

conjunction	15600 Sep 10 21:56	5°♄19'14	0°35'05			15605 Oct 23 15:38	0°♊
minimum elong	15600 Sep 10 19:02	5°♄13'36	0°35'02	retrograde		15605 Nov 28 05:07	6°♊23'33
	15600 Oct 12 08:56	0°♌				15605 Dec 30 16:51	30°♌☾
	15600 Nov 19 05:42	0°♌		opposition		15606 Jan 03 15:04	28°♌34'26 -3°17'01
morning rise	15600 Nov 22 11:38	2°♌34'01		greatest brilliancy		15606 Jan 04 15:36	28°♌11'43 -1.9m
	15600 Dec 27 12:45	0°♋		min. Earth dist.		15606 Jan 11 09:41	25°♌42'04 0.54978 AU
	15601 Feb 05 03:41	0°♌		direct		15606 Feb 12 05:56	19°♌08'51
	15601 Mar 19 00:40	0°♌		asc. node		15606 Mar 13 01:54	24°♌14'08
	15601 May 03 07:24	0°♌				15606 Mar 27 22:19	0°♊
desc. node	15601 May 17 20:41	8°♌59'39				15606 May 19 11:55	0°♌
	15601 Jun 23 21:04	0°♋				15606 Jun 30 18:11	0°♄
retrograde	15601 Sep 11 08:53	25°♋52'23				15606 Aug 09 04:18	0°♌
opposition	15601 Oct 22 01:17	16°♋10'50	-4°34'07			15606 Sep 17 01:34	0°♌
greatest brilliancy	15601 Oct 22 01:34	16°♋10'33	-1.2m			15606 Oct 26 17:10	0°♋
min. Earth dist.	15601 Oct 22 10:41	16°♋01'33	0.68702 AU			15606 Dec 06 21:55	0°♌
direct	15601 Dec 02 07:53	6°♋19'01		desc. node		15607 Jan 06 17:51	21°♌35'23
	15602 Feb 16 12:12	0°♌				15607 Jan 19 00:44	0°♌
	15602 Apr 10 07:03	0°♌		evening set		15607 Jan 24 20:01	3°♌56'18
	15602 May 25 22:03	0°♊				15607 Mar 05 00:26	0°♌
asc. node	15602 Jun 07 14:54	8°♊52'48					
	15602 Jul 06 18:00	0°♌		conjunction		15607 Mar 14 21:15	6°♌26'09 -0°38'13
	15602 Aug 15 04:40	0°♄		minimum elong		15607 Mar 14 19:59	6°♌24'05 0°38'12
evening set	15602 Sep 16 10:09	25°♄19'25		max. Earth dist.		15607 Mar 29 01:57	15°♌37'19 2.64882 AU
	15602 Sep 22 07:39	0°♌				15607 Apr 20 13:03	0°♋
	15602 Oct 30 02:43	0°♌		morning rise		15607 Apr 29 00:25	5°♋22'57
						15607 Jun 07 04:22	0°♌
conjunction	15602 Nov 28 20:12	23°♌18'36	1°04'31			15607 Jul 25 17:34	0°♌
minimum elong	15602 Nov 28 22:28	23°♌23'01	1°05'22			15607 Sep 13 14:11	0°♊
	15602 Dec 07 11:55	0°♋				15607 Nov 05 20:57	0°♌
	15603 Jan 16 06:43	0°♌		retrograde		15608 Jan 28 17:26	28°♌36'58
max. Earth dist.	15603 Jan 20 13:42	3°♌09'12	2.42178 AU	asc. node		15608 Jan 29 08:07	28°♌36'49
morning rise	15603 Feb 03 10:21	13°♌13'11		opposition		15608 Feb 29 03:43	22°♌54'19 2°05'16
	15603 Feb 27 02:47	0°♌		greatest brilliancy		15608 Feb 29 17:00	22°♌44'10 -2.7m
desc. node	15603 Apr 04 13:34	24°♌46'17		min. Earth dist.		15608 Mar 07 15:35	20°♌37'16 0.41014 AU
	15603 Apr 12 12:10	0°♌		direct		15608 Apr 02 23:29	16°♌07'05
	15603 May 30 03:00	0°♋				15608 May 20 21:54	0°♄
	15603 Jul 22 03:47	0°♌				15608 Jul 09 01:04	0°♌
retrograde	15603 Oct 17 01:37	28°♌44'06				15608 Aug 20 21:50	0°♌
opposition	15603 Nov 25 10:31	19°♌43'25	-4°49'14			15608 Oct 02 05:39	0°♋
greatest brilliancy	15603 Nov 26 03:50	19°♌26'36	-1.4m			15608 Nov 14 13:06	0°♌
min. Earth dist.	15603 Nov 29 17:37	18°♌03'17	0.65154 AU	desc. node		15608 Nov 23 16:39	6°♌12'44
direct	15604 Jan 05 22:02	9°♌41'11				15608 Dec 29 07:39	0°♌
	15604 Mar 12 13:05	0°♌		evening set		15609 Feb 13 10:44	0°♌
asc. node	15604 Apr 24 18:03	25°♌02'26				15609 Mar 05 13:27	12°♌52'39
	15604 May 02 10:04	0°♊				15609 Apr 01 11:31	0°♋
	15604 Jun 14 14:11	0°♌					
	15604 Jul 24 10:05	0°♄		conjunction		15609 Apr 19 02:31	11°♋10'27 -1°07'18
	15604 Aug 31 17:07	0°♌		minimum elong		15609 Apr 19 01:37	11°♋09'01 1°07'49
	15604 Oct 08 17:45	0°♌		max. Earth dist.		15609 Apr 19 17:24	11°♋34'02 2.68477 AU
	15604 Nov 16 12:06	0°♋				15609 May 18 19:18	0°♌
evening set	15604 Dec 01 03:48	11°♋04'23		morning rise		15609 Jun 01 02:32	8°♌26'55
	15604 Dec 26 18:35	0°♌				15609 Jul 04 21:07	0°♌
						15609 Aug 20 08:54	0°♊
conjunction	15605 Jan 29 23:22	24°♌23'32	0°12'34			15609 Oct 05 03:27	0°♌
minimum elong	15605 Jan 30 00:08	24°♌24'52	0°13'09			15609 Nov 19 08:17	0°♄
behind sun begin	15605 Jan 29 10:57	24°♌01'51		asc. node		15609 Dec 16 12:16	18°♄01'42
behind sun end	15605 Jan 30 13:19	24°♌47'52				15610 Jan 03 19:01	0°♌
	15605 Feb 07 00:56	0°♌				15610 Feb 22 09:30	0°♌
desc. node	15605 Feb 19 02:55	8°♌18'22		retrograde		15610 Apr 19 18:16	17°♌55'32
max. Earth dist.	15605 Mar 02 14:50	16°♌06'13	2.55815 AU	min. Earth dist.		15610 May 15 23:24	13°♌37'59 0.37712 AU
morning rise	15605 Mar 22 16:55	29°♌29'42		greatest brilliancy		15610 May 19 20:45	12°♌31'55 -2.9m
	15605 Mar 23 11:18	0°♌		opposition		15610 May 21 00:08	12°♌12'25 7°07'24
	15605 May 09 01:40	0°♋		direct		15610 Jun 19 10:41	7°♌09'14
	15605 Jun 26 23:59	0°♌				15610 Aug 27 17:17	0°♋
	15605 Aug 18 14:27	0°♌		desc. node		15610 Oct 11 21:33	25°♋38'59

	15610 Oct 19 04:03	0°≈		behind sun end	15615 Aug 18 19:36	11°♎16'34	
	15610 Dec 07 07:56	0°✕			15615 Sep 12 11:14	0°♊	
	15611 Jan 24 21:41	0°♑			15615 Oct 20 23:13	0°♌	
	15611 Mar 14 04:20	0°♄		morning rise	15615 Oct 22 04:19	0°♌57'20	
evening set	15611 Apr 10 03:03	16°♄54'08		greatest brilliancy	15615 Oct 29 15:14	6°♌50'09	1.2m
	15611 Apr 30 19:31	0°♊			15615 Nov 27 22:36	0°♊	
max. Earth dist.	15611 May 11 20:08	7°♊02'07	2.66566 AU		15616 Jan 05 06:50	0°♊	
					15616 Feb 13 22:52	0°≈	
conjunction	15611 May 23 18:35	14°♊41'58	-1°12'05		15616 Mar 27 00:50	0°✕	
minimum elong	15611 May 23 19:00	14°♊42'38	1°12'55		15616 May 12 05:06	0°♑	
	15611 Jun 16 08:11	0°♄		desc. node	15616 Jun 03 14:05	13°♑03'37	
morning rise	15611 Jul 06 23:45	13°♄36'39			15616 Jul 07 07:45	0°♄	
	15611 Jul 31 10:12	0°♏		retrograde	15616 Aug 29 04:21	13°♄25'35	
	15611 Sep 12 21:27	0°♎		min. Earth dist.	15616 Oct 07 20:53	4°♄01'05	0.68199 AU
	15611 Oct 24 18:47	0°♊		opposition	15616 Oct 09 00:13	3°♄34'00	-4°07'48
asc. node	15611 Nov 03 09:10	7°♊01'24		greatest brilliancy	15616 Oct 08 18:52	3°♄39'19	-1.3m
	15611 Dec 04 08:49	0°♌			15616 Oct 18 07:00	30°♑♑	
	15612 Jan 13 08:30	0°♊		direct	15616 Nov 18 18:55	23°♑53'41	
	15612 Feb 23 03:59	0°♊			15616 Dec 23 15:10	0°♄	
	15612 Apr 08 07:23	0°≈			15617 Feb 27 07:36	0°♊	
retrograde	15612 Jun 15 20:09	24°≈54'23			15617 Apr 18 12:50	0°♄	
min. Earth dist.	15612 Jul 15 11:05	18°≈50'50	0.50323 AU		15617 Jun 02 13:04	0°♏	
opposition	15612 Jul 23 12:44	15°≈52'24	1°54'06	asc. node	15617 Jun 24 07:41	15°♏24'55	
greatest brilliancy	15612 Jul 22 23:37	16°≈04'32	-2.2m		15617 Jul 14 06:17	0°♎	
direct	15612 Aug 27 02:23	8°≈28'30		evening set	15617 Aug 18 12:57	26°♎44'36	
desc. node	15612 Aug 29 05:13	8°≈30'14			15617 Aug 22 17:55	0°♊	
	15612 Nov 06 02:45	0°✕			15617 Sep 29 22:00	0°♌	
	15613 Jan 01 13:22	0°♑					
	15613 Feb 21 18:49	0°♄		conjunction	15617 Oct 28 09:28	22°♌37'20	1°06'15
	15613 Apr 11 12:30	0°♊		minimum elong	15617 Oct 28 07:35	22°♌33'35	1°06'54
evening set	15613 May 14 15:36	21°♊11'18			15617 Nov 06 16:47	0°♊	
	15613 May 28 02:39	0°♄		max. Earth dist.	15617 Dec 10 03:48	26°♊15'03	2.36893 AU
max. Earth dist.	15613 Jun 04 12:44	4°♄54'32	2.59237 AU		15617 Dec 15 00:06	0°♊	
				morning rise	15618 Jan 09 11:59	19°♊26'13	
conjunction	15613 Jun 29 19:19	21°♄55'38	-0°48'52		15618 Jan 23 16:04	0°≈	
minimum elong	15613 Jun 29 20:52	21°♄58'18	0°49'42		15618 Mar 06 10:22	0°✕	
	15613 Jul 11 13:20	0°♏			15618 Apr 19 23:44	0°♑	
morning rise	15613 Aug 18 22:05	27°♏06'25		desc. node	15618 Apr 21 07:35	0°♑51'37	
	15613 Aug 22 22:05	0°♎			15618 Jun 07 12:05	0°♄	
asc. node	15613 Sep 19 23:25	20°♎37'58			15618 Aug 03 16:41	0°♊	
	15613 Oct 02 11:08	0°♊		retrograde	15618 Oct 02 16:28	15°♊53'47	
	15613 Nov 10 15:22	0°♌		opposition	15618 Nov 11 17:20	6°♊34'23	-4°53'05
	15613 Dec 19 03:39	0°♊		greatest brilliancy	15618 Nov 12 03:58	6°♊23'58	-1.3m
	15614 Jan 26 22:56	0°♊		min. Earth dist.	15618 Nov 14 11:46	5°♊29'19	0.67360 AU
	15614 Mar 08 08:23	0°≈			15618 Nov 30 01:11	30°♑♄	
	15614 Apr 21 13:33	0°✕		direct	15618 Dec 23 07:09	26°♄32'45	
	15614 Jun 16 23:10	0°♑			15619 Jan 17 08:10	0°♊	
desc. node	15614 Jul 17 12:11	8°♑11'57			15619 Mar 25 15:09	0°♄	
retrograde	15614 Jul 26 11:08	8°♑43'16		asc. node	15619 May 12 07:26	29°♄54'36	
min. Earth dist.	15614 Aug 30 19:21	0°♑41'51	0.62251 AU		15619 May 12 10:38	0°♏	
	15614 Sep 01 13:56	30°♑✕			15619 Jun 23 20:54	0°♎	
opposition	15614 Sep 04 17:51	28°✕44'59	-2°03'12		15619 Aug 02 11:15	0°♊	
greatest brilliancy	15614 Sep 04 07:43	28°✕54'59	-1.6m		15619 Sep 09 15:32	0°♌	
direct	15614 Oct 13 05:53	19°✕51'59			15619 Oct 17 12:47	0°♊	
	15614 Nov 28 14:17	0°♑		evening set	15619 Nov 04 04:42	13°♊50'45	
	15615 Jan 30 08:04	0°♄			15619 Nov 25 02:18	0°♊	
	15615 Mar 23 01:29	0°♊			15620 Jan 04 02:46	0°≈	
	15615 May 09 11:57	0°♄					
	15615 Jun 22 20:14	0°♏		conjunction	15620 Jan 09 12:00	3°≈55'55	0°35'39
evening set	15615 Jun 24 12:26	1°♏10'13		minimum elong	15620 Jan 09 14:20	4°≈00'10	0°36'23
max. Earth dist.	15615 Jul 08 01:33	10°♏44'01	2.47089 AU		15620 Feb 15 03:23	0°✕	
	15615 Aug 03 15:32	0°♎		max. Earth dist.	15620 Feb 18 19:03	2°✕32'02	2.50888 AU
asc. node	15615 Aug 07 13:12	2°♎52'55		morning rise	15620 Mar 05 20:36	13°✕32'42	
				desc. node	15620 Mar 07 21:24	14°✕55'25	
conjunction	15615 Aug 17 21:10	10°♎34'34	0°07'10		15620 Mar 30 11:11	0°♑	
minimum elong	15615 Aug 17 20:41	10°♎33'40	0°06'46		15620 May 16 06:48	0°♄	
behind sun begin	15615 Aug 16 21:47	9°♎50'48			15620 Jul 05 05:19	0°♊	

