	16357 Oct 17 23:10	30°♌		desc. node		16363 Feb 08 03:39	7°♌54'47		
direct	16357 Nov 17 17:40	24°♌08'40							
	16357 Dec 21 20:09	0°♌		conjunction		16363 Feb 22 11:50	17°♌50'18	-0°09'10	

minimum elong	16363 Feb 22 11:21	17° H 49'29	0°08'57	min. Earth dist.	16368 Jun 11 04:39	13° Z 19'08	0.39504 AU
behind sun begin	16363 Feb 21 16:51	17° H 17'44		opposition	16368 Jun 17 23:03	11° Z 16'00	6°01'46
behind sun end	16363 Feb 23 05:52	18° H 21'12		greatest brilliancy	16368 Jun 16 16:04	11° Z 39'39	-2.8m
	16363 Mar 12 09:17	0° Y		direct	16368 Jul 18 04:53	5° Z 47'44	
max. Earth dist.	16363 Mar 22 03:23	6° Y 32'04	2.58010 AU		16368 Sep 29 07:09	0° \approx	
morning rise	16363 Apr 13 06:46	21° Y 07'43		desc. node	16368 Sep 30 02:06	0° \approx 24'42	
	16363 Apr 26 23:20	0° B			16368 Nov 21 13:26	0° H	
	16363 Jun 13 13:13	0° II			16369 Jan 10 11:49	0° Y	
	16363 Aug 02 10:12	0° E			16369 Feb 28 11:30	0° B	
	16363 Sep 25 15:00	0° O			16369 Apr 17 17:01	0° II	
retrograde	16363 Dec 22 01:52	29° O 04'57		evening set	16369 Apr 29 14:18	7° II 29'15	
opposition	16364 Jan 26 16:31	21° O 35'21	-1°54'02	max. Earth dist.	16369 May 29 03:45	26° II 19'34	2.65581 AU
greatest brilliancy	16364 Jan 27 08:40	21° O 20'42	-2.0m		16369 Jun 03 20:35	0° E	
min. Earth dist.	16364 Feb 03 22:29	18° O 36'05	0.52311 AU				
asc. node	16364 Mar 02 16:39	12° O 31'01		conjunction	16369 Jun 12 09:12	5° E 31'13	-1°07'11
direct	16364 Mar 05 14:11	12° O 27'26		minimum elong	16369 Jun 12 10:11	5° E 32'49	1°07'51
	16364 May 01 07:05	0° M			16369 Jul 19 13:18	0° O	
	16364 Jun 18 06:40	0° A		morning rise	16369 Jul 27 08:24	5° O 13'41	
	16364 Jul 29 09:26	0° M			16369 Sep 01 13:42	0° M	
	16364 Sep 06 17:29	0° J			16369 Oct 13 20:53	0° A	
	16364 Oct 16 05:09	0° Z		asc. node	16369 Oct 23 19:42	7° A 13'44	
	16364 Nov 25 21:55	0° \approx			16369 Nov 23 15:07	0° M	
desc. node	16364 Dec 25 21:53	21° \approx 19'55			16370 Jan 02 08:07	0° J	
	16365 Jan 07 09:02	0° H			16370 Feb 10 22:44	0° Z	
evening set	16365 Feb 15 10:40	26° H 29'37			16370 Mar 24 04:34	0° \approx	
	16365 Feb 20 17:14	0° Y			16370 May 10 16:15	0° H	
				retrograde	16370 Jul 08 10:53	18° H 55'10	
conjunction	16365 Apr 04 02:15	27° Y 41'23	-0°54'05	min. Earth dist.	16370 Aug 08 06:37	12° H 26'16	0.53037 AU
minimum elong	16365 Apr 04 00:51	27° Y 39'08	0°54'19	opposition	16370 Aug 15 22:23	9° H 33'12	0°07'20
	16365 Apr 07 16:21	0° B		greatest brilliancy	16369 Mar 25 10:22	15° B 27'08	1.9m
max. Earth dist.	16365 Apr 15 13:48	5° B 04'04	2.66032 AU	desc. node	16370 Aug 18 07:27	8° H 39'47	
morning rise	16365 May 18 10:21	25° B 58'16		direct	16370 Sep 20 11:23	1° H 46'53	
	16365 May 24 19:27	0° II			16370 Dec 14 14:58	0° Y	
	16365 Jul 11 16:42	0° E			16371 Feb 07 10:36	0° B	
	16365 Aug 29 05:04	0° O			16371 Mar 29 20:21	0° II	
	16365 Oct 17 20:19	0° M			16371 May 16 15:28	0° E	
	16365 Dec 09 23:17	0° A		evening set	16371 Jun 04 14:13	12° E 19'11	
asc. node	16366 Jan 18 21:38	18° A 18'50		max. Earth dist.	16371 Jun 23 13:10	24° E 54'27	2.57248 AU
retrograde	16366 Feb 26 00:06	26° A 09'41			16371 Jul 01 02:33	0° O	
opposition	16366 Mar 28 07:53	20° A 53'45	4°36'15				
greatest brilliancy	16366 Mar 29 05:18	20° A 38'19	-2.8m	conjunction	16371 Jul 21 19:04	14° O 10'22	-0°32'19
min. Earth dist.	16366 Apr 03 06:53	19° A 10'58	0.38829 AU	minimum elong	16371 Jul 21 20:26	14° O 12'45	0°32'50
direct	16366 Apr 29 11:28	14° A 51'31			16371 Aug 13 07:52	0° M	
	16366 Jun 19 00:06	0° M		asc. node	16371 Sep 10 11:42	20° M 21'43	
	16366 Aug 07 05:45	0° J		morning rise	16371 Sep 12 02:13	21° M 32'30	
	16366 Sep 20 03:43	0° Z			16371 Sep 23 12:30	0° A	
	16366 Nov 02 20:18	0° \approx			16371 Nov 02 01:59	0° M	
desc. node	16366 Nov 12 21:10	6° \approx 48'35			16371 Dec 10 15:00	0° J	
	16366 Dec 17 13:06	0° H			16372 Jan 17 23:43	0° Z	
	16367 Feb 01 11:59	0° Y			16372 Feb 26 05:35	0° \approx	
	16367 Mar 20 10:14	0° B			16372 Apr 07 19:18	0° H	
evening set	16367 Mar 26 12:38	3° B 52'17			16372 May 24 12:42	0° Y	
	16367 May 06 18:38	0° II		desc. node	16372 Jul 05 11:14	21° Y 01'23	
max. Earth dist.	16367 May 07 15:07	0° II 32'26	2.68562 AU		16372 Aug 11 05:59	0° B	
				retrograde	16372 Aug 15 07:40	0° B 06'27	
conjunction	16367 May 09 12:57	1° II 45'01	-1°13'36		16372 Aug 19 07:56	30° R Y	
minimum elong	16367 May 09 12:33	1° II 44'23	1°14'09	min. Earth dist.	16372 Sep 20 15:20	21° Y 46'56	0.63994 AU
morning rise	16367 Jun 21 11:52	29° II 03'51		opposition	16372 Sep 24 20:52	20° Y 06'39	-3°13'02
	16367 Jun 22 23:00	0° E		greatest brilliancy	16372 Sep 24 07:40	20° Y 19'42	-1.5m
	16367 Aug 08 12:01	0° O		direct	16372 Nov 02 23:15	11° Y 01'50	
	16367 Sep 23 03:12	0° M			16373 Jan 09 10:13	0° B	
	16367 Nov 06 18:30	0° A			16373 Mar 07 18:33	0° II	
asc. node	16367 Dec 06 22:53	20° A 37'13			16373 Apr 26 13:07	0° E	
	16367 Dec 20 14:28	0° M			16373 Jun 11 09:55	0° O	
	16368 Feb 02 15:01	0° J		evening set	16373 Jul 16 10:19	24° O 20'11	
	16368 Mar 22 00:31	0° Z			16373 Jul 24 08:04	0° M	
retrograde	16368 May 16 05:00	17° Z 44'32		asc. node	16373 Jul 28 03:31	2° M 45'05	

max. Earth dist.	16373 Jul 29 23:32	4° \cap 04'49	2.44358 AU		16378 Mar 19 09:10	0° Υ	
	16373 Sep 02 22:30	0° Ω		morning rise	16378 Mar 28 08:30	6° Υ 01'44	
					16378 May 03 22:51	0° \mathcal{B}	
conjunction	16373 Sep 11 15:58	6° Ω 38'01	0°30'46		16378 Jun 20 23:10	0° Π	
minimum elong	16373 Sep 11 13:38	6° Ω 33'34	0°30'44		16378 Aug 11 08:53	0° \mathcal{E}	
	16373 Oct 11 20:56	0° \mathcal{M}			16378 Oct 10 21:39	0° Ω	
	16373 Nov 18 21:44	0° \mathcal{A}		retrograde	16378 Dec 02 15:40	12° Ω 41'19	
morning rise	16373 Nov 20 02:35	0° \mathcal{A} 57'09		opposition	16379 Jan 08 19:55	4° Ω 34'17	-3°13'45
	16373 Dec 26 21:40	0° \mathcal{Z}		greatest brilliancy	16379 Jan 09 18:02	4° Ω 13'32	-1.7m
	16374 Feb 03 18:42	0° \approx		min. Earth dist.	16379 Jan 16 00:42	1° Ω 52'13	0.57420 AU
	16374 Mar 16 11:37	0° \mathcal{H}			16379 Jan 21 06:47	30° $\mathcal{R}\mathcal{E}$	
	16374 Apr 29 03:29	0° Υ		direct	16379 Feb 18 01:12	24° \mathcal{E} 55'01	
desc. node	16374 May 23 11:13	15° Υ 30'43			16379 Mar 19 03:37	0° Ω	
	16374 Jun 16 21:35	0° \mathcal{B}		asc. node	16379 Mar 20 04:55	0° Ω 20'47	
	16374 Aug 22 18:04	0° Π			16379 May 17 13:28	0° \cap	
retrograde	16374 Sep 18 14:16	3° Π 56'28			16379 Jun 30 06:34	0° Ω	
	16374 Oct 13 10:23	30° $\mathcal{R}\mathcal{B}$			16379 Aug 09 02:53	0° \mathcal{M}	
opposition	16374 Oct 29 10:24	24° \mathcal{B} 09'19	-4°40'52		16379 Sep 16 18:25	0° \mathcal{A}	
greatest brilliancy	16374 Oct 29 07:49	24° \mathcal{B} 11'52	-1.2m		16379 Oct 25 16:28	0° \mathcal{Z}	
min. Earth dist.	16374 Oct 29 01:29	24° \mathcal{B} 18'07	0.68630 AU		16379 Dec 04 20:10	0° \approx	
direct	16374 Dec 09 12:12	14° \mathcal{B} 22'56		desc. node	16380 Jan 12 14:49	27° \approx 46'45	
	16375 Feb 06 23:33	0° Π			16380 Jan 15 18:58	0° \mathcal{H}	
	16375 Apr 05 00:31	0° \mathcal{E}		evening set	16380 Jan 29 15:43	9° \mathcal{H} 36'46	
	16375 May 22 15:25	0° Ω			16380 Feb 28 17:17	0° Υ	
asc. node	16375 Jun 15 00:02	15° Ω 54'50					
	16375 Jul 04 21:03	0° \cap		conjunction	16380 Mar 20 00:33	13° Υ 27'08	-0°39'40
	16375 Aug 14 06:56	0° Ω		minimum elong	16380 Mar 19 23:09	13° Υ 24'49	0°39'44
evening set	16375 Sep 15 10:08	24° Ω 53'07		max. Earth dist.	16380 Apr 06 06:08	24° Υ 41'51	2.63541 AU
	16375 Sep 21 22:13	0° \mathcal{M}			16380 Apr 14 10:56	0° \mathcal{B}	
	16375 Oct 29 18:05	0° \mathcal{A}		morning rise	16380 May 04 21:12	13° \mathcal{B} 05'03	
					16380 May 31 15:50	0° Π	
conjunction	16375 Nov 27 13:57	22° \mathcal{A} 49'50	1°07'16		16380 Jul 19 02:14	0° \mathcal{E}	
minimum elong	16375 Nov 27 15:41	22° \mathcal{A} 53'15	1°07'55		16380 Sep 07 00:52	0° Ω	
	16375 Dec 06 17:08	0° \mathcal{Z}			16380 Oct 30 08:53	0° \cap	
	16376 Jan 14 16:20	0° \approx			16381 Jan 15 20:46	0° Ω	
max. Earth dist.	16376 Jan 19 20:37	3° \approx 53'58	2.39394 AU	retrograde	16381 Jan 27 04:57	0° Ω 46'56	
morning rise	16376 Feb 05 14:41	16° \approx 20'52		asc. node	16381 Feb 04 11:29	0° Ω 20'53	
	16376 Feb 24 09:43	0° \mathcal{H}			16381 Feb 07 07:27	30° $\mathcal{R}\mathcal{M}$	
	16376 Apr 07 12:24	0° Υ		opposition	16381 Feb 28 19:07	24° \cap 35'17	1°33'12
desc. node	16376 Apr 09 05:24	1° Υ 09'01		greatest brilliancy	16381 Mar 01 06:29	24° \cap 26'03	-2.5m
	16376 May 23 16:02	0° \mathcal{B}		min. Earth dist.	16381 Mar 09 02:30	21° \cap 54'18	0.43593 AU
	16376 Jul 13 10:37	0° Π		direct	16381 Apr 05 02:58	17° \cap 03'49	
	16376 Sep 16 14:55	0° \mathcal{E}			16381 May 21 06:57	0° Ω	
retrograde	16376 Oct 22 14:03	6° \mathcal{E} 29'52			16381 Jul 09 15:08	0° \mathcal{M}	
	16376 Nov 24 07:27	30° $\mathcal{R}\mathcal{H}$			16381 Aug 20 19:12	0° \mathcal{A}	
opposition	16376 Dec 01 08:55	27° Π 18'54	-4°47'06		16381 Oct 01 00:23	0° \mathcal{Z}	
greatest brilliancy	16376 Dec 01 23:02	27° Π 05'08	-1.3m		16381 Nov 12 01:39	0° \approx	
min. Earth dist.	16376 Dec 04 22:03	25° Π 55'55	0.66411 AU	desc. node	16381 Nov 29 11:43	12° \approx 08'02	
direct	16377 Jan 11 22:52	17° Π 16'26			16381 Dec 25 15:08	0° \mathcal{H}	
	16377 Mar 04 00:33	0° \mathcal{E}			16382 Feb 08 19:12	0° Υ	
	16377 Apr 28 18:18	0° Ω		evening set	16382 Mar 12 02:41	20° Υ 17'34	
asc. node	16377 May 02 01:14	2° Ω 03'02			16382 Mar 27 06:02	0° \mathcal{B}	
	16377 Jun 12 20:06	0° \cap					
	16377 Jul 23 17:25	0° Ω		conjunction	16382 Apr 26 01:44	18° \mathcal{B} 59'16	-1°09'05
	16377 Aug 31 11:24	0° \mathcal{M}		minimum elong	16382 Apr 26 00:51	18° \mathcal{B} 57'51	1°09'31
	16377 Oct 08 09:49	0° \mathcal{A}		max. Earth dist.	16382 Apr 29 06:58	21° \mathcal{B} 01'44	2.68234 AU
	16377 Nov 15 14:37	0° \mathcal{Z}			16382 May 13 10:38	0° Π	
evening set	16377 Dec 01 20:20	12° \mathcal{Z} 31'13		morning rise	16382 Jun 08 04:04	16° Π 17'17	
	16377 Dec 24 22:56	0° \approx			16382 Jun 29 19:25	0° \mathcal{E}	
					16382 Aug 15 22:36	0° Ω	
conjunction	16378 Feb 02 16:37	29° \approx 00'17	0°14'23		16382 Oct 01 16:24	0° \cap	
minimum elong	16378 Feb 02 17:35	29° \approx 02'00	0°14'46		16382 Nov 17 03:48	0° Ω	
behind sun begin	16378 Feb 02 08:28	28° \approx 45'46		asc. node	16382 Dec 23 15:15	23° Ω 21'42	
behind sun end	16378 Feb 03 02:42	29° \approx 18'14			16383 Jan 03 04:35	0° \mathcal{M}	
	16378 Feb 04 02:10	0° \mathcal{H}			16383 Feb 24 02:17	0° \mathcal{A}	
desc. node	16378 Feb 24 20:43	14° \mathcal{H} 35'21		retrograde	16383 Apr 18 15:13	15° \mathcal{A} 49'51	
max. Earth dist.	16378 Mar 10 07:38	23° \mathcal{H} 50'50	2.53460 AU	min. Earth dist.	16383 May 16 01:09	11° \mathcal{A} 22'34	0.36581 AU

opposition	16383 May 18 12:57	10° ♁ 42'37	7°27'59	asc. node	16388 Aug 13 21:49	9° ♁ 43'02	
greatest brilliancy	16383 May 17 23:15	10° ♁ 51'46	-3.0m				
direct	16383 Jun 16 11:46	5° ♁ 53'43		conjunction	16388 Aug 19 13:33	13° ♁ 51'19	0°03'54
	16383 Aug 25 22:42	0° ♁		minimum elong	16388 Aug 19 13:19	13° ♁ 50'52	0°03'39
	16383 Oct 15 18:59	0° ♁		behind sun begin	16388 Aug 18 14:06	13° ♁ 08'19	
desc. node	16383 Oct 17 13:29	1° ♁ 05'33		behind sun end	16388 Aug 20 12:32	14° ♁ 33'28	
	16383 Dec 02 20:09	0° ♁			16388 Sep 10 06:39	0° ♁	
	16384 Jan 19 16:21	0° ♁			16388 Oct 19 10:09	0° ♁	
	16384 Mar 07 15:47	0° ♁		morning rise	16388 Oct 20 05:40	0° ♁ 37'59	
evening set	16384 Apr 16 03:18	24° ♁ 45'28			16388 Nov 26 14:42	0° ♁	
	16384 Apr 24 10:51	0° ♁			16389 Jan 03 16:38	0° ♁	
max. Earth dist.	16384 May 20 06:02	16° ♁ 21'28	2.67403 AU		16389 Feb 11 14:58	0° ♁	
					16389 Mar 24 11:34	0° ♁	
conjunction	16384 May 29 15:16	22° ♁ 21'06	-1°12'52		16389 May 07 18:21	0° ♁	
minimum elong	16384 May 29 15:44	22° ♁ 21'51	1°13'30	desc. node	16389 Jun 09 02:07	19° ♁ 37'50	
	16384 Jun 10 13:15	0° ♁			16389 Jun 28 06:02	0° ♁	
morning rise	16384 Jul 12 08:19	20° ♁ 39'45		retrograde	16389 Sep 05 10:55	21° ♁ 23'49	
	16384 Jul 26 12:08	0° ♁		min. Earth dist.	16389 Oct 14 10:26	12° ♁ 13'33	0.67622 AU
	16384 Sep 09 00:58	0° ♁		opposition	16389 Oct 16 08:01	11° ♁ 28'25	-4°17'18
	16384 Oct 22 01:06	0° ♁		greatest brilliancy	16389 Oct 15 23:49	11° ♁ 36'32	-1.3m
asc. node	16384 Nov 09 12:14	13° ♁ 12'12		direct	16389 Nov 25 19:09	1° ♁ 55'14	
	16384 Dec 02 15:25	0° ♁			16390 Feb 19 15:59	0° ♁	
	16385 Jan 12 07:16	0° ♁			16390 Apr 13 12:59	0° ♁	
	16385 Feb 22 05:01	0° ♁			16390 May 30 05:56	0° ♁	
	16385 Apr 07 07:28	0° ♁		asc. node	16390 Jul 01 15:31	22° ♁ 22'55	
retrograde	16385 Jun 20 05:52	28° ♁ 37'34			16390 Jul 12 07:07	0° ♁	
min. Earth dist.	16385 Jul 18 15:20	23° ♁ 02'28	0.47505 AU	evening set	16390 Aug 19 11:28	28° ♁ 16'21	
greatest brilliancy	16385 Jul 26 09:37	20° ♁ 16'38	-2.3m		16390 Aug 21 18:04	0° ♁	
opposition	16385 Jul 27 01:04	20° ♁ 02'49	2°10'39	max. Earth dist.	16390 Sep 28 19:46	29° ♁ 28'43	2.36503 AU
direct	16385 Aug 29 15:14	13° ♁ 04'23			16390 Sep 29 11:41	0° ♁	
desc. node	16385 Sep 03 19:54	13° ♁ 14'37					
	16385 Oct 29 07:05	0° ♁		conjunction	16390 Oct 26 11:25	21° ♁ 20'43	1°04'56
	16385 Dec 26 00:36	0° ♁		minimum elong	16390 Oct 26 08:41	21° ♁ 15'18	1°05'24
	16386 Feb 15 16:06	0° ♁			16390 Nov 06 08:52	0° ♁	
	16386 Apr 05 24:00	0° ♁			16390 Dec 14 07:20	0° ♁	
evening set	16386 May 21 04:34	28° ♁ 32'12		morning rise	16391 Jan 09 08:35	20° ♁ 13'26	
	16386 May 23 11:04	0° ♁			16391 Jan 22 04:22	0° ♁	
max. Earth dist.	16386 Jun 13 01:28	13° ♁ 25'05	2.61112 AU		16391 Mar 03 19:36	0° ♁	
					16391 Apr 15 23:37	0° ♁	
conjunction	16386 Jul 05 12:33	28° ♁ 21'22	-0°49'27	desc. node	16391 Apr 26 22:19	7° ♁ 16'20	
minimum elong	16386 Jul 05 14:03	28° ♁ 23'52	0°50'02		16391 Jun 01 17:09	0° ♁	
	16386 Jul 07 23:09	0° ♁			16391 Jul 25 00:46	0° ♁	
	16386 Aug 20 10:48	0° ♁		retrograde	16391 Oct 09 14:10	23° ♁ 53'13	
morning rise	16386 Aug 23 01:08	1° ♁ 50'12		opposition	16391 Nov 18 22:44	14° ♁ 25'26	-4°54'25
asc. node	16386 Sep 27 05:28	27° ♁ 13'01		greatest brilliancy	16391 Nov 19 06:24	14° ♁ 17'55	-1.2m
	16386 Oct 01 00:13	0° ♁		min. Earth dist.	16391 Nov 20 23:06	13° ♁ 37'56	0.68104 AU
	16386 Nov 09 23:00	0° ♁		direct	16391 Dec 30 12:14	4° ♁ 25'56	
	16386 Dec 18 20:23	0° ♁			16392 Mar 18 04:59	0° ♁	
	16387 Jan 26 12:41	0° ♁			16392 May 08 00:11	0° ♁	
	16387 Mar 07 04:39	0° ♁		asc. node	16392 May 18 15:09	6° ♁ 56'42	
	16387 Apr 18 18:10	0° ♁			16392 Jun 21 01:43	0° ♁	
	16387 Jun 08 15:04	0° ♁			16392 Jul 31 16:05	0° ♁	
desc. node	16387 Jul 23 01:46	14° ♁ 56'33			16392 Sep 08 07:47	0° ♁	
retrograde	16387 Aug 02 02:31	15° ♁ 36'08			16392 Oct 16 04:15	0° ♁	
min. Earth dist.	16387 Sep 05 10:25	7° ♁ 55'16	0.60373 AU	greatest brilliancy	16392 Nov 01 11:25	12° ♁ 54'32	1.1m
opposition	16387 Sep 11 02:36	5° ♁ 41'56	-2°12'08	evening set	16392 Nov 02 00:52	13° ♁ 21'06	
greatest brilliancy	16387 Sep 10 14:16	5° ♁ 54'02	-1.6m		16392 Nov 23 05:46	0° ♁	
	16387 Sep 27 13:39	30° ♁			16393 Jan 01 09:25	0° ♁	
direct	16387 Oct 18 23:58	27° ♁ 02'12					
	16387 Nov 11 08:28	0° ♁		conjunction	16393 Jan 10 12:15	6° ♁ 48'50	0°39'10
	16388 Jan 22 13:48	0° ♁		minimum elong	16393 Jan 10 15:06	6° ♁ 54'07	0°39'42
	16388 Mar 16 01:14	0° ♁			16393 Feb 11 07:25	0° ♁	
	16388 May 03 19:55	0° ♁		max. Earth dist.	16393 Feb 23 22:30	8° ♁ 57'15	2.48223 AU
	16388 Jun 18 11:13	0° ♁		morning rise	16393 Mar 10 13:02	19° ♁ 07'54	
evening set	16388 Jun 28 09:18	6° ♁ 46'06		desc. node	16393 Mar 13 14:56	21° ♁ 15'13	
max. Earth dist.	16388 Jul 12 15:27	16° ♁ 39'21	2.49810 AU		16393 Mar 26 10:44	0° ♁	
	16388 Jul 31 11:26	0° ♁			16393 May 11 02:24	0° ♁	