	15620 Aug 30 14:11	0°☿		15625 Dec 16 00:22	0°♄	
retrograde	15620 Nov 10 00:26	20°☿54'54		15626 Feb 01 08:51	0°♅	
opposition	15620 Dec 17 19:20	12°☿32'42 -4°10'32		15626 Mar 21 00:58	0°♄	
greatest brilliancy	15620 Dec 18 20:00	12°☿09'14 -1.6m	evening set	15626 Mar 27 13:37	4°♄06'40	
min. Earth dist.	15620 Dec 24 08:19	10°☿03'38 0.59681 AU	max. Earth dist.	15626 May 03 01:34	27°♄11'27 2.67968 AU	
direct	15621 Jan 27 11:07	2°☿43'56		15626 May 07 11:36	0°♄	
asc. node	15621 Mar 29 13:52	21°☿21'51				
	15621 Apr 14 06:21	0°♄	conjunction	15626 May 10 04:55	1°♄43'57 -1°13'19	
	15621 May 30 12:22	0°♄	minimum elong	15626 May 10 04:47	1°♄43'44 1°14'03	
	15621 Jul 10 07:58	0°♄	morning rise	15626 Jun 22 12:36	29°♄35'15	
	15621 Aug 18 02:42	0°♄		15626 Jun 23 03:49	0°☿	
	15621 Sep 25 12:49	0°♄		15626 Aug 07 16:21	0°♄	
	15621 Nov 03 17:38	0°♄		15626 Sep 20 20:19	0°♄	
	15621 Dec 14 11:32	0°♄		15626 Nov 02 15:24	0°♄	
evening set	15622 Jan 05 21:41	15°♄55'54	asc. node	15626 Nov 20 01:45	12°♄28'17	
desc. node	15622 Jan 23 11:40	28°♄08'57		15626 Dec 14 07:53	0°♄	
	15622 Jan 26 04:19	0°♄		15627 Jan 24 18:37	0°♄	
				15627 Mar 09 09:15	0°♄	
conjunction	15622 Feb 27 03:58	21°♄35'50 -0°20'49		15627 May 08 19:58	0°♄	
minimum elong	15622 Feb 27 03:05	21°♄34'22 0°20'35	retrograde	15627 May 28 05:34	2°♄38'17	
	15622 Mar 11 20:59	0°♄		15627 Jun 16 05:14	30°♄	
max. Earth dist.	15622 Mar 19 11:51	4°♄59'41 2.61965 AU	min. Earth dist.	15627 Jun 24 12:01	27°♄29'37 0.44768 AU	
morning rise	15622 Apr 15 04:21	22°♄15'06	opposition	15627 Jul 02 21:27	24°♄37'33 4°05'06	
	15622 Apr 27 08:03	0°♄	greatest brilliancy	15627 Jul 01 17:52	25°♄01'16 -2.5m	
	15622 Jun 14 07:21	0°♄	direct	15627 Aug 04 09:24	18°♄06'55	
	15622 Aug 02 22:18	0°☿	desc. node	15627 Sep 15 17:24	27°♄30'30	
	15622 Sep 24 15:30	0°♄		15627 Sep 21 22:19	0°♄	
	15622 Nov 29 20:41	0°♄		15627 Nov 20 13:29	0°♄	
retrograde	15623 Jan 01 08:13	5°♄36'29		15628 Jan 11 11:38	0°♄	
	15623 Jan 31 21:34	30°♄		15628 Mar 01 05:14	0°♄	
opposition	15623 Feb 04 00:25	28°♄57'19 -0°39'39		15628 Apr 18 09:43	0°♄	
greatest brilliancy	15623 Feb 04 06:52	28°♄51'50 -2.4m	evening set	15628 Apr 30 13:06	7°♄43'15	
min. Earth dist.	15623 Feb 12 16:51	26°♄01'19 0.46397 AU	max. Earth dist.	15628 May 25 11:59	23°♄49'48 2.62728 AU	
asc. node	15623 Feb 14 22:30	25°♄18'22		15628 Jun 03 21:59	0°☿	
direct	15623 Mar 12 17:18	20°♄48'04				
	15623 Apr 20 04:39	0°♄	conjunction	15628 Jun 14 05:50	6°☿49'34 -1°01'34	
	15623 Jun 11 06:23	0°♄	minimum elong	15628 Jun 14 07:05	6°☿51'39 1°02'27	
	15623 Jul 23 10:18	0°♄		15628 Jul 18 13:28	0°♄	
	15623 Sep 01 19:59	0°♄	morning rise	15628 Jul 31 06:38	8°♄47'25	
	15623 Oct 12 15:49	0°♄		15628 Aug 30 07:00	0°♄	
	15623 Nov 23 21:05	0°♄	asc. node	15628 Oct 06 19:06	27°♄24'54	
desc. node	15623 Dec 11 06:21	12°♄00'34		15628 Oct 10 06:23	0°♄	
	15624 Jan 06 20:04	0°♄		15628 Nov 18 20:46	0°♄	
evening set	15624 Feb 19 16:48	28°♄53'13		15628 Dec 27 18:18	0°♄	
	15624 Feb 21 09:58	0°♄		15629 Feb 05 00:02	0°♄	
				15629 Mar 18 05:15	0°♄	
conjunction	15624 Apr 05 11:46	28°♄17'34 -0°58'50		15629 May 04 03:54	0°♄	
minimum elong	15624 Apr 05 10:33	28°♄15'37 0°59'10	retrograde	15629 Jul 11 18:28	23°♄29'22	
	15624 Apr 08 04:09	0°♄	desc. node	15629 Aug 03 00:57	19°♄59'33	
max. Earth dist.	15624 Apr 11 05:53	1°♄57'14 2.67733 AU	min. Earth dist.	15629 Aug 14 01:05	16°♄08'58 0.58193 AU	
morning rise	15624 May 18 21:43	25°♄48'41	opposition	15629 Aug 20 08:50	13°♄41'18 -0°47'30	
	15624 May 25 12:49	0°♄	greatest brilliancy	15629 Aug 20 03:44	13°♄46'15 -1.8m	
	15624 Jul 12 00:57	0°☿	direct	15629 Sep 26 12:42	5°♄16'36	
	15624 Aug 28 11:30	0°♄		15629 Dec 14 14:13	0°♄	
	15624 Oct 14 23:57	0°♄		15630 Feb 08 08:15	0°♄	
	15624 Dec 02 11:33	0°♄		15630 Mar 30 12:56	0°♄	
asc. node	15625 Jan 02 03:07	17°♄51'22		15630 May 16 12:59	0°☿	
	15625 Jan 25 11:10	0°♄	evening set	15630 Jun 07 12:02	14°☿38'41	
retrograde	15625 Mar 19 09:26	14°♄54'59	max. Earth dist.	15630 Jun 23 01:37	25°☿16'41 2.52336 AU	
opposition	15625 Apr 17 19:25	10°♄03'30 6°43'32		15630 Jun 29 21:13	0°♄	
greatest brilliancy	15625 Apr 17 20:03	10°♄03'04 -3.0m				
min. Earth dist.	15625 Apr 18 05:12	9°♄57'02 0.36395 AU	conjunction	15630 Jul 27 16:12	19°♄40'46 -0°18'29	
direct	15625 May 17 02:31	5°♄09'37	minimum elong	15630 Jul 27 17:14	19°♄42'38 0°19'06	
	15625 Jul 26 10:16	0°♄		15630 Aug 10 21:07	0°♄	
	15625 Sep 13 14:00	0°♄	asc. node	15630 Aug 24 08:28	9°♄56'43	
desc. node	15625 Oct 28 08:44	28°♄47'24		15630 Sep 19 22:50	0°♄	
	15625 Oct 30 05:47	0°♄	morning rise	15630 Sep 23 15:04	2°♄48'41	

	15630 Oct 28 16:16	0°♌		greatest brilliancy	15635 Dec 04 10:55	27°♐42'07	-1.4m
	15630 Dec 05 19:21	0°♊		min. Earth dist.	15635 Dec 08 16:54	26°♐03'40	0.63500 AU
	15631 Jan 13 05:52	0°♊		direct	15636 Jan 13 20:48	18°♐02'12	
	15631 Feb 22 00:56	0°♊			15636 Mar 02 05:55	0°♐	
	15631 Apr 05 12:51	0°♋		asc. node	15636 Apr 15 02:59	23°♐14'12	
	15631 May 23 09:02	0°♌			15636 Apr 26 00:20	0°♌	
desc. node	15631 Jun 21 04:11	15°♌04'07			15636 Jun 08 24:00	0°♍	
	15631 Aug 06 12:17	0°♌			15636 Jul 19 02:44	0°♌	
retrograde	15631 Aug 16 23:15	0°♌40'18			15636 Aug 26 13:06	0°♌	
	15631 Aug 27 00:38	30°♌♌			15636 Oct 03 16:01	0°♊	
min. Earth dist.	15631 Sep 24 02:28	21°♌45'15	0.66670 AU		15636 Nov 11 12:45	0°♊	
opposition	15631 Sep 26 18:11	20°♌42'02	-3°30'04	evening set	15636 Dec 15 02:11	25°♊01'40	
greatest brilliancy	15631 Sep 26 08:49	20°♌51'20	-1.3m		15636 Dec 21 21:55	0°♊	
direct	15631 Nov 05 19:59	11°♌16'42			15637 Feb 02 06:27	0°♋	
	15632 Jan 11 17:03	0°♌					
	15632 Mar 08 12:03	0°♐		conjunction	15637 Feb 09 19:56	5°♋12'07	-0°00'24
	15632 Apr 26 06:16	0°♐		minimum elong	15637 Feb 09 19:58	5°♋12'12	0°00'04
	15632 Jun 09 21:48	0°♌		behind sun begin	15637 Feb 08 23:24	4°♋36'58	
asc. node	15632 Jul 10 23:56	22°♌11'28		behind sun end	15637 Feb 10 16:33	5°♋47'23	
	15632 Jul 21 14:48	0°♍		desc. node	15637 Feb 09 04:24	4°♋45'32	
evening set	15632 Jul 24 22:34	2°♍28'00		max. Earth dist.	15637 Mar 09 06:22	23°♋43'28	2.58221 AU
max. Earth dist.	15632 Aug 15 08:33	18°♍35'46	2.38646 AU		15637 Mar 18 17:46	0°♌	
	15632 Aug 30 04:55	0°♌		morning rise	15637 Mar 31 13:58	8°♌24'59	
					15637 May 04 05:22	0°♌	
conjunction	15632 Sep 27 01:52	21°♌46'54	0°49'50		15637 Jun 21 16:55	0°♐	
minimum elong	15632 Sep 26 22:02	21°♌39'20	0°50'02		15637 Aug 11 22:04	0°♐	
	15632 Oct 07 11:35	0°♌			15637 Oct 09 05:33	0°♌	
	15632 Nov 14 07:30	0°♊		retrograde	15637 Dec 09 14:30	16°♌32'30	
morning rise	15632 Dec 10 19:19	20°♊50'29		opposition	15638 Jan 14 03:17	9°♌05'23	-2°31'31
	15632 Dec 22 14:11	0°♊		greatest brilliancy	15638 Jan 15 00:18	8°♌46'21	-2.0m
	15633 Jan 31 04:41	0°♊		min. Earth dist.	15638 Jan 22 10:14	6°♌05'56	0.52043 AU
	15633 Mar 13 23:01	0°♋		direct	15638 Feb 21 21:36	0°♌00'30	
	15633 Apr 27 20:21	0°♌		asc. node	15638 Mar 03 09:52	0°♌37'20	
desc. node	15633 May 08 01:27	6°♌27'28			15638 May 11 02:41	0°♍	
	15633 Jun 16 20:54	0°♌			15638 Jun 24 01:32	0°♌	
	15633 Aug 24 20:08	0°♐			15638 Aug 03 03:18	0°♌	
retrograde	15633 Sep 18 23:40	3°♐25'17			15638 Sep 11 09:54	0°♊	
	15633 Oct 12 05:03	30°♋♋			15638 Oct 21 08:52	0°♊	
opposition	15633 Oct 29 11:43	23°♋50'38	-4°44'31		15638 Dec 01 20:14	0°♊	
greatest brilliancy	15633 Oct 29 15:32	23°♋46'52	-1.2m	desc. node	15638 Dec 27 22:19	18°♋12'57	
min. Earth dist.	15633 Oct 30 17:08	23°♋21'38	0.68523 AU		15639 Jan 14 04:17	0°♋	
direct	15633 Dec 09 22:24	13°♋54'15		evening set	15639 Feb 03 15:13	13°♋43'55	
	15634 Feb 07 20:51	0°♐			15639 Feb 28 07:37	0°♌	
	15634 Apr 04 11:22	0°♐					
	15634 May 20 17:56	0°♌		conjunction	15639 Mar 23 07:52	14°♌55'16	-0°46'50
asc. node	15634 May 28 22:47	5°♌40'16		minimum elong	15639 Mar 23 06:31	14°♌53'06	0°46'58
	15634 Jul 01 18:28	0°♍		max. Earth dist.	15639 Apr 03 09:29	22°♌01'47	2.66120 AU
	15634 Aug 10 06:14	0°♌			15639 Apr 15 21:00	0°♌	
	15634 Sep 17 09:23	0°♌		morning rise	15639 May 06 16:41	13°♋12'28	
evening set	15634 Oct 04 01:49	13°♌15'24			15639 Jun 02 08:51	0°♐	
	15634 Oct 25 04:35	0°♊			15639 Jul 20 11:21	0°♐	
	15634 Dec 02 14:30	0°♊			15639 Sep 07 06:17	0°♌	
					15639 Oct 27 16:35	0°♍	
conjunction	15634 Dec 15 04:01	9°♊36'12	0°56'22		15639 Dec 23 16:09	0°♌	
minimum elong	15634 Dec 15 07:11	9°♊42'13	0°57'13	asc. node	15640 Jan 19 16:32	10°♌09'04	
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max. Earth dist.	15635 Feb 02 08:36	15°♊55'07	2.45390 AU	opposition	15640 Mar 16 10:23	8°♌58'21	3°56'36
morning rise	15635 Feb 15 17:18	25°♊24'05		greatest brilliancy	15640 Mar 17 03:57	8°♌45'44	-2.9m
	15635 Feb 22 06:51	0°♋		min. Earth dist.	15640 Mar 22 02:22	7°♌20'55	0.38600 AU
desc. node	15635 Mar 25 15:45	21°♋25'36		direct	15640 Apr 17 11:09	3°♌01'03	
	15635 Apr 07 14:09	0°♌			15640 Jun 27 22:55	0°♌	
	15635 May 24 19:06	0°♌			15640 Aug 12 22:21	0°♊	
	15635 Jul 15 07:46	0°♐			15640 Sep 25 15:15	0°♊	
	15635 Sep 18 14:21	0°♐			15640 Nov 08 19:01	0°♊	
retrograde	15635 Oct 25 17:35	6°♐50'28		desc. node	15640 Nov 13 22:20	3°♋26'38	
	15635 Nov 28 09:46	30°♋♐			15640 Dec 24 02:47	0°♋	
opposition	15635 Dec 03 14:25	28°♐01'55	-4°40'05		15641 Feb 08 14:26	0°♌	


































































































