	16393 Jun 28 18:56	0°♂	desc. node	16398 Nov 03 03:34	4°≈28'23	
	16393 Aug 21 17:15	0°♂		16398 Dec 11 23:09	0°♂	
retrograde	16393 Nov 15 11:19	27°♂58'12		16399 Jan 27 10:41	0°♂	
opposition	16393 Dec 23 21:30	19°♂21'28 -4°05'25		16399 Mar 15 16:08	0°♂	
greatest brilliancy	16393 Dec 24 19:01	19°♂00'51 -1.5m	evening set	16399 Apr 03 11:44	11°♂53'11	
min. Earth dist.	16393 Dec 29 17:52	17°♂06'57 0.61723 AU		16399 May 02 03:35	0°♂	
direct	16394 Feb 02 22:24	9°♂25'42	max. Earth dist.	16399 May 12 14:37	6°♂37'38 2.68381 AU	
asc. node	16394 Apr 05 19:13	28°♂05'23				
	16394 Apr 09 11:35	0°♂	conjunction	16399 May 17 04:35	9°♂32'02 -1°14'31	
	16394 May 28 17:58	0°♂	minimum elong	16399 May 17 04:30	9°♂31'55 1°15'05	
	16394 Jul 09 18:39	0°♂		16399 Jun 18 06:49	0°♂	
	16394 Aug 17 23:36	0°♂	morning rise	16399 Jun 29 06:26	7°♂03'27	
	16394 Sep 25 05:28	0°♂		16399 Aug 03 14:24	0°♂	
	16394 Nov 02 18:18	0°♂		16399 Sep 17 19:19	0°♂	
	16394 Dec 12 12:18	0°≈		16399 Oct 31 18:21	0°♂	
evening set	16395 Jan 09 11:54	20°≈21'39	asc. node	16399 Nov 27 05:13	18°♂27'01	
	16395 Jan 23 01:35	0°♂		16399 Dec 13 14:23	0°♂	
desc. node	16395 Jan 29 06:33	4°♂21'32		16400 Jan 24 22:18	0°♂	
				16400 Mar 08 20:13	0°♂	
conjunction	16395 Mar 04 15:54	27°♂58'25 -0°21'26		16400 May 05 07:40	0°≈	
minimum elong	16395 Mar 04 14:54	27°♂56'45 0°21'21	retrograde	16400 May 30 00:10	4°≈13'17	
	16395 Mar 07 16:10	0°♂		16400 Jun 23 18:40	30°♂♂	
max. Earth dist.	16395 Mar 28 07:42	13°♂44'31 2.60226 AU	min. Earth dist.	16400 Jun 25 10:31	29°♂29'01 0.42085 AU	
morning rise	16395 Apr 21 18:32	29°♂40'59	greatest brilliancy	16400 Jul 02 04:54	27°♂17'21 -2.6m	
	16395 Apr 22 06:20	0°♂	opposition	16400 Jul 03 10:09	26°♂53'31 4°38'31	
	16395 Jun 08 15:31	0°♂	direct	16400 Aug 03 18:16	20°♂52'43	
	16395 Jul 27 20:47	0°♂		16400 Sep 14 01:56	0°≈	
	16395 Sep 18 00:51	0°♂	desc. node	16400 Sep 20 08:14	2°≈31'24	
	16395 Nov 19 05:27	0°♂		16400 Nov 13 20:51	0°♂	
retrograde	16396 Jan 03 08:23	9°♂54'22		16401 Jan 04 15:17	0°♂	
opposition	16396 Feb 06 23:04	2°♂49'26 -0°51'19		16401 Feb 23 09:23	0°♂	
greatest brilliancy	16396 Feb 07 07:06	2°♂42'21 -2.2m		16401 Apr 12 23:08	0°♂	
	16396 Feb 14 23:27	30°♂♂	evening set	16401 May 07 08:41	15°♂22'27	
min. Earth dist.	16396 Feb 15 12:27	29°♂48'53 0.49253 AU		16401 May 30 05:02	0°♂	
asc. node	16396 Feb 22 00:05	27°♂44'14	max. Earth dist.	16401 Jun 03 12:11	2°♂46'40 2.64207 AU	
direct	16396 Mar 15 19:29	24°♂08'06				
	16396 Apr 15 04:16	0°♂	conjunction	16401 Jun 20 13:00	13°♂53'02 -1°01'58	
	16396 Jun 10 02:45	0°♂	minimum elong	16401 Jun 20 14:14	13°♂55'04 1°02'36	
	16396 Jul 22 16:15	0°♂		16401 Jul 14 20:08	0°♂	
	16396 Aug 31 15:55	0°♂	morning rise	16401 Aug 05 12:33	14°♂40'59	
	16396 Oct 10 13:46	0°♂		16401 Aug 27 16:10	0°♂	
	16396 Nov 20 14:55	0°≈		16401 Oct 08 16:59	0°♂	
desc. node	16396 Dec 16 02:15	18°≈01'45	asc. node	16401 Oct 13 23:25	3°♂50'49	
	16397 Jan 02 09:01	0°♂		16401 Nov 18 03:56	0°♂	
	16397 Feb 15 22:32	0°♂		16401 Dec 27 13:01	0°♂	
evening set	16397 Feb 24 18:46	5°♂49'30		16402 Feb 04 17:16	0°♂	
	16397 Apr 03 00:37	0°♂		16402 Mar 17 03:45	0°≈	
				16402 Apr 30 20:25	0°♂	
conjunction	16397 Apr 12 06:48	5°♂56'06 -1°00'47	retrograde	16402 Jul 17 19:34	29°♂31'09	
minimum elong	16397 Apr 12 05:32	5°♂54'05 1°01'06	desc. node	16402 Aug 08 14:01	26°♂08'12	
max. Earth dist.	16397 Apr 20 18:24	11°♂21'13 2.67053 AU	min. Earth dist.	16402 Aug 18 22:37	22°♂34'47 0.55849 AU	
	16397 May 20 03:25	0°♂	opposition	16402 Aug 25 22:52	19°♂53'15 -0°50'55	
morning rise	16397 May 26 00:33	3°♂42'57	greatest brilliancy	16402 Aug 25 16:47	19°♂59'06 -1.9m	
	16397 Jul 06 19:04	0°♂	direct	16402 Oct 01 09:12	11°♂45'32	
	16397 Aug 23 17:19	0°♂		16402 Dec 05 10:09	0°♂	
	16397 Oct 11 01:27	0°♂		16403 Feb 01 10:55	0°♂	
	16397 Nov 29 18:31	0°♂		16403 Mar 24 18:27	0°♂	
asc. node	16398 Jan 09 04:28	22°♂23'21		16403 May 11 21:16	0°♂	
	16398 Jan 24 23:52	0°♂	evening set	16403 Jun 13 05:15	21°♂08'10	
retrograde	16398 Mar 16 09:57	13°♂17'23		16403 Jun 26 09:54	0°♂	
opposition	16398 Apr 15 00:32	8°♂22'18 6°14'16	max. Earth dist.	16403 Jun 30 06:15	2°♂36'41 2.54755 AU	
greatest brilliancy	16398 Apr 15 15:43	8°♂11'57 -3.0m				
min. Earth dist.	16398 Apr 18 08:15	7°♂28'01 0.37105 AU	conjunction	16403 Jul 31 21:17	24°♂32'40 -0°20'18	
direct	16398 May 15 11:48	3°♂03'59	minimum elong	16403 Jul 31 22:19	24°♂34'29 0°20'43	
	16398 Jul 26 22:09	0°♂		16403 Aug 08 13:41	0°♂	
	16398 Sep 12 05:25	0°♂	asc. node	16403 Aug 31 15:26	16°♂41'15	
	16398 Oct 27 09:38	0°≈		16403 Sep 18 15:05	0°♂	

morning rise	16403 Sep 25 00:22	4° Ω 47'18		greatest brilliancy	16408 Dec 10 00:51	5° Ω 08'34	-1.4m
	16403 Oct 28 01:04	0° \mathbb{L}		min. Earth dist.	16408 Dec 13 16:31	3° Ω 43'29	0.65023 AU
	16403 Dec 05 10:59	0° \mathcal{A}			16408 Dec 23 22:51	30° \mathbb{R} II	
	16404 Jan 12 16:42	0° \mathcal{Z}		direct	16409 Jan 19 18:33	25° \mathbb{I} 23'23	
	16404 Feb 20 18:39	0° \approx			16409 Feb 17 12:48	0° Ω	
	16404 Apr 01 23:22	0° \mathcal{H}		asc. node	16409 Apr 22 07:47	0° Ω 10'02	
	16404 May 17 10:05	0° \mathcal{Y}			16409 Apr 22 01:03	0° Ω	
desc. node	16404 Jun 25 17:37	21° \mathcal{Y} 46'23			16409 Jun 07 04:49	0° \mathbb{M}	
	16404 Jul 14 16:26	0° \mathcal{B}			16409 Jul 18 10:17	0° Ω	
retrograde	16404 Aug 23 02:44	8° \mathcal{B} 22'07			16409 Aug 26 07:40	0° \mathbb{L}	
	16404 Sep 28 17:25	30° \mathbb{R} \mathcal{Y}			16409 Oct 03 08:22	0° \mathcal{A}	
min. Earth dist.	16404 Sep 29 10:12	29° \mathcal{Y} 43'29	0.65570 AU		16409 Nov 10 15:20	0° \mathcal{Z}	
opposition	16404 Oct 02 20:02	28° \mathcal{Y} 22'27	-3°41'03	evening set	16409 Dec 16 20:41	27° \mathcal{Z} 35'34	
greatest brilliancy	16404 Oct 02 07:52	28° \mathcal{Y} 34'31	-1.4m		16409 Dec 20 02:05	0° \approx	
direct	16404 Nov 11 11:28	19° \mathcal{Y} 06'26			16410 Jan 30 07:43	0° \mathcal{H}	
	16404 Dec 29 23:31	0° \mathcal{B}					
	16405 Mar 01 17:57	0° \mathbb{I}		conjunction	16410 Feb 14 05:54	10° \mathcal{H} 30'07	0°00'32
	16405 Apr 21 10:38	0° Ω		minimum elong	16410 Feb 14 05:53	10° \mathcal{H} 30'07	0°00'49
	16405 Jun 06 14:16	0° Ω		behind sun begin	16410 Feb 13 07:08	9° \mathcal{H} 50'26	
asc. node	16405 Jul 18 09:39	29° Ω 09'15		behind sun end	16410 Feb 15 04:39	11° \mathcal{H} 09'44	
	16405 Jul 19 13:52	0° \mathbb{M}		desc. node	16410 Feb 15 01:03	11° \mathcal{H} 03'29	
evening set	16405 Jul 27 17:14	5° \mathbb{M} 53'50			16410 Mar 14 15:55	0° \mathcal{Y}	
max. Earth dist.	16405 Aug 12 06:41	17° \mathbb{M} 20'45	2.41262 AU	max. Earth dist.	16410 Mar 17 09:05	1° \mathcal{Y} 49'48	2.56057 AU
	16405 Aug 29 03:14	0° Ω		morning rise	16410 Apr 06 14:18	15° \mathcal{Y} 17'35	
					16410 Apr 29 04:15	0° \mathcal{B}	
conjunction	16405 Sep 26 13:22	21° Ω 50'45	0°45'37		16410 Jun 15 20:49	0° \mathbb{I}	
minimum elong	16405 Sep 26 09:56	21° Ω 44'04	0°45'45		16410 Aug 05 06:07	0° Ω	
	16405 Oct 06 23:55	0° \mathbb{L}			16410 Sep 30 09:05	0° Ω	
	16405 Nov 13 23:09	0° \mathcal{A}		retrograde	16410 Dec 13 07:34	22° Ω 13'44	
morning rise	16405 Dec 08 17:03	19° \mathcal{A} 36'20		opposition	16411 Jan 18 15:42	14° Ω 26'08	-2°31'37
	16405 Dec 21 21:54	0° \mathcal{Z}		greatest brilliancy	16411 Jan 19 11:18	14° Ω 08'00	-1.9m
	16406 Jan 29 17:58	0° \approx		min. Earth dist.	16411 Jan 26 11:16	11° Ω 33'03	0.54685 AU
	16406 Mar 11 08:54	0° \mathcal{H}		direct	16411 Feb 27 04:45	5° Ω 01'46	
	16406 Apr 23 17:50	0° \mathcal{Y}		asc. node	16411 Mar 10 13:05	5° Ω 53'20	
desc. node	16406 May 13 14:44	12° \mathcal{Y} 55'19			16411 May 08 23:06	0° \mathbb{M}	
	16406 Jun 10 11:25	0° \mathcal{B}			16411 Jun 23 16:10	0° Ω	
	16406 Aug 08 02:31	0° \mathbb{I}			16411 Aug 03 03:47	0° \mathbb{L}	
retrograde	16406 Sep 26 04:05	11° \mathbb{I} 31'45			16411 Sep 11 03:34	0° \mathcal{A}	
opposition	16406 Nov 05 21:03	1° \mathbb{I} 50'35	-4°49'21		16411 Oct 20 07:53	0° \mathcal{Z}	
greatest brilliancy	16406 Nov 05 21:59	1° \mathbb{I} 49'39	-1.2m		16411 Nov 29 17:20	0° \approx	
min. Earth dist.	16406 Nov 06 08:21	1° \mathbb{I} 39'26	0.68748 AU	desc. node	16412 Jan 02 19:08	24° \approx 20'39	
	16406 Nov 10 13:46	30° \mathbb{R} \mathcal{B}			16412 Jan 10 21:32	0° \mathcal{H}	
direct	16406 Dec 17 04:06	21° \mathcal{B} 58'36		evening set	16412 Feb 08 23:43	19° \mathcal{H} 55'53	
	16407 Jan 26 11:40	0° \mathbb{I}			16412 Feb 23 23:53	0° \mathcal{Y}	
	16407 Mar 29 20:14	0° Ω					
	16407 May 17 09:15	0° Ω		conjunction	16412 Mar 28 17:43	22° \mathcal{Y} 11'19	-0°48'34
asc. node	16407 Jun 05 06:34	12° Ω 42'03		minimum elong	16412 Mar 28 16:16	22° \mathcal{Y} 08'58	0°48'45
	16407 Jun 29 21:44	0° \mathbb{M}			16412 Apr 09 19:28	0° \mathcal{B}	
	16407 Aug 09 09:25	0° Ω		max. Earth dist.	16412 Apr 11 15:57	1° \mathcal{B} 11'40	2.65022 AU
	16407 Sep 17 00:57	0° \mathbb{L}		morning rise	16412 May 12 16:06	20° \mathcal{B} 59'33	
evening set	16407 Oct 02 06:53	12° \mathbb{L} 03'28			16412 May 26 22:24	0° \mathbb{I}	
	16407 Oct 24 20:50	0° \mathcal{A}			16412 Jul 14 00:19	0° Ω	
	16407 Dec 01 20:03	0° \mathcal{Z}			16412 Sep 01 01:40	0° Ω	
					16412 Oct 21 23:59	0° \mathbb{M}	
conjunction	16407 Dec 14 21:21	10° \mathcal{Z} 09'49	1°00'20		16412 Dec 18 13:01	0° Ω	
minimum elong	16407 Dec 15 00:43	10° \mathcal{Z} 16'20	1°00'59	asc. node	16413 Jan 25 18:38	13° Ω 04'35	
	16408 Jan 09 19:44	0° \approx		retrograde	16413 Feb 12 07:43	14° Ω 53'45	
max. Earth dist.	16408 Feb 05 06:41	19° \approx 39'25	2.42495 AU	opposition	16413 Mar 15 14:43	9° Ω 13'56	3°14'46
morning rise	16408 Feb 18 22:26	29° \approx 33'01		greatest brilliancy	16413 Mar 16 10:25	8° Ω 58'55	-2.7m
	16408 Feb 19 13:29	0° \mathcal{H}		min. Earth dist.	16413 Mar 22 23:39	6° Ω 59'45	0.40772 AU
desc. node	16408 Mar 30 07:50	27° \mathcal{H} 46'31		direct	16413 Apr 18 06:00	2° Ω 30'54	
	16408 Apr 02 14:36	0° \mathcal{Y}			16413 Jun 29 02:36	0° \mathbb{L}	
	16408 May 18 11:29	0° \mathcal{B}			16413 Aug 13 00:18	0° \mathcal{A}	
	16408 Jul 07 05:38	0° \mathbb{I}			16413 Sep 24 10:45	0° \mathcal{Z}	
	16408 Sep 04 00:23	0° Ω			16413 Nov 06 06:09	0° \approx	
retrograde	16408 Oct 30 22:53	14° Ω 25'26		desc. node	16413 Nov 19 16:50	9° \approx 15'03	
opposition	16408 Dec 09 07:33	5° Ω 25'22	-4°36'28		16413 Dec 20 08:34	0° \mathcal{H}	

	16414 Feb 03 21:27	0°♄			16418 Sep 26 02:17	0°♎		
evening set	16414 Mar 20 09:59	28°♄37'31			16418 Nov 04 20:24	0°♎		
	16414 Mar 22 13:43	0°♄			16418 Dec 13 13:14	0°♄		
					16419 Jan 21 00:33	0°♄		
conjunction	16414 May 03 18:57	26°♄48'14 -1°12'15			16419 Mar 01 08:59	0°♄		
minimum elong	16414 May 03 18:20	26°♄47'17 1°12'45			16419 Apr 12 05:04	0°♄		
max. Earth dist.	16414 May 04 04:41	27°♄03'39 2.68518 AU			16419 May 30 00:55	0°♄		
	16414 May 08 20:02	0°♄		desc. node	16419 Jul 13 06:19	19°♄53'58		
morning rise	16414 Jun 15 17:57	24°♄03'15		retrograde	16419 Aug 10 08:10	24°♄33'42		
	16414 Jun 25 02:07	0°♄		min. Earth dist.	16419 Sep 14 18:58	16°♄30'47 0.62502 AU		
	16414 Aug 10 21:19	0°♄		opposition	16419 Sep 19 16:20	14°♄35'07 -2°50'15		
	16414 Sep 25 23:40	0°♄		greatest brilliancy	16419 Sep 19 02:48	14°♄48'28 -1.5m		
	16414 Nov 10 08:20	0°♄		direct	16419 Oct 28 06:26	5°♄40'51		
asc. node	16414 Dec 13 20:17	22°♄21'19			16420 Jan 14 23:13	0°♄		
	16414 Dec 25 07:40	0°♄			16420 Mar 10 12:15	0°♄		
	16415 Feb 09 11:41	0°♄			16420 Apr 28 21:20	0°♄		
	16415 Apr 08 21:25	0°♄			16420 Jun 13 17:07	0°♄		
retrograde	16415 May 05 08:16	4°♄39'40		evening set	16420 Jul 08 07:43	16°♄56'38		
min. Earth dist.	16415 May 31 13:04	0°♄20'58 0.37851 AU		max. Earth dist.	16420 Jul 21 20:13	26°♄30'10 2.46839 AU		
	16415 Jun 01 18:45	30°♄♄			16420 Jul 26 17:32	0°♄		
opposition	16415 Jun 05 17:22	28°♄52'15 6°54'29		asc. node	16420 Aug 04 02:20	6°♄02'21		
greatest brilliancy	16415 Jun 04 14:54	29°♄11'14 -2.9m						
direct	16415 Jul 05 05:41	23°♄46'48		conjunction	16420 Sep 01 01:58	26°♄42'04 0°19'08		
	16415 Aug 06 17:24	0°♄		minimum elong	16420 Sep 01 00:36	26°♄39'29 0°19'01		
	16415 Oct 06 23:16	0°♄			16420 Sep 05 11:12	0°♄		
desc. node	16415 Oct 07 21:00	0°♄31'08			16420 Oct 14 12:34	0°♄		
	16415 Nov 26 09:24	0°♄		greatest brilliancy	16420 Oct 26 04:04	9°♄06'58 1.1m		
	16416 Jan 14 06:28	0°♄		morning rise	16420 Nov 06 01:13	17°♄40'56		
	16416 Mar 02 18:28	0°♄			16420 Nov 21 15:20	0°♄		
	16416 Apr 19 19:19	0°♄			16420 Dec 29 15:48	0°♄		
evening set	16416 Apr 23 19:32	2°♄31'31			16421 Feb 06 12:18	0°♄		
max. Earth dist.	16416 May 25 07:58	22°♄32'24 2.66500 AU			16421 Mar 19 05:01	0°♄		
	16416 Jun 05 22:42	0°♄			16421 May 01 23:47	0°♄		
				desc. node	16421 May 30 06:53	17°♄46'14		
conjunction	16416 Jun 06 09:54	0°♄18'03 -1°10'07			16421 Jun 20 12:10	0°♄		
minimum elong	16416 Jun 06 10:42	0°♄19'20 1°10'45		retrograde	16421 Sep 12 23:58	29°♄08'24		
morning rise	16416 Jul 20 17:42	29°♄18'14		opposition	16421 Oct 23 20:41	19°♄17'00 -4°32'54		
	16416 Jul 21 18:48	0°♄		min. Earth dist.	16421 Oct 22 19:07	19°♄42'19 0.68310 AU		
	16416 Sep 04 01:17	0°♄		greatest brilliancy	16421 Oct 23 15:24	19°♄22'14 -1.2m		
	16416 Oct 16 16:19	0°♄		direct	16421 Dec 03 16:19	9°♄36'10		
asc. node	16416 Oct 30 17:45	10°♄08'46			16422 Feb 11 19:11	0°♄		
	16416 Nov 26 19:13	0°♄			16422 Apr 07 22:00	0°♄		
	16417 Jan 05 21:22	0°♄			16422 May 25 04:50	0°♄		
	16417 Feb 14 22:31	0°♄		asc. node	16422 Jun 21 21:43	18°♄58'17		
	16417 Mar 29 00:30	0°♄			16422 Jul 07 10:01	0°♄		
	16417 May 19 04:46	0°♄			16422 Aug 16 21:28	0°♄		
retrograde	16417 Jun 30 21:27	11°♄03'17		evening set	16422 Sep 03 02:03	13°♄11'52		
min. Earth dist.	16417 Jul 30 15:22	4°♄57'26 0.50618 AU			16422 Sep 24 14:21	0°♄		
opposition	16417 Aug 07 16:41	1°♄58'59 0°56'09			16422 Nov 01 10:58	0°♄		
greatest brilliancy	16417 Aug 07 10:07	2°♄05'04 -2.2m						
	16417 Aug 13 04:46	30°♄♄		conjunction	16422 Nov 13 12:14	9°♄34'24 1°08'46		
desc. node	16417 Aug 25 02:36	26°♄31'02		minimum elong	16422 Nov 13 11:58	9°♄33'53 1°09'21		
direct	16417 Sep 11 09:37	24°♄32'27			16422 Dec 09 09:20	0°♄		
	16417 Oct 13 04:07	0°♄		max. Earth dist.	16422 Dec 29 02:33	15°♄20'38 2.37131 AU		
	16417 Dec 18 21:01	0°♄			16423 Jan 17 06:34	0°♄		
	16418 Feb 10 04:07	0°♄		morning rise	16423 Jan 25 07:24	6°♄03'11		
	16418 Apr 01 02:36	0°♄			16423 Feb 26 21:38	0°♄		
	16418 May 18 18:53	0°♄			16423 Apr 10 22:50	0°♄		
evening set	16418 May 29 06:47	6°♄47'26		desc. node	16423 Apr 17 02:26	4°♄07'35		
max. Earth dist.	16418 Jun 19 00:18	20°♄25'15 2.59078 AU			16423 May 27 05:31	0°♄		
	16418 Jul 03 07:32	0°♄			16423 Jul 17 18:04	0°♄		
					16423 Sep 30 17:11	0°♄		
conjunction	16418 Jul 14 13:06	7°♄37'42 -0°40'09		retrograde	16423 Oct 17 12:34	1°♄34'26		
minimum elong	16418 Jul 14 14:34	7°♄40'13 0°40'41			16423 Nov 02 08:40	30°♄♄		
	16418 Aug 15 16:48	0°♄		opposition	16423 Nov 26 13:35	22°♄15'29 -4°51'46		
morning rise	16418 Sep 02 23:24	13°♄04'44		greatest brilliancy	16423 Nov 27 00:53	22°♄04'25 -1.3m		
asc. node	16418 Sep 17 10:43	23°♄37'15		min. Earth dist.	16423 Nov 29 10:01	21°♄08'28 0.67299 AU		