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	15641 Mar 27 19:32	0°♄			15645 Dec 13 20:19	0°♄	
max. Earth dist.	15641 Apr 24 15:45	17°♄37'46	2.68521 AU		15646 Jan 21 11:12	0°♄	
					15646 Mar 02 13:09	0°♄	
conjunction	15641 Apr 26 18:58	18°♄58'53	-1°10'38		15646 Apr 14 20:46	0°♄	
minimum elong	15641 Apr 26 18:19	18°♄57'51	1°11'14		15646 Jun 05 06:38	0°♄	
	15641 May 14 03:40	0°♄		desc. node	15646 Jul 07 18:13	13°♄06'32	
morning rise	15641 Jun 08 18:26	16°♄19'43		retrograde	15646 Aug 03 10:25	17°♄16'41	
	15641 Jun 30 01:35	0°♄		min. Earth dist.	15646 Sep 08 19:46	8°♄55'02	0.64116 AU
	15641 Aug 15 04:06	0°♄		opposition	15646 Sep 12 23:18	7°♄16'33	-2°39'30
	15641 Sep 29 06:58	0°♄		greatest brilliancy	15646 Sep 12 12:22	7°♄27'22	-1.5m
	15641 Nov 12 10:27	0°♄			15646 Oct 05 04:51	30°♄	
asc. node	15641 Dec 06 18:51	16°♄45'02		direct	15646 Oct 22 02:30	28°♄10'41	
	15641 Dec 26 00:53	0°♄			15646 Nov 09 06:44	0°♄	
	15642 Feb 08 19:25	0°♄			15647 Jan 23 15:55	0°♄	
	15642 Apr 05 20:33	0°♄			15647 Mar 17 18:52	0°♄	
retrograde	15642 May 04 22:24	5°♄41'06			15647 May 04 15:51	0°♄	
min. Earth dist.	15642 May 30 20:14	1°♄16'18	0.39735 AU		15647 Jun 18 03:01	0°♄	
	15642 Jun 04 00:51	30°♄		evening set	15647 Jul 05 00:06	11°♄54'38	
greatest brilliancy	15642 Jun 05 10:30	29°♄34'10	-2.8m	max. Earth dist.	15647 Jul 18 19:52	21°♄52'26	2.44055 AU
opposition	15642 Jun 06 20:25	29°♄08'14	6°17'25	asc. node	15647 Jul 28 19:07	29°♄10'19	
direct	15642 Jul 07 02:15	23°♄37'36			15647 Jul 29 22:04	0°♄	
	15642 Aug 09 11:49	0°♄					
desc. node	15642 Oct 02 03:52	25°♄12'49		conjunction	15647 Aug 31 09:21	24°♄24'47	0°23'03
	15642 Oct 10 18:57	0°♄		minimum elong	15647 Aug 31 07:32	24°♄21'18	0°22'50
	15642 Dec 01 03:20	0°♄			15647 Sep 07 16:02	0°♄	
	15643 Jan 19 15:27	0°♄			15647 Oct 16 02:07	0°♄	
	15643 Mar 09 08:41	0°♄		morning rise	15647 Nov 09 00:16	18°♄55'54	
evening set	15643 Apr 17 20:30	24°♄43'47			15647 Nov 22 23:49	0°♄	
	15643 Apr 26 04:03	0°♄			15647 Dec 31 06:32	0°♄	
max. Earth dist.	15643 May 17 00:51	13°♄20'24	2.65413 AU		15648 Feb 08 20:37	0°♄	
					15648 Mar 21 17:31	0°♄	
conjunction	15643 May 31 17:43	22°♄51'05	-1°09'32		15648 May 06 05:37	0°♄	
minimum elong	15643 May 31 18:27	22°♄52'17	1°10'23	desc. node	15648 May 24 16:59	11°♄12'49	
	15643 Jun 11 16:30	0°♄			15648 Jun 28 01:35	0°♄	
morning rise	15643 Jul 15 17:55	22°♄38'30		retrograde	15648 Sep 05 17:19	21°♄04'13	
	15643 Jul 26 14:33	0°♄		opposition	15648 Oct 16 11:39	11°♄17'38	-4°24'45
	15643 Sep 07 19:16	0°♄		greatest brilliancy	15648 Oct 16 09:13	11°♄20'03	-1.2m
	15643 Oct 19 08:06	0°♄		min. Earth dist.	15648 Oct 16 04:09	11°♄25'03	0.68615 AU
asc. node	15643 Oct 24 13:07	3°♄50'18		direct	15648 Nov 26 13:34	1°♄30'38	
	15643 Nov 28 12:43	0°♄			15649 Feb 20 11:26	0°♄	
	15644 Jan 07 00:52	0°♄			15649 Apr 13 03:21	0°♄	
	15644 Feb 16 01:48	0°♄			15649 May 28 13:19	0°♄	
	15644 Mar 30 01:20	0°♄		asc. node	15649 Jun 14 13:51	11°♄57'23	
	15644 May 25 03:56	0°♄			15649 Jul 09 09:24	0°♄	
retrograde	15644 Jun 25 17:20	6°♄17'08			15649 Aug 17 21:20	0°♄	
	15644 Jul 25 23:53	30°♄		evening set	15649 Sep 03 05:29	12°♄45'33	
min. Earth dist.	15644 Jul 26 17:03	29°♄44'11	0.53292 AU		15649 Sep 25 01:17	0°♄	
opposition	15644 Aug 03 05:41	26°♄53'15	0°48'43		15649 Nov 01 20:02	0°♄	
greatest brilliancy	15644 Aug 03 00:18	26°♄58'20	-2.0m				
desc. node	15644 Aug 19 12:44	21°♄32'09		conjunction	15649 Nov 15 06:50	10°♄36'54	1°07'35
direct	15644 Sep 07 18:47	19°♄05'02		minimum elong	15649 Nov 15 07:34	10°♄38'19	1°08'22
	15644 Oct 25 06:23	0°♄			15649 Dec 10 03:36	0°♄	
	15644 Dec 26 01:14	0°♄		max. Earth dist.	15650 Jan 07 12:57	21°♄36'02	2.39640 AU
	15645 Feb 16 12:39	0°♄			15650 Jan 18 19:56	0°♄	
	15645 Apr 06 17:24	0°♄		morning rise	15650 Jan 24 02:14	3°♄52'28	
evening set	15645 May 22 23:11	29°♄40'18			15650 Mar 01 13:28	0°♄	
	15645 May 23 11:09	0°♄		desc. node	15650 Apr 11 10:20	27°♄42'21	
max. Earth dist.	15645 Jun 10 18:51	12°♄11'19	2.56972 AU		15650 Apr 14 22:23	0°♄	
	15645 Jul 06 21:10	0°♄			15650 Jun 01 18:50	0°♄	
					15650 Jul 26 01:13	0°♄	
conjunction	15645 Jul 09 06:51	1°♄40'02	-0°39'18	retrograde	15650 Oct 10 18:56	23°♄39'59	
minimum elong	15645 Jul 09 08:25	1°♄42'46	0°40'04	opposition	15650 Nov 19 11:15	14°♄30'18	-4°52'26
	15645 Aug 18 03:01	0°♄		greatest brilliancy	15650 Nov 20 01:37	14°♄16'16	-1.3m
morning rise	15645 Aug 30 17:29	9°♄13'58		min. Earth dist.	15650 Nov 23 01:32	13°♄06'05	0.66278 AU
asc. node	15645 Sep 10 04:23	16°♄59'00		direct	15650 Dec 31 00:16	4°♄27'40	
	15645 Sep 27 11:52	0°♄			15651 Mar 18 06:18	0°♄	

asc. node	15651 May 02 15:39	27°☾19'32	minimum elong	15656 Apr 13 05:57	6°♄09'47	1°04'42
	15651 May 06 17:05	0°♈	max. Earth dist.	15656 Apr 16 05:38	8°♄03'28	2.68248 AU
	15651 Jun 18 14:20	0°♍		15656 May 20 20:51	0°♈	
	15651 Jul 28 08:22	0°♊	morning rise	15656 May 26 09:57	3°♈30'50	
	15651 Sep 04 14:25	0°♌		15656 Jul 07 03:02	0°☾	
	15651 Oct 12 13:10	0°♊		15656 Aug 23 00:13	0°♈	
evening set	15651 Nov 20 09:59	0°♄10'36		15656 Oct 08 11:27	0°♍	
	15651 Nov 20 04:27	0°♄		15656 Nov 23 20:21	0°♊	
	15651 Dec 30 07:07	0°♋	asc. node	15656 Dec 23 10:06	18°♊48'25	
				15657 Jan 10 15:30	0°♌	
conjunction	15652 Jan 22 01:01	16°♋24'03 0°22'24		15657 Mar 12 13:25	0°♊	
minimum elong	15652 Jan 22 02:26	16°♋26'35 0°23'02	retrograde	15657 Apr 06 15:26	4°♊03'28	
	15652 Feb 10 09:25	0°♋		15657 May 02 13:01	30°♌♌	
max. Earth dist.	15652 Feb 26 11:52	11°♋04'39 2.53698 AU	min. Earth dist.	15657 May 03 22:26	29°♌37'45	0.36695 AU
desc. node	15652 Feb 27 00:18	11°♋25'49	opposition	15657 May 06 17:45	28°♌52'21	7°18'51
morning rise	15652 Mar 15 15:38	23°♋19'26	greatest brilliancy	15657 May 06 01:34	29°♌03'17	-3.0m
	15652 Mar 25 17:05	0°♑	direct	15657 Jun 04 19:39	24°♌02'05	
	15652 May 11 07:49	0°♄		15657 Jul 06 03:50	0°♊	
	15652 Jun 29 13:50	0°♈		15657 Sep 04 05:09	0°♄	
	15652 Aug 22 09:21	0°☾	desc. node	15657 Oct 18 16:04	27°♄02'44	
	15652 Nov 19 17:51	0°♈		15657 Oct 23 10:01	0°♋	
retrograde	15652 Nov 20 00:42	0°♈00'02		15657 Dec 10 08:39	0°♋	
	15652 Nov 20 07:31	30°♌☾		15658 Jan 27 07:56	0°♑	
opposition	15652 Dec 27 02:26	21°☾54'56 -3°42'49		15658 Mar 16 07:32	0°♄	
greatest brilliancy	15652 Dec 28 03:33	21°☾31'20 -1.7m	evening set	15658 Apr 04 07:21	11°♄55'47	
min. Earth dist.	15653 Jan 03 08:10	19°☾12'08 0.57198 AU		15658 May 02 20:52	0°♈	
direct	15653 Feb 05 05:27	12°☾17'08	max. Earth dist.	15658 May 08 01:41	3°♈18'46	2.67302 AU
asc. node	15653 Mar 19 22:59	22°☾30'16				
	15653 Apr 04 18:26	0°♈	conjunction	15658 May 17 21:22	9°♈35'14	-1°13'08
	15653 May 23 21:03	0°♍	minimum elong	15658 May 17 21:33	9°♈35'31	1°13'55
	15653 Jul 04 10:36	0°♊		15658 Jun 18 11:40	0°☾	
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	15653 Sep 20 04:44	0°♊		15658 Aug 02 18:54	0°♈	
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	15653 Dec 09 12:33	0°♋		15658 Oct 27 21:01	0°♊	
desc. node	15654 Jan 13 14:33	24°♋39'19	asc. node	15658 Nov 10 08:37	9°♊46'19	
evening set	15654 Jan 16 21:52	26°♋55'50		15658 Dec 07 21:55	0°♌	
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				15659 Apr 17 00:37	0°♋	
conjunction	15654 Mar 08 06:21	0°♑42'17 -0°31'21	retrograde	15659 Jun 08 17:08	16°♋14'35	
minimum elong	15654 Mar 08 05:11	0°♑40'22 0°31'15	min. Earth dist.	15659 Jul 07 06:21	10°♋35'07	0.47838 AU
max. Earth dist.	15654 Mar 25 02:20	11°♑40'46 2.63678 AU	opposition	15659 Jul 15 14:05	7°♋36'02	2°47'59
	15654 Apr 22 15:18	0°♄	greatest brilliancy	15659 Jul 14 18:36	7°♋53'36	-2.3m
morning rise	15654 Apr 23 03:29	0°♄19'23	direct	15659 Aug 18 06:20	0°♋34'28	
	15654 Jun 09 09:05	0°♈	desc. node	15659 Sep 05 23:15	2°♋39'32	
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retrograde	15655 Jan 16 02:42	18°♍30'45		15660 Apr 13 16:16	0°♈	
asc. node	15655 Feb 05 05:32	15°♍58'30	evening set	15660 May 08 12:08	15°♈49'36	
opposition	15655 Feb 17 13:37	12°♍22'26 0°47'58		15660 May 30 06:32	0°☾	
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direct	15655 Mar 24 19:15	4°♍55'47	conjunction	15660 Jun 22 21:57	15°☾44'26	-0°54'51
	15655 May 31 19:47	0°♊	minimum elong	15660 Jun 22 23:25	15°☾46'54	0°55'42
	15655 Jul 15 17:31	0°♌		15660 Jul 13 20:19	0°♈	
	15655 Aug 26 06:13	0°♊	morning rise	15660 Aug 10 11:48	19°♈19'31	
	15655 Oct 06 18:40	0°♄		15660 Aug 25 10:04	0°♍	
	15655 Nov 18 12:05	0°♋	asc. node	15660 Sep 26 23:48	23°♍52'28	
desc. node	15655 Dec 01 12:11	8°♋54'59		15660 Oct 05 04:26	0°♊	
	15656 Jan 01 20:00	0°♋		15660 Nov 13 13:36	0°♌	
	15656 Feb 16 15:58	0°♑		15660 Dec 22 05:47	0°♊	
evening set	15656 Feb 28 06:15	7°♑28'11		15661 Jan 30 04:21	0°♄	
	15656 Apr 03 12:58	0°♄		15661 Mar 11 19:23	0°♋	
				15661 Apr 25 18:28	0°♋	
conjunction	15656 Apr 13 07:01	6°♄11'28 -1°04'16		15661 Jun 28 20:42	0°♑	