direct	16424 Jan 07 03:27	12° Π 13'45	conjunction	16429 Apr 20 05:07	13° \mathcal{B} 56'22	-1°06'09
	16424 Mar 09 17:49	0° \mathcal{E}	minimum elong	16429 Apr 20 04:04	13° \mathcal{B} 54'41	1°06'33
	16424 May 02 02:20	0° Ω	max. Earth dist.	16429 Apr 25 18:49	17° \mathcal{B} 28'55	2.67814 AU
asc. node	16424 May 08 22:13	4° Ω 21'04		16429 May 15 12:28	0° Π	
	16424 Jun 15 18:40	0° \mathcal{M}	morning rise	16429 Jun 02 12:34	11° Π 23'12	
	16424 Jul 26 14:00	0° \mathcal{L}		16429 Jul 01 23:54	0° \mathcal{E}	
	16424 Sep 03 07:24	0° \mathcal{M}		16429 Aug 18 11:05	0° Ω	
	16424 Oct 11 04:55	0° \mathcal{X}		16429 Oct 04 20:05	0° \mathcal{M}	
	16424 Nov 18 07:37	0° \mathcal{Z}		16429 Nov 21 11:37	0° \mathcal{L}	
evening set	16424 Nov 19 05:15	0° \mathcal{Z} 42'05	asc. node	16429 Dec 30 12:15	23° \mathcal{L} 49'57	
	16424 Dec 27 12:41	0° \approx		16430 Jan 10 01:58	0° \mathcal{M}	
				16430 Mar 18 20:23	0° \mathcal{X}	
conjunction	16425 Jan 24 01:40	20° \approx 19'28	retrograde	16430 Apr 04 08:03	1° \mathcal{X} 44'37	
minimum elong	16425 Jan 24 03:26	20° \approx 22'41		16430 Apr 20 21:05	30° \mathcal{R} \mathcal{M}	
	16425 Feb 06 12:17	0° \mathcal{H}	opposition	16430 May 03 17:23	26° \mathcal{M} 53'03	7°17'23
desc. node	16425 Mar 03 18:00	17° \mathcal{H} 44'18	greatest brilliancy	16430 May 03 17:41	26° \mathcal{M} 52'51	-3.0m
max. Earth dist.	16425 Mar 04 16:06	18° \mathcal{H} 22'30	min. Earth dist.	16430 May 03 20:35	26° \mathcal{M} 50'56	0.36349 AU
morning rise	16425 Mar 20 22:11	29° \mathcal{H} 29'49	direct	16430 Jun 01 21:48	22° \mathcal{M} 01'15	
	16425 Mar 21 16:00	0° Υ		16430 Jul 08 05:33	0° \mathcal{X}	
	16425 May 06 04:52	0° \mathcal{B}		16430 Sep 02 17:36	0° \mathcal{Z}	
	16425 Jun 23 09:38	0° Π		16430 Oct 20 08:40	0° \approx	
	16425 Aug 14 14:48	0° \mathcal{E}	desc. node	16430 Oct 24 08:30	2° \approx 33'43	
	16425 Oct 19 08:35	0° Ω		16430 Dec 06 02:46	0° \mathcal{H}	
retrograde	16425 Nov 25 00:55	6° Ω 42'09		16431 Jan 22 06:31	0° Υ	
	16425 Dec 28 08:29	30° \mathcal{R} \mathcal{E}		16431 Mar 10 21:16	0° \mathcal{B}	
opposition	16426 Jan 01 18:46	28° \mathcal{E} 20'56	evening set	16431 Apr 11 07:38	19° \mathcal{B} 46'18	
greatest brilliancy	16426 Jan 02 17:02	27° \mathcal{E} 59'47		16431 Apr 27 12:45	0° Π	
min. Earth dist.	16426 Jan 08 09:00	25° \mathcal{E} 50'45	max. Earth dist.	16431 May 17 13:23	12° Π 41'23	2.67950 AU
direct	16426 Feb 11 09:19	18° \mathcal{E} 32'50				
asc. node	16426 Mar 27 01:27	28° \mathcal{E} 58'15	conjunction	16431 May 24 20:15	17° Π 19'32	-1°14'05
	16426 Mar 29 10:44	0° Ω	minimum elong	16431 May 24 20:30	17° Π 19'57	1°14'42
	16426 May 21 22:52	0° \mathcal{M}		16431 Jun 13 15:43	0° \mathcal{E}	
	16426 Jul 03 21:25	0° \mathcal{L}	morning rise	16431 Jul 07 04:42	15° \mathcal{E} 12'44	
	16426 Aug 12 10:50	0° \mathcal{M}		16431 Jul 29 18:59	0° Ω	
	16426 Sep 19 21:46	0° \mathcal{X}		16431 Sep 12 15:14	0° \mathcal{M}	
	16426 Oct 28 14:54	0° \mathcal{Z}		16431 Oct 26 01:41	0° \mathcal{L}	
	16426 Dec 07 12:54	0° \approx	asc. node	16431 Nov 17 10:18	15° \mathcal{L} 49'29	
	16427 Jan 18 06:03	0° \mathcal{H}		16431 Dec 07 04:16	0° \mathcal{M}	
desc. node	16427 Jan 19 11:34	0° \mathcal{H} 51'48		16432 Jan 17 11:13	0° \mathcal{X}	
evening set	16427 Jan 21 05:38	2° \mathcal{H} 05'30		16432 Feb 28 07:24	0° \mathcal{Z}	
	16427 Mar 02 23:22	0° Υ		16432 Apr 15 01:44	0° \approx	
			retrograde	16432 Jun 11 11:44	19° \approx 02'44	
conjunction	16427 Mar 14 03:32	7° Υ 27'25	min. Earth dist.	16432 Jul 08 20:35	13° \approx 51'39	0.45010 AU
minimum elong	16427 Mar 14 02:14	7° Υ 25'16	greatest brilliancy	16432 Jul 16 08:45	11° \approx 17'11	-2.5m
max. Earth dist.	16427 Apr 03 03:15	20° Υ 36'59	opposition	16432 Jul 17 06:49	10° \approx 58'08	3°12'16
	16427 Apr 17 14:15	0° \mathcal{B}	direct	16432 Aug 18 21:56	4° \approx 24'28	
morning rise	16427 Apr 29 21:47	7° \mathcal{B} 54'54	desc. node	16432 Sep 10 14:33	7° \approx 26'31	
	16427 Jun 03 19:47	0° Π		16432 Nov 04 20:30	0° \mathcal{H}	
	16427 Jul 22 12:52	0° \mathcal{E}		16432 Dec 29 10:29	0° Υ	
	16427 Sep 11 06:39	0° Ω		16433 Feb 18 04:34	0° \mathcal{B}	
	16427 Nov 06 04:11	0° \mathcal{M}		16433 Apr 08 04:32	0° Π	
retrograde	16428 Jan 16 19:01	21° \mathcal{M} 43'36	evening set	16433 May 15 04:47	23° Π 20'01	
asc. node	16428 Feb 12 07:35	17° \mathcal{M} 23'56		16433 May 25 13:56	0° \mathcal{E}	
opposition	16428 Feb 19 08:05	15° \mathcal{M} 07'02	max. Earth dist.	16433 Jun 08 23:48	9° \mathcal{E} 20'51	2.62600 AU
greatest brilliancy	16428 Feb 19 11:30	15° \mathcal{M} 04'09				
min. Earth dist.	16428 Feb 27 22:57	12° \mathcal{M} 12'52	conjunction	16433 Jun 28 22:27	22° \mathcal{E} 29'08	-0°55'17
direct	16428 Mar 26 21:13	7° \mathcal{M} 01'10	minimum elong	16433 Jun 28 23:53	22° \mathcal{E} 31'29	0°55'53
	16428 May 30 19:33	0° \mathcal{L}		16433 Jul 10 04:21	0° Ω	
	16428 Jul 15 02:52	0° \mathcal{M}	morning rise	16433 Aug 15 04:35	24° Ω 38'16	
	16428 Aug 25 02:43	0° \mathcal{X}		16433 Aug 22 20:32	0° \mathcal{M}	
	16428 Oct 04 15:32	0° \mathcal{Z}		16433 Oct 03 15:51	0° \mathcal{L}	
	16428 Nov 15 03:56	0° \approx	asc. node	16433 Oct 04 03:55	0° \mathcal{L} 22'06	
desc. node	16428 Dec 06 07:52	14° \approx 52'15		16433 Nov 12 20:25	0° \mathcal{M}	
	16428 Dec 28 07:10	0° \mathcal{H}		16433 Dec 21 22:59	0° \mathcal{X}	
	16429 Feb 11 03:18	0° Υ		16434 Jan 29 19:46	0° \mathcal{Z}	
evening set	16429 Mar 05 15:35	14° Υ 41'48		16434 Mar 10 17:14	0° \approx	
	16429 Mar 29 09:20	0° \mathcal{B}		16434 Apr 22 21:24	0° \mathcal{H}	

	16434 Jun 16 07:47	0°♊			16439 Mar 23 02:13	0°♎		
retrograde	16434 Jul 26 16:22	9°♊23'41			16439 May 11 22:02	0°♏		
desc. node	16434 Jul 29 20:48	9°♊19'23		asc. node	16439 May 26 12:16	9°♏39'29		
min. Earth dist.	16434 Aug 29 01:12	2°♊01'56	0.58450 AU		16439 Jun 24 19:06	0°♐		
	16434 Sep 03 06:33	30°♋♋			16439 Aug 04 09:28	0°♑		
opposition	16434 Sep 04 08:10	29°♋35'02	-1°41'03		16439 Sep 12 01:38	0°♒		
greatest brilliancy	16434 Sep 03 21:32	29°♋45'23	-1.7m		16439 Oct 19 21:56	0°♓		
direct	16434 Oct 11 14:23	21°♋08'49		evening set	16439 Oct 20 02:37	0°♓09'19		
	16434 Nov 23 04:46	0°♊			16439 Nov 26 22:05	0°♑		
	16435 Jan 26 01:11	0°♋						
	16435 Mar 19 13:18	0°♌		conjunction	16439 Dec 31 00:04	26°♑15'16	0°49'13	
	16435 May 07 01:58	0°♎		minimum elong	16439 Dec 31 03:32	26°♑21'50	0°49'47	
	16435 Jun 21 17:31	0°♏			16440 Jan 04 23:01	0°♒		
evening set	16435 Jun 22 05:08	0°♏19'38			16440 Feb 14 17:49	0°♋		
max. Earth dist.	16435 Jul 07 14:36	10°♏51'19	2.52102 AU	max. Earth dist.	16440 Feb 17 10:34	1°♋55'50	2.45706 AU	
	16435 Aug 03 20:31	0°♐		morning rise	16440 Mar 01 23:31	11°♋31'14		
				desc. node	16440 Mar 20 12:33	24°♋22'45		
conjunction	16435 Aug 11 15:48	5°♐36'12	-0°06'56		16440 Mar 28 18:32	0°♊		
minimum elong	16435 Aug 11 16:13	5°♐36'58	0°07'15		16440 May 13 10:21	0°♋		
behind sun begin	16435 Aug 10 19:41	4°♐59'57			16440 Jul 01 10:20	0°♌		
behind sun end	16435 Aug 12 12:46	6°♐14'01			16440 Aug 25 19:33	0°♎		
asc. node	16435 Aug 21 20:45	13°♐00'50		retrograde	16440 Nov 08 15:15	22°♎32'40		
	16435 Sep 13 19:34	0°♑		opposition	16440 Dec 17 11:37	13°♎44'46	-4°20'29	
morning rise	16435 Oct 09 03:55	19°♑14'17		greatest brilliancy	16440 Dec 18 07:30	13°♎25'34	-1.5m	
	16435 Oct 23 02:28	0°♒		min. Earth dist.	16440 Dec 22 15:58	11°♎44'44	0.63324 AU	
	16435 Nov 30 09:30	0°♓		direct	16441 Jan 27 17:20	3°♎45'11		
	16436 Jan 07 12:43	0°♑		asc. node	16441 Apr 12 15:55	28°♎58'55		
	16436 Feb 15 11:25	0°♒			16441 Apr 14 11:51	0°♏		
	16436 Mar 27 09:21	0°♋			16441 Jun 01 06:29	0°♐		
	16436 May 10 23:19	0°♊			16441 Jul 12 23:12	0°♑		
desc. node	16436 Jun 15 22:05	21°♊12'38			16441 Aug 21 00:57	0°♒		
	16436 Jul 03 04:49	0°♋			16441 Sep 28 04:11	0°♓		
retrograde	16436 Aug 30 19:02	16°♋24'25			16441 Nov 05 13:43	0°♑		
min. Earth dist.	16436 Oct 08 00:40	7°♋28'01	0.66832 AU		16441 Dec 15 03:18	0°♒		
opposition	16436 Oct 10 14:47	6°♋26'27	-4°04'15	evening set	16441 Dec 30 17:05	11°♒28'02		
greatest brilliancy	16436 Oct 10 04:28	6°♋36'40	-1.3m		16442 Jan 25 11:50	0°♋		
	16436 Oct 28 23:49	30°♋♊		desc. node	16442 Feb 05 04:04	7°♋30'41		
direct	16436 Nov 19 17:41	27°♊00'34						
	16436 Dec 13 10:20	0°♋		conjunction	16442 Feb 24 23:51	21°♋13'10	-0°12'38	
	16437 Feb 23 05:15	0°♌		minimum elong	16442 Feb 24 23:13	21°♋12'04	0°12'27	
	16437 Apr 16 03:43	0°♎		behind sun begin	16442 Feb 24 09:24	20°♋48'27		
	16437 Jun 01 16:28	0°♏		behind sun end	16442 Feb 25 13:01	21°♋35'39		
asc. node	16437 Jul 08 14:11	25°♏34'37			16442 Mar 09 22:12	0°♊		
	16437 Jul 14 18:20	0°♐		max. Earth dist.	16442 Mar 23 21:24	9°♊21'06	2.58470 AU	
evening set	16437 Aug 09 01:53	18°♐32'37		morning rise	16442 Apr 15 09:15	24°♊08'40		
	16437 Aug 24 07:38	0°♑			16442 Apr 24 10:09	0°♋		
max. Earth dist.	16437 Aug 31 03:05	5°♑11'07	2.38388 AU		16442 Jun 10 21:00	0°♌		
	16437 Oct 02 03:18	0°♒			16442 Jul 30 11:58	0°♎		
					16442 Sep 21 23:26	0°♏		
conjunction	16437 Oct 12 20:30	8°♒26'05	0°58'13		16442 Dec 03 20:53	0°♐		
minimum elong	16437 Oct 12 16:51	8°♒18'53	0°58'31	retrograde	16442 Dec 24 18:13	2°♐25'08		
	16437 Nov 09 01:36	0°♓			16443 Jan 13 06:39	30°♒♏		
	16437 Dec 16 23:52	0°♑		opposition	16443 Jan 29 04:53	24°♒59'37	-1°38'35	
morning rise	16437 Dec 26 20:50	7°♑43'31		greatest brilliancy	16443 Jan 29 19:05	24°♒46'46	-2.1m	
	16438 Jan 24 19:25	0°♒		min. Earth dist.	16443 Feb 06 12:07	22°♒00'03	0.51753 AU	
	16438 Mar 06 08:54	0°♋		asc. node	16443 Feb 28 20:56	16°♒23'41		
	16438 Apr 18 12:45	0°♊		direct	16443 Mar 08 21:06	15°♒56'09		
desc. node	16438 May 03 19:02	10°♊04'34			16443 Apr 27 17:07	0°♐		
	16438 Jun 04 12:26	0°♋			16443 Jun 16 08:04	0°♑		
	16438 Jul 29 07:27	0°♌			16443 Jul 27 19:56	0°♒		
retrograde	16438 Oct 03 19:35	19°♌06'23			16443 Sep 05 07:07	0°♓		
opposition	16438 Nov 13 08:00	9°♌32'08	-4°53'57		16443 Oct 14 19:34	0°♑		
greatest brilliancy	16438 Nov 13 12:38	9°♌27'34	-1.2m		16443 Nov 24 11:57	0°♒		
min. Earth dist.	16438 Nov 14 15:30	9°♌01'06	0.68519 AU	desc. node	16443 Dec 23 22:46	20°♒57'59		
	16438 Dec 16 17:51	30°♒♋			16444 Jan 05 22:09	0°♋		
direct	16438 Dec 24 18:53	29°♋35'35		evening set	16444 Feb 18 17:59	29°♋41'13		
	16439 Jan 02 02:28	0°♌			16444 Feb 19 05:17	0°♊		

	16444 Apr 05 03:26	0°♄			16449 Mar 21 07:58	0°♁		
					16449 May 06 15:49	0°♄		
conjunction	16444 Apr 06 03:35	0°♄38'52 -0°56'14	retrograde		16449 Jul 10 17:50	22°♄21'22		
minimum elong	16444 Apr 06 02:13	0°♄36'39 0°56'30	min. Earth dist.		16449 Aug 10 19:59	15°♄46'40 0.53572 AU		
max. Earth dist.	16444 Apr 16 23:10	7°♄35'25 2.66257 AU	desc. node		16449 Aug 15 08:55	14°♄03'52		
morning rise	16444 May 20 08:04	28°♄48'17	opposition		16449 Aug 18 08:25	12°♄55'45 -0°09'08		
	16444 May 22 05:29	0°♂	greatest brilliancy		16450 Aug 13 13:14	1°♄50'56 1.4m		
	16444 Jul 09 01:03	0°♄	direct		16449 Sep 23 00:26	5°♄05'19		
	16444 Aug 26 09:53	0°♂			16449 Dec 10 17:44	0°♄		
	16444 Oct 14 16:51	0°♄			16450 Feb 04 10:05	0°♄		
	16444 Dec 05 18:26	0°♂			16450 Mar 27 02:55	0°♂		
asc. node	16445 Jan 16 01:16	20°♂07'45			16450 May 14 01:55	0°♄		
	16445 Feb 19 12:41	0°♄	evening set		16450 Jun 06 15:58	15°♄20'02		
retrograde	16445 Mar 01 21:49	0°♄40'35	max. Earth dist.		16450 Jun 25 08:47	27°♄47'04 2.56768 AU		
	16445 Mar 12 02:34	30°♄♂			16450 Jun 28 15:40	0°♂		
opposition	16445 Apr 01 01:54	25°♂29'26 5°01'15						
greatest brilliancy	16445 Apr 01 23:13	25°♂14'11 -2.9m	conjunction		16450 Jul 24 03:40	17°♂28'59 -0°29'16		
min. Earth dist.	16445 Apr 06 13:12	23°♂55'48 0.38435 AU	minimum elong		16450 Jul 24 04:57	17°♂31'14 0°29'43		
direct	16445 May 02 22:20	19°♂36'16			16450 Aug 10 22:52	0°♄		
	16445 Jun 12 17:32	0°♄	asc. node		16450 Sep 07 14:12	19°♄57'03		
	16445 Aug 03 17:19	0°♄	morning rise		16450 Sep 14 23:28	25°♄23'14		
	16445 Sep 17 05:03	0°♄			16450 Sep 21 04:50	0°♂		
	16445 Oct 31 02:53	0°♁			16450 Oct 30 19:04	0°♄		
desc. node	16445 Nov 09 23:00	6°♁39'25			16450 Dec 08 08:13	0°♄		
	16445 Dec 14 21:54	0°♄			16451 Jan 15 16:08	0°♄		
	16446 Jan 29 21:42	0°♄			16451 Feb 23 19:43	0°♁		
	16446 Mar 17 20:23	0°♄			16451 Apr 06 04:08	0°♄		
evening set	16446 Mar 28 12:28	6°♄46'06			16451 May 22 06:45	0°♄		
	16446 May 04 05:07	0°♂	desc. node		16451 Jul 03 12:56	22°♄00'06		
max. Earth dist.	16446 May 09 03:31	3°♂07'28 2.68548 AU			16451 Jul 26 15:11	0°♄		
			retrograde		16451 Aug 18 06:45	3°♄03'26		
conjunction	16446 May 11 11:02	4°♂35'23 -1°14'06			16451 Sep 08 12:16	30°♄♄		
minimum elong	16446 May 11 10:44	4°♂34'55 1°14'40	min. Earth dist.		16451 Sep 23 18:22	24°♄40'32 0.64319 AU		
	16446 Jun 20 09:45	0°♄	opposition		16451 Sep 27 20:40	23°♄03'20 -3°22'10		
morning rise	16446 Jun 23 10:01	1°♄55'35	greatest brilliancy		16451 Sep 27 07:19	23°♄16'32 -1.4m		
	16446 Aug 05 22:41	0°♂	direct		16451 Nov 06 01:27	13°♄56'35		
	16446 Sep 20 13:00	0°♄			16452 Jan 06 00:56	0°♄		
	16446 Nov 04 02:07	0°♂			16452 Mar 04 17:25	0°♂		
asc. node	16446 Dec 04 02:46	20°♂35'37			16452 Apr 23 21:11	0°♄		
	16446 Dec 17 17:29	0°♄			16452 Jun 08 22:48	0°♂		
	16447 Jan 30 07:26	0°♄	evening set		16452 Jul 18 22:35	27°♂48'29		
	16447 Mar 18 02:44	0°♄			16452 Jul 21 23:58	0°♄		
retrograde	16447 May 20 09:58	22°♄22'29	asc. node		16452 Jul 25 08:07	2°♄24'18		
min. Earth dist.	16447 Jun 15 09:28	17°♄55'10 0.39947 AU	max. Earth dist.		16452 Aug 01 18:31	7°♄47'43 2.43744 AU		
greatest brilliancy	16447 Jun 21 05:01	16°♄08'10 -2.8m			16452 Aug 31 16:15	0°♂		
opposition	16447 Jun 22 12:10	15°♄44'11 5°43'56						
direct	16447 Jul 22 21:06	10°♄10'09	conjunction		16452 Sep 14 20:59	10°♂48'27 0°34'35		
	16447 Sep 25 15:55	0°♁	minimum elong		16452 Sep 14 18:21	10°♂43'23 0°34'37		
desc. node	16447 Sep 28 03:24	1°♁14'02			16452 Oct 09 15:34	0°♄		
	16447 Nov 19 07:15	0°♄			16452 Nov 16 16:23	0°♄		
	16448 Jan 08 14:51	0°♄	morning rise		16452 Nov 24 04:49	5°♄57'29		
	16448 Feb 26 18:37	0°♄			16452 Dec 24 15:33	0°♄		
	16448 Apr 15 02:31	0°♂			16453 Feb 01 10:54	0°♁		
evening set	16448 May 01 13:01	10°♂20'59			16453 Mar 14 00:55	0°♄		
max. Earth dist.	16448 May 30 14:08	28°♂52'51 2.65336 AU			16453 Apr 26 11:30	0°♄		
	16448 Jun 01 07:49	0°♄	desc. node		16453 May 20 11:12	15°♄25'45		
					16453 Jun 13 16:54	0°♄		
conjunction	16448 Jun 14 09:36	8°♄28'01 -1°05'56			16453 Aug 15 10:03	0°♂		
minimum elong	16448 Jun 14 10:40	8°♄29'46 1°06'34	retrograde		16453 Sep 20 12:49	6°♂45'24		
	16448 Jul 17 01:54	0°♂			16453 Oct 23 13:13	30°♄♄		
morning rise	16448 Jul 29 13:00	8°♂21'58	opposition		16453 Oct 31 07:35	26°♄59'12 -4°44'11		
	16448 Aug 30 03:21	0°♄	greatest brilliancy		16453 Oct 31 05:37	27°♄01'09 -1.2m		
	16448 Oct 11 11:11	0°♂	min. Earth dist.		16453 Oct 31 01:59	27°♄04'45 0.68688 AU		
asc. node	16448 Oct 20 22:07	6°♂51'57	direct		16453 Dec 11 10:00	17°♄11'55		
	16448 Nov 21 05:31	0°♄			16454 Feb 02 07:20	0°♂		
	16448 Dec 30 21:43	0°♄			16454 Apr 02 00:15	0°♄		
	16449 Feb 08 09:35	0°♄			16454 May 20 01:25	0°♂		