retrograde	15661 Jul 20 06:18	2° Υ 51'42		15666 Mar 29 05:09	0° \ominus	
desc. node	15661 Jul 24 06:34	2° Υ 44'58		15666 May 15 09:17	0° Ω	
	15661 Aug 09 12:07	30° κ χ		asc. node	15666 May 19 05:35	2° Ω 37'09
min. Earth dist.	15661 Aug 23 16:48	25° χ 08'18	0.60540 AU		15666 Jun 26 16:45	0° \cap
opposition	15661 Aug 29 07:04	22° χ 56'32	-1°34'00		15666 Aug 05 06:50	0° $\underline{\Delta}$
greatest brilliancy	15661 Aug 28 22:15	23° χ 05'11	-1.6m		15666 Sep 12 10:58	0° \mathbb{M}
direct	15661 Oct 06 05:39	14° χ 15'30		greatest brilliancy	15666 Oct 15 05:16	25° \mathbb{M} 59'17 1.1m
	15661 Dec 05 05:06	0° Υ			15666 Oct 20 07:07	0° \nearrow
	15662 Feb 02 09:42	0° \mathcal{B}		evening set	15666 Oct 21 18:01	1° \nearrow 08'52
	15662 Mar 25 11:34	0° Π			15666 Nov 27 18:08	0° \mathcal{Z}
	15662 May 11 18:48	0° \ominus				
evening set	15662 Jun 16 21:55	24° \ominus 16'37		conjunction	15666 Dec 29 22:33	24° \mathcal{Z} 18'54 0°45'11
	15662 Jun 25 04:18	0° Ω		minimum elong	15666 Dec 30 01:29	24° \mathcal{Z} 24'20 0°45'59
max. Earth dist.	15662 Jul 01 04:34	4° Ω 12'01	2.49497 AU		15667 Jan 06 15:17	0° \approx
	15662 Aug 06 02:52	0° \cap		max. Earth dist.	15667 Feb 12 09:21	26° \approx 24'30 2.48479 AU
					15667 Feb 17 12:32	0° χ
conjunction	15662 Aug 08 05:13	1° \cap 32'31	-0°04'22	morning rise	15667 Feb 26 21:00	6° χ 29'03
minimum elong	15662 Aug 08 05:30	1° \cap 33'02	0°04'51	desc. node	15667 Mar 15 18:18	17° χ 59'46
behind sun begin	15662 Aug 07 06:39	0° \cap 51'02			15667 Apr 02 18:17	0° Υ
behind sun end	15662 Aug 09 04:21	2° \cap 15'06			15667 May 19 15:45	0° \mathcal{B}
asc. node	15662 Aug 14 13:01	6° \cap 12'56			15667 Jul 09 02:24	0° Π
	15662 Sep 15 02:01	0° $\underline{\Delta}$			15667 Sep 05 21:32	0° \ominus
morning rise	15662 Oct 09 01:25	18° $\underline{\Delta}$ 32'09		retrograde	15667 Nov 03 19:26	15° \ominus 13'33
	15662 Oct 23 16:53	0° \mathbb{M}		opposition	15667 Dec 12 02:27	6° \ominus 38'47 -4°25'12
	15662 Nov 30 17:56	0° \nearrow		greatest brilliancy	15667 Dec 13 01:30	6° \ominus 16'40 -1.5m
greatest brilliancy	15663 Jan 02 13:05	25° \nearrow 41'44	1.2m	min. Earth dist.	15667 Dec 17 23:56	4° \ominus 23'16 0.61499 AU
	15663 Jan 08 02:29	0° \mathcal{Z}			15667 Dec 30 21:31	30° κ Π
	15663 Feb 16 18:28	0° \approx		direct	15668 Jan 22 01:26	26° Π 44'04
	15663 Mar 30 22:12	0° χ			15668 Feb 14 13:39	0° \ominus
	15663 May 16 13:19	0° Υ		asc. node	15668 Apr 05 10:31	22° \ominus 07'12
desc. node	15663 Jun 11 09:42	14° Υ 34'54			15668 Apr 18 21:45	0° Ω
	15663 Jul 15 00:56	0° \mathcal{B}			15668 Jun 03 02:19	0° \cap
retrograde	15663 Aug 24 13:04	8° \mathcal{B} 31'29			15668 Jul 13 14:39	0° $\underline{\Delta}$
	15663 Sep 30 20:28	30° κ Υ			15668 Aug 21 05:39	0° \mathbb{M}
min. Earth dist.	15663 Oct 02 12:56	29° Υ 20'01	0.67642 AU		15668 Sep 28 12:11	0° \nearrow
opposition	15663 Oct 04 09:03	28° Υ 36'18	-3°53'51		15668 Nov 06 12:26	0° \mathcal{Z}
greatest brilliancy	15663 Oct 04 01:34	28° Υ 43'42	-1.3m		15668 Dec 17 01:09	0° \approx
direct	15663 Nov 13 20:58	19° Υ 02'20		evening set	15668 Dec 27 19:27	7° \approx 44'13
	15664 Jan 01 11:21	0° \mathcal{B}			15669 Jan 28 12:53	0° χ
	15664 Mar 02 12:12	0° Π		desc. node	15669 Jan 30 08:32	1° χ 15'10
	15664 Apr 21 03:21	0° \ominus				
	15664 Jun 05 01:15	0° Ω		conjunction	15669 Feb 19 21:25	15° χ 13'37 -0°12'35
asc. node	15664 Jul 01 06:33	18° Ω 36'42		minimum elong	15669 Feb 19 20:51	15° χ 12'39 0°12'16
	15664 Jul 16 19:47	0° \cap		behind sun begin	15669 Feb 19 07:10	14° χ 49'39
evening set	15664 Aug 07 05:53	16° \cap 04'37		behind sun end	15669 Feb 20 10:31	15° χ 35'39
	15664 Aug 25 09:19	0° $\underline{\Delta}$			15669 Mar 14 01:41	0° Υ
max. Earth dist.	15664 Sep 20 15:09	20° $\underline{\Delta}$ 31'14	2.36367 AU	max. Earth dist.	15669 Mar 15 07:51	0° Υ 49'40 2.60387 AU
	15664 Oct 02 14:55	0° \mathbb{M}		morning rise	15669 Apr 09 00:05	16° Υ 54'08
					15669 Apr 29 11:39	0° \mathcal{B}
conjunction	15664 Oct 14 08:14	9° \mathbb{M} 17'58	1°01'10		15669 Jun 16 14:51	0° Π
minimum elong	15664 Oct 14 04:52	9° \mathbb{M} 11'17	1°01'36		15669 Aug 05 19:18	0° \ominus
	15664 Nov 09 10:04	0° \nearrow			15669 Sep 29 07:12	0° Ω
	15664 Dec 17 16:21	0° \mathcal{Z}		retrograde	15669 Dec 21 21:54	27° Ω 25'08
morning rise	15664 Dec 28 01:17	7° \mathcal{Z} 59'03		opposition	15670 Jan 25 11:34	20° Ω 23'07 -1°33'10
	15665 Jan 26 06:26	0° \approx		greatest brilliancy	15670 Jan 26 01:47	20° Ω 10'40 -2.2m
	15665 Mar 08 23:04	0° χ		min. Earth dist.	15670 Feb 03 03:27	17° Ω 21'47 0.48945 AU
	15665 Apr 22 13:16	0° Υ		asc. node	15670 Feb 21 19:03	12° Ω 32'34
desc. node	15665 Apr 28 04:16	3° Υ 37'00		direct	15670 Mar 04 05:14	11° Ω 45'46
	15665 Jun 10 11:51	0° \mathcal{B}			15670 Apr 30 11:08	0° \cap
	15665 Aug 09 11:11	0° Π			15670 Jun 16 15:10	0° $\underline{\Delta}$
retrograde	15665 Sep 26 18:26	11° Π 02'02			15670 Jul 27 16:18	0° \mathbb{M}
opposition	15665 Nov 06 00:25	1° Π 35'18	-4°51'00		15670 Sep 05 11:45	0° \nearrow
greatest brilliancy	15665 Nov 06 07:57	1° Π 27'54	-1.3m		15670 Oct 15 20:23	0° \mathcal{Z}
min. Earth dist.	15665 Nov 08 01:50	0° Π 46'45	0.68009 AU		15670 Nov 26 15:51	0° \approx
	15665 Nov 10 01:38	30° κ \mathcal{B}		desc. node	15670 Dec 18 02:20	14° \approx 54'07
direct	15665 Dec 17 13:17	21° \mathcal{B} 35'38			15671 Jan 09 06:43	0° χ
	15666 Jan 27 12:11	0° Π		evening set	15671 Feb 12 22:45	23° χ 01'55

	15671 Feb 23 14:42	0°♄			15676 Feb 09 13:49	0°♄	
					15676 Mar 22 07:26	0°♊	
conjunction	15671 Mar 31 11:49	23°♄08'12 -0°54'19			15676 May 10 08:32	0°♊	
minimum elong	15671 Mar 31 10:31	23°♄06'07 0°54'33	retrograde		15676 Jul 05 00:35	16°♊50'47	
max. Earth dist.	15671 Apr 08 12:26	28°♄15'39 2.67127 AU	min. Earth dist.		15676 Aug 06 07:29	9°♊50'52 0.56095 AU	
	15671 Apr 11 05:55	0°♄	desc. node		15676 Aug 09 19:11	8°♊30'32	
morning rise	15671 May 14 06:09	20°♄55'34	opposition		15676 Aug 13 05:07	7°♊11'16 -0°09'45	
	15671 May 28 15:30	0°♄	greatest brilliancy		15682 May 27 03:54	29°♄53'41 1.5m	
	15671 Jul 15 09:16	0°♄			15676 Sep 06 12:19	30°♊	
	15671 Sep 01 08:39	0°♄	direct		15676 Sep 18 16:31	29°♊01'53	
	15671 Oct 19 22:55	0°♄			15676 Oct 01 13:15	0°♊	
	15671 Dec 09 22:05	0°♄			15676 Dec 18 19:48	0°♄	
asc. node	15672 Jan 10 00:38	16°♄08'30			15677 Feb 11 00:46	0°♄	
	15672 Feb 18 23:13	0°♄			15677 Apr 01 19:35	0°♄	
retrograde	15672 Mar 04 13:03	1°♄20'25			15677 May 18 17:59	0°♄	
	15672 Mar 19 03:32	30°♊	evening set		15677 May 31 15:25	8°♄32'21	
opposition	15672 Apr 03 03:01	26°♄26'30 5°42'15	max. Earth dist.		15677 Jun 17 15:57	20°♄01'12 2.54504 AU	
greatest brilliancy	15672 Apr 03 15:00	26°♄18'24 -3.0m			15677 Jul 02 04:18	0°♄	
min. Earth dist.	15672 Apr 06 03:20	25°♄37'43 0.36978 AU					
direct	15672 May 03 09:17	21°♄11'39	conjunction		15677 Jul 19 09:42	12°♄04'25 -0°27'57	
	15672 Jun 10 02:43	0°♄	minimum elong		15677 Jul 19 11:04	12°♄06'50 0°28'39	
	15672 Aug 03 10:14	0°♄			15677 Aug 13 08:05	0°♄	
	15672 Sep 18 10:23	0°♄	asc. node		15677 Aug 31 08:42	13°♄16'59	
	15672 Nov 02 17:59	0°♄	morning rise		15677 Sep 12 15:47	22°♄29'19	
desc. node	15672 Nov 04 03:16	0°♄54'45			15677 Sep 22 13:55	0°♄	
	15672 Dec 18 18:41	0°♄			15677 Oct 31 10:44	0°♄	
	15673 Feb 03 16:33	0°♄			15677 Dec 08 16:07	0°♄	
evening set	15673 Mar 21 16:14	29°♄04'50			15678 Jan 16 03:44	0°♄	
	15673 Mar 23 03:11	0°♄			15678 Feb 24 23:55	0°♄	
max. Earth dist.	15673 Apr 29 13:42	23°♄40'30 2.68323 AU			15678 Apr 08 16:45	0°♄	
					15678 May 27 12:16	0°♄	
conjunction	15673 May 04 10:45	26°♄46'12 -1°12'44	desc. node		15678 Jun 27 23:17	15°♄16'07	
minimum elong	15673 May 04 10:23	26°♄45'36 1°13'23	retrograde		15678 Aug 11 04:59	25°♄32'11	
	15673 May 09 12:45	0°♄	min. Earth dist.		15678 Sep 17 13:56	16°♄51'52 0.65653 AU	
morning rise	15673 Jun 16 12:58	24°♄19'40	opposition		15678 Sep 20 22:16	15°♄32'16 -3°11'01	
	15673 Jun 25 07:42	0°♄	greatest brilliancy		15678 Sep 20 11:42	15°♄42'44 -1.4m	
	15673 Aug 10 02:41	0°♄	direct		15678 Oct 30 15:07	6°♄15'08	
	15673 Sep 23 16:47	0°♄			15679 Jan 16 03:59	0°♄	
	15673 Nov 06 01:17	0°♄			15679 Mar 12 06:30	0°♄	
asc. node	15673 Nov 27 00:36	14°♄46'34			15679 Apr 29 16:41	0°♄	
	15673 Dec 18 11:14	0°♄			15679 Jun 13 07:42	0°♄	
	15674 Jan 29 23:40	0°♄	evening set		15679 Jul 16 10:34	23°♄37'38	
	15674 Mar 17 04:53	0°♄	asc. node		15679 Jul 18 23:13	25°♄28'31	
retrograde	15674 May 18 15:21	21°♄58'17			15679 Jul 25 02:54	0°♄	
min. Earth dist.	15674 Jun 14 01:19	17°♄12'02 0.42379 AU	max. Earth dist.		15679 Aug 01 17:21	5°♄38'24 2.40987 AU	
greatest brilliancy	15674 Jun 20 18:41	15°♄00'50 -2.6m			15679 Sep 02 19:39	0°♄	
opposition	15674 Jun 22 02:49	14°♄34'29 5°05'10					
direct	15674 Jul 23 14:38	8°♄30'41	conjunction		15679 Sep 15 09:40	9°♄45'30 0°38'56	
desc. node	15674 Sep 22 11:01	26°♄06'24	minimum elong		15679 Sep 15 06:27	9°♄39'15 0°38'57	
	15674 Sep 30 12:01	0°♄			15679 Oct 11 04:16	0°♄	
	15674 Nov 24 11:13	0°♄			15679 Nov 18 01:01	0°♄	
	15675 Jan 14 04:45	0°♄	morning rise		15679 Nov 27 12:42	7°♄29'44	
	15675 Mar 04 11:04	0°♄			15679 Dec 26 07:11	0°♄	
	15675 Apr 21 11:58	0°♄			15680 Feb 03 20:14	0°♄	
evening set	15675 Apr 25 15:10	2°♄37'25			15680 Mar 16 13:51	0°♄	
max. Earth dist.	15675 May 22 10:00	19°♄48'28 2.64039 AU			15680 Apr 30 14:11	0°♄	
	15675 Jun 07 01:04	0°♄	desc. node		15680 May 14 21:46	8°♄55'54	
					15680 Jun 20 10:07	0°♄	
conjunction	15675 Jun 08 21:26	1°♄12'49 -1°05'30	retrograde		15680 Sep 13 06:30	28°♄38'25	
minimum elong	15675 Jun 08 22:28	1°♄14'33 1°06'22	opposition		15680 Oct 23 21:49	18°♄57'50 -4°37'49	
	15675 Jul 21 20:24	0°♄	greatest brilliancy		15680 Oct 23 22:42	18°♄56'58 -1.2m	
morning rise	15675 Jul 24 21:40	2°♄05'24	min. Earth dist.		15680 Oct 24 10:16	18°♄45'33 0.68695 AU	
	15675 Sep 02 19:44	0°♄	direct		15680 Dec 04 05:23	9°♄05'20	
asc. node	15675 Oct 14 18:48	0°♄31'49			15681 Feb 12 17:35	0°♄	
	15675 Oct 14 01:38	0°♄			15681 Apr 07 12:07	0°♄	
	15675 Nov 22 22:20	0°♄			15681 May 23 10:58	0°♄	
	15676 Jan 01 01:47	0°♄	asc. node		15681 Jun 04 21:11	8°♄38'37	

	15681 Jul 04 10:50	0°♎		conjunction	15686 Mar 16 23:22	9°♑25'36	-0°40'49
	15681 Aug 12 23:29	0°♏		minimum elong	15686 Mar 16 22:03	9°♑23'29	0°40'51
evening set	15681 Sep 20 05:52	0°♎05'20		max. Earth dist.	15686 Mar 30 12:44	18°♑11'16	2.65127 AU
	15681 Sep 20 03:11	0°♎			15686 Apr 17 23:35	0°♏	
	15681 Oct 27 21:59	0°♏		morning rise	15686 Apr 30 22:27	8°♏13'44	
					15686 Jun 04 13:11	0°♐	
conjunction	15681 Dec 02 14:35	27°♏57'17	1°02'59		15686 Jul 22 23:18	0°♑	
minimum elong	15681 Dec 02 17:15	28°♏02'25	1°03'49		15686 Sep 10 12:53	0°♒	
	15681 Dec 05 06:10	0°♑			15686 Nov 01 22:37	0°♎	
	15682 Jan 13 23:17	0°≈			15687 Jan 10 11:13	0°♏	
max. Earth dist.	15682 Jan 24 02:18	7°≈25'39	2.42810 AU	asc. node	15687 Jan 26 13:50	2°♏34'20	
morning rise	15682 Feb 06 08:45	17°≈01'03		retrograde	15687 Feb 01 09:51	2°♏47'02	
	15682 Feb 24 17:03	0°♏			15687 Feb 22 12:05	30°♒♎	
desc. node	15682 Apr 01 13:02	24°♏26'06		opposition	15687 Mar 04 13:35	27°♎10'26	2°31'13
	15682 Apr 09 23:06	0°♑		greatest brilliancy	15687 Mar 05 04:51	26°♎58'53	-2.7m
	15682 May 27 08:03	0°♏		min. Earth dist.	15687 Mar 11 17:54	25°♎00'14	0.40502 AU
	15682 Jul 18 17:05	0°♐		direct	15687 Apr 07 02:28	20°♎32'35	
	15682 Oct 02 04:56	0°♑			15687 May 15 15:50	0°♏	
retrograde	15682 Oct 19 03:59	1°♑35'23			15687 Jul 06 14:22	0°♎	
	15682 Nov 04 01:23	30°♒♐			15687 Aug 19 00:12	0°♏	
opposition	15682 Nov 27 09:54	22°♐36'37	-4°46'57		15687 Sep 30 12:55	0°♑	
greatest brilliancy	15682 Nov 28 03:43	22°♐19'18	-1.4m		15687 Nov 12 22:24	0°≈	
min. Earth dist.	15682 Dec 01 19:54	20°♐53'43	0.64880 AU	desc. node	15687 Nov 21 17:56	5°≈58'46	
direct	15683 Jan 07 19:53	12°♐34'50			15687 Dec 27 17:44	0°♏	
	15683 Mar 09 13:15	0°♑			15688 Feb 11 21:01	0°♑	
asc. node	15683 Apr 23 00:33	25°♑07'49		evening set	15688 Mar 07 13:49	15°♑48'09	
	15683 Apr 30 15:32	0°♒			15688 Mar 29 21:50	0°♏	
	15683 Jun 13 04:07	0°♎					
	15683 Jul 23 03:38	0°♏		conjunction	15688 Apr 21 00:35	14°♏01'07	-1°08'29
	15683 Aug 30 12:04	0°♎		minimum elong	15688 Apr 20 23:44	13°♏59'48	1°09'00
	15683 Oct 07 12:40	0°♏		max. Earth dist.	15688 Apr 21 04:59	14°♏08'06	2.68502 AU
	15683 Nov 15 06:00	0°♑			15688 May 16 05:34	0°♐	
evening set	15683 Dec 05 09:44	15°♑12'26		morning rise	15688 Jun 03 00:06	11°♐17'42	
	15683 Dec 25 10:51	0°≈			15688 Jul 02 07:03	0°♑	
					15688 Aug 17 17:48	0°♒	
conjunction	15684 Feb 02 14:44	27°≈54'05	0°09'04		15688 Oct 02 10:05	0°♎	
minimum elong	15684 Feb 02 15:17	27°≈55'01	0°09'35		15688 Nov 16 10:11	0°♏	
behind sun begin	15684 Feb 01 20:45	27°≈22'48		asc. node	15688 Dec 13 17:28	18°♏16'03	
behind sun end	15684 Feb 03 09:48	28°≈27'14			15688 Dec 31 10:02	0°♎	
	15684 Feb 05 15:15	0°♏			15689 Feb 17 09:24	0°♏	
desc. node	15684 Feb 17 01:40	7°♏52'46		retrograde	15689 Apr 23 03:59	22°♏42'32	
max. Earth dist.	15684 Mar 04 13:50	19°♏04'26	2.56297 AU	min. Earth dist.	15689 May 19 05:33	18°♏25'38	0.38023 AU
	15684 Mar 20 23:22	0°♑		opposition	15689 May 24 17:29	16°♏50'57	7°00'01
morning rise	15684 Mar 24 21:56	2°♑35'51		greatest brilliancy	15689 May 23 12:12	17°♏12'02	-2.9m
	15684 May 06 10:54	0°♏		direct	15689 Jun 23 05:34	11°♏43'33	
	15684 Jun 24 04:19	0°♐			15689 Aug 22 20:16	0°♑	
	15684 Aug 15 06:22	0°♑		desc. node	15689 Oct 08 22:08	25°♑54'53	
	15684 Oct 17 00:26	0°♒			15689 Oct 15 20:20	0°≈	
retrograde	15684 Nov 30 17:37	9°♒36'43			15689 Dec 04 10:11	0°♏	
opposition	15685 Jan 06 00:21	1°♒51'17	-3°05'41		15690 Jan 22 04:04	0°♑	
greatest brilliancy	15685 Jan 06 23:56	1°♒29'31	-1.9m		15690 Mar 11 13:02	0°♏	
	15685 Jan 11 00:43	30°♒♑		evening set	15690 Apr 12 00:51	19°♏44'27	
min. Earth dist.	15685 Jan 13 21:25	28°♑57'30	0.54443 AU		15690 Apr 28 05:54	0°♐	
direct	15685 Feb 14 10:57	22°♑29'26		max. Earth dist.	15690 May 13 04:11	9°♐31'29	2.66356 AU
asc. node	15685 Mar 10 06:54	26°♑03'11					
	15685 Mar 22 00:18	0°♒		conjunction	15690 May 25 17:35	17°♐35'53	-1°11'36
	15685 May 16 10:03	0°♎		minimum elong	15690 May 25 18:06	17°♐36'43	1°12'24
	15685 Jun 28 04:06	0°♏			15690 Jun 13 19:50	0°♑	
	15685 Aug 06 18:26	0°♎		morning rise	15690 Jul 09 02:15	16°♑40'17	
	15685 Sep 14 17:09	0°♏			15690 Jul 28 22:41	0°♒	
	15685 Oct 24 08:42	0°♑			15690 Sep 10 10:20	0°♎	
	15685 Dec 04 12:35	0°≈			15690 Oct 22 07:35	0°♏	
desc. node	15686 Jan 03 18:41	21°≈13'06		asc. node	15690 Oct 31 12:47	6°♏44'45	
	15686 Jan 16 14:05	0°♏			15690 Dec 01 20:50	0°♎	
evening set	15686 Jan 27 04:50	7°♏11'47			15691 Jan 10 18:19	0°♏	
	15686 Mar 02 12:22	0°♑			15691 Feb 20 07:54	0°♑	
					15691 Apr 05 15:16	0°≈	

retrograde	15691 Jun 19 04:19	28°  28'18			15696 May 31 02:32	0° 		
min. Earth dist.	15691 Jul 19 02:27	22°  18'35	0.50888 AU	asc. node	15696 Jun 21 12:44	15°  06'12		
opposition	15691 Jul 27 01:11	19°  21'32	1°36'50		15696 Jul 11 23:16	0° 		
greatest brilliancy	15691 Jul 26 14:03	19°  31'53	-2.1m		15696 Aug 20 12:59	0° 		
desc. node	15691 Aug 27 06:41	11°  57'47		evening set	15696 Aug 21 20:03	1°  00'11		
direct	15691 Aug 30 18:21	11°  53'00			15696 Sep 27 18:04	0° 		
	15691 Nov 02 16:53	0° 						
	15691 Dec 30 09:56	0° 		conjunction	15696 Nov 01 06:04	27°  12'356	1°07'13	
	15692 Feb 19 23:57	0° 		minimum elong	15696 Nov 01 04:45	27°  12'210	1°07'52	
	15692 Apr 08 21:59	0° 			15696 Nov 04 12:51	0° 		
evening set	15692 May 16 15:08	24°  06'41			15696 Dec 12 19:11	0° 		
	15692 May 25 15:03	0° 		max. Earth dist.	15696 Dec 18 14:49	4°  29'15	2.37341 AU	
max. Earth dist.	15692 Jun 06 04:11	7°  38'21	2.58818 AU	morning rise	15697 Jan 12 20:39	23°  39'10		
					15697 Jan 21 09:11	0° 		
conjunction	15692 Jul 02 00:00	25°  04'38	-0°46'31		15697 Mar 04 00:31	0° 		
minimum elong	15692 Jul 02 01:35	25°  07'19	0°47'19		15697 Apr 17 09:19	0° 		
	15692 Jul 09 03:50	0° 		desc. node	15697 Apr 18 06:46	0°  34'58		
	15692 Aug 20 14:01	0° 			15697 Jun 04 12:54	0° 		
morning rise	15692 Aug 21 13:01	0°  41'39			15697 Jul 30 09:57	0° 		
asc. node	15692 Sep 17 04:19	20°  16'17		retrograde	15697 Oct 04 16:25	18°  14'32		
	15692 Sep 30 03:51	0° 		opposition	15697 Nov 13 15:25	9°  12'533	-4°53'23	
	15692 Nov 08 08:12	0° 		greatest brilliancy	15697 Nov 14 02:44	9°  14'29	-1.3m	
	15692 Dec 16 19:49	0° 		min. Earth dist.	15697 Nov 16 12:50	8°  17'34	0.67188 AU	
	15693 Jan 24 13:14	0° 			15697 Dec 15 11:43	30°  18'8		
	15693 Mar 05 18:32	0° 		direct	15697 Dec 25 05:15	29°  18'23'45		
	15693 Apr 18 13:14	0° 			15698 Jan 04 07:53	0° 		
	15693 Jun 11 15:17	0° 			15698 Mar 22 08:50	0° 		
desc. node	15693 Jul 14 13:19	10°  30'30		asc. node	15698 May 09 13:15	29°  09'14		
retrograde	15693 Jul 28 10:11	11°  44'02			15698 May 09 19:42	0° 		
min. Earth dist.	15693 Sep 01 23:09	3°  39'17	0.62642 AU		15698 Jun 21 11:57	0° 		
opposition	15693 Sep 06 18:58	1°  45'06	-2°14'22		15698 Jul 31 05:09	0° 		
greatest brilliancy	15693 Sep 06 08:15	1°  55'40	-1.5m		15698 Sep 07 10:34	0° 		
	15693 Sep 11 07:17	30°  18'4			15698 Oct 15 07:51	0° 		
direct	15693 Oct 15 10:34	22°  49'43		evening set	15698 Nov 07 20:09	18°  18'24'37		
	15693 Nov 22 11:57	0° 			15698 Nov 22 20:32	0° 		
	15694 Jan 27 01:35	0° 			15699 Jan 01 19:31	0° 		
	15694 Mar 20 07:08	0° 						
	15694 May 06 23:18	0° 		conjunction	15699 Jan 12 10:28	7°  44'45	0°32'21	
	15694 Jun 20 11:14	0° 		minimum elong	15699 Jan 12 12:36	7°  48'38	0°33'04	
evening set	15694 Jun 26 20:15	4°  02'24			15699 Feb 12 18:06	0° 		
max. Earth dist.	15694 Jul 10 11:39	14°  07'16	2.46534 AU	max. Earth dist.	15699 Feb 20 19:48	5°  18'35'46	2.51439 AU	
	15694 Aug 01 09:02	0° 		desc. node	15699 Mar 05 21:31	14°  18'32'44		
asc. node	15694 Aug 04 18:56	2°  30'51		morning rise	15699 Mar 09 05:21	16°  18'48'00		
					15699 Mar 28 23:14	0° 		
conjunction	15694 Aug 20 17:59	14°  24'39	0°11'01		15699 May 14 14:56	0° 		
minimum elong	15694 Aug 20 17:12	14°  23'10	0°10'42		15699 Jul 03 05:52	0° 		
behind sun begin	15694 Aug 19 22:00	13°  47'06			15699 Aug 27 14:05	0° 		
behind sun end	15694 Aug 21 12:23	14°  59'17		retrograde	15699 Nov 13 07:51	23°  05'58'00		
	15694 Sep 10 06:13	0° 		opposition	15699 Dec 20 23:52	15°  03'38'32	-4°03'19	
	15694 Oct 18 18:43	0° 		greatest brilliancy	15699 Dec 22 00:25	15°  03'15'13	-1.6m	
morning rise	15694 Oct 25 22:08	5°  13'37'54		min. Earth dist.	15699 Dec 27 15:33	13°  03'07'15	0.59241 AU	
	15694 Nov 25 17:41	0° 		direct	15700 Jan 30 13:01	5°  03'51'43		
	15695 Jan 03 00:30	0° 		asc. node	15700 Mar 27 19:36	22°  03'05'48		
	15695 Feb 11 13:55	0° 			15700 Apr 11 17:11	0° 		
	15695 Mar 25 11:27	0° 			15700 May 28 20:01	0° 		
	15695 May 10 06:26	0° 			15700 Jul 08 22:10	0° 		
desc. node	15695 Jun 01 13:03	13°  09'12'24			15700 Aug 16 19:22	0° 		
	15695 Jul 03 20:13	0° 			15700 Sep 24 06:01	0° 		
retrograde	15695 Sep 01 01:47	16°  08'15'27			15700 Nov 02 10:15	0° 		
opposition	15695 Oct 11 21:41	6°  18'24'27	-4°13'33		15700 Dec 13 02:55	0° 		
min. Earth dist.	15695 Oct 10 21:22	6°  18'48'31	0.68320 AU	evening set	15701 Jan 09 12:25	19°  18'44'26'21		
greatest brilliancy	15695 Oct 11 16:45	6°  18'29'19	-1.3m	desc. node	15701 Jan 21 11:31	27°  18'44'34		
	15695 Oct 29 21:59	30°  18'4			15701 Jan 24 18:13	0° 		
direct	15695 Nov 21 18:29	26°  09'42'54						
	15695 Dec 16 14:51	0° 		conjunction	15701 Mar 02 09:20	24°  18'42'53	-0°23'52	
	15696 Feb 25 00:58	0° 		minimum elong	15701 Mar 02 08:21	24°  18'41'16	0°23'42	
	15696 Apr 15 20:11	0° 			15701 Mar 10 09:16	0° 		

max. Earth dist.	15701 Mar 22 02:54	7° Υ 41'24	2.62307 AU		15706 Jul 02 22:27	30° κ $\overline{\text{C}}$	
morning rise	15701 Apr 18 03:55	25° Υ 08'57		opposition	15706 Jul 06 22:07	28° $\overline{\text{C}}$ 36'27	3°46'01
	15701 Apr 25 18:29	0° B		greatest brilliancy	15706 Jul 05 20:23	28° $\overline{\text{C}}$ 58'52	-2.4m
	15701 Jun 12 15:03	0° II		direct	15706 Aug 08 15:42	21° $\overline{\text{C}}$ 59'30	
	15701 Aug 01 00:29	0° $\overline{\text{C}}$		desc. node	15706 Sep 13 17:10	29° $\overline{\text{C}}$ 03'08	
	15701 Sep 22 03:06	0° Ω			15706 Sep 16 09:00	0° \approx	
	15701 Nov 23 07:21	0° M			15706 Nov 18 01:46	0° H	
retrograde	15702 Jan 05 12:22	9° M 20'24			15707 Jan 09 13:03	0° Υ	
opposition	15702 Feb 07 23:20	2° M 46'57	-0°18'55		15707 Feb 28 12:03	0° B	
greatest brilliancy	15702 Feb 08 02:32	2° M 44'16	-2.4m		15707 Apr 17 19:41	0° II	
asc. node	15702 Feb 13 02:29	1° M 03'12		evening set	15707 May 04 11:28	10° II 35'23	
	15702 Feb 16 06:49	30° κ Ω		max. Earth dist.	15707 May 28 22:48	26° II 24'43	2.62414 AU
min. Earth dist.	15702 Feb 16 15:41	29° Ω 52'48	0.45814 AU		15707 Jun 03 10:14	0° $\overline{\text{C}}$	
direct	15702 Mar 16 11:11	24° Ω 45'13					
	15702 Apr 13 17:39	0° M		conjunction	15707 Jun 18 06:57	9° $\overline{\text{C}}$ 49'37	-0°59'57
	15702 Jun 08 21:50	0° $\underline{\text{C}}$		minimum elong	15707 Jun 18 08:16	9° $\overline{\text{C}}$ 51'48	1°00'47
	15702 Jul 21 15:57	0° M			15707 Jul 18 03:31	0° Ω	
	15702 Aug 31 06:30	0° Z		morning rise	15707 Aug 04 14:00	12° Ω 03'58	
	15702 Oct 11 04:05	0° $\overline{\text{C}}$			15707 Aug 29 22:25	0° M	
	15702 Nov 22 09:35	0° \approx		asc. node	15707 Oct 05 23:49	27° M 03'30	
desc. node	15702 Dec 09 07:34	11° \approx 41'24			15707 Oct 09 22:40	0° $\underline{\text{C}}$	
	15703 Jan 05 08:11	0° H			15707 Nov 18 13:14	0° M	
	15703 Feb 19 21:31	0° Υ			15707 Dec 27 09:56	0° Z	
evening set	15703 Feb 22 19:00	1° Υ 52'38			15708 Feb 04 13:01	0° $\overline{\text{C}}$	
	15703 Apr 07 15:14	0° B			15708 Mar 16 11:36	0° \approx	
					15708 May 01 13:04	0° H	
conjunction	15703 Apr 09 10:12	1° B 08'22	-1°00'37	retrograde	15708 Jul 14 20:09	26° H 41'31	
minimum elong	15703 Apr 09 09:01	1° B 06'29	1°00'57	desc. node	15708 Aug 01 00:35	24° H 35'55	
max. Earth dist.	15703 Apr 14 13:56	4° B 25'03	2.67852 AU	min. Earth dist.	15708 Aug 17 08:09	19° H 17'22	0.58653 AU
morning rise	15703 May 22 18:34	28° B 36'35		opposition	15708 Aug 23 13:38	16° H 51'44	-1°01'22
	15703 May 24 23:21	0° II		greatest brilliancy	15708 Aug 23 07:10	16° H 58'02	-1.7m
	15703 Jul 11 10:18	0° $\overline{\text{C}}$		direct	15708 Sep 29 21:39	8° H 23'59	
	15703 Aug 27 18:09	0° Ω			15708 Dec 11 13:11	0° Υ	
	15703 Oct 14 00:46	0° M			15709 Feb 06 07:22	0° B	
	15703 Nov 30 22:43	0° $\underline{\text{C}}$			15709 Mar 28 20:05	0° II	
asc. node	15704 Jan 01 07:30	18° $\underline{\text{C}}$ 44'39			15709 May 15 00:34	0° $\overline{\text{C}}$	
	15704 Jan 21 18:26	0° M		evening set	15709 Jun 10 16:18	17° $\overline{\text{C}}$ 46'35	
retrograde	15704 Mar 24 12:58	19° M 58'15		max. Earth dist.	15709 Jun 26 02:14	28° $\overline{\text{C}}$ 20'18	2.51814 AU
opposition	15704 Apr 22 23:07	15° M 04'51	6°57'27		15709 Jun 28 11:47	0° Ω	
greatest brilliancy	15704 Apr 22 20:50	15° M 06'22	-3.0m				
min. Earth dist.	15704 Apr 22 18:38	15° M 07'48	0.36372 AU	conjunction	15709 Jul 31 05:38	23° Ω 12'28	-0°15'00
direct	15704 May 22 04:18	10° M 13'36		minimum elong	15709 Jul 31 06:31	23° Ω 14'04	0°15'34
	15704 Jul 22 12:16	0° Z		behind sun begin	15709 Jul 31 00:21	23° Ω 02'54	
	15704 Sep 11 05:38	0° $\overline{\text{C}}$		behind sun end	15709 Jul 31 12:42	23° Ω 25'13	
desc. node	15704 Oct 26 10:29	28° $\overline{\text{C}}$ 46'47			15709 Aug 09 13:44	0° M	
	15704 Oct 28 08:11	0° \approx		asc. node	15709 Aug 22 12:55	9° M 33'08	
	15704 Dec 14 07:11	0° H			15709 Sep 18 16:45	0° $\underline{\text{C}}$	
	15705 Jan 30 17:43	0° Υ		morning rise	15709 Sep 27 21:46	7° $\underline{\text{C}}$ 03'10	
	15705 Mar 19 11:03	0° B			15709 Oct 27 10:45	0° M	
evening set	15705 Mar 30 11:24	6° B 56'01			15709 Dec 04 13:37	0° Z	
	15705 May 05 22:39	0° II			15710 Jan 11 22:53	0° $\overline{\text{C}}$	
max. Earth dist.	15705 May 05 12:06	29° B 43'14	2.67864 AU		15710 Feb 20 15:12	0° \approx	
					15710 Apr 03 21:32	0° H	
conjunction	15705 May 13 01:54	4° II 32'33	-1°13'30		15710 May 21 03:04	0° Υ	
minimum elong	15705 May 13 01:51	4° II 32'28	1°14'13	desc. node	15710 Jun 19 04:52	15° Υ 39'48	
	15705 Jun 21 15:41	0° $\overline{\text{C}}$			15710 Jul 25 22:58	0° B	
morning rise	15705 Jun 25 11:01	2° $\overline{\text{C}}$ 28'31		retrograde	15710 Aug 19 20:24	3° B 32'45	
	15705 Aug 06 04:41	0° Ω			15710 Sep 12 01:15	30° κ Υ	
	15705 Sep 19 08:26	0° M		min. Earth dist.	15710 Sep 27 03:20	24° Υ 35'08	0.66880 AU
	15705 Nov 01 02:24	0° $\underline{\text{C}}$		opposition	15710 Sep 29 16:10	23° Υ 34'52	-3°37'56
asc. node	15705 Nov 18 07:36	12° $\underline{\text{C}}$ 20'34		greatest brilliancy	15710 Sep 29 06:56	23° Υ 44'01	-1.3m
	15705 Dec 12 16:13	0° M		direct	15710 Nov 08 20:44	14° Υ 08'02	
	15706 Jan 22 21:06	0° Z			15711 Jan 08 08:03	0° B	
	15706 Mar 06 19:28	0° $\overline{\text{C}}$			15711 Mar 07 11:41	0° II	
	15706 Apr 30 00:36	0° \approx			15711 Apr 25 15:27	0° $\overline{\text{C}}$	
retrograde	15706 Jun 01 00:29	6° \approx 45'38			15711 Jun 09 12:00	0° Ω	
min. Earth dist.	15706 Jun 28 13:04	1° \approx 30'22	0.45348 AU	asc. node	15711 Jul 10 05:36	21° Ω 51'36	