asc. node	16454 Jun 12 04:19	15°♊39'41		conjunction	16459 Mar 23 04:22	16°♊30'58 -0°42'21	
	16454 Jul 02 12:06	0°♎		minimum elong	16459 Mar 23 02:55	16°♊28'36 0°42'28	
	16454 Aug 12 00:53	0°♌		max. Earth dist.	16459 Apr 08 16:44	27°♊16'30 2.63841 AU	
evening set	16454 Sep 18 23:40	29°♍24'42			16459 Apr 12 21:53	0°♋	
	16454 Sep 19 17:37	0°♍		morning rise	16459 May 07 20:11	15°♋58'14	
	16454 Oct 27 13:44	0°♌			16459 May 30 00:55	0°♎	
					16459 Jul 17 08:17	0°♍	
conjunction	16454 Dec 01 11:00	27°♌36'48 1°06'11			16459 Sep 05 00:29	0°♊	
minimum elong	16454 Dec 01 13:18	27°♌41'17 1°06'48			16459 Oct 27 14:09	0°♎	
	16454 Dec 04 12:01	0°♋			16460 Jan 02 09:38	0°♌	
	16455 Jan 12 09:33	0°♋		retrograde	16460 Jan 31 15:02	4°♌42'08	
max. Earth dist.	16455 Jan 23 21:15	8°♋38'14 2.39949 AU		asc. node	16460 Feb 02 15:12	4°♌40'37	
morning rise	16455 Feb 08 18:39	20°♋23'12			16460 Feb 28 12:17	30°♎♎	
	16455 Feb 22 00:31	0°♎		opposition	16460 Mar 03 22:40	28°♎36'35 1°57'01	
	16455 Apr 05 23:51	0°♊		greatest brilliancy	16460 Mar 04 12:35	28°♎25'26 -2.6m	
desc. node	16455 Apr 07 04:56	0°♊49'11		min. Earth dist.	16460 Mar 12 04:04	25°♎59'03 0.43044 AU	
	16455 May 21 22:15	0°♋		direct	16460 Apr 08 00:05	21°♎13'42	
	16455 Jul 11 05:03	0°♎			16460 May 15 02:26	0°♌	
	16455 Sep 11 09:33	0°♍			16460 Jul 06 07:03	0°♍	
retrograde	16455 Oct 25 16:03	9°♍22'13			16460 Aug 17 23:34	0°♌	
opposition	16455 Dec 04 08:11	0°♍13'10 -4°44'33			16460 Sep 28 09:08	0°♋	
	16455 Dec 04 21:40	30°♎♎			16460 Nov 09 12:04	0°♋	
greatest brilliancy	16455 Dec 04 22:55	29°♎58'47 -1.3m		desc. node	16460 Nov 26 12:35	11°♋51'05	
min. Earth dist.	16455 Dec 08 00:29	28°♎47'02 0.66173 AU			16460 Dec 23 01:59	0°♎	
direct	16456 Jan 14 20:51	20°♎10'41			16461 Feb 06 06:01	0°♊	
	16456 Feb 27 21:03	0°♍		evening set	16461 Mar 14 04:25	23°♊15'53	
	16456 Apr 25 18:15	0°♊			16461 Mar 24 16:44	0°♋	
asc. node	16456 Apr 29 04:40	2°♊06'37					
	16456 Jun 10 07:00	0°♎		conjunction	16461 Apr 28 00:26	21°♋50'46 -1°10'14	
	16456 Jul 21 09:01	0°♌		minimum elong	16461 Apr 27 23:38	21°♋49'29 1°10'42	
	16456 Aug 29 05:11	0°♍		max. Earth dist.	16461 Apr 30 17:57	23°♋34'39 2.68305 AU	
	16456 Oct 06 04:20	0°♌			16461 May 10 21:06	0°♎	
	16456 Nov 13 08:49	0°♋		morning rise	16461 Jun 10 01:37	19°♎07'19	
evening set	16456 Dec 05 06:31	16°♋51'51			16461 Jun 27 05:21	0°♍	
	16456 Dec 22 15:57	0°♋			16461 Aug 13 07:12	0°♊	
	16457 Feb 01 17:21	0°♎			16461 Sep 28 22:09	0°♎	
					16461 Nov 14 03:53	0°♌	
conjunction	16457 Feb 05 10:38	2°♎38'43 0°10'45		asc. node	16461 Dec 20 17:18	23°♌38'59	
minimum elong	16457 Feb 05 11:20	2°♎39'58 0°11'05			16461 Dec 30 15:54	0°♍	
behind sun begin	16457 Feb 04 17:55	2°♎09'05			16462 Feb 18 14:19	0°♌	
behind sun end	16457 Feb 06 04:45	3°♎10'50		retrograde	16462 Apr 22 09:02	20°♌50'27	
desc. node	16457 Feb 21 22:05	14°♎13'14		min. Earth dist.	16462 May 19 13:08	16°♌25'28 0.36763 AU	
max. Earth dist.	16457 Mar 12 08:10	26°♎53'36 2.53961 AU		opposition	16462 May 22 13:17	15°♌36'37 7°25'32	
	16457 Mar 16 22:01	0°♊		greatest brilliancy	16462 May 21 20:59	15°♌47'41 -3.0m	
morning rise	16457 Mar 30 14:57	9°♊12'29		direct	16462 Jun 20 15:30	10°♌45'37	
	16457 May 01 08:44	0°♋			16462 Aug 21 02:04	0°♋	
	16457 Jun 18 04:32	0°♎			16462 Oct 12 11:33	0°♋	
	16457 Aug 08 04:24	0°♍		desc. node	16462 Oct 14 15:52	1°♋19'37	
	16457 Oct 05 22:21	0°♊			16462 Nov 29 22:53	0°♎	
retrograde	16457 Dec 05 02:41	15°♊50'00			16463 Jan 16 23:13	0°♊	
opposition	16458 Jan 11 02:54	7°♊46'12 -3°02'55			16463 Mar 06 00:47	0°♋	
greatest brilliancy	16458 Jan 12 00:17	7°♊26'07 -1.8m		evening set	16463 Apr 19 00:42	27°♋34'04	
min. Earth dist.	16458 Jan 18 09:47	5°♊02'24 0.56921 AU			16463 Apr 22 21:19	0°♎	
	16458 Feb 03 20:16	30°♎♍		max. Earth dist.	16463 May 22 13:14	18°♎48'05 2.67250 AU	
direct	16458 Feb 20 04:18	28°♍09'20					
	16458 Mar 09 05:13	0°♊		conjunction	16463 Jun 01 12:57	25°♎11'08 -1°12'19	
asc. node	16458 Mar 17 09:28	2°♊02'50		minimum elong	16463 Jun 01 13:32	25°♎12'04 1°12'57	
	16458 May 14 07:32	0°♎			16463 Jun 09 00:56	0°♍	
	16458 Jun 27 15:12	0°♌		morning rise	16463 Jul 15 08:34	23°♍36'59	
	16458 Aug 06 16:26	0°♍			16463 Jul 25 00:41	0°♊	
	16458 Sep 14 09:42	0°♌			16463 Sep 07 13:48	0°♎	
	16458 Oct 23 07:58	0°♋			16463 Oct 20 13:33	0°♌	
	16458 Dec 02 11:01	0°♋		asc. node	16463 Nov 07 15:34	12°♌56'34	
desc. node	16459 Jan 09 15:57	27°♋24'27			16463 Dec 01 02:37	0°♍	
	16459 Jan 13 08:44	0°♎			16464 Jan 10 15:47	0°♌	
evening set	16459 Feb 01 03:33	13°♎00'25			16464 Feb 20 07:31	0°♋	
	16459 Feb 26 05:43	0°♊			16464 Apr 03 15:55	0°♋	

	16464 Jun 03 21:25	0°♄		asc. node	16469 Jun 28 19:48	22°♏04'34	
retrograde	16464 Jun 22 20:22	2°♄29'09			16469 Jul 09 22:36	0°♎	
	16464 Jul 11 04:20	30°♋			16469 Aug 19 11:52	0°♎	
min. Earth dist.	16464 Jul 21 12:38	26°♋47'04	0.48132 AU	evening set	16469 Aug 22 14:47	2°♎22'22	
opposition	16464 Jul 29 20:18	23°♋47'31	1°50'52		16469 Sep 27 06:41	0°♎	
greatest brilliancy	16464 Jul 29 07:10	23°♋59'23	-2.3m	max. Earth dist.	16469 Oct 11 12:57	11°♎14'52	2.36219 AU
desc. node	16464 Aug 31 21:44	16°♋43'13					
direct	16464 Sep 01 15:58	16°♋42'59		conjunction	16469 Oct 30 08:39	26°♎10'33	1°06'31
	16464 Oct 24 04:04	0°♄		minimum elong	16469 Oct 30 06:24	26°♎06'03	1°06'59
	16464 Dec 22 18:07	0°♄			16469 Nov 04 04:09	0°♄	
	16465 Feb 12 19:58	0°♄			16469 Dec 12 02:03	0°♄	
	16465 Apr 03 08:33	0°♄		morning rise	16470 Jan 13 00:01	24°♄44'39	
	16465 May 20 22:37	0°♄			16470 Jan 19 21:43	0°♄	
evening set	16465 May 23 03:14	1°♄24'46			16470 Mar 01 10:36	0°♄	
max. Earth dist.	16465 Jun 14 16:50	16°♄07'19	2.60759 AU		16470 Apr 13 10:54	0°♄	
	16465 Jul 05 13:00	0°♏		desc. node	16470 Apr 23 23:36	7°♄01'54	
					16470 May 29 21:26	0°♄	
conjunction	16465 Jul 07 15:02	1°♏24'15	-0°47'07		16470 Jul 21 08:57	0°♄	
minimum elong	16465 Jul 07 16:33	1°♏26'47	0°47'41	retrograde	16470 Oct 11 14:28	26°♄43'02	
	16465 Aug 18 02:27	0°♎		opposition	16470 Nov 20 20:36	17°♄16'42	-4°54'15
morning rise	16465 Aug 25 11:38	5°♎13'35		greatest brilliancy	16470 Nov 21 04:55	17°♄08'32	-1.3m
asc. node	16465 Sep 24 09:29	26°♎49'34		min. Earth dist.	16470 Nov 23 00:02	16°♄26'10	0.67977 AU
	16465 Sep 28 17:07	0°♎		direct	16471 Jan 01 09:31	7°♄16'52	
	16465 Nov 07 16:26	0°♎			16471 Mar 15 12:20	0°♄	
	16465 Dec 16 13:28	0°♄			16471 May 06 05:44	0°♏	
	16466 Jan 24 04:11	0°♄		asc. node	16471 May 16 19:23	6°♏50'37	
	16466 Mar 04 16:25	0°♄			16471 Jun 19 14:58	0°♎	
	16466 Apr 15 21:13	0°♄			16471 Jul 30 09:06	0°♎	
	16466 Jun 04 09:00	0°♄			16471 Sep 07 02:32	0°♎	
desc. node	16466 Jul 20 01:32	17°♄15'59			16471 Oct 14 23:23	0°♄	
retrograde	16466 Aug 04 03:54	18°♄43'49		greatest brilliancy	16471 Oct 20 20:28	4°♄39'53	1.1m
min. Earth dist.	16466 Sep 07 17:02	10°♄58'47	0.60814 AU	evening set	16471 Nov 06 20:15	18°♄05'58	
opposition	16466 Sep 13 06:09	8°♄48'10	-2°24'06		16471 Nov 22 00:17	0°♄	
greatest brilliancy	16466 Sep 12 17:02	9°♄01'02	-1.6m		16471 Dec 31 02:32	0°♄	
direct	16466 Oct 21 07:01	0°♄05'40					
	16467 Jan 19 00:32	0°♄		conjunction	16472 Jan 14 15:50	10°♄51'44	0°35'44
	16467 Mar 14 04:11	0°♄		minimum elong	16472 Jan 14 18:28	10°♄56'37	0°36'13
	16467 May 02 05:24	0°♄			16472 Feb 09 22:35	0°♄	
	16467 Jun 17 00:35	0°♏		max. Earth dist.	16472 Feb 27 08:37	12°♄20'22	2.48809 AU
evening set	16467 Jul 01 16:10	9°♏59'57		desc. node	16472 Mar 10 15:34	20°♄53'04	
max. Earth dist.	16467 Jul 15 20:39	19°♏52'21	2.49258 AU	morning rise	16472 Mar 13 01:05	22°♄32'07	
	16467 Jul 30 03:27	0°♎			16472 Mar 23 23:26	0°♄	
asc. node	16467 Aug 12 01:18	9°♎18'58			16472 May 08 11:38	0°♄	
					16472 Jun 25 21:57	0°♄	
conjunction	16467 Aug 23 07:30	17°♎33'36	0°07'44		16472 Aug 18 03:03	0°♄	
minimum elong	16467 Aug 23 07:00	17°♎32'40	0°07'32		16472 Nov 04 12:36	0°♏	
behind sun begin	16467 Aug 22 09:32	16°♎53'09		retrograde	16472 Nov 17 18:43	0°♏59'19	
behind sun end	16467 Aug 24 04:27	18°♎12'14			16472 Nov 30 08:04	30°♎	
	16467 Sep 09 00:32	0°♎		opposition	16472 Dec 26 00:50	22°♄25'21	-3°58'13
	16467 Oct 18 05:08	0°♎		greatest brilliancy	16472 Dec 26 22:19	22°♄04'45	-1.6m
morning rise	16467 Oct 24 18:43	5°♎07'08		min. Earth dist.	16472 Dec 31 23:46	20°♄08'28	0.61302 AU
	16467 Nov 25 09:58	0°♄		direct	16473 Feb 04 22:47	12°♄31'00	
	16468 Jan 02 11:15	0°♄		asc. node	16473 Apr 02 22:20	28°♄47'06	
greatest brilliancy	16468 Jan 06 16:25	3°♄17'54	1.2m		16473 Apr 05 09:09	0°♏	
	16468 Feb 10 07:43	0°♄			16473 May 25 21:44	0°♎	
	16468 Mar 22 00:37	0°♄			16473 Jul 07 06:59	0°♎	
	16468 May 04 23:55	0°♄			16473 Aug 15 15:34	0°♎	
desc. node	16468 Jun 06 02:41	19°♄46'27			16473 Sep 22 22:47	0°♄	
	16468 Jun 24 12:47	0°♄			16473 Oct 31 11:38	0°♄	
retrograde	16468 Sep 07 08:54	24°♄15'04			16473 Dec 10 04:41	0°♄	
min. Earth dist.	16468 Oct 16 11:20	15°♄02'06	0.67779 AU	evening set	16474 Jan 12 06:20	24°♄01'32	
opposition	16468 Oct 18 05:44	14°♄20'05	-4°22'54		16474 Jan 20 16:26	0°♄	
greatest brilliancy	16468 Oct 17 21:56	14°♄27'49	-1.3m	desc. node	16474 Jan 26 08:29	3°♄59'22	
direct	16468 Nov 27 18:43	4°♄45'35			16474 Mar 05 05:09	0°♄	
	16469 Feb 16 00:39	0°♄					
	16469 Apr 10 17:13	0°♄		conjunction	16474 Mar 06 22:54	1°♄10'12	-0°24'37
	16469 May 27 17:28	0°♏		minimum elong	16474 Mar 06 21:48	1°♄08'20	0°24'32

max. Earth dist.	16474 Mar 29 23:24	16°♄28'35	2.60600 AU	greatest brilliancy	16479 Jul 06 11:21	1°♊24'48	-2.6m
	16474 Apr 19 17:17	0°♄		opposition	16479 Jul 07 14:59	1°♊02'02	4°18'17
morning rise	16474 Apr 23 18:26	2°♄36'43			16479 Jul 10 19:29	30°♋♂	
	16474 Jun 05 23:52	0°♄		direct	16479 Aug 08 06:02	24°♂55'00	
	16474 Jul 25 00:29	0°♄			16479 Sep 07 01:15	0°♊	
	16474 Sep 14 16:50	0°♄		desc. node	16479 Sep 18 09:20	3°♊57'28	
	16474 Nov 13 10:03	0°♄			16479 Nov 11 05:59	0°♋	
retrograde	16475 Jan 06 06:00	13°♄27'34			16480 Jan 02 15:20	0°♄	
opposition	16475 Feb 09 16:58	6°♄27'50	-0°32'42		16480 Feb 21 15:15	0°♄	
greatest brilliancy	16475 Feb 09 22:12	6°♄23'16	-2.2m		16480 Apr 10 08:17	0°♄	
min. Earth dist.	16475 Feb 18 08:00	3°♄27'33	0.48624 AU	evening set	16480 May 09 07:26	18°♄14'23	
asc. node	16475 Feb 19 03:56	3°♄10'51			16480 May 27 16:31	0°♄	
	16475 Mar 02 01:43	30°♋♂		max. Earth dist.	16480 Jun 04 22:34	5°♄20'00	2.63927 AU
direct	16475 Mar 19 07:22	27°♄53'06					
	16475 Apr 06 01:02	0°♄		conjunction	16480 Jun 22 13:54	16°♄51'12	-1°00'19
	16475 Jun 07 15:56	0°♄		minimum elong	16480 Jun 22 15:12	16°♄53'20	1°00'56
	16475 Jul 20 20:53	0°♄			16480 Jul 12 09:19	0°♄	
	16475 Aug 30 01:48	0°♄		morning rise	16480 Aug 07 18:26	17°♄52'53	
	16475 Oct 09 01:41	0°♄			16480 Aug 25 06:33	0°♄	
	16475 Nov 19 03:27	0°♄			16480 Oct 06 08:03	0°♄	
desc. node	16475 Dec 14 04:29	17°♄43'48		asc. node	16480 Oct 11 02:30	3°♄28'45	
	16475 Dec 31 21:22	0°♄			16480 Nov 15 19:13	0°♄	
	16476 Feb 14 10:19	0°♄			16480 Dec 25 03:44	0°♄	
evening set	16476 Feb 27 22:43	8°♄53'43			16481 Feb 02 06:02	0°♄	
	16476 Mar 31 11:41	0°♄			16481 Mar 14 11:23	0°♄	
					16481 Apr 27 12:27	0°♄	
conjunction	16476 Apr 14 05:45	8°♄48'49	-1°02'32		16481 Jun 29 05:02	0°♄	
minimum elong	16476 Apr 14 04:31	8°♄46'52	1°02'53	retrograde	16481 Jul 19 23:39	2°♄48'16	
max. Earth dist.	16476 Apr 22 02:00	13°♄49'12	2.67224 AU	desc. node	16481 Aug 05 15:50	0°♄47'55	
	16476 May 17 13:43	0°♄			16481 Aug 08 18:41	30°♋♂	
morning rise	16476 May 27 20:52	6°♄30'35		min. Earth dist.	16481 Aug 21 08:45	25°♄46'54	0.56353 AU
	16476 Jul 04 04:12	0°♄		opposition	16481 Aug 28 05:45	23°♄07'51	-1°05'35
	16476 Aug 21 00:04	0°♄		greatest brilliancy	16481 Aug 27 22:04	23°♄15'15	-1.8m
	16476 Oct 08 02:56	0°♄		direct	16481 Oct 03 19:40	14°♄56'44	
	16476 Nov 26 06:44	0°♄			16481 Nov 30 18:20	0°♄	
asc. node	16477 Jan 06 09:02	23°♄25'10			16482 Jan 29 06:57	0°♄	
	16477 Jan 19 04:12	0°♄			16482 Mar 21 23:55	0°♄	
retrograde	16477 Mar 20 12:09	18°♄04'49			16482 May 09 07:36	0°♄	
opposition	16477 Apr 18 23:52	13°♄12'30	6°33'22	evening set	16482 Jun 15 08:17	24°♄11'53	
greatest brilliancy	16477 Apr 19 12:50	13°♄03'46	-3.0m		16482 Jun 23 23:32	0°♄	
min. Earth dist.	16477 Apr 21 17:45	12°♄28'14	0.36858 AU	max. Earth dist.	16482 Jul 02 04:29	5°♄34'09	2.54277 AU
direct	16477 May 19 02:00	8°♄01'23					
	16477 Jul 22 06:02	0°♄		conjunction	16482 Aug 03 07:49	27°♄55'50	-0°16'56
	16477 Sep 08 21:29	0°♄		minimum elong	16482 Aug 03 08:43	27°♄57'24	0°17'18
	16477 Oct 24 11:30	0°♄			16482 Aug 06 05:42	0°♄	
desc. node	16477 Oct 31 04:04	4°♄24'45		asc. node	16482 Aug 28 19:34	16°♄17'40	
	16477 Dec 09 05:15	0°♄			16482 Sep 16 08:43	0°♄	
	16478 Jan 24 18:54	0°♄		morning rise	16482 Sep 28 01:14	8°♄46'28	
	16478 Mar 13 01:35	0°♄			16482 Oct 25 19:32	0°♄	
evening set	16478 Apr 05 10:41	14°♄45'25			16482 Dec 03 05:27	0°♄	
	16478 Apr 29 13:54	0°♄			16483 Jan 10 10:14	0°♄	
max. Earth dist.	16478 May 14 01:00	9°♄09'39	2.68326 AU		16483 Feb 18 09:57	0°♄	
					16483 Mar 31 10:05	0°♄	
conjunction	16478 May 19 02:10	12°♄21'53	-1°14'37		16483 May 15 09:57	0°♄	
minimum elong	16478 May 19 02:11	12°♄21'55	1°15'13	desc. node	16483 Jun 23 17:54	22°♄19'19	
	16478 Jun 15 17:45	0°♄			16483 Jul 10 07:00	0°♄	
morning rise	16478 Jul 01 04:42	9°♄56'15		retrograde	16483 Aug 26 01:18	11°♄17'05	
	16478 Aug 01 01:37	0°♄		min. Earth dist.	16483 Oct 02 12:33	2°♄35'24	0.65838 AU
	16478 Sep 15 06:15	0°♄		opposition	16483 Oct 05 19:22	1°♄17'22	-3°48'51
	16478 Oct 29 04:12	0°♄		greatest brilliancy	16483 Oct 05 07:16	1°♄29'21	-1.4m
asc. node	16478 Nov 24 08:18	18°♄17'23			16483 Oct 09 02:08	30°♋♂	
	16478 Dec 10 21:46	0°♄		direct	16483 Nov 14 13:27	21°♄59'34	
	16479 Jan 22 00:09	0°♄			16483 Dec 25 05:06	0°♄	
	16479 Mar 06 06:39	0°♄			16484 Feb 27 12:45	0°♄	
	16479 Apr 27 20:09	0°♄			16484 Apr 18 17:12	0°♄	
retrograde	16479 Jun 02 23:51	8°♄30'28			16484 Jun 04 02:28	0°♄	
min. Earth dist.	16479 Jun 29 12:01	3°♄41'43	0.42601 AU	asc. node	16484 Jul 15 12:45	28°♄46'47	