	15711 Jul 21 08:02	0°♎		behind sun end	15716 Feb 15 03:02	9°♎05'49	
evening set	15711 Jul 29 19:22	6°♎17'31		max. Earth dist.	15716 Mar 11 23:20	26°♎29'21	2.58650 AU
max. Earth dist.	15711 Aug 21 19:12	23°♎41'44	2.38128 AU		15716 Mar 17 06:33	0°♎	
	15711 Aug 29 23:53	0°♎		morning rise	15716 Apr 03 15:16	11°♎22'41	
					15716 May 02 15:41	0°♎	
conjunction	15711 Oct 02 17:12	26°♎22'36	0°52'57		15716 Jun 19 23:17	0°♎	
minimum elong	15711 Oct 02 13:19	26°♎14'56	0°53'12		15716 Aug 09 19:38	0°♎	
	15711 Oct 07 07:11	0°♎			15716 Oct 05 17:16	0°♎	
	15711 Nov 14 02:49	0°♎		retrograde	15716 Dec 13 05:56	19°♎51'43	
morning rise	15711 Dec 16 15:22	25°♎34'06		opposition	15717 Jan 17 15:27	12°♎28'57	-2°17'30
	15711 Dec 22 08:23	0°♎		greatest brilliancy	15717 Jan 18 10:55	12°♎11'26	-2.1m
	15712 Jan 30 20:50	0°♎		min. Earth dist.	15717 Jan 26 01:41	9°♎27'56	0.51457 AU
	15712 Mar 12 11:59	0°♎		direct	15717 Feb 25 06:02	3°♎28'51	
	15712 Apr 26 03:50	0°♎		asc. node	15717 Mar 01 15:47	3°♎36'53	
desc. node	15712 May 06 00:59	6°♎17'47			15717 May 08 13:40	0°♎	
	15712 Jun 14 15:18	0°♎			15717 Jun 22 07:14	0°♎	
	15712 Aug 18 01:12	0°♎			15717 Aug 01 14:42	0°♎	
retrograde	15712 Sep 21 22:27	6°♎14'19			15717 Sep 09 23:17	0°♎	
	15712 Oct 23 17:30	30°♎♎			15717 Oct 19 22:42	0°♎	
opposition	15712 Nov 01 09:15	26°♎40'55	-4°47'02		15717 Nov 30 09:43	0°♎	
greatest brilliancy	15712 Nov 01 13:43	26°♎36'31	-1.2m	desc. node	15717 Dec 25 22:55	17°♎51'23	
min. Earth dist.	15712 Nov 02 17:42	26°♎08'58	0.68448 AU		15718 Jan 12 17:05	0°♎	
direct	15712 Dec 12 20:42	16°♎44'10		evening set	15718 Feb 06 21:56	16°♎53'50	
	15713 Feb 04 06:50	0°♎			15718 Feb 26 19:36	0°♎	
	15713 Apr 02 12:04	0°♎					
	15713 May 19 04:50	0°♎		conjunction	15718 Mar 26 08:12	17°♎50'21	-0°49'08
asc. node	15713 May 27 04:05	5°♎28'31		minimum elong	15718 Mar 26 06:52	17°♎48'12	0°49'18
	15713 Jun 30 10:18	0°♎		max. Earth dist.	15718 Apr 05 17:26	24°♎30'03	2.66342 AU
	15713 Aug 09 00:47	0°♎			15718 Apr 14 08:07	0°♎	
	15713 Sep 16 05:07	0°♎		morning rise	15718 May 09 13:29	16°♎00'16	
evening set	15713 Oct 08 21:05	18°♎00'02			15718 May 31 18:45	0°♎	
	15713 Oct 24 00:21	0°♎			15718 Jul 18 19:02	0°♎	
	15713 Dec 01 09:19	0°♎			15718 Sep 05 09:11	0°♎	
					15718 Oct 25 07:34	0°♎	
conjunction	15713 Dec 19 12:06	13°♎50'00	0°53'57		15718 Dec 19 05:56	0°♎	
minimum elong	15713 Dec 19 15:20	13°♎56'05	0°54'45	asc. node	15719 Jan 17 22:28	12°♎29'31	
	15714 Jan 10 03:26	0°♎		retrograde	15719 Feb 19 21:34	18°♎37'01	
max. Earth dist.	15714 Feb 05 23:37	19°♎28'13	2.45970 AU	opposition	15719 Mar 22 01:56	13°♎28'09	4°22'22
morning rise	15714 Feb 19 08:09	28°♎54'43		greatest brilliancy	15719 Mar 22 19:29	13°♎15'41	-2.9m
	15714 Feb 20 21:27	0°♎		min. Earth dist.	15719 Mar 27 07:02	11°♎59'39	0.38228 AU
desc. node	15714 Mar 23 15:18	21°♎04'01		direct	15719 Apr 22 17:08	7°♎39'38	
	15714 Apr 06 01:32	0°♎			15719 Jun 25 13:03	0°♎	
	15714 May 23 01:27	0°♎			15719 Aug 11 17:43	0°♎	
	15714 Jul 13 02:29	0°♎			15719 Sep 24 19:15	0°♎	
	15714 Sep 13 10:57	0°♎			15719 Nov 08 02:32	0°♎	
retrograde	15714 Oct 28 21:29	9°♎46'18		desc. node	15719 Nov 12 22:17	3°♎13'34	
opposition	15714 Dec 06 15:38	1°♎00'02	-4°36'18		15719 Dec 23 11:51	0°♎	
greatest brilliancy	15714 Dec 07 12:31	0°♎39'52	-1.5m		15720 Feb 08 00:18	0°♎	
	15714 Dec 09 05:44	30°♎♎		evening set	15720 Mar 16 16:40	23°♎57'05	
	15714 Dec 11 21:13	28°♎58'56	0.63132 AU		15720 Mar 26 06:01	0°♎	
min. Earth dist.	15715 Jan 16 20:33	21°♎01'19		max. Earth dist.	15720 Apr 27 02:55	20°♎10'24	2.68516 AU
direct	15715 Feb 26 21:56	0°♎					
	15715 Apr 14 07:32	23°♎28'30		conjunction	15720 Apr 29 16:44	21°♎48'21	-1°11'29
asc. node	15715 Apr 25 00:08	0°♎		minimum elong	15720 Apr 29 16:10	21°♎47'27	1°12'05
	15715 Jun 08 10:52	0°♎			15720 May 12 14:36	0°♎	
	15715 Jul 18 18:08	0°♎		morning rise	15720 Jun 11 16:02	19°♎10'10	
	15715 Aug 26 06:28	0°♎			15720 Jun 28 12:41	0°♎	
	15715 Oct 03 09:56	0°♎			15720 Aug 13 14:43	0°♎	
	15715 Nov 11 06:17	0°♎			15720 Sep 27 16:07	0°♎	
evening set	15715 Dec 20 01:20	28°♎52'43			15720 Nov 10 16:39	0°♎	
	15715 Dec 21 14:18	0°♎		asc. node	15720 Dec 04 23:31	16°♎47'14	
	15716 Feb 01 21:14	0°♎			15720 Dec 24 01:00	0°♎	
desc. node	15716 Feb 08 05:50	4°♎23'05			15721 Feb 06 03:54	0°♎	
					15721 Mar 29 23:34	0°♎	
conjunction	15716 Feb 14 05:48	8°♎29'36	-0°03'46	retrograde	15721 May 09 03:31	10°♎13'01	
minimum elong	15716 Feb 14 05:36	8°♎29'15	0°03'23	min. Earth dist.	15721 Jun 04 00:22	5°♎45'05	0.40200 AU
behind sun begin	15716 Feb 13 08:09	7°♎52'38		greatest brilliancy	15721 Jun 09 21:36	3°♎56'38	-2.7m

opposition	15721 Jun 11 07:14	3° Z 30'36	6°02'43		15726 Jul 28 14:33	0° M	
	15721 Jun 23 22:16	30° R X					
direct	15721 Jul 11 19:15	27° X 53'52		conjunction	15726 Sep 04 15:16	28° M 37'34	0°27'05
	15721 Jul 30 06:14	0° Z		minimum elong	15726 Sep 04 13:06	28° M 33'24	0°26'57
desc. node	15721 Sep 30 04:56	25° Z 46'04			15726 Sep 06 10:11	0° L	
	15721 Oct 08 00:52	0° \approx			15726 Oct 14 21:08	0° M	
	15721 Nov 29 02:33	0° X		morning rise	15726 Nov 14 00:17	23° M 50'42	
	15722 Jan 17 20:44	0° Y			15726 Nov 21 18:52	0° X	
	15722 Mar 07 17:06	0° B			15726 Dec 30 00:42	0° Z	
evening set	15722 Apr 20 18:40	27° B 34'18			15727 Feb 07 12:46	0° \approx	
	15722 Apr 24 14:40	0° II			15727 Mar 21 05:57	0° X	
max. Earth dist.	15722 May 19 09:57	15° II 51'03	2.65186 AU		15727 May 05 10:42	0° Y	
				desc. node	15727 May 23 17:50	11° Y 14'07	
conjunction	15722 Jun 03 17:17	25° II 45'53	-1°08'38		15727 Jun 26 07:53	0° B	
minimum elong	15722 Jun 03 18:07	25° II 47'14	1°09'28	retrograde	15727 Sep 09 13:56	23° B 51'39	
	15722 Jun 10 04:56	0° E		opposition	15727 Oct 20 08:13	14° B 05'56	-4°29'21
morning rise	15722 Jul 18 21:23	25° E 44'01		greatest brilliancy	15727 Oct 20 06:21	14° B 07'47	-1.2m
	15722 Jul 25 04:22	0° Ω		min. Earth dist.	15727 Oct 20 03:58	14° B 10'08	0.68657 AU
	15722 Sep 06 09:55	0° M		direct	15727 Nov 30 12:11	4° B 17'58	
	15722 Oct 17 22:59	0° L			15728 Feb 18 22:09	0° II	
asc. node	15722 Oct 22 18:18	3° L 32'27			15728 Apr 11 08:54	0° E	
	15722 Nov 27 03:02	0° M			15728 May 27 01:55	0° Ω	
	15723 Jan 05 13:26	0° X		asc. node	15728 Jun 12 19:28	11° Ω 41'57	
	15723 Feb 14 10:02	0° Z			15728 Jul 08 01:38	0° M	
	15723 Mar 28 21:30	0° \approx			15728 Aug 16 15:33	0° L	
	15723 May 20 18:53	0° X		evening set	15728 Sep 07 21:43	17° L 23'53	
retrograde	15723 Jun 29 22:39	9° X 42'37			15728 Sep 23 20:17	0° M	
min. Earth dist.	15723 Jul 31 04:52	3° X 04'43	0.53840 AU		15728 Oct 31 14:54	0° X	
opposition	15723 Aug 07 15:23	0° X 15'06	0°32'29				
greatest brilliancy	15723 Aug 07 11:49	0° X 18'28	-2.0m	conjunction	15728 Nov 20 05:50	15° X 28'14	1°07'03
	15723 Aug 08 07:19	30° R \approx		minimum elong	15728 Nov 20 07:07	15° X 30'46	1°07'51
desc. node	15723 Aug 18 13:36	26° \approx 24'02			15728 Dec 08 21:33	0° Z	
direct	15723 Sep 12 08:47	22° \approx 22'49		max. Earth dist.	15729 Jan 12 22:26	26° Z 36'12	2.40252 AU
	15723 Oct 21 01:06	0° X			15729 Jan 17 12:16	0° \approx	
	15723 Dec 24 16:28	0° Y		morning rise	15729 Jan 28 05:47	7° \approx 53'30	
	15724 Feb 15 15:54	0° B			15729 Feb 28 03:21	0° X	
	15724 Apr 05 01:57	0° II		desc. node	15729 Apr 09 10:10	27° X 24'39	
	15724 May 21 23:05	0° E			15729 Apr 13 08:35	0° Y	
evening set	15724 May 26 01:06	2° E 41'19			15729 May 30 22:12	0° B	
max. Earth dist.	15724 Jun 13 15:13	15° E 04'54	2.56533 AU		15729 Jul 23 08:27	0° II	
	15724 Jul 05 11:40	0° Ω		retrograde	15729 Oct 13 19:28	26° II 30'40	
				opposition	15729 Nov 22 09:49	17° II 22'40	-4°51'16
conjunction	15724 Jul 12 14:41	4° Ω 56'47	-0°36'29	greatest brilliancy	15729 Nov 23 00:46	17° II 08'04	-1.3m
minimum elong	15724 Jul 12 16:12	4° Ω 59'26	0°37'12	min. Earth dist.	15729 Nov 26 03:18	15° II 55'27	0.66049 AU
	15724 Aug 16 19:27	0° M		direct	15730 Jan 02 22:34	7° II 20'17	
morning rise	15724 Sep 03 12:55	13° M 00'02			15730 Mar 15 15:04	0° E	
asc. node	15724 Sep 08 09:00	16° M 35'24		asc. node	15730 Apr 30 22:04	27° E 20'32	
	15724 Sep 26 05:39	0° L			15730 May 04 23:54	0° Ω	
	15724 Nov 04 06:20	0° M			15730 Jun 17 04:31	0° M	
	15724 Dec 12 14:18	0° X			15730 Jul 27 01:52	0° L	
	15725 Jan 20 03:33	0° Z			15730 Sep 03 09:09	0° M	
	15725 Mar 01 01:53	0° \approx			15730 Oct 11 07:48	0° X	
	15725 Apr 13 01:20	0° X			15730 Nov 18 22:02	0° Z	
	15725 Jun 02 06:21	0° Y		evening set	15730 Nov 24 21:21	4° Z 33'20	
desc. node	15725 Jul 05 18:25	14° Y 32'29			15730 Dec 28 23:02	0° \approx	
retrograde	15725 Aug 06 08:19	20° Y 13'56					
min. Earth dist.	15725 Sep 11 22:31	11° Y 49'15	0.64429 AU	conjunction	15731 Jan 25 20:00	20° \approx 04'29	0°18'52
opposition	15725 Sep 15 23:17	10° Y 13'37	-2°49'35	minimum elong	15731 Jan 25 21:12	20° \approx 06'36	0°19'28
greatest brilliancy	15725 Sep 15 12:04	10° Y 24'42	-1.4m		15731 Feb 08 23:17	0° X	
direct	15725 Oct 25 06:11	1° Y 05'37		desc. node	15731 Feb 24 23:06	11° X 01'33	
	15726 Jan 21 02:54	0° B		max. Earth dist.	15731 Mar 01 10:35	14° X 04'37	2.54222 AU
	15726 Mar 15 22:19	0° II		morning rise	15731 Mar 19 22:36	26° X 31'03	
	15726 May 03 01:54	0° E			15731 Mar 25 04:35	0° Y	
	15726 Jun 16 16:57	0° Ω			15731 May 10 16:09	0° B	
evening set	15726 Jul 08 14:11	15° Ω 27'17			15731 Jun 28 16:25	0° II	
max. Earth dist.	15726 Jul 22 20:43	25° Ω 47'11	2.43465 AU		15731 Aug 20 20:00	0° E	
asc. node	15726 Jul 26 22:51	28° Ω 46'59			15731 Oct 31 06:08	0° Ω	