	16484 Jul 17 05:35	0°♎		behind sun end	16489 Feb 17 19:09	14°♎39'31	
evening set	16484 Jul 30 11:07	9°♎35'27			16489 Mar 12 04:36	0°♎	
max. Earth dist.	16484 Aug 15 22:36	21°♎46'14	2.40712 AU	max. Earth dist.	16489 Mar 19 06:00	4°♎45'19	2.56563 AU
	16484 Aug 26 21:18	0°♎		morning rise	16489 Apr 08 18:32	18°♎23'06	
					16489 Apr 26 14:35	0°♎	
conjunction	16484 Sep 30 00:36	26°♎15'43	0°49'01		16489 Jun 13 03:38	0°♎	
minimum elong	16484 Sep 29 21:00	26°♎08'42	0°49'12		16489 Aug 02 05:38	0°♎	
	16484 Oct 04 19:22	0°♎			16489 Sep 26 08:45	0°♎	
	16484 Nov 11 19:02	0°♎		retrograde	16489 Dec 15 20:31	25°♎28'26	
morning rise	16484 Dec 12 16:24	24°♎27'46		opposition	16490 Jan 21 01:24	17°♎44'23	-2°18'16
	16484 Dec 19 17:15	0°♎		greatest brilliancy	16490 Jan 21 19:39	17°♎27'34	-1.9m
	16485 Jan 27 11:45	0°♎		min. Earth dist.	16490 Jan 28 23:06	14°♎50'05	0.54158 AU
	16485 Mar 08 23:55	0°♎		direct	16490 Mar 01 10:06	8°♎23'36	
	16485 Apr 21 04:08	0°♎		asc. node	16490 Mar 07 17:36	8°♎39'45	
desc. node	16485 May 10 15:24	12°♎45'03			16490 May 05 04:05	0°♎	
	16485 Jun 07 11:46	0°♎			16490 Jun 20 21:20	0°♎	
	16485 Aug 03 08:00	0°♎			16490 Jul 31 15:49	0°♎	
retrograde	16485 Sep 28 02:37	14°♎19'56			16490 Sep 08 17:56	0°♎	
opposition	16485 Nov 07 18:15	4°♎39'47	-4°51'31		16490 Oct 17 22:35	0°♎	
greatest brilliancy	16485 Nov 07 19:51	4°♎38'13	-1.2m		16490 Nov 27 07:22	0°♎	
min. Earth dist.	16485 Nov 08 08:45	4°♎25'29	0.68722 AU	desc. node	16490 Dec 30 19:06	23°♎57'31	
	16485 Nov 20 03:11	30°♎			16491 Jan 08 10:26	0°♎	
direct	16485 Dec 19 02:05	24°♎47'04		evening set	16491 Feb 11 09:35	23°♎14'37	
	16486 Jan 19 19:43	0°♎			16491 Feb 21 11:33	0°♎	
	16486 Mar 26 15:49	0°♎					
	16486 May 14 17:39	0°♎		conjunction	16491 Mar 31 20:34	25°♎13'12	-0°50'59
asc. node	16486 Jun 02 09:26	12°♎27'49		minimum elong	16491 Mar 31 19:07	25°♎10'51	0°51'11
	16486 Jun 27 11:41	0°♎			16491 Apr 08 05:57	0°♎	
	16486 Aug 07 02:24	0°♎		max. Earth dist.	16491 Apr 14 02:28	3°♎46'21	2.65291 AU
	16486 Sep 14 19:32	0°♎		morning rise	16491 May 15 14:43	23°♎52'14	
evening set	16486 Oct 06 05:10	16°♎55'49			16491 May 25 07:36	0°♎	
	16486 Oct 22 15:56	0°♎			16491 Jul 12 07:22	0°♎	
	16486 Nov 29 14:49	0°♎			16491 Aug 30 04:11	0°♎	
					16491 Oct 19 15:09	0°♎	
conjunction	16486 Dec 18 14:17	14°♎45'11	0°58'02		16491 Dec 14 06:20	0°♎	
minimum elong	16486 Dec 18 17:49	14°♎51'59	0°58'38	asc. node	16492 Jan 23 21:42	15°♎48'03	
	16487 Jan 07 13:22	0°♎		retrograde	16492 Feb 17 01:55	19°♎09'13	
max. Earth dist.	16487 Feb 08 10:48	23°♎39'39	2.43126 AU	opposition	16492 Mar 19 02:25	13°♎35'13	3°40'28
	16487 Feb 17 05:10	0°♎		greatest brilliancy	16492 Mar 19 23:36	13°♎19'15	-2.7m
morning rise	16487 Feb 21 18:29	3°♎16'01		min. Earth dist.	16492 Mar 26 03:15	11°♎28'13	0.40284 AU
desc. node	16487 Mar 28 09:54	27°♎27'44		direct	16492 Apr 21 10:51	7°♎01'30	
	16487 Apr 01 03:27	0°♎			16492 Jun 24 19:25	0°♎	
	16487 May 16 19:55	0°♎			16492 Aug 09 20:47	0°♎	
	16487 Jul 05 05:04	0°♎			16492 Sep 21 15:33	0°♎	
	16487 Aug 31 12:32	0°♎			16492 Nov 03 14:16	0°♎	
retrograde	16487 Nov 03 01:39	17°♎17'54		desc. node	16492 Nov 16 18:36	9°♎03'15	
opposition	16487 Dec 12 07:08	8°♎19'49	-4°32'25		16492 Dec 17 17:58	0°♎	
greatest brilliancy	16487 Dec 13 00:51	8°♎02'36	-1.4m		16493 Feb 01 07:13	0°♎	
min. Earth dist.	16487 Dec 16 19:08	6°♎34'58	0.64723 AU		16493 Mar 19 23:34	0°♎	
	16488 Jan 06 15:07	30°♎		evening set	16493 Mar 22 11:08	1°♎34'52	
direct	16488 Jan 22 16:28	28°♎18'09					
	16488 Feb 08 15:37	0°♎		conjunction	16493 May 05 17:35	29°♎40'24	-1°13'02
	16488 Apr 18 20:14	0°♎		minimum elong	16493 May 05 17:04	29°♎39'34	1°13'33
asc. node	16488 Apr 19 12:29	0°♎23'46		max. Earth dist.	16493 May 05 17:30	29°♎40'16	2.68546 AU
	16488 Jun 04 14:23	0°♎			16493 May 06 05:58	0°♎	
	16488 Jul 16 01:08	0°♎		morning rise	16493 Jun 17 15:52	26°♎55'01	
	16488 Aug 24 00:43	0°♎			16493 Jun 22 12:03	0°♎	
	16488 Oct 01 01:59	0°♎			16493 Aug 08 06:46	0°♎	
	16488 Nov 08 08:30	0°♎			16493 Sep 23 07:38	0°♎	
	16488 Dec 17 18:09	0°♎			16493 Nov 07 13:00	0°♎	
evening set	16488 Dec 20 03:58	1°♎47'40		asc. node	16493 Dec 10 23:48	22°♎27'09	
	16489 Jan 27 22:15	0°♎			16493 Dec 22 05:22	0°♎	
desc. node	16489 Feb 12 01:26	10°♎39'56			16494 Feb 05 15:24	0°♎	
					16494 Mar 30 21:22	0°♎	
conjunction	16489 Feb 16 20:55	14°♎00'58	-0°03'09	retrograde	16494 May 08 19:11	9°♎31'45	
minimum elong	16489 Feb 16 20:47	14°♎00'43	0°02'55	min. Earth dist.	16494 Jun 03 20:42	5°♎13'24	0.38184 AU
behind sun begin	16489 Feb 15 22:25	13°♎21'53		greatest brilliancy	16494 Jun 08 08:23	3°♎55'35	-2.9m

opposition	16494 Jun 09 12:29	3° Z 35'12	6°41'24	asc. node	16499 Aug 02 06:31	5° M 39'48	
	16494 Jun 23 15:40	30° R Z			16499 Sep 04 05:07	0° Z	
direct	16494 Jul 09 02:44	28° Z 25'06					
	16494 Jul 24 21:04	0° Z		conjunction	16499 Sep 05 02:29	0° Z 40'14	0°23'04
	16494 Oct 03 01:29	0° \approx		minimum elong	16499 Sep 05 00:48	0° Z 37'05	0°23'00
desc. node	16494 Oct 04 22:37	1° \approx 03'00			16499 Oct 13 07:19	0° M	
	16494 Nov 23 06:56	0° H		morning rise	16499 Nov 10 23:54	22° M 32'44	
	16495 Jan 11 10:40	0° Y			16499 Nov 20 10:08	0° Z	
	16495 Mar 01 01:48	0° B			16499 Dec 28 09:52	0° Z	
	16495 Apr 18 04:37	0° II			16500 Feb 05 04:44	0° \approx	
evening set	16495 Apr 26 17:56	5° II 23'13			16500 Mar 17 18:29	0° H	
max. Earth dist.	16495 May 27 17:10	25° II 04'03	2.66295 AU		16500 Apr 30 07:31	0° Y	
	16495 Jun 04 09:30	0° Z		desc. node	16500 May 28 07:46	17° Y 46'02	
					16500 Jun 18 04:40	0° B	
conjunction	16495 Jun 09 09:23	3° Z 13'10	-1°09'09		16500 Aug 28 12:13	0° II	
minimum elong	16495 Jun 09 10:15	3° Z 14'34	1°09'47	retrograde	16500 Sep 15 21:18	1° II 56'19	
	16495 Jul 20 06:50	0° Ω			16500 Oct 03 03:31	30° R B	
morning rise	16495 Jul 23 20:28	2° Ω 22'32		opposition	16500 Oct 26 17:43	22° B 05'40	-4°37'02
	16495 Sep 02 14:14	0° M		min. Earth dist.	16500 Oct 25 19:11	22° B 27'58	0.68417 AU
	16495 Oct 15 05:42	0° Z		greatest brilliancy	16500 Oct 26 12:57	22° B 10'23	-1.2m
asc. node	16495 Oct 28 20:36	9° Z 49'33		direct	16500 Dec 06 15:11	12° B 23'48	
	16495 Nov 25 08:27	0° M			16501 Feb 08 16:55	0° II	
	16496 Jan 04 09:19	0° Z			16501 Apr 06 00:30	0° Z	
	16496 Feb 13 06:50	0° Z			16501 May 23 16:09	0° Ω	
	16496 Mar 25 22:38	0° \approx		asc. node	16501 Jun 20 02:24	18° Ω 41'11	
	16496 May 14 01:13	0° H			16501 Jul 06 01:55	0° M	
retrograde	16496 Jul 03 06:36	14° H 39'04			16501 Aug 15 15:59	0° Z	
min. Earth dist.	16496 Aug 02 07:26	8° H 27'08	0.51182 AU	evening set	16501 Sep 07 10:19	17° Z 29'35	
opposition	16496 Aug 10 06:04	5° H 29'48	0°38'08		16501 Sep 23 10:10	0° M	
greatest brilliancy	16496 Aug 10 01:36	5° H 33'58	-2.1m		16501 Oct 31 06:58	0° Z	
desc. node	16496 Aug 22 03:49	1° H 26'38					
	16496 Aug 27 16:01	30° R \approx		conjunction	16501 Nov 18 10:50	14° Z 25'30	1°08'48
	16496 Sep 14 02:32	27° \approx 58'36		minimum elong	16501 Nov 18 11:13	14° Z 26'16	1°09'24
direct	16496 Oct 02 18:29	0° H			16501 Dec 08 04:33	0° Z	
	16496 Dec 15 06:51	0° Y		max. Earth dist.	16502 Jan 06 13:56	22° Z 48'48	2.37599 AU
	16497 Feb 07 05:16	0° B			16502 Jan 16 00:10	0° \approx	
	16497 Mar 29 09:45	0° II		morning rise	16502 Jan 29 17:10	10° \approx 18'56	
	16497 May 16 05:31	0° Z			16502 Feb 25 12:50	0° H	
evening set	16497 May 31 07:36	9° Z 45'39			16502 Apr 09 10:36	0° Y	
max. Earth dist.	16497 Jun 20 18:16	23° Z 14'05	2.58639 AU	desc. node	16502 Apr 15 02:13	3° Y 48'28	
	16497 Jun 30 20:35	0° Ω			16502 May 25 11:34	0° B	
					16502 Jul 15 10:07	0° II	
conjunction	16497 Jul 16 19:39	10° Ω 50'51	-0°37'21		16502 Sep 21 11:53	0° Z	
minimum elong	16497 Jul 16 21:06	10° Ω 53'19	0°37'52	retrograde	16502 Oct 20 13:06	4° Z 24'15	
	16497 Aug 13 07:40	0° M			16502 Nov 16 02:44	30° R II	
morning rise	16497 Sep 05 16:42	16° M 45'12		opposition	16502 Nov 29 12:02	25° II 06'50	-4°50'09
asc. node	16497 Sep 14 12:53	23° M 12'03		greatest brilliancy	16502 Nov 29 23:56	24° II 55'11	-1.3m
	16497 Sep 23 18:27	0° Z		min. Earth dist.	16502 Dec 02 11:26	23° II 56'56	0.67118 AU
	16497 Nov 02 13:22	0° M		direct	16503 Jan 10 01:35	15° II 05'05	
	16497 Dec 11 06:22	0° Z			16503 Mar 07 10:33	0° Z	
	16498 Jan 18 16:51	0° Z			16503 May 01 05:23	0° Ω	
	16498 Feb 26 22:47	0° \approx		asc. node	16503 May 08 01:52	4° Ω 18'54	
	16498 Apr 09 12:43	0° H			16503 Jun 15 07:02	0° M	
	16498 May 26 13:28	0° Y			16503 Jul 26 06:36	0° Z	
desc. node	16498 Jul 10 08:14	21° Y 17'57			16503 Sep 03 02:04	0° M	
retrograde	16498 Aug 12 06:59	27° Y 32'42			16503 Oct 11 00:15	0° Z	
min. Earth dist.	16498 Sep 16 22:17	19° Y 26'33	0.62869 AU		16503 Nov 18 02:33	0° Z	
opposition	16498 Sep 21 16:55	17° Y 33'34	-3°00'24	evening set	16503 Nov 24 19:33	5° Z 12'58	
greatest brilliancy	16498 Sep 21 03:00	17° Y 47'17	-1.5m		16503 Dec 27 06:21	0° \approx	
direct	16498 Oct 30 10:19	8° Y 37'03					
	16499 Jan 11 00:49	0° B		conjunction	16504 Jan 28 23:40	24° \approx 07'04	0°21'22
	16499 Mar 08 13:23	0° II		minimum elong	16504 Jan 29 01:11	24° \approx 09'49	0°21'46
	16499 Apr 27 06:25	0° Z			16504 Feb 06 04:02	0° H	
	16499 Jun 12 06:33	0° Ω		desc. node	16504 Mar 01 19:12	17° H 21'28	
evening set	16499 Jul 11 17:30	20° Ω 17'33		max. Earth dist.	16504 Mar 07 18:39	21° H 29'24	2.51730 AU
max. Earth dist.	16499 Jul 25 07:13	29° Ω 55'27	2.46229 AU		16504 Mar 20 05:18	0° Y	
	16499 Jul 25 09:46	0° M		morning rise	16504 Mar 24 07:05	2° Y 45'30	

	16504 May 04 14:59	0°♄		16509 Jun 28 12:09	0°♄
	16504 Jun 21 14:42	0°♂		16509 Aug 30 20:17	0°♄
	16504 Aug 12 07:53	0°♄		16509 Oct 18 06:30	0°♄
	16504 Oct 14 00:15	0°♂	desc. node	16509 Oct 22 11:07	2°♄40'01
retrograde	16504 Nov 28 08:32	9°♂45'11		16509 Dec 04 07:16	0°♄
opposition	16505 Jan 04 23:15	1°♂26'50 -3°29'00		16510 Jan 20 13:54	0°♄
greatest brilliancy	16505 Jan 05 21:08	1°♂06'04 -1.7m		16510 Mar 09 06:11	0°♄
	16505 Jan 08 18:33	30°♄	evening set	16510 Apr 14 05:18	22°♄36'19
min. Earth dist.	16505 Jan 11 16:14	28°♄54'21 0.58994 AU		16510 Apr 25 22:48	0°♂
direct	16505 Feb 14 10:57	21°♄40'42	max. Earth dist.	16510 May 19 23:04	15°♂12'37 2.67832 AU
	16505 Mar 24 21:50	0°♂			
asc. node	16505 Mar 25 05:59	0°♂07'59	conjunction	16510 May 27 17:42	20°♂09'43 -1°13'50
	16505 May 19 22:29	0°♄	minimum elong	16510 May 27 18:03	20°♂10'16 1°14'26
	16505 Jul 02 08:09	0°♂		16510 Jun 12 02:41	0°♄
	16505 Aug 11 01:40	0°♄	morning rise	16510 Jul 10 04:08	18°♄08'39
	16505 Sep 18 14:04	0°♄		16510 Jul 28 06:32	0°♂
	16505 Oct 27 07:16	0°♄		16510 Sep 11 02:45	0°♄
	16505 Dec 06 04:32	0°♄		16510 Oct 24 12:22	0°♂
	16506 Jan 16 20:27	0°♄	asc. node	16510 Nov 15 13:19	15°♂37'12
desc. node	16506 Jan 17 12:59	0°♄29'04		16510 Dec 05 13:08	0°♄
evening set	16506 Jan 24 20:24	5°♄36'05		16511 Jan 15 16:26	0°♄
	16506 Mar 01 12:13	0°♄		16511 Feb 26 04:06	0°♄
				16511 Apr 12 15:33	0°♄
conjunction	16506 Mar 17 08:49	10°♄34'38 -0°35'25	retrograde	16511 Jun 16 05:06	23°♄06'35
minimum elong	16506 Mar 17 07:27	10°♄32'23 0°35'27	min. Earth dist.	16511 Jul 13 20:50	17°♄48'25 0.45625 AU
max. Earth dist.	16506 Apr 05 17:39	23°♄18'05 2.62488 AU	greatest brilliancy	16511 Jul 21 10:08	15°♄11'02 -2.4m
	16506 Apr 16 01:20	0°♄	opposition	16511 Jul 22 06:02	14°♄53'39 2°51'38
morning rise	16506 May 02 21:16	10°♄49'11	direct	16511 Aug 24 03:09	8°♄13'27
	16506 Jun 02 04:38	0°♂	desc. node	16511 Sep 09 16:54	9°♄53'58
	16506 Jul 20 18:01	0°♄		16511 Nov 02 14:18	0°♄
	16506 Sep 09 03:41	0°♂		16511 Dec 28 07:02	0°♄
	16506 Nov 02 22:01	0°♄		16512 Feb 17 09:10	0°♄
retrograde	16507 Jan 20 22:11	25°♄26'03		16512 Apr 06 13:06	0°♂
asc. node	16507 Feb 10 11:49	22°♄46'48	evening set	16512 May 18 03:02	26°♂11'53
opposition	16507 Feb 23 06:06	18°♄55'15 0°47'09		16512 May 24 01:11	0°♄
greatest brilliancy	16507 Feb 23 12:16	18°♄50'05 -2.4m	max. Earth dist.	16512 Jun 11 10:59	11°♄56'15 2.62280 AU
min. Earth dist.	16507 Mar 03 21:18	16°♄02'34 0.45502 AU			
direct	16507 Mar 31 14:09	10°♄56'46	conjunction	16512 Jul 01 23:47	25°♄29'25 -0°53'15
	16507 May 28 12:49	0°♂	minimum elong	16512 Jul 02 01:14	25°♄31'50 0°53'50
	16507 Jul 14 02:33	0°♄		16512 Jul 08 17:40	0°♂
	16507 Aug 24 10:23	0°♄	morning rise	16512 Aug 18 12:30	27°♂55'47
	16507 Oct 04 02:01	0°♄		16512 Aug 21 11:27	0°♄
	16507 Nov 14 15:16	0°♄	asc. node	16512 Oct 02 08:17	0°♂00'56
desc. node	16507 Dec 05 09:01	14°♄34'27		16512 Oct 02 07:47	0°♂
	16507 Dec 27 18:28	0°♄		16512 Nov 11 12:41	0°♄
	16508 Feb 10 14:14	0°♄		16512 Dec 20 14:44	0°♄
evening set	16508 Mar 08 18:10	17°♄43'01		16513 Jan 28 09:40	0°♄
	16508 Mar 27 19:51	0°♄		16513 Mar 09 02:52	0°♄
				16513 Apr 20 20:16	0°♄
conjunction	16508 Apr 23 03:59	16°♄49'02 -1°07'34		16513 Jun 12 00:13	0°♄
minimum elong	16508 Apr 23 02:59	16°♄47'26 1°07'58	desc. node	16513 Jul 27 20:56	12°♄35'24
max. Earth dist.	16508 Apr 28 02:59	19°♄58'08 2.67927 AU	retrograde	16513 Jul 29 18:24	12°♄36'54
	16508 May 13 22:31	0°♂	min. Earth dist.	16513 Sep 01 09:07	5°♄11'00 0.58937 AU
morning rise	16508 Jun 05 09:51	14°♂13'09	opposition	16513 Sep 07 13:35	2°♄46'21 -1°54'14
	16508 Jun 30 09:04	0°♄	greatest brilliancy	16513 Sep 07 01:51	2°♄57'47 -1.7m
	16508 Aug 16 18:24	0°♂		16513 Sep 14 22:44	30°♄
	16508 Oct 02 23:37	0°♄	direct	16513 Oct 15 00:01	24°♄16'57
	16508 Nov 19 07:07	0°♂		16513 Nov 17 07:46	0°♄
asc. node	16508 Dec 28 14:19	24°♂21'58		16514 Jan 23 16:00	0°♄
	16509 Jan 07 00:06	0°♄		16514 Mar 17 17:06	0°♂
	16509 Mar 06 20:35	0°♄		16514 May 05 11:32	0°♄
retrograde	16509 Apr 09 08:35	6°♄44'05		16514 Jun 20 06:40	0°♂
opposition	16509 May 08 19:01	1°♄49'51 7°24'54	evening set	16514 Jun 25 09:41	3°♂28'14
min. Earth dist.	16509 May 08 08:56	1°♄56'30 0.36366 AU	max. Earth dist.	16514 Jul 10 17:02	13°♂58'14 2.51584 AU
greatest brilliancy	16509 May 08 16:26	1°♄51'32 -3.0m		16514 Aug 02 12:15	0°♄
	16509 May 15 21:32	30°♄			
direct	16509 Jun 06 22:35	26°♄59'42	conjunction	16514 Aug 15 05:40	9°♄08'47 -0°03'17

minimum elong	16514 Aug 15 05:50	9° \mathbb{M} 09'05	0°03'33		16519 Aug 23 23:26	0° \mathfrak{G}
behind sun begin	16514 Aug 14 07:24	8° \mathbb{M} 28'29		retrograde	16519 Nov 12 20:12	25° \mathfrak{G} 30'25
behind sun end	16514 Aug 16 04:17	9° \mathbb{M} 49'45		opposition	16519 Dec 21 13:37	16° \mathfrak{G} 44'53 -4°14'34
asc. node	16514 Aug 20 00:15	12° \mathbb{M} 36'55		greatest brilliancy	16519 Dec 22 09:38	16° \mathfrak{G} 25'34 -1.5m
	16514 Sep 12 13:08	0° \mathfrak{L}		min. Earth dist.	16519 Dec 26 20:50	14° \mathfrak{G} 42'15 0.62956 AU
morning rise	16514 Oct 13 11:04	23° \mathfrak{L} 29'26		direct	16520 Jan 31 17:42	6° \mathfrak{G} 46'24
	16514 Oct 21 21:09	0° \mathbb{M}		asc. node	16520 Apr 10 19:10	29° \mathfrak{G} 25'31
	16514 Nov 29 04:30	0° \mathfrak{X}			16520 Apr 11 20:46	0° \mathcal{O}
	16515 Jan 06 06:59	0° \mathfrak{Z}			16520 May 30 13:16	0° \mathbb{M}
	16515 Feb 14 03:38	0° \approx			16520 Jul 11 13:14	0° \mathfrak{L}
	16515 Mar 26 21:31	0° \mathfrak{H}			16520 Aug 19 18:07	0° \mathbb{M}
	16515 May 10 02:51	0° \mathcal{Y}			16520 Sep 26 22:30	0° \mathfrak{X}
desc. node	16515 Jun 14 22:20	21° \mathcal{Y} 29'39			16520 Nov 04 07:50	0° \mathfrak{Z}
	16515 Jul 01 01:47	0° \mathfrak{B}			16520 Dec 13 20:18	0° \approx
retrograde	16515 Sep 03 16:37	19° \mathfrak{B} 17'50		evening set	16521 Jan 03 15:28	15° \approx 17'29
min. Earth dist.	16515 Oct 12 02:11	10° \mathfrak{B} 18'37	0.67045 AU		16521 Jan 24 03:12	0° \mathfrak{H}
opposition	16515 Oct 14 13:21	9° \mathfrak{B} 20'02	-4°10'45	desc. node	16521 Feb 03 05:17	7° \mathfrak{H} 06'43
greatest brilliancy	16515 Oct 14 03:19	9° \mathfrak{B} 29'58	-1.3m			
	16515 Nov 19 06:13	30° \mathfrak{R} \mathcal{Y}		conjunction	16521 Feb 28 09:28	24° \mathfrak{H} 30'37 -0°16'00
direct	16515 Nov 23 19:10	29° \mathcal{Y} 52'30		minimum elong	16521 Feb 28 08:40	24° \mathfrak{H} 29'16 0°15'52
	16515 Nov 28 10:14	0° \mathfrak{B}		behind sun begin	16521 Feb 28 07:36	24° \mathfrak{H} 27'26
	16516 Feb 21 18:40	0° \mathbb{I}		behind sun end	16521 Feb 28 09:45	24° \mathfrak{H} 31'05
	16516 Apr 14 09:02	0° \mathfrak{G}			16521 Mar 08 11:36	0° \mathcal{Y}
	16516 May 31 04:20	0° \mathcal{O}		max. Earth dist.	16521 Mar 26 16:08	12° \mathcal{Y} 10'32 2.58888 AU
asc. node	16516 Jul 06 17:49	25° \mathcal{O} 14'08		morning rise	16521 Apr 18 10:54	27° \mathcal{Y} 07'33
	16516 Jul 13 09:57	0° \mathbb{M}			16521 Apr 22 21:22	0° \mathfrak{B}
evening set	16516 Aug 13 00:33	22° \mathbb{M} 26'39			16521 Jun 09 05:13	0° \mathbb{I}
	16516 Aug 23 01:29	0° \mathfrak{L}			16521 Jul 28 14:33	0° \mathfrak{G}
max. Earth dist.	16516 Sep 06 04:52	10° \mathfrak{L} 47'26	2.37871 AU		16521 Sep 19 10:36	0° \mathcal{O}
	16516 Sep 30 22:22	0° \mathbb{M}			16521 Nov 24 23:07	0° \mathbb{M}
				retrograde	16521 Dec 28 12:39	5° \mathbb{M} 50'42
conjunction	16516 Oct 17 14:23	13° \mathbb{M} 07'38	1°00'45		16522 Jan 28 13:23	30° \mathfrak{R} \mathcal{O}
minimum elong	16516 Oct 17 10:56	13° \mathbb{M} 00'48	1°01'07	opposition	16522 Feb 01 19:45	28° \mathcal{O} 29'51 -1°22'15
	16516 Nov 07 21:03	0° \mathfrak{X}		greatest brilliancy	16522 Feb 02 07:51	28° \mathcal{O} 18'59 -2.1m
	16516 Dec 15 18:50	0° \mathfrak{Z}		min. Earth dist.	16522 Feb 10 05:42	25° \mathcal{O} 29'20 0.51144 AU
morning rise	16516 Dec 31 17:47	12° \mathfrak{Z} 28'11		asc. node	16522 Feb 27 00:03	20° \mathcal{O} 47'17
	16517 Jan 23 13:04	0° \approx		direct	16522 Mar 12 07:33	19° \mathcal{O} 31'48
	16517 Mar 05 00:09	0° \mathfrak{H}			16522 Apr 23 08:56	0° \mathbb{M}
	16517 Apr 16 23:56	0° \mathcal{Y}			16522 Jun 14 05:21	0° \mathfrak{L}
desc. node	16517 May 01 20:17	9° \mathcal{Y} 51'36			16522 Jul 26 04:04	0° \mathbb{M}
	16517 Jun 02 15:39	0° \mathfrak{B}			16522 Sep 03 19:15	0° \mathfrak{X}
	16517 Jul 26 08:47	0° \mathbb{I}			16522 Oct 13 09:12	0° \mathfrak{Z}
retrograde	16517 Oct 06 18:27	21° \mathbb{I} 55'21			16522 Nov 23 01:45	0° \approx
opposition	16517 Nov 16 05:28	12° \mathbb{I} 22'17	-4°54'40	desc. node	16522 Dec 22 00:54	20° \approx 38'03
greatest brilliancy	16517 Nov 16 10:44	12° \mathbb{I} 17'06	-1.2m		16523 Jan 04 11:27	0° \mathfrak{H}
min. Earth dist.	16517 Nov 17 15:58	11° \mathbb{I} 48'20	0.68444 AU		16523 Feb 17 17:40	0° \mathcal{Y}
direct	16517 Dec 27 17:05	2° \mathbb{I} 25'16		evening set	16523 Feb 21 23:42	2° \mathcal{Y} 49'17
	16518 Mar 20 15:49	0° \mathfrak{G}			16523 Apr 04 14:51	0° \mathfrak{B}
	16518 May 10 05:21	0° \mathcal{O}				
asc. node	16518 May 24 16:30	9° \mathcal{O} 29'42		conjunction	16523 Apr 10 03:33	3° \mathfrak{B} 33'29 -0°58'15
	16518 Jun 23 09:15	0° \mathbb{M}		minimum elong	16523 Apr 10 02:12	3° \mathfrak{B} 31'20 0°58'31
	16518 Aug 03 03:05	0° \mathfrak{L}		max. Earth dist.	16523 Apr 20 07:22	10° \mathfrak{B} 04'20 2.66462 AU
	16518 Sep 10 20:52	0° \mathbb{M}			16523 May 21 15:51	0° \mathbb{I}
	16518 Oct 18 17:31	0° \mathfrak{X}		morning rise	16523 May 24 05:04	1° \mathbb{I} 36'42
evening set	16518 Oct 25 00:14	4° \mathfrak{X} 59'12			16523 Jul 08 09:51	0° \mathfrak{G}
	16518 Nov 25 17:01	0° \mathfrak{Z}			16523 Aug 25 15:33	0° \mathcal{O}
	16519 Jan 03 16:34	0° \approx			16523 Oct 13 15:15	0° \mathbb{M}
					16523 Dec 03 20:00	0° \mathfrak{L}
conjunction	16519 Jan 04 09:22	0° \approx 31'42	0°46'06	asc. node	16524 Jan 15 05:18	21° \mathfrak{L} 42'20
minimum elong	16519 Jan 04 12:42	0° \approx 37'59	0°46'37		16524 Feb 05 14:54	0° \mathbb{M}
	16519 Feb 13 09:24	0° \mathfrak{H}		retrograde	16524 Mar 06 19:29	5° \mathbb{M} 14'36
max. Earth dist.	16519 Feb 21 02:36	5° \mathfrak{H} 31'03	2.46313 AU	opposition	16524 Apr 05 20:47	0° \mathbb{M} 08'23 5°25'23
morning rise	16519 Mar 06 15:10	15° \mathfrak{H} 03'27			16524 Apr 06 08:40	30° \mathfrak{R} \mathfrak{L}
desc. node	16519 Mar 19 13:06	24° \mathfrak{H} 00'29		greatest brilliancy	16524 Apr 06 17:24	29° \mathfrak{L} 53'49 -2.9m
	16519 Mar 28 07:30	0° \mathcal{Y}		min. Earth dist.	16524 Apr 10 20:25	28° \mathfrak{L} 44'17 0.38043 AU
	16519 May 12 19:32	0° \mathfrak{B}		direct	16524 May 07 06:54	24° \mathfrak{L} 24'39
	16519 Jun 30 12:21	0° \mathbb{I}			16524 Jun 05 10:42	0° \mathbb{M}

	16524 Jul 31 22:54	0°♊		morning rise	16529 Sep 18 19:55	29°♎12'12	
	16524 Sep 15 03:23	0°♊			16529 Sep 19 21:40	0°♎	
	16524 Oct 29 07:34	0°♊			16529 Oct 29 12:39	0°♎	
desc. node	16524 Nov 07 23:59	6°♊31'46			16529 Dec 07 01:47	0°♊	
	16524 Dec 13 05:31	0°♊			16530 Jan 14 08:44	0°♊	
	16525 Jan 28 06:44	0°♊			16530 Feb 22 09:53	0°♊	
	16525 Mar 16 06:13	0°♊			16530 Apr 04 13:12	0°♊	
evening set	16525 Mar 31 12:21	9°♊40'10			16530 May 20 02:31	0°♊	
	16525 May 02 15:26	0°♊		desc. node	16530 Jul 01 13:42	22°♊51'05	
max. Earth dist.	16525 May 11 14:53	5°♊41'05	2.68532 AU		16530 Jul 19 13:59	0°♊	
				retrograde	16530 Aug 21 04:45	6°♊01'07	
conjunction	16525 May 14 08:46	7°♊25'27	-1°14'30		16530 Sep 20 13:34	30°♊♊	
minimum elong	16525 May 14 08:34	7°♊25'07	1°15'02	min. Earth dist.	16530 Sep 26 21:18	27°♊35'02	0.64638 AU
	16525 Jun 18 20:20	0°♊		opposition	16530 Sep 30 20:36	26°♊00'53	-3°30'58
morning rise	16525 Jun 26 07:42	4°♊47'00		greatest brilliancy	16530 Sep 30 07:12	26°♊14'07	-1.4m
	16525 Aug 04 09:13	0°♊		direct	16530 Nov 09 05:01	16°♊52'02	
	16525 Sep 18 22:47	0°♊			16531 Jan 02 06:13	0°♊	
	16525 Nov 02 10:05	0°♊			16531 Mar 03 14:15	0°♊	
asc. node	16525 Dec 02 05:56	20°♊31'16			16531 Apr 23 04:09	0°♊	
	16525 Dec 15 21:38	0°♊			16531 Jun 08 11:01	0°♊	
	16526 Jan 28 02:53	0°♊			16531 Jul 21 15:33	0°♊	
	16526 Mar 14 17:33	0°♊		evening set	16531 Jul 23 12:45	1°♊21'03	
retrograde	16526 May 24 15:49	26°♊55'51		asc. node	16531 Jul 24 11:22	2°♊01'42	
min. Earth dist.	16526 Jun 19 13:59	22°♊25'46	0.40393 AU	max. Earth dist.	16531 Aug 06 18:36	11°♊40'45	2.43179 AU
opposition	16526 Jun 26 23:23	20°♊08'21	5°25'10		16531 Aug 31 10:07	0°♊	
greatest brilliancy	16526 Jun 25 16:50	20°♊32'09	-2.7m				
direct	16526 Jul 27 14:20	14°♊28'29		conjunction	16531 Sep 20 02:42	15°♊00'19	0°38'20
	16526 Sep 21 12:16	0°♊		minimum elong	16531 Sep 19 23:47	14°♊54'44	0°38'23
desc. node	16526 Sep 26 04:11	2°♊11'29			16531 Oct 09 10:43	0°♊	
	16526 Nov 16 22:12	0°♊			16531 Nov 16 11:53	0°♊	
	16527 Jan 06 16:24	0°♊		morning rise	16531 Nov 30 04:01	10°♊50'13	
	16527 Feb 25 00:47	0°♊			16531 Dec 24 10:25	0°♊	
	16527 Apr 14 11:27	0°♊			16532 Feb 01 04:05	0°♊	
evening set	16527 May 05 11:20	13°♊12'45			16532 Mar 12 15:10	0°♊	
	16527 May 31 18:44	0°♊			16532 Apr 24 20:37	0°♊	
max. Earth dist.	16527 Jun 02 22:23	1°♊23'11	2.65092 AU	desc. node	16532 May 18 11:51	15°♊19'34	
					16532 Jun 11 14:24	0°♊	
conjunction	16527 Jun 18 09:25	11°♊24'24	-1°04'34		16532 Aug 10 11:43	0°♊	
minimum elong	16527 Jun 18 10:33	11°♊26'15	1°05'11	retrograde	16532 Sep 23 10:04	9°♊34'12	
	16527 Jul 16 14:19	0°♊			16532 Nov 02 17:32	30°♊♊	
morning rise	16527 Aug 02 16:56	11°♊29'51		opposition	16532 Nov 03 04:49	29°♊48'51	-4°47'10
	16527 Aug 29 16:45	0°♊		greatest brilliancy	16532 Nov 03 03:29	29°♊50'10	-1.2m
	16527 Oct 11 01:10	0°♊		min. Earth dist.	16532 Nov 03 02:31	29°♊51'07	0.68715 AU
asc. node	16527 Oct 20 01:00	6°♊31'39		direct	16532 Dec 14 09:14	20°♊00'38	
	16527 Nov 20 19:30	0°♊			16533 Jan 29 03:34	0°♊	
	16527 Dec 30 10:56	0°♊			16533 Mar 30 22:21	0°♊	
	16528 Feb 07 20:22	0°♊			16533 May 18 10:27	0°♊	
	16528 Mar 19 12:14	0°♊		asc. node	16533 Jun 10 07:11	15°♊23'46	
	16528 May 03 21:26	0°♊			16533 Jul 01 02:16	0°♊	
retrograde	16528 Jul 13 23:14	25°♊46'17			16533 Aug 10 17:58	0°♊	
desc. node	16528 Aug 13 10:37	19°♊26'17		evening set	16533 Sep 18 12:18	0°♊	
min. Earth dist.	16528 Aug 14 07:48	19°♊06'38	0.54112 AU		16533 Sep 23 17:05	4°♊05'42	
opposition	16528 Aug 21 17:47	16°♊17'21	-0°25'17		16533 Oct 26 09:03	0°♊	
greatest brilliancy	16528 Aug 21 14:34	16°♊20'25	-2.0m		16533 Dec 03 07:02	0°♊	
direct	16528 Sep 26 13:58	8°♊23'03					
	16528 Dec 07 14:57	0°♊		conjunction	16533 Dec 06 07:37	2°♊22'11	1°04'46
	16529 Feb 02 07:52	0°♊		minimum elong	16533 Dec 06 10:23	2°♊27'34	1°05'23
	16529 Mar 25 08:38	0°♊			16534 Jan 11 03:24	0°♊	
	16529 May 12 11:59	0°♊		max. Earth dist.	16534 Jan 28 20:37	13°♊17'40	2.40555 AU
evening set	16529 Jun 09 17:35	18°♊21'00		morning rise	16534 Feb 12 19:06	24°♊17'00	
	16529 Jun 27 04:47	0°♊			16534 Feb 20 16:21	0°♊	
max. Earth dist.	16529 Jun 28 03:55	0°♊39'00	2.56323 AU		16534 Apr 04 12:39	0°♊	
				desc. node	16534 Apr 05 07:08	0°♊31'21	
conjunction	16529 Jul 27 11:37	20°♊46'26	-0°26'09		16534 May 20 06:12	0°♊	
minimum elong	16529 Jul 27 12:49	20°♊48'32	0°26'34		16534 Jul 09 02:27	0°♊	
	16529 Aug 09 14:13	0°♊			16534 Sep 07 02:27	0°♊	
asc. node	16529 Sep 05 18:07	19°♊34'10		retrograde	16534 Oct 28 16:46	12°♊12'31	

opposition	16534 Dec 07 06:48	3°☾05'05 -4°41'32			16539 Nov 08 22:26	0°≈
greatest brilliancy	16534 Dec 07 22:02	2°☾50'13 -1.3m	desc. node		16539 Nov 25 14:45	11°≈36'20
min. Earth dist.	16534 Dec 11 02:21	1°☾35'51 0.65924 AU			16539 Dec 22 12:53	0°✕
	16534 Dec 15 06:48	30°☿II			16540 Feb 05 16:51	0°☿
direct	16535 Jan 17 19:01	23°II02'42	evening set		16540 Mar 17 06:07	26°☿13'58
	16535 Feb 23 00:46	0°☾			16540 Mar 23 03:22	0°♄
	16535 Apr 24 17:23	0°♁				
asc. node	16535 Apr 28 09:18	2°♁12'59	conjunction		16540 Apr 30 22:58	24°♄42'01 -1°11'18
	16535 Jun 09 17:51	0°♊	minimum elong		16540 Apr 30 22:15	24°♄40'52 1°11'45
	16535 Jul 21 00:34	0°♊	max. Earth dist.		16540 May 03 03:43	26°♄05'39 2.68378 AU
	16535 Aug 28 22:46	0°♊			16540 May 09 07:35	0°II
	16535 Oct 05 22:30	0°♊	morning rise		16540 Jun 12 23:02	21°II57'00
	16535 Nov 13 02:36	0°♄			16540 Jun 25 15:34	0°☾
evening set	16535 Dec 10 18:30	21°♄15'39			16540 Aug 11 16:30	0°♁
	16535 Dec 22 08:42	0°≈			16540 Sep 27 05:11	0°♊
	16536 Feb 01 08:36	0°✕			16540 Nov 12 06:05	0°♊
			asc. node		16540 Dec 18 20:49	23°♊53'32
conjunction	16536 Feb 10 04:59	6°✕16'59 0°07'03			16540 Dec 28 07:15	0°♊
minimum elong	16536 Feb 10 05:26	6°✕17'47 0°07'21			16541 Feb 14 18:29	0°♊
behind sun begin	16536 Feb 09 08:11	5°✕40'16	retrograde		16541 Apr 27 00:45	25°♊50'05
behind sun end	16536 Feb 11 02:41	6°✕55'16	min. Earth dist.		16541 May 23 22:47	21°♊28'20 0.36958 AU
desc. node	16536 Feb 20 22:58	13°✕49'40	opposition		16541 May 27 12:53	20°♊29'11 7°20'22
max. Earth dist.	16536 Mar 15 04:32	29°✕48'24 2.54507 AU	greatest brilliancy		16541 May 26 17:37	20°♊42'27 -3.0m
	16536 Mar 15 11:22	0°☿	direct		16541 Jun 25 16:05	15°♊35'44
morning rise	16536 Apr 02 20:58	12°☿21'14			16541 Aug 16 12:34	0°♄
	16536 Apr 29 19:35	0°♄			16541 Oct 10 00:38	0°≈
	16536 Jun 16 11:24	0°II	desc. node		16541 Oct 12 18:09	1°≈38'08
	16536 Aug 06 02:32	0°☾			16541 Nov 28 00:04	0°✕
	16536 Oct 02 10:33	0°♁			16542 Jan 15 05:11	0°☿
retrograde	16536 Dec 08 12:02	18°♁57'06			16542 Mar 04 09:05	0°♄
opposition	16537 Jan 14 09:25	10°♁56'28 -2°51'33	evening set		16542 Apr 21 23:01	0°II25'02
greatest brilliancy	16537 Jan 15 05:56	10°♁37'17 -1.8m			16542 Apr 21 07:07	0°II
min. Earth dist.	16537 Jan 21 19:30	8°♁10'24 0.56429 AU	max. Earth dist.		16542 May 25 00:40	21°II22'28 2.67086 AU
direct	16537 Feb 23 08:06	1°♁22'20				
asc. node	16537 Mar 15 14:19	3°♁56'53	conjunction		16542 Jun 04 11:42	28°II03'58 -1°11'39
	16537 May 11 23:38	0°♊	minimum elong		16542 Jun 04 12:21	28°II05'02 1°12'15
	16537 Jun 25 23:55	0°♊			16542 Jun 07 11:58	0°☾
	16537 Aug 05 06:29	0°♊	morning rise		16542 Jul 18 09:54	26°☾37'11
	16537 Sep 13 01:32	0°♊			16542 Jul 23 12:44	0°♁
	16537 Oct 21 23:55	0°♄			16542 Sep 06 02:30	0°♊
	16537 Dec 01 02:10	0°≈			16542 Oct 19 02:23	0°♊
desc. node	16538 Jan 07 15:55	26°≈59'45	asc. node		16542 Nov 05 18:59	12°♊39'54
	16538 Jan 11 22:38	0°✕			16542 Nov 29 14:48	0°♊
evening set	16538 Feb 04 16:02	16°✕24'30			16543 Jan 09 01:59	0°♊
	16538 Feb 24 18:16	0°☿			16543 Feb 18 12:40	0°♄
					16543 Apr 02 06:10	0°≈
conjunction	16538 Mar 26 08:22	19°☿34'40 -0°45'01			16543 May 27 09:48	0°✕
minimum elong	16538 Mar 26 06:54	19°☿32'17 0°45'08	retrograde		16543 Jun 27 07:50	6°✕15'06
max. Earth dist.	16538 Apr 11 06:25	29°☿55'40 2.64148 AU	min. Earth dist.		16543 Jul 26 07:13	0°✕26'58 0.48705 AU
	16538 Apr 11 09:06	0°♄			16543 Jul 27 13:35	30°☿≈
morning rise	16538 May 10 19:02	18°♄50'33	opposition		16543 Aug 03 13:12	27°≈27'19 1°31'33
	16538 May 28 10:32	0°II	greatest brilliancy		16543 Aug 03 02:16	27°≈37'17 -2.3m
	16538 Jul 15 15:16	0°☾	desc. node		16543 Aug 30 22:53	20°≈34'52
	16538 Sep 03 01:46	0°♁	direct		16543 Sep 06 12:28	20°≈17'40
	16538 Oct 24 23:45	0°♊			16543 Oct 20 08:03	0°✕
	16538 Dec 26 01:31	0°♊			16543 Dec 21 09:04	0°☿
asc. node	16539 Jan 31 18:26	8°♊33'40			16544 Feb 11 22:33	0°♄
retrograde	16539 Feb 05 03:19	8°♊40'44			16544 Apr 01 16:08	0°II
opposition	16539 Mar 09 03:56	2°♊41'14 2°21'27			16544 May 19 09:14	0°☾
greatest brilliancy	16539 Mar 09 20:16	2°♊28'16 -2.6m	evening set		16544 May 26 03:30	4°☾21'23
min. Earth dist.	16539 Mar 17 04:43	0°♊08'39 0.42496 AU	max. Earth dist.		16544 Jun 17 06:54	18°☾49'05 2.60359 AU
	16539 Mar 17 16:00	30°☿♊			16544 Jul 04 01:49	0°♁
direct	16539 Apr 12 23:20	25°♊27'01				
	16539 May 08 21:37	0°♊	conjunction		16544 Jul 10 19:51	4°♁33'04 -0°44'37
	16539 Jul 04 19:02	0°♊	minimum elong		16544 Jul 10 21:21	4°♁35'34 0°45'08
	16539 Aug 17 02:44	0°♊			16544 Aug 16 16:53	0°♊
	16539 Sep 27 17:33	0°♄	morning rise		16544 Aug 29 01:10	8°♊45'02