retrograde	15731 Nov 24 10:45	3°♏09'05		15736 Dec 08 13:08	0°♐	
	15731 Dec 16 20:38	30°♐08		15737 Jan 25 15:36	0°♑	
opposition	15731 Dec 31 09:44	25°♐07'19 -3°33'16		15737 Mar 14 17:01	0°♒	
greatest brilliancy	15732 Jan 01 10:18	24°♐44'19 -1.8m	evening set	15737 Apr 07 05:37	14°♒46'06	
min. Earth dist.	15732 Jan 07 18:50	22°♐22'10 0.56695 AU		15737 May 01 07:39	0°♓	
direct	15732 Feb 09 10:07	15°♐32'32	max. Earth dist.	15737 May 10 12:38	5°♓51'48 2.67129 AU	
asc. node	15732 Mar 18 03:43	23°♐44'59				
	15732 Apr 01 07:39	0°♑	conjunction	15737 May 20 19:56	12°♓27'17 -1°12'56	
	15732 May 21 23:32	0°♒	minimum elong	15737 May 20 20:13	12°♓27'44 1°13'42	
	15732 Jul 02 22:15	0°♓		15737 Jun 16 23:27	0°♐	
	15732 Aug 11 04:28	0°♐	morning rise	15737 Jul 03 16:18	10°♐56'40	
	15732 Sep 18 20:57	0°♑		15737 Aug 01 07:18	0°♑	
	15732 Oct 28 06:04	0°♒		15737 Sep 14 02:42	0°♒	
	15732 Dec 08 03:28	0°♓		15737 Oct 26 09:13	0°♓	
desc. node	15733 Jan 11 15:05	24°♓16'32	asc. node	15737 Nov 08 12:08	9°♓30'57	
	15733 Jan 19 22:45	0°♐		15737 Dec 06 08:56	0°♐	
evening set	15733 Jan 20 09:22	0°♐18'11		15738 Jan 15 18:03	0°♑	
	15733 Mar 05 16:28	0°♑		15738 Feb 26 01:28	0°♒	
				15738 Apr 13 13:54	0°♓	
conjunction	15733 Mar 11 10:03	3°♑45'41 -0°34'10	retrograde	15738 Jun 12 04:17	19°♓59'15	
minimum elong	15733 Mar 11 08:49	3°♑43'41 0°34'08	min. Earth dist.	15738 Jul 11 00:49	14°♓13'45 0.48410 AU	
max. Earth dist.	15733 Mar 27 16:58	14°♑21'40 2.63964 AU	opposition	15738 Jul 19 06:51	11°♓14'36 2°29'46	
	15733 Apr 21 01:35	0°♒	greatest brilliancy	15738 Jul 18 13:21	11°♓30'29 -2.3m	
morning rise	15733 Apr 26 02:25	3°♒12'14	direct	15738 Aug 22 02:38	4°♓07'57	
	15733 Jun 07 17:18	0°♓	desc. node	15738 Sep 04 00:23	5°♓08'47	
	15733 Jul 26 12:09	0°♐		15738 Nov 09 13:49	0°♐	
	15733 Sep 14 23:39	0°♑		15739 Jan 03 14:17	0°♑	
	15733 Nov 09 03:43	0°♒		15739 Feb 23 10:14	0°♒	
retrograde	15734 Jan 20 14:31	22°♒27'52		15739 Apr 13 02:21	0°♓	
asc. node	15734 Feb 03 10:42	21°♒14'13	evening set	15739 May 12 11:00	18°♓42'32	
opposition	15734 Feb 21 18:15	16°♒25'44 1°11'58		15739 May 29 19:14	0°♐	
greatest brilliancy	15734 Feb 22 02:58	16°♒18'48 -2.6m	max. Earth dist.	15739 Jun 03 16:29	3°♐12'58 2.60519 AU	
min. Earth dist.	15734 Mar 01 21:23	13°♒50'42 0.42754 AU				
direct	15734 Mar 28 17:38	9°♒07'47	conjunction	15739 Jun 27 01:11	18°♐48'55 -0°52'49	
	15734 May 28 12:36	0°♓	minimum elong	15739 Jun 27 02:41	18°♐51'27 0°53'37	
	15734 Jul 13 15:24	0°♐		15739 Jul 13 10:54	0°♑	
	15734 Aug 24 12:22	0°♑	morning rise	15739 Aug 14 23:50	22°♑46'35	
	15734 Oct 05 04:04	0°♒		15739 Aug 25 01:55	0°♒	
	15734 Nov 16 22:45	0°♓	asc. node	15739 Sep 26 03:52	23°♒29'28	
desc. node	15734 Nov 29 13:11	8°♓38'16		15739 Oct 04 20:56	0°♓	
	15734 Dec 31 06:58	0°♐		15739 Nov 13 06:11	0°♐	
	15735 Feb 15 02:51	0°♑		15739 Dec 21 21:40	0°♑	
evening set	15735 Mar 03 07:56	10°♑26'07		15740 Jan 29 18:14	0°♒	
	15735 Apr 02 23:39	0°♒		15740 Mar 10 04:34	0°♓	
				15740 Apr 23 14:33	0°♐	
conjunction	15735 Apr 17 05:43	9°♒02'54 -1°05'42		15740 Jun 21 14:46	0°♑	
minimum elong	15735 Apr 17 04:43	9°♒01'19 1°06'10	desc. node	15740 Jul 22 07:44	5°♑54'56	
max. Earth dist.	15735 Apr 19 14:38	10°♒33'09 2.68316 AU	retrograde	15740 Jul 23 05:51	5°♑55'17	
	15735 May 20 07:15	0°♓		15740 Aug 21 23:55	30°♒08	
morning rise	15735 May 30 07:43	6°♓21'02	min. Earth dist.	15740 Aug 26 21:47	28°♐08'23 0.60978 AU	
	15735 Jul 06 12:49	0°♐	opposition	15740 Sep 01 09:23	25°♐59'20 -1°46'13	
	15735 Aug 22 08:28	0°♑	greatest brilliancy	15740 Aug 31 23:42	26°♐08'49 -1.6m	
	15735 Oct 07 16:22	0°♒	direct	15740 Oct 09 12:19	17°♐15'30	
	15735 Nov 22 18:07	0°♓		15740 Dec 01 08:48	0°♑	
asc. node	15735 Dec 22 15:30	19°♓15'07		15741 Jan 31 06:25	0°♒	
	15736 Jan 08 18:28	0°♐		15741 Mar 23 18:21	0°♓	
	15736 Mar 03 22:28	0°♑		15741 May 10 06:41	0°♐	
retrograde	15736 Apr 11 06:52	8°♑59'24	evening set	15741 Jun 20 03:31	27°♐27'35	
min. Earth dist.	15736 May 08 07:18	4°♑37'28 0.36858 AU		15741 Jun 23 19:34	0°♑	
opposition	15736 May 11 16:19	3°♑42'08 7°19'57	max. Earth dist.	15741 Jul 04 08:30	7°♑22'00 2.48961 AU	
greatest brilliancy	15736 May 10 21:06	3°♑55'17 -3.0m		15741 Aug 04 20:27	0°♒	
	15736 May 27 11:16	30°♒08				
direct	15736 Jun 09 18:48	28°♒50'05	conjunction	15741 Aug 11 22:08	5°♒12'13 -0°00'37	
	15736 Jun 23 01:37	0°♑	minimum elong	15741 Aug 11 22:13	5°♒12'24 0°01'03	
	15736 Sep 01 06:27	0°♒	behind sun begin	15741 Aug 10 22:24	4°♒28'24	
desc. node	15736 Oct 16 16:21	27°♒08'41	behind sun end	15741 Aug 12 22:03	5°♒56'26	
	15736 Oct 21 07:33	0°♓	asc. node	15741 Aug 12 18:59	5°♒50'45	

	15741 Sep 13 20:58	0°♄			15746 Sep 02 09:16	0°♄	
morning rise	15741 Oct 13 14:42	23°♄01'29		retrograde	15746 Nov 06 23:56	18°♄13'04	
	15741 Oct 22 12:17	0°♍		opposition	15746 Dec 15 04:54	9°♄40'41	-4°19'30
	15741 Nov 29 12:50	0°♊		greatest brilliancy	15746 Dec 16 04:07	9°♄18'28	-1.6m
greatest brilliancy	15741 Dec 18 02:12	14°♊36'41	1.2m	min. Earth dist.	15746 Dec 21 05:53	7°♄22'13	0.61109 AU
	15742 Jan 06 19:53	0°♋			15747 Jan 19 11:04	30°♋♈	
	15742 Feb 15 09:09	0°♌		direct	15747 Jan 25 02:36	29°♈47'20	
	15742 Mar 29 08:02	0°♍			15747 Jan 30 20:50	0°♄	
	15742 May 14 12:19	0°♎		asc. node	15747 Apr 04 16:25	22°♄36'46	
desc. node	15742 Jun 09 08:45	14°♎52'19			15747 Apr 17 15:26	0°♏	
	15742 Jul 10 16:01	0°♏			15747 Jun 02 11:38	0°♐	
retrograde	15742 Aug 27 09:37	11°♏22'04			15747 Jul 13 05:25	0°♑	
min. Earth dist.	15742 Oct 05 13:54	2°♏07'54	0.67818 AU		15747 Aug 20 22:31	0°♒	
opposition	15742 Oct 07 06:47	1°♏27'27	-4°00'29		15747 Sep 28 05:26	0°♊	
greatest brilliancy	15742 Oct 06 23:40	1°♏34'29	-1.3m		15747 Nov 06 05:02	0°♋	
	15742 Oct 10 23:46	30°♋♌			15747 Dec 16 16:31	0°♌	
direct	15742 Nov 16 21:43	21°♌52'00		evening set	15748 Jan 01 13:46	11°♌24'15	
	15742 Dec 27 19:52	0°♍			15748 Jan 28 02:41	0°♍	
	15743 Mar 01 08:38	0°♎		desc. node	15748 Jan 29 08:56	0°♍52'11	
	15743 Apr 20 11:37	0°♄					
	15743 Jun 04 15:05	0°♏		conjunction	15748 Feb 24 04:56	18°♍26'21	-0°15'47
asc. node	15743 Jun 30 11:50	18°♏17'15		minimum elong	15748 Feb 24 04:13	18°♍25'09	0°15'31
	15743 Jul 16 12:56	0°♐		behind sun begin	15748 Feb 23 23:42	18°♍17'34	
evening set	15743 Aug 12 07:45	20°♐07'05		behind sun end	15748 Feb 24 08:44	18°♍32'44	
	15743 Aug 25 04:28	0°♑			15748 Mar 12 13:45	0°♎	
	15743 Oct 02 10:59	0°♒		max. Earth dist.	15748 Mar 18 00:25	3°♎35'08	2.60773 AU
max. Earth dist.	15743 Oct 11 03:59	6°♒54'18	2.36158 AU	morning rise	15748 Apr 12 00:49	19°♎51'04	
					15748 Apr 27 21:34	0°♏	
conjunction	15743 Oct 20 02:58	14°♒01'14	1°03'10		15748 Jun 14 21:29	0°♈	
minimum elong	15743 Oct 19 23:57	13°♒55'13	1°03'40		15748 Aug 03 19:12	0°♄	
	15743 Nov 09 06:02	0°♊			15748 Sep 26 11:11	0°♏	
	15743 Dec 17 11:13	0°♋			15748 Dec 13 00:06	0°♐	
morning rise	15744 Jan 02 15:12	12°♋25'49		retrograde	15748 Dec 25 20:21	0°♐58'10	
	15744 Jan 25 23:15	0°♌			15749 Jan 07 06:21	30°♒♏	
	15744 Mar 07 12:43	0°♍		opposition	15749 Jan 29 05:25	24°♏01'23	-1°15'24
	15744 Apr 20 21:57	0°♎		greatest brilliancy	15749 Jan 29 17:09	23°♏51'11	-2.3m
desc. node	15744 Apr 26 03:16	3°♎22'43		min. Earth dist.	15749 Feb 06 22:43	21°♏00'14	0.48363 AU
	15744 Jun 08 10:22	0°♏		asc. node	15749 Feb 19 23:41	17°♏16'00	
	15744 Aug 05 12:38	0°♈		direct	15749 Mar 07 19:06	15°♏30'05	
retrograde	15744 Sep 29 16:53	13°♈51'28			15749 Apr 26 18:23	0°♐	
opposition	15744 Nov 08 22:13	4°♈26'01	-4°52'17		15749 Jun 14 14:34	0°♑	
greatest brilliancy	15744 Nov 09 06:26	4°♈17'57	-1.3m		15749 Jul 26 01:12	0°♒	
min. Earth dist.	15744 Nov 11 02:59	3°♈34'14	0.67888 AU		15749 Sep 04 00:02	0°♊	
	15744 Nov 20 15:05	30°♋♏			15749 Oct 14 09:36	0°♋	
direct	15744 Dec 20 12:15	24°♏26'02			15749 Nov 25 04:52	0°♌	
	15745 Jan 22 00:52	0°♈		desc. node	15749 Dec 16 03:26	14°♌34'10	
	15745 Mar 27 02:06	0°♄			15750 Jan 07 19:00	0°♍	
	15745 May 13 18:59	0°♏		evening set	15750 Feb 16 02:16	26°♍05'09	
asc. node	15745 May 17 11:08	2°♏29'02			15750 Feb 22 02:11	0°♎	
	15745 Jun 25 07:50	0°♐					
	15745 Aug 04 00:35	0°♑		conjunction	15750 Apr 03 10:36	26°♎00'36	-0°56'18
	15745 Sep 11 05:53	0°♒		minimum elong	15750 Apr 03 09:19	25°♎58'33	0°56'35
greatest brilliancy	15745 Oct 03 22:43	18°♒00'48	1.1m		15750 Apr 09 16:40	0°♏	
	15745 Oct 19 02:06	0°♊		max. Earth dist.	15750 Apr 10 20:27	0°♏44'15	2.67279 AU
evening set	15745 Oct 26 12:22	5°♊51'26		morning rise	15750 May 17 02:51	23°♏43'42	
	15745 Nov 26 12:19	0°♋			15750 May 27 01:25	0°♈	
					15750 Jul 13 17:34	0°♄	
conjunction	15746 Jan 03 01:25	28°♋19'27	0°42'09		15750 Aug 30 13:24	0°♏	
minimum elong	15746 Jan 03 04:13	28°♋24'38	0°42'53		15750 Oct 17 19:43	0°♐	
	15746 Jan 05 07:57	0°♌			15750 Dec 06 21:09	0°♑	
max. Earth dist.	15746 Feb 15 10:54	29°♌31'51	2.49053 AU	asc. node	15751 Jan 08 05:08	17°♑31'51	
	15746 Feb 16 03:00	0°♍			15751 Feb 06 00:30	0°♒	
morning rise	15746 Mar 02 08:24	9°♍51'21		retrograde	15751 Mar 10 18:17	6°♒13'15	
desc. node	15746 Mar 13 18:40	17°♍38'41		opposition	15751 Apr 09 04:19	1°♒21'14	6°03'59
	15746 Apr 01 05:50	0°♎		greatest brilliancy	15751 Apr 09 14:17	1°♒14'35	-3.0m
	15746 May 17 22:54	0°♏		min. Earth dist.	15751 Apr 11 15:07	0°♒42'00	0.36786 AU
	15746 Jul 07 00:36	0°♈			15751 Apr 14 06:57	30°♒♄	