asc. node	16544 Sep 22 11:49	26° \mathbb{M} 25'23		min. Earth dist.	16549 Nov 26 01:18	19° \mathbb{I} 14'13	0.67849 AU
	16544 Sep 27 08:46	0° \mathbb{L}		direct	16550 Jan 04 08:29	10° \mathbb{I} 07'54	
	16544 Nov 06 08:51	0° \mathbb{M}			16550 Mar 12 15:12	0° \mathbb{G}	
	16544 Dec 15 05:58	0° \mathbb{J}			16550 May 04 10:14	0° \mathbb{Q}	
	16545 Jan 22 19:43	0° \mathbb{Z}		asc. node	16550 May 14 23:09	6° \mathbb{Q} 45'21	
	16545 Mar 03 05:02	0° \approx			16550 Jun 18 03:42	0° \mathbb{M}	
	16545 Apr 14 02:26	0° \mathbb{H}			16550 Jul 29 01:52	0° \mathbb{L}	
	16545 Jun 01 11:42	0° \mathbb{Y}			16550 Sep 05 21:18	0° \mathbb{M}	
desc. node	16545 Jul 18 03:33	19° \mathbb{Y} 16'45		greatest brilliancy	16550 Oct 09 15:04	26° \mathbb{M} 42'06	1.1m
retrograde	16545 Aug 07 03:21	21° \mathbb{Y} 47'15			16550 Oct 13 18:46	0° \mathbb{J}	
min. Earth dist.	16545 Sep 10 21:34	13° \mathbb{Y} 58'59	0.61220 AU	evening set	16550 Nov 11 14:25	22° \mathbb{J} 47'20	
opposition	16545 Sep 16 08:14	11° \mathbb{Y} 50'52	-2°35'28		16550 Nov 20 19:12	0° \mathbb{Z}	
greatest brilliancy	16545 Sep 15 18:29	12° \mathbb{Y} 04'21	-1.6m		16550 Dec 29 20:04	0° \approx	
direct	16545 Oct 24 13:09	3° \mathbb{Y} 05'45					
	16546 Jan 16 08:26	0° \mathbb{B}		conjunction	16551 Jan 18 18:38	14° \approx 51'51	0°32'12
	16546 Mar 12 06:11	0° \mathbb{I}		minimum elong	16551 Jan 18 21:01	14° \approx 56'15	0°32'38
	16546 Apr 30 14:18	0° \mathbb{G}			16551 Feb 08 14:01	0° \mathbb{H}	
	16546 Jun 15 13:27	0° \mathbb{Q}		max. Earth dist.	16551 Mar 02 12:56	15° \mathbb{H} 32'49	2.49365 AU
evening set	16546 Jul 04 23:33	13° \mathbb{Q} 15'45		desc. node	16551 Mar 09 16:15	20° \mathbb{H} 30'37	
max. Earth dist.	16546 Jul 19 02:33	23° \mathbb{Q} 07'42	2.48668 AU	morning rise	16551 Mar 17 12:51	25° \mathbb{H} 55'21	
	16546 Jul 28 18:55	0° \mathbb{M}			16551 Mar 23 12:14	0° \mathbb{Y}	
asc. node	16546 Aug 10 04:52	8° \mathbb{M} 56'15			16551 May 07 20:56	0° \mathbb{B}	
					16551 Jun 25 01:28	0° \mathbb{I}	
conjunction	16546 Aug 27 03:28	21° \mathbb{M} 21'29	0°11'37		16551 Aug 16 15:39	0° \mathbb{G}	
minimum elong	16546 Aug 27 02:42	21° \mathbb{M} 20'03	0°11'27		16551 Oct 25 09:11	0° \mathbb{Q}	
behind sun begin	16546 Aug 26 09:21	20° \mathbb{M} 47'57		retrograde	16551 Nov 22 00:06	3° \mathbb{Q} 59'51	
behind sun end	16546 Aug 27 20:02	21° \mathbb{M} 52'11			16551 Dec 17 08:05	30° \mathbb{R} \mathbb{G}	
	16546 Sep 07 17:39	0° \mathbb{L}		opposition	16551 Dec 30 03:59	25° \mathbb{G} 28'26	-3°50'32
	16546 Oct 16 23:07	0° \mathbb{M}		greatest brilliancy	16551 Dec 31 01:23	25° \mathbb{G} 07'57	-1.6m
morning rise	16546 Oct 29 12:00	9° \mathbb{M} 47'15		min. Earth dist.	16552 Jan 05 06:23	23° \mathbb{G} 08'38	0.60883 AU
	16546 Nov 24 04:04	0° \mathbb{J}		direct	16552 Feb 09 00:24	15° \mathbb{G} 35'38	
greatest brilliancy	16546 Dec 23 05:00	22° \mathbb{J} 56'05	1.2m	asc. node	16552 Apr 01 02:22	29° \mathbb{G} 34'58	
	16547 Jan 01 04:43	0° \mathbb{Z}			16552 Apr 01 23:42	0° \mathbb{Q}	
	16547 Feb 08 23:32	0° \approx			16552 May 24 00:40	0° \mathbb{M}	
	16547 Mar 21 13:15	0° \mathbb{H}			16552 Jul 05 18:58	0° \mathbb{L}	
	16547 May 04 06:03	0° \mathbb{Y}			16552 Aug 14 07:08	0° \mathbb{M}	
desc. node	16547 Jun 05 04:09	19° \mathbb{Y} 53'32			16552 Sep 21 15:38	0° \mathbb{J}	
	16547 Jun 22 23:43	0° \mathbb{B}			16552 Oct 30 04:31	0° \mathbb{Z}	
retrograde	16547 Sep 11 05:24	27° \mathbb{B} 04'53			16552 Dec 08 20:46	0° \approx	
min. Earth dist.	16547 Oct 20 11:54	17° \mathbb{B} 49'21	0.67940 AU	evening set	16553 Jan 16 00:13	27° \approx 40'12	
opposition	16547 Oct 22 03:07	17° \mathbb{B} 10'34	-4°27'54		16553 Jan 19 07:09	0° \mathbb{H}	
greatest brilliancy	16547 Oct 21 19:48	17° \mathbb{B} 17'49	-1.3m	desc. node	16553 Jan 24 09:55	3° \mathbb{H} 36'23	
direct	16547 Dec 01 18:53	7° \mathbb{B} 34'42			16553 Mar 03 18:11	0° \mathbb{Y}	
	16548 Feb 14 05:46	0° \mathbb{I}					
	16548 Apr 08 20:33	0° \mathbb{G}		conjunction	16553 Mar 10 06:08	4° \mathbb{Y} 22'08	-0°27'44
	16548 May 26 04:42	0° \mathbb{Q}		minimum elong	16553 Mar 10 04:55	4° \mathbb{Y} 20'07	0°27'43
asc. node	16548 Jun 27 00:20	21° \mathbb{Q} 46'53		max. Earth dist.	16553 Apr 01 16:23	19° \mathbb{Y} 14'37	2.60973 AU
	16548 Jul 08 14:06	0° \mathbb{M}			16553 Apr 18 04:20	0° \mathbb{B}	
	16548 Aug 18 05:53	0° \mathbb{L}		morning rise	16553 Apr 26 19:11	5° \mathbb{B} 33'40	
evening set	16548 Aug 26 18:12	6° \mathbb{L} 28'46			16553 Jun 04 08:20	0° \mathbb{I}	
	16548 Sep 26 01:55	0° \mathbb{M}			16553 Jul 23 04:35	0° \mathbb{G}	
	16548 Nov 02 23:33	0° \mathbb{J}			16553 Sep 12 10:37	0° \mathbb{Q}	
					16553 Nov 09 07:31	0° \mathbb{M}	
conjunction	16548 Nov 04 06:54	1° \mathbb{J} 02'19	1°07'43	retrograde	16554 Jan 10 04:46	17° \mathbb{M} 00'34	
minimum elong	16548 Nov 04 05:13	0° \mathbb{J} 58'59	1°08'13	opposition	16554 Feb 13 11:04	10° \mathbb{M} 06'05	-0°13'34
max. Earth dist.	16548 Nov 06 17:07	2° \mathbb{J} 58'03	2.36076 AU	greatest brilliancy	16557 Feb 13 19:52	13° \mathbb{Y} 46'52	1.6m
	16548 Dec 10 20:42	0° \mathbb{Z}		asc. node	16554 Feb 17 07:58	8° \mathbb{M} 45'13	
morning rise	16549 Jan 17 16:31	29° \mathbb{Z} 17'40		min. Earth dist.	16554 Feb 22 03:54	7° \mathbb{M} 05'45	0.48038 AU
	16549 Jan 18 14:46	0° \approx		direct	16554 Mar 22 21:28	1° \mathbb{M} 37'26	
	16549 Feb 28 01:12	0° \mathbb{H}			16554 Jun 05 02:39	0° \mathbb{L}	
	16549 Apr 11 21:52	0° \mathbb{Y}			16554 Jul 19 01:34	0° \mathbb{M}	
desc. node	16549 Apr 21 23:13	6° \mathbb{Y} 44'57			16554 Aug 28 12:02	0° \mathbb{J}	
	16549 May 28 01:57	0° \mathbb{B}			16554 Oct 07 13:51	0° \mathbb{Z}	
	16549 Jul 18 20:06	0° \mathbb{I}			16554 Nov 17 16:00	0° \approx	
retrograde	16549 Oct 14 13:15	29° \mathbb{I} 32'53		desc. node	16554 Dec 12 05:30	17° \approx 23'53	
opposition	16549 Nov 23 18:33	20° \mathbb{I} 07'56	-4°53'35		16554 Dec 30 09:35	0° \mathbb{H}	
greatest brilliancy	16549 Nov 24 03:32	19° \mathbb{I} 59'08	-1.3m		16555 Feb 12 21:58	0° \mathbb{Y}	

evening set	16555 Mar 03 02:56	11° Υ 58'11			16560 Feb 01 18:43	0° Ξ		
	16555 Mar 30 22:42	0° \mathcal{B}			16560 Mar 12 19:01	0° \approx		
					16560 Apr 25 06:10	0° \mathcal{H}		
conjunction	16555 Apr 18 05:29	11° \mathcal{B} 42'49	-1°04'13		16560 Jun 21 14:03	0° Υ		
minimum elong	16555 Apr 18 04:20	11° \mathcal{B} 40'58	1°04'34	retrograde	16560 Jul 23 02:56	6° Υ 06'51		
max. Earth dist.	16555 Apr 25 09:54	16° \mathcal{B} 17'43	2.67377 AU	desc. node	16560 Aug 03 16:05	5° Υ 09'30		
	16555 May 16 24:00	0° Π			16560 Aug 22 03:32	30° $\mathcal{R}\mathcal{H}$		
morning rise	16555 May 31 18:41	9° Π 20'42		min. Earth dist.	16560 Aug 24 18:16	29° \mathcal{H} 01'16	0.56894 AU	
	16555 Jul 03 13:17	0° \mathcal{E}		opposition	16560 Aug 31 13:16	26° \mathcal{H} 23'59	-1°20'10	
	16555 Aug 20 06:46	0° \mathcal{Q}		greatest brilliancy	16560 Aug 31 04:05	26° \mathcal{H} 32'51	-1.8m	
	16555 Oct 07 04:37	0° \mathcal{M}		direct	16560 Oct 07 08:06	18° \mathcal{H} 09'07		
	16555 Nov 24 20:50	0° \mathcal{L}			16560 Nov 26 14:53	0° Υ		
asc. node	16556 Jan 05 11:04	24° \mathcal{L} 16'34			16561 Jan 27 01:27	0° \mathcal{B}		
	16556 Jan 16 01:21	0° \mathcal{M}			16561 Mar 20 04:57	0° Π		
retrograde	16556 Mar 25 15:17	22° \mathcal{M} 54'30			16561 May 07 17:41	0° \mathcal{E}		
opposition	16556 Apr 23 23:38	18° \mathcal{M} 03'28	6°50'02	evening set	16561 Jun 18 10:56	27° \mathcal{E} 15'26		
greatest brilliancy	16556 Apr 24 10:24	17° \mathcal{M} 56'17	-3.0m		16561 Jun 22 12:55	0° \mathcal{Q}		
min. Earth dist.	16556 Apr 26 05:00	17° \mathcal{M} 27'58	0.36702 AU	max. Earth dist.	16561 Jul 05 02:26	8° \mathcal{Q} 31'35	2.53796 AU	
direct	16556 May 23 19:13	12° \mathcal{M} 57'59			16561 Aug 04 21:32	0° \mathcal{M}		
	16556 Jul 18 02:31	0° \mathcal{J}						
	16556 Sep 06 12:34	0° Ξ		conjunction	16561 Aug 06 18:16	1° \mathcal{M} 19'33	-0°13'30	
	16556 Oct 22 13:48	0° \approx		minimum elong	16561 Aug 06 18:59	1° \mathcal{M} 20'52	0°13'50	
desc. node	16556 Oct 29 06:29	4° \approx 23'26		behind sun begin	16561 Aug 06 07:29	1° \mathcal{M} 00'23		
	16556 Dec 07 11:59	0° \mathcal{H}		behind sun end	16561 Aug 07 06:30	1° \mathcal{M} 41'21		
	16557 Jan 23 03:38	0° Υ		asc. node	16561 Aug 26 22:59	15° \mathcal{M} 53'07		
	16557 Mar 11 11:24	0° \mathcal{B}			16561 Sep 15 02:19	0° \mathcal{L}		
evening set	16557 Apr 08 09:16	17° \mathcal{B} 36'18		morning rise	16561 Oct 02 03:03	12° \mathcal{L} 48'06		
	16557 Apr 28 00:30	0° Π			16561 Oct 24 14:10	0° \mathcal{M}		
max. Earth dist.	16557 May 16 12:36	11° Π 43'06	2.68244 AU		16561 Dec 02 00:16	0° \mathcal{J}		
					16562 Jan 09 04:11	0° Ξ		
conjunction	16557 May 21 23:46	15° Π 11'19	-1°14'39		16562 Feb 17 01:37	0° \approx		
minimum elong	16557 May 21 23:53	15° Π 11'31	1°15'13		16562 Mar 29 21:11	0° \mathcal{H}		
	16557 Jun 14 04:57	0° \mathcal{E}			16562 May 13 10:54	0° Υ		
morning rise	16557 Jul 04 03:34	12° \mathcal{E} 49'48		desc. node	16562 Jun 21 17:56	22° Υ 47'41		
	16557 Jul 30 13:00	0° \mathcal{Q}			16562 Jul 06 11:31	0° \mathcal{B}		
	16557 Sep 13 17:09	0° \mathcal{M}		retrograde	16562 Aug 28 22:39	14° \mathcal{B} 12'31		
	16557 Oct 27 13:44	0° \mathcal{L}		min. Earth dist.	16562 Oct 05 14:54	5° \mathcal{B} 27'49	0.66107 AU	
asc. node	16557 Nov 22 10:44	18° \mathcal{L} 07'21		opposition	16562 Oct 08 18:36	4° \mathcal{B} 12'57	-3°56'23	
	16557 Dec 09 04:40	0° \mathcal{M}		greatest brilliancy	16562 Oct 08 06:42	4° \mathcal{B} 24'43	-1.4m	
	16558 Jan 20 01:52	0° \mathcal{J}			16562 Oct 20 00:12	30° $\mathcal{R}\mathcal{Y}$		
	16558 Mar 03 19:19	0° Ξ		direct	16562 Nov 17 16:12	24° Υ 53'10		
	16558 Apr 22 10:01	0° \approx			16562 Dec 19 07:02	0° \mathcal{B}		
retrograde	16558 Jun 06 21:43	12° \approx 47'46			16563 Feb 25 05:39	0° Π		
min. Earth dist.	16558 Jul 03 15:33	7° \approx 52'36	0.43186 AU		16563 Apr 17 23:19	0° \mathcal{E}		
opposition	16558 Jul 11 19:37	5° \approx 09'41	3°57'17		16563 Jun 03 14:30	0° \mathcal{Q}		
greatest brilliancy	16558 Jul 10 17:47	5° \approx 31'19	-2.6m	asc. node	16563 Jul 14 16:03	28° \mathcal{Q} 25'09		
	16558 Jul 31 00:59	30° $\mathcal{R}\mathcal{E}$			16563 Jul 16 21:06	0° \mathcal{M}		
direct	16558 Aug 12 17:21	28° \mathcal{E} 55'44		evening set	16563 Aug 04 05:33	13° \mathcal{M} 18'54		
	16558 Aug 25 18:19	0° \approx		max. Earth dist.	16563 Aug 21 08:24	26° \mathcal{M} 01'43	2.40138 AU	
desc. node	16558 Sep 16 11:49	5° \approx 37'43			16563 Aug 26 14:59	0° \mathcal{L}		
	16558 Nov 08 12:17	0° \mathcal{H}			16563 Oct 04 14:16	0° \mathcal{M}		
	16558 Dec 31 15:09	0° Υ						
	16559 Feb 19 21:15	0° \mathcal{B}		conjunction	16563 Oct 05 13:15	0° \mathcal{M} 44'58	0°52'16	
	16559 Apr 09 17:35	0° Π		minimum elong	16563 Oct 05 09:35	0° \mathcal{M} 37'48	0°52'28	
evening set	16559 May 13 04:58	21° Π 04'01			16563 Nov 11 14:17	0° \mathcal{J}		
	16559 May 27 04:09	0° \mathcal{E}		morning rise	16563 Dec 18 15:59	29° \mathcal{J} 20'38		
max. Earth dist.	16559 Jun 08 06:53	7° \mathcal{E} 49'41	2.63641 AU		16563 Dec 19 12:00	0° Ξ		
					16564 Jan 27 05:06	0° \approx		
conjunction	16559 Jun 26 13:51	19° \mathcal{E} 47'35	-0°58'35		16564 Mar 07 14:40	0° \mathcal{H}		
minimum elong	16559 Jun 26 15:12	19° \mathcal{E} 49'48	0°59'09		16564 Apr 19 14:26	0° Υ		
	16559 Jul 11 22:48	0° \mathcal{Q}		desc. node	16564 May 08 16:49	12° Υ 35'32		
morning rise	16559 Aug 12 00:07	21° \mathcal{Q} 04'10			16564 Jun 05 12:51	0° \mathcal{B}		
	16559 Aug 24 21:23	0° \mathcal{M}			16564 Jul 30 22:06	0° Π		
	16559 Oct 05 23:39	0° \mathcal{L}		retrograde	16564 Sep 30 23:59	17° Π 09'06		
asc. node	16559 Oct 10 06:48	3° \mathcal{L} 08'03		opposition	16564 Nov 10 15:31	7° Π 30'04	-4°53'11	
	16559 Nov 15 10:53	0° \mathcal{M}		greatest brilliancy	16564 Nov 10 17:47	7° Π 27'51	-1.2m	
	16559 Dec 24 18:35	0° \mathcal{J}		min. Earth dist.	16564 Nov 11 09:21	7° Π 12'31	0.68700 AU	

	16564 Dec 02 13:53	30° κ 8			16570 Feb 20 00:13	0° γ
direct	16564 Dec 22 01:14	27° δ 36'37				
	16565 Jan 11 21:12	0° Π		conjunction	16570 Apr 03 21:08	28° γ 09'43 -0°53'14
	16565 Mar 24 09:15	0° ϕ		minimum elong	16570 Apr 03 19:42	28° γ 07'24 0°53'27
	16565 May 13 01:40	0° Ω			16570 Apr 06 17:21	0° δ
asc. node	16565 May 31 14:04	12° Ω 16'56		max. Earth dist.	16570 Apr 16 13:56	6° δ 21'00 2.65526 AU
	16565 Jun 26 01:49	0° η		morning rise	16570 May 18 11:42	26° δ 40'59
	16565 Aug 05 19:42	0° $\underline{\alpha}$			16570 May 23 17:40	0° Π
	16565 Sep 13 14:22	0° \mathbb{M}			16570 Jul 10 15:28	0° ϕ
evening set	16565 Oct 11 01:10	21° \mathbb{M} 43'22			16570 Aug 28 08:15	0° Ω
	16565 Oct 21 11:06	0° χ			16570 Oct 17 09:22	0° η
	16565 Nov 28 09:23	0° ζ			16570 Dec 10 13:12	0° $\underline{\alpha}$
				asc. node	16571 Jan 22 01:49	18° $\underline{\alpha}$ 10'51
conjunction	16565 Dec 23 04:40	19° ζ 15'35 0°55'29		retrograde	16571 Feb 21 18:54	23° $\underline{\alpha}$ 27'49
minimum elong	16565 Dec 23 08:18	19° ζ 22'34 0°56'02		opposition	16571 Mar 24 15:31	17° $\underline{\alpha}$ 59'47 4°06'09
	16566 Jan 06 06:35	0° \approx		greatest brilliancy	16571 Mar 25 13:39	17° $\underline{\alpha}$ 43'16 -2.8m
max. Earth dist.	16566 Feb 12 11:48	27° \approx 34'30 2.43745 AU		min. Earth dist.	16571 Mar 31 07:47	16° $\underline{\alpha}$ 00'44 0.39778 AU
	16566 Feb 15 20:21	0° χ		direct	16571 Apr 26 14:11	11° $\underline{\alpha}$ 36'09
morning rise	16566 Feb 25 14:03	6° χ 58'32			16571 Jun 22 00:04	0° \mathbb{M}
desc. node	16566 Mar 26 10:36	27° χ 07'12			16571 Aug 08 13:42	0° χ
	16566 Mar 30 15:53	0° γ			16571 Sep 20 18:30	0° ζ
	16566 May 15 04:09	0° δ			16571 Nov 02 21:26	0° \approx
	16566 Jul 03 04:58	0° Π		desc. node	16571 Nov 15 20:32	8° \approx 53'01
	16566 Aug 28 06:47	0° ϕ			16571 Dec 17 03:05	0° χ
retrograde	16566 Nov 06 03:54	20° ϕ 13'28			16572 Jan 31 17:15	0° γ
opposition	16566 Dec 15 07:41	11° ϕ 17'25 -4°27'41			16572 Mar 18 10:01	0° δ
greatest brilliancy	16566 Dec 16 01:44	10° ϕ 59'55 -1.4m		evening set	16572 Mar 25 11:09	4° δ 29'10
min. Earth dist.	16566 Dec 19 23:00	9° ϕ 29'35 0.64416 AU			16572 May 04 16:39	0° Π
direct	16567 Jan 25 16:50	1° ϕ 16'28				
	16567 Apr 17 11:34	0° Ω		conjunction	16572 May 08 14:53	2° Π 29'15 -1°13'42
asc. node	16567 Apr 18 16:15	0° Ω 40'58		minimum elong	16572 May 08 14:27	2° Π 28'34 1°14'12
	16567 Jun 03 22:43	0° η		max. Earth dist.	16572 May 08 01:58	2° Π 08'48 2.68575 AU
	16567 Jul 15 15:46	0° $\underline{\alpha}$		morning rise	16572 Jun 20 12:48	29° Π 44'05
	16567 Aug 23 18:11	0° \mathbb{M}			16572 Jun 20 22:47	0° ϕ
	16567 Sep 30 20:22	0° χ			16572 Aug 06 17:08	0° Ω
	16567 Nov 08 02:34	0° ζ			16572 Sep 21 16:46	0° η
	16567 Dec 17 11:02	0° \approx			16572 Nov 05 19:22	0° $\underline{\alpha}$
evening set	16567 Dec 25 06:41	5° \approx 49'03		asc. node	16572 Dec 09 03:36	22° $\underline{\alpha}$ 29'24
	16568 Jan 27 13:23	0° χ			16572 Dec 20 05:56	0° \mathbb{M}
desc. node	16568 Feb 11 02:23	10° χ 16'18			16573 Feb 03 01:30	0° χ
					16573 Mar 25 07:58	0° ζ
conjunction	16568 Feb 21 09:28	17° χ 26'12 -0°06'41		retrograde	16573 May 13 06:32	14° ζ 17'59
minimum elong	16568 Feb 21 09:05	17° χ 25'33 0°06'29		min. Earth dist.	16573 Jun 08 03:16	9° ζ 59'17 0.38529 AU
behind sun begin	16568 Feb 20 12:19	16° χ 49'38		greatest brilliancy	16573 Jun 13 00:26	8° ζ 33'52 -2.8m
behind sun end	16568 Feb 22 05:51	18° χ 01'26		opposition	16573 Jun 14 05:29	8° ζ 12'36 6°26'42
	16568 Mar 10 17:43	0° γ		direct	16573 Jul 13 22:34	2° ζ 57'46
max. Earth dist.	16568 Mar 22 00:12	7° γ 35'31 2.57023 AU			16573 Sep 29 22:17	0° \approx
morning rise	16568 Apr 11 21:57	21° γ 26'31		desc. node	16573 Oct 02 23:27	1° \approx 39'00
	16568 Apr 25 01:19	0° δ			16573 Nov 21 03:03	0° χ
	16568 Jun 11 10:57	0° Π			16574 Jan 09 14:28	0° γ
	16568 Jul 31 06:11	0° ϕ			16574 Feb 27 09:16	0° δ
	16568 Sep 23 12:38	0° Ω			16574 Apr 16 14:22	0° Π
retrograde	16568 Dec 19 11:01	28° Ω 46'52		evening set	16574 Apr 29 16:01	8° Π 13'27
opposition	16569 Jan 24 12:44	21° Ω 07'04 -2°04'07		max. Earth dist.	16574 May 30 02:45	27° Π 35'12 2.66091 AU
greatest brilliancy	16569 Jan 25 05:28	20° Ω 51'43 -2.0m			16574 Jun 02 20:57	0° ϕ
min. Earth dist.	16569 Feb 01 13:57	18° Ω 10'44 0.53579 AU				
direct	16569 Mar 04 18:27	11° Ω 50'32		conjunction	16574 Jun 12 08:17	6° ϕ 06'24 -1°08'05
asc. node	16569 Mar 05 20:23	11° Ω 51'00		minimum elong	16574 Jun 12 09:15	6° ϕ 07'57 1°08'41
	16569 May 02 00:05	0° η			16574 Jul 18 19:33	0° Ω
	16569 Jun 18 23:34	0° $\underline{\alpha}$		morning rise	16574 Jul 26 22:48	5° Ω 25'17
	16569 Jul 30 02:19	0° \mathbb{M}			16574 Sep 01 03:47	0° η
	16569 Sep 07 07:38	0° χ			16574 Oct 13 19:37	0° $\underline{\alpha}$
	16569 Oct 16 13:21	0° ζ		asc. node	16574 Oct 26 23:37	9° $\underline{\alpha}$ 29'45
	16569 Nov 25 22:02	0° \approx			16574 Nov 23 22:11	0° \mathbb{M}
desc. node	16569 Dec 28 21:45	23° \approx 37'30			16575 Jan 02 21:54	0° χ
	16570 Jan 07 00:15	0° χ			16575 Feb 11 16:16	0° ζ
evening set	16570 Feb 14 17:05	26° χ 27'15			16575 Mar 24 23:24	0° \approx

	16575 May 11 12:57	0° H			16580 Jul 03 16:21	0° M		
retrograde	16575 Jul 07 13:37	18° H 10'41			16580 Aug 13 09:16	0° L		
min. Earth dist.	16575 Aug 06 20:53	11° H 54'02	0.51736 AU	evening set	16580 Sep 10 22:23	21° L 57'20		
opposition	16575 Aug 14 18:05	8° H 57'17	0°20'39		16580 Sep 21 05:06	0° M		
greatest brilliancy	16575 Aug 14 15:41	8° H 59'31	-2.1m		16580 Oct 29 02:34	0° J		
desc. node	16575 Aug 21 05:29	6° H 37'21						
direct	16575 Sep 18 18:57	1° H 21'46		conjunction	16580 Nov 22 09:35	19° J 16'51	1°08'31	
	16575 Dec 13 13:42	0° Y		minimum elong	16580 Nov 22 10:39	19° J 18'58	1°09'05	
	16576 Feb 06 05:45	0° B			16580 Dec 05 23:50	0° Z		
	16576 Mar 27 16:52	0° II		max. Earth dist.	16581 Jan 11 19:03	28° Z 30'15	2.38132 AU	
	16576 May 14 16:29	0° G			16581 Jan 13 18:15	0° \approx		
evening set	16576 Jun 03 08:18	12° G 42'58		morning rise	16581 Feb 01 23:05	14° \approx 25'57		
max. Earth dist.	16576 Jun 23 08:37	25° G 56'02	2.58224 AU		16581 Feb 23 04:44	0° H		
	16576 Jun 29 10:15	0° Ω			16581 Apr 06 23:10	0° Y		
				desc. node	16581 Apr 12 04:03	3° Y 31'18		
conjunction	16576 Jul 20 01:23	14° Ω 01'42	-0°34'32		16581 May 22 18:37	0° B		
minimum elong	16576 Jul 20 02:46	14° Ω 04'05	0°34'59		16581 Jul 12 04:27	0° II		
	16576 Aug 11 23:18	0° M			16581 Sep 14 08:17	0° G		
morning rise	16576 Sep 09 08:45	20° M 22'34		retrograde	16581 Oct 22 12:15	7° G 13'59		
asc. node	16576 Sep 12 16:48	22° M 48'41			16581 Nov 26 03:48	30° R II		
	16576 Sep 22 11:21	0° L		opposition	16581 Dec 01 10:09	27° II 58'09	-4°48'14	
	16576 Nov 01 06:56	0° M		greatest brilliancy	16581 Dec 01 22:40	27° II 45'55	-1.3m	
	16576 Dec 09 23:51	0° J		min. Earth dist.	16581 Dec 04 13:20	26° II 44'41	0.66912 AU	
	16577 Jan 17 09:18	0° Z		direct	16582 Jan 12 00:27	17° II 56'17		
	16577 Feb 25 12:41	0° \approx			16582 Mar 02 17:51	0° G		
	16577 Apr 07 20:50	0° H			16582 Apr 28 06:39	0° Ω		
	16577 May 24 04:52	0° Y		asc. node	16582 May 05 06:05	4° Ω 20'14		
desc. node	16577 Jul 08 09:37	22° Y 31'45			16582 Jun 12 18:17	0° M		
	16577 Aug 06 03:07	0° B			16582 Jul 23 22:10	0° L		
retrograde	16577 Aug 15 05:35	0° B 32'20			16582 Aug 31 19:37	0° M		
	16577 Aug 24 03:08	30° R Y			16582 Oct 08 18:25	0° J		
min. Earth dist.	16577 Sep 20 02:28	22° Y 22'46	0.63232 AU		16582 Nov 15 20:21	0° Z		
opposition	16577 Sep 24 17:58	20° Y 33'00	-3°10'18	evening set	16582 Nov 28 12:29	9° Z 50'11		
greatest brilliancy	16577 Sep 24 03:49	20° Y 46'56	-1.5m		16582 Dec 24 23:07	0° \approx		
direct	16577 Nov 02 15:29	11° Y 34'03						
	16578 Jan 07 20:15	0° B		conjunction	16583 Jan 31 21:39	27° \approx 55'10	0°17'40	
	16578 Mar 06 12:43	0° II		minimum elong	16583 Jan 31 22:53	27° \approx 57'24	0°18'01	
	16578 Apr 25 14:24	0° G			16583 Feb 03 19:12	0° H		
	16578 Jun 10 19:17	0° Ω		desc. node	16583 Feb 27 20:35	16° H 59'31		
evening set	16578 Jul 15 04:09	23° Ω 40'54		max. Earth dist.	16583 Mar 10 14:25	24° H 25'09	2.52300 AU	
	16578 Jul 24 01:43	0° M			16583 Mar 18 18:20	0° Y		
max. Earth dist.	16578 Jul 28 20:09	3° M 25'03	2.45673 AU	morning rise	16583 Mar 27 14:54	5° Y 59'30		
asc. node	16578 Jul 31 09:56	5° M 16'20			16583 May 03 01:10	0° B		
	16578 Sep 02 23:13	0° L			16583 Jun 19 20:14	0° II		
					16583 Aug 10 02:42	0° G		
conjunction	16578 Sep 09 02:34	4° L 37'52	0°26'56		16583 Oct 09 13:15	0° Ω		
minimum elong	16578 Sep 09 00:35	4° L 34'07	0°26'54	retrograde	16583 Dec 01 15:30	12° Ω 48'57		
	16578 Oct 12 02:39	0° M		opposition	16584 Jan 08 03:57	4° Ω 33'33	-3°19'18	
morning rise	16578 Nov 15 19:54	27° M 18'04		greatest brilliancy	16584 Jan 09 01:23	4° Ω 13'17	-1.7m	
	16578 Nov 19 05:44	0° J		min. Earth dist.	16584 Jan 15 00:57	1° Ω 57'58	0.58533 AU	
	16578 Dec 27 04:46	0° Z			16584 Jan 20 12:55	30° R G		
	16579 Feb 03 21:54	0° \approx		direct	16584 Feb 17 14:20	24° G 49'29		
	16579 Mar 16 08:32	0° H			16584 Mar 18 04:06	0° Ω		
	16579 Apr 28 15:55	0° Y		asc. node	16584 Mar 22 10:42	1° Ω 27'40		
desc. node	16579 May 26 08:20	17° Y 43'39			16584 May 16 20:04	0° M		
	16579 Jun 15 23:10	0° B			16584 Jun 29 18:15	0° L		
	16579 Aug 20 02:34	0° II			16584 Aug 08 16:08	0° M		
retrograde	16579 Sep 18 17:59	4° II 45'41			16584 Sep 16 05:58	0° J		
	16579 Oct 16 02:44	30° R B			16584 Oct 24 23:06	0° Z		
opposition	16579 Oct 29 15:14	24° B 55'54	-4°40'56		16584 Dec 03 19:28	0° \approx		
greatest brilliancy	16579 Oct 29 11:06	24° B 59'59	-1.2m	desc. node	16585 Jan 14 13:00	0° H 05'11		
min. Earth dist.	16579 Oct 28 20:25	25° B 14'29	0.68500 AU		16585 Jan 14 10:04	0° H		
direct	16579 Dec 09 15:14	15° B 12'45		evening set	16585 Jan 27 11:46	9° H 08'30		
	16580 Feb 05 06:32	0° II			16585 Feb 27 00:22	0° Y		
	16580 Apr 03 00:38	0° G						
	16580 May 21 01:47	0° Ω		conjunction	16585 Mar 19 14:25	13° Y 43'14	-0°38'18	
asc. node	16580 Jun 17 05:01	18° Ω 23'16		minimum elong	16585 Mar 19 13:00	13° Y 40'53	0°38'22	

max. Earth dist.	16585 Apr 07 09:19	26° Υ 02'02	2.62841 AU	direct	16590 Aug 27 04:57	11° \approx 59'36	
	16585 Apr 13 11:58	0° \mathcal{B}		desc. node	16590 Sep 06 17:47	12° \approx 41'07	
morning rise	16585 May 04 20:59	13° \mathcal{B} 44'23			16590 Oct 29 00:09	0° \mathcal{H}	
	16585 May 30 13:22	0° Π			16590 Dec 25 01:52	0° Υ	
	16585 Jul 17 23:29	0° \mathcal{E}			16591 Feb 14 13:00	0° \mathcal{B}	
	16585 Sep 06 01:52	0° Ω			16591 Apr 04 21:11	0° Π	
	16585 Oct 29 21:23	0° \mathcal{M}		evening set	16591 May 21 02:26	29° Π 06'13	
retrograde	16586 Jan 24 05:30	29° \mathcal{M} 13'18			16591 May 22 11:58	0° \mathcal{E}	
asc. node	16586 Feb 07 14:52	27° \mathcal{M} 53'55		max. Earth dist.	16591 Jun 13 22:12	14° \mathcal{E} 32'29	2.61925 AU
opposition	16586 Feb 26 06:14	22° \mathcal{M} 48'17	1°09'27				
greatest brilliancy	16586 Feb 26 15:09	22° \mathcal{M} 40'53	-2.5m	conjunction	16591 Jul 05 02:48	28° \mathcal{E} 33'33	-0°51'03
min. Earth dist.	16586 Mar 06 19:09	19° \mathcal{M} 58'38	0.44926 AU	minimum elong	16591 Jul 05 04:16	28° \mathcal{E} 36'01	0°51'35
direct	16586 Apr 03 08:52	14° \mathcal{M} 57'13			16591 Jul 07 06:29	0° Ω	
	16586 May 23 17:36	0° \mathcal{E}			16591 Aug 20 01:51	0° \mathcal{M}	
	16586 Jul 10 23:36	0° \mathcal{M}		morning rise	16591 Aug 21 22:55	1° \mathcal{M} 19'00	
	16586 Aug 21 17:02	0° \mathcal{X}		asc. node	16591 Sep 30 10:33	29° \mathcal{M} 36'35	
	16586 Oct 01 12:05	0° \mathcal{Z}			16591 Sep 30 23:21	0° \mathcal{E}	
	16586 Nov 12 02:24	0° \approx			16591 Nov 10 04:56	0° \mathcal{M}	
desc. node	16586 Dec 02 10:45	14° \approx 17'56			16591 Dec 19 06:58	0° \mathcal{X}	
	16586 Dec 25 05:36	0° \mathcal{H}			16592 Jan 27 00:42	0° \mathcal{Z}	
	16587 Feb 08 00:56	0° Υ			16592 Mar 06 14:28	0° \approx	
evening set	16587 Mar 11 21:17	20° Υ 45'09			16592 Apr 17 22:43	0° \mathcal{H}	
	16587 Mar 26 06:08	0° \mathcal{B}			16592 Jun 07 10:07	0° Υ	
				desc. node	16592 Jul 24 22:27	15° Υ 25'22	
conjunction	16587 Apr 26 03:12	19° \mathcal{B} 42'31	-1°08'54	retrograde	16592 Jul 31 19:21	15° Υ 44'36	
minimum elong	16587 Apr 26 02:17	19° \mathcal{B} 41'03	1°09'19	min. Earth dist.	16592 Sep 03 15:30	8° Υ 15'01	0.59391 AU
max. Earth dist.	16587 Apr 30 11:18	22° \mathcal{B} 27'52	2.68041 AU	opposition	16592 Sep 09 17:24	5° Υ 52'55	-2°06'53
	16587 May 12 08:28	0° Π		greatest brilliancy	16592 Sep 09 04:44	6° Υ 05'15	-1.7m
morning rise	16587 Jun 08 07:36	17° Π 03'52			16592 Sep 27 00:17	30° \mathcal{R} \mathcal{H}	
	16587 Jun 28 18:28	0° \mathcal{E}		direct	16592 Oct 17 08:38	27° \mathcal{H} 20'21	
	16587 Aug 15 02:25	0° Ω			16592 Nov 08 07:37	0° Υ	
	16587 Oct 01 04:25	0° \mathcal{M}			16593 Jan 20 05:22	0° \mathcal{B}	
	16587 Nov 17 04:55	0° \mathcal{E}			16593 Mar 14 20:46	0° Π	
asc. node	16587 Dec 26 17:31	24° \mathcal{E} 49'55			16593 May 02 21:12	0° \mathcal{E}	
	16588 Jan 04 04:08	0° \mathcal{M}			16593 Jun 17 19:56	0° Ω	
	16588 Feb 27 18:56	0° \mathcal{X}		evening set	16593 Jun 27 15:12	6° Ω 38'24	
retrograde	16588 Apr 13 05:57	11° \mathcal{X} 46'36		max. Earth dist.	16593 Jul 12 17:25	17° Ω 01'40	2.51022 AU
opposition	16588 May 12 21:26	6° \mathcal{X} 48'55	7°29'50		16593 Jul 31 03:57	0° \mathcal{M}	
min. Earth dist.	16588 May 11 20:01	7° \mathcal{X} 05'49	0.36393 AU				
greatest brilliancy	16588 May 12 15:31	6° \mathcal{X} 52'50	-3.0m	conjunction	16593 Aug 17 21:51	12° \mathcal{M} 46'19	0°00'33
direct	16588 Jun 11 00:48	1° \mathcal{X} 59'49		minimum elong	16593 Aug 17 21:52	12° \mathcal{M} 46'20	0°00'18
	16588 Aug 26 15:22	0° \mathcal{Z}		behind sun begin	16593 Aug 16 22:57	12° \mathcal{M} 04'41	
	16588 Oct 15 01:55	0° \approx		behind sun end	16593 Aug 18 20:48	13° \mathcal{M} 28'03	
desc. node	16588 Oct 19 13:33	2° \approx 49'22		asc. node	16593 Aug 17 03:00	12° \mathcal{M} 12'02	
	16588 Dec 01 10:44	0° \mathcal{H}			16593 Sep 10 06:26	0° \mathcal{E}	
	16589 Jan 17 20:47	0° Υ		morning rise	16593 Oct 16 22:48	27° \mathcal{E} 55'05	
	16589 Mar 06 14:48	0° \mathcal{B}			16593 Oct 19 15:21	0° \mathcal{M}	
evening set	16589 Apr 16 04:09	25° \mathcal{B} 28'24			16593 Nov 26 22:54	0° \mathcal{X}	
	16589 Apr 23 08:35	0° Π			16594 Jan 04 00:46	0° \mathcal{Z}	
max. Earth dist.	16589 May 21 12:41	17° Π 50'29	2.67709 AU		16594 Feb 11 19:45	0° \approx	
					16594 Mar 24 10:13	0° \mathcal{H}	
conjunction	16589 May 29 16:04	23° Π 01'46	-1°13'26		16594 May 07 08:06	0° Υ	
minimum elong	16589 May 29 16:30	23° Π 02'29	1°14'01	desc. node	16594 Jun 12 00:15	21° Υ 43'49	
	16589 Jun 09 13:26	0° \mathcal{E}			16594 Jun 27 06:08	0° \mathcal{B}	
morning rise	16589 Jul 12 04:19	21° \mathcal{E} 06'11		retrograde	16594 Sep 05 12:54	22° \mathcal{B} 07'41	
	16589 Jul 25 18:03	0° Ω		min. Earth dist.	16594 Oct 14 03:27	13° \mathcal{B} 05'31	0.67253 AU
	16589 Sep 08 14:39	0° \mathcal{M}		opposition	16594 Oct 16 11:03	12° \mathcal{B} 10'33	-4°16'44
	16589 Oct 22 00:00	0° \mathcal{E}		greatest brilliancy	16594 Oct 16 01:25	12° \mathcal{B} 20'04	-1.3m
asc. node	16589 Nov 12 16:51	15° \mathcal{E} 23'36		direct	16594 Nov 25 19:53	2° \mathcal{B} 41'19	
	16589 Dec 02 23:34	0° \mathcal{M}			16595 Feb 18 06:18	0° Π	
	16590 Jan 12 23:54	0° \mathcal{X}			16595 Apr 12 14:19	0° \mathcal{E}	
	16590 Feb 23 04:19	0° \mathcal{Z}			16595 May 29 16:35	0° Ω	
	16590 Apr 08 15:22	0° \approx		asc. node	16595 Jul 04 22:21	24° Ω 54'27	
retrograde	16590 Jun 18 20:07	27° \approx 06'09			16595 Jul 12 02:07	0° \mathcal{M}	
min. Earth dist.	16590 Jul 16 18:55	21° \approx 42'11	0.46200 AU	evening set	16595 Aug 16 23:26	26° \mathcal{M} 20'29	
greatest brilliancy	16590 Jul 24 10:12	19° \approx 01'14	-2.4m		16595 Aug 21 19:56	0° \mathcal{E}	
opposition	16590 Jul 25 04:00	18° \approx 45'33	2°30'59	max. Earth dist.	16595 Sep 13 18:39	17° \mathcal{E} 33'35	2.37362 AU

	16595 Sep 29 17:54	0°♌	opposition	16601 Feb 05 09:37	1°♏58'33 -1°05'30
			greatest brilliancy	16601 Feb 05 19:31	1°♏49'44 -2.1m
conjunction	16595 Oct 22 09:33	17°♌51'33 1°03'01		16601 Feb 10 22:14	30°♏
minimum elong	16595 Oct 22 06:22	17°♌45'15 1°03'22	min. Earth dist.	16601 Feb 13 22:09	28°♏56'51 0.50565 AU
	16595 Nov 06 16:41	0°♏	asc. node	16601 Feb 25 04:10	25°♏30'05
	16595 Dec 14 13:42	0°♏	direct	16601 Mar 15 18:08	23°♏05'19
morning rise	16596 Jan 05 15:32	17°♏14'14		16601 Apr 18 01:47	0°♏
	16596 Jan 22 06:20	0°♏		16601 Jun 12 01:08	0°♏
	16596 Mar 02 14:59	0°♏		16601 Jul 24 11:53	0°♌
	16596 Apr 14 10:57	0°♏		16601 Sep 02 07:08	0°♏
desc. node	16596 Apr 28 20:13	9°♏36'16		16601 Oct 11 22:23	0°♏
	16596 May 30 19:32	0°♏		16601 Nov 21 14:57	0°♏
	16596 Jul 22 14:57	0°♏	desc. node	16601 Dec 20 02:32	20°♏18'25
retrograde	16596 Oct 08 15:58	24°♏43'27		16602 Jan 03 00:02	0°♏
opposition	16596 Nov 18 03:04	15°♏11'46 -4°54'58			
greatest brilliancy	16596 Nov 18 09:03	15°♏05'53 -1.2m			
min. Earth dist.	16596 Nov 19 17:23	14°♏34'07 0.68369 AU			
direct	16596 Dec 29 16:29	5°♏14'15			
	16597 Mar 17 02:29	0°♏			
	16597 May 07 11:52	0°♏			
asc. node	16597 May 21 20:51	9°♏21'18			
	16597 Jun 20 23:01	0°♏			
	16597 Jul 31 20:31	0°♏			
	16597 Sep 08 16:10	0°♌			
	16597 Oct 16 13:22	0°♏			
evening set	16597 Oct 28 19:40	9°♏44'03			
	16597 Nov 23 12:20	0°♏			
	16598 Jan 01 10:25	0°♏			
conjunction	16598 Jan 07 17:10	4°♏44'05 0°42'50			
minimum elong	16598 Jan 07 20:23	4°♏50'06 0°43'19			
	16598 Feb 11 01:06	0°♏			
max. Earth dist.	16598 Feb 23 10:20	8°♏51'07 2.46890 AU			
morning rise	16598 Mar 09 06:18	18°♏34'21			
desc. node	16598 Mar 16 13:19	23°♏37'33			
	16598 Mar 25 20:24	0°♏			
	16598 May 10 04:42	0°♏			
	16598 Jun 27 14:55	0°♏			
	16598 Aug 20 07:09	0°♏			
retrograde	16598 Nov 14 23:26	28°♏27'20			
opposition	16598 Dec 23 15:14	19°♏44'09 -4°08'14			
greatest brilliancy	16598 Dec 24 11:26	19°♏24'42 -1.5m			
min. Earth dist.	16598 Dec 29 02:36	17°♏37'55 0.62591 AU			
direct	16599 Feb 02 18:56	9°♏46'42			
asc. node	16599 Apr 08 23:01	29°♏57'06			
	16599 Apr 09 01:14	0°♏			
	16599 May 28 18:53	0°♏			
	16599 Jul 10 02:26	0°♏			
	16599 Aug 18 10:28	0°♌			
	16599 Sep 25 16:01	0°♏			
	16599 Nov 03 01:17	0°♏			
	16599 Dec 12 12:52	0°♏			
evening set	16600 Jan 07 12:53	19°♏05'11			
	16600 Jan 22 18:18	0°♏			
desc. node	16600 Feb 01 07:06	6°♏44'08			
conjunction	16600 Mar 03 18:55	27°♏47'54 -0°19'19			
minimum elong	16600 Mar 03 17:58	27°♏46'18 0°19'13			
	16600 Mar 07 00:49	0°♏			
max. Earth dist.	16600 Mar 29 07:52	14°♏55'18 2.59300 AU			
morning rise	16600 Apr 21 12:54	0°♏07'19			
	16600 Apr 21 08:23	0°♏			
	16600 Jun 07 13:16	0°♏			
	16600 Jul 26 17:23	0°♏			
	16600 Sep 17 00:08	0°♏			
	16600 Nov 18 20:54	0°♏			
retrograde	16601 Jan 01 06:33	9°♏14'31			