direct	15751 May 09 03:22	26° Ω 12'54			15756 Aug 12 00:55	0° \mathbb{M}		
	15751 Jun 02 05:11	0° \mathbb{M}		asc. node	15756 Aug 29 13:03	12° \mathbb{M} 52'36		
	15751 Aug 01 13:23	0° \mathbb{M}		morning rise	15756 Sep 16 16:48	26° \mathbb{M} 29'12		
	15751 Sep 17 08:39	0° \mathbb{M}			15756 Sep 21 08:01	0° Ω		
	15751 Nov 01 23:10	0° \approx			15756 Oct 30 05:27	0° \mathbb{M}		
desc. node	15751 Nov 03 05:11	0° \approx 49'11			15756 Dec 07 10:39	0° \mathbb{M}		
	15751 Dec 18 02:50	0° \mathbb{M}			15757 Jan 14 21:01	0° \mathbb{M}		
	15752 Feb 03 02:07	0° \mathbb{M}			15757 Feb 23 14:18	0° \approx		
	15752 Mar 21 13:35	0° \mathbb{M}			15757 Apr 07 00:47	0° \mathbb{M}		
evening set	15752 Mar 24 14:10	1° \mathbb{M} 54'29			15757 May 25 01:55	0° \mathbb{M}		
max. Earth dist.	15752 May 02 01:04	26° \mathbb{M} 13'15	2.68262 AU	desc. node	15757 Jun 25 23:59	16° \mathbb{M} 07'45		
				retrograde	15757 Aug 14 02:13	28° \mathbb{M} 25'49		
conjunction	15752 May 07 07:24	29° \mathbb{M} 33'47	-1°13'10	min. Earth dist.	15757 Sep 20 15:51	19° \mathbb{M} 42'41	0.65908 AU	
minimum elong	15752 May 07 07:08	29° \mathbb{M} 33'21	1°13'51	opposition	15757 Sep 23 21:09	18° \mathbb{M} 26'14	-3°19'49	
	15752 May 07 23:54	0° \mathbb{M}		greatest brilliancy	15757 Sep 23 10:35	18° \mathbb{M} 36'40	-1.4m	
morning rise	15752 Jun 19 10:35	27° \mathbb{M} 10'36		direct	15757 Nov 02 17:14	9° \mathbb{M} 07'15		
	15752 Jun 23 19:26	0° \mathbb{M}			15758 Jan 13 05:32	0° \mathbb{M}		
	15752 Aug 08 14:33	0° Ω			15758 Mar 10 08:18	0° \mathbb{M}		
	15752 Sep 22 03:59	0° \mathbb{M}			15758 Apr 28 02:46	0° \mathbb{M}		
	15752 Nov 04 10:39	0° Ω			15758 Jun 11 22:19	0° Ω		
asc. node	15752 Nov 25 06:24	14° Ω 43'00		asc. node	15758 Jul 17 04:54	25° Ω 07'38		
	15752 Dec 16 16:45	0° \mathbb{M}		evening set	15758 Jul 20 03:21	27° Ω 16'30		
	15753 Jan 27 20:32	0° \mathbb{M}			15758 Jul 23 20:21	0° \mathbb{M}		
	15753 Mar 13 21:32	0° \mathbb{M}		max. Earth dist.	15758 Aug 05 21:18	9° \mathbb{M} 41'14	2.40421 AU	
retrograde	15753 May 22 14:19	26° \mathbb{M} 19'01			15758 Sep 01 14:44	0° Ω		
min. Earth dist.	15753 Jun 18 05:13	21° \mathbb{M} 26'52	0.42929 AU					
greatest brilliancy	15753 Jun 25 01:50	19° \mathbb{M} 11'05	-2.6m	conjunction	15758 Sep 19 20:14	14° Ω 09'03	0°42'34	
opposition	15753 Jun 26 08:35	18° \mathbb{M} 45'28	4°46'41	minimum elong	15758 Sep 19 16:48	14° Ω 02'20	0°42'39	
direct	15753 Jul 28 02:56	12° \mathbb{M} 34'56			15758 Oct 10 00:00	0° \mathbb{M}		
desc. node	15753 Sep 20 11:29	27° \mathbb{M} 08'28			15758 Nov 16 20:32	0° \mathbb{M}		
	15753 Sep 26 17:27	0° \approx		morning rise	15758 Dec 02 11:34	12° \mathbb{M} 20'38		
	15753 Nov 22 05:04	0° \mathbb{M}			15758 Dec 25 01:37	0° \mathbb{M}		
	15754 Jan 12 08:18	0° \mathbb{M}			15759 Feb 02 12:40	0° \approx		
	15754 Mar 02 18:59	0° \mathbb{M}			15759 Mar 16 02:58	0° \mathbb{M}		
	15754 Apr 19 22:35	0° \mathbb{M}			15759 Apr 29 21:15	0° \mathbb{M}		
evening set	15754 Apr 28 13:06	5° \mathbb{M} 27'31		desc. node	15759 May 13 21:39	8° \mathbb{M} 49'25		
max. Earth dist.	15754 May 24 18:48	22° \mathbb{M} 18'47	2.63763 AU		15759 Jun 19 01:19	0° \mathbb{M}		
	15754 Jun 05 13:46	0° \mathbb{M}			15759 Sep 01 06:56	0° \mathbb{M}		
				retrograde	15759 Sep 17 03:48	1° \mathbb{M} 26'37		
conjunction	15754 Jun 11 21:26	4° \mathbb{M} 09'06	-1°04'11		15759 Oct 02 04:32	30° \mathbb{M}		
minimum elong	15754 Jun 11 22:34	4° \mathbb{M} 10'57	1°05'01	opposition	15759 Oct 27 19:02	21° \mathbb{M} 47'18	-4°41'14	
	15754 Jul 20 10:44	0° Ω		greatest brilliancy	15759 Oct 27 20:33	21° \mathbb{M} 45'48	-1.2m	
morning rise	15754 Jul 28 02:56	5° Ω 15'32		min. Earth dist.	15759 Oct 28 10:54	21° \mathbb{M} 31'39	0.68673 AU	
	15754 Sep 01 11:19	0° \mathbb{M}		direct	15759 Dec 08 04:24	11° \mathbb{M} 54'07		
asc. node	15754 Oct 12 23:38	0° Ω 10'37			15760 Feb 10 16:13	0° \mathbb{M}		
	15754 Oct 12 17:54	0° Ω			15760 Apr 05 14:59	0° \mathbb{M}		
	15754 Nov 21 14:36	0° \mathbb{M}			15760 May 21 22:43	0° Ω		
	15754 Dec 30 16:54	0° \mathbb{M}		asc. node	15760 Jun 03 02:25	8° Ω 24'24		
	15755 Feb 08 01:41	0° \mathbb{M}			15760 Jul 03 03:08	0° \mathbb{M}		
	15755 Mar 21 11:02	0° \approx			15760 Aug 11 18:18	0° Ω		
	15755 May 08 04:55	0° \mathbb{M}			15760 Sep 18 23:09	0° \mathbb{M}		
retrograde	15755 Jul 09 03:42	20° \mathbb{M} 08'08		evening set	15760 Sep 25 00:14	4° \mathbb{M} 47'48		
desc. node	15755 Aug 08 18:59	13° \mathbb{M} 46'56			15760 Oct 26 17:57	0° \mathbb{M}		
min. Earth dist.	15755 Aug 10 16:10	13° \mathbb{M} 04'28	0.56592 AU		15760 Dec 04 01:08	0° \mathbb{M}		
opposition	15755 Aug 17 12:08	10° \mathbb{M} 26'20	-0°24'43					
greatest brilliancy	15755 Aug 17 09:18	10° \mathbb{M} 29'04	-1.8m	conjunction	15760 Dec 07 04:27	2° \mathbb{M} 25'15	1°01'13	
direct	15755 Sep 23 04:23	2° \mathbb{M} 13'20		minimum elong	15760 Dec 07 07:22	2° \mathbb{M} 30'52	1°02'02	
	15755 Dec 17 03:16	0° \mathbb{M}			15761 Jan 12 16:26	0° \approx		
	15756 Feb 10 02:16	0° \mathbb{M}		max. Earth dist.	15761 Jan 28 03:03	11° \approx 18'57	2.43399 AU	
	15756 Mar 31 03:54	0° \mathbb{M}		morning rise	15761 Feb 10 04:07	20° \approx 42'14		
	15756 May 17 06:14	0° \mathbb{M}			15761 Feb 23 07:39	0° \mathbb{M}		
evening set	15756 Jun 03 18:22	11° \mathbb{M} 35'45		desc. node	15761 Mar 30 12:26	24° \mathbb{M} 05'18		
max. Earth dist.	15756 Jun 20 12:37	22° \mathbb{M} 55'54	2.54009 AU		15761 Apr 08 10:12	0° \mathbb{M}		
	15756 Jun 30 19:12	0° Ω			15761 May 25 13:25	0° \mathbb{M}		
					15761 Jul 16 08:07	0° \mathbb{M}		
conjunction	15756 Jul 22 20:00	15° Ω 27'28	-0°24'46		15761 Sep 22 19:34	0° \mathbb{M}		
minimum elong	15756 Jul 22 21:15	15° Ω 29'42	0°25'23	retrograde	15761 Oct 22 05:57	4° \mathbb{M} 29'46		

	15761 Nov 18 04:09	30° $\mathbb{R}\mathbb{I}$		15766 Aug 17 00:45	0° \mathbb{X}
opposition	15761 Nov 30 10:18	25° \mathbb{I} 33'07 -4°44'24		15766 Sep 28 18:53	0° \mathbb{Z}
greatest brilliancy	15761 Dec 01 04:40	25° \mathbb{I} 15'18 -1.4m		15766 Nov 11 06:37	0° \approx
min. Earth dist.	15761 Dec 04 23:54	23° \mathbb{I} 46'56 0.64558 AU	desc. node	15766 Nov 19 17:12	5° \approx 43'13
direct	15762 Jan 10 20:05	15° \mathbb{I} 32'05		15766 Dec 26 02:55	0° \mathbb{H}
	15762 Mar 06 03:47	0° \mathbb{G}		15767 Feb 10 06:41	0° \mathbb{Y}
asc. node	15762 Apr 21 04:42	25° \mathbb{G} 14'38	evening set	15767 Mar 11 15:00	18° \mathbb{Y} 45'19
	15762 Apr 28 17:56	0° \mathbb{Q}		15767 Mar 29 07:52	0° \mathbb{B}
	15762 Jun 11 15:55	0° \mathbb{M}			
	15762 Jul 21 19:33	0° \mathbb{L}	conjunction	15767 Apr 24 22:55	16° \mathbb{B} 52'26 -1°09'35
	15762 Aug 29 05:50	0° \mathbb{M}	minimum elong	15767 Apr 24 22:09	16° \mathbb{B} 51'13 1°10'08
	15762 Oct 06 06:55	0° \mathbb{X}	max. Earth dist.	15767 Apr 24 13:17	16° \mathbb{B} 37'10 2.68543 AU
	15762 Nov 13 23:43	0° \mathbb{Z}		15767 May 15 15:51	0° \mathbb{I}
evening set	15762 Dec 09 13:16	19° \mathbb{Z} 15'16	morning rise	15767 Jun 06 21:46	14° \mathbb{I} 08'39
	15762 Dec 24 03:18	0° \approx		15767 Jul 01 17:10	0° \mathbb{G}
	15763 Feb 04 05:51	0° \mathbb{H}		15767 Aug 17 03:00	0° \mathbb{Q}
				15767 Oct 01 17:08	0° \mathbb{M}
conjunction	15763 Feb 06 03:05	1° \mathbb{H} 18'30 0°05'41		15767 Nov 15 12:54	0° \mathbb{L}
minimum elong	15763 Feb 06 03:25	1° \mathbb{H} 19'04 0°06'09	asc. node	15767 Dec 12 21:55	18° \mathbb{L} 26'54
behind sun begin	15763 Feb 05 06:18	0° \mathbb{H} 42'27		15767 Dec 30 03:20	0° \mathbb{M}
behind sun end	15763 Feb 07 00:32	1° \mathbb{H} 55'39		15768 Feb 14 20:55	0° \mathbb{X}
desc. node	15763 Feb 15 03:07	7° \mathbb{H} 31'08	retrograde	15768 Apr 27 15:04	27° \mathbb{X} 28'46
max. Earth dist.	15763 Mar 08 06:01	21° \mathbb{H} 50'41 2.56758 AU	min. Earth dist.	15768 May 23 12:06	23° \mathbb{X} 11'18 0.38379 AU
	15763 Mar 20 11:45	0° \mathbb{Y}	greatest brilliancy	15768 May 28 03:47	21° \mathbb{X} 50'29 -2.9m
morning rise	15763 Mar 29 00:40	5° \mathbb{Y} 37'37	opposition	15768 May 29 10:22	21° \mathbb{X} 28'15 6°50'26
	15763 May 05 20:27	0° \mathbb{B}	direct	15768 Jun 28 01:09	16° \mathbb{X} 16'00
	15763 Jun 23 09:14	0° \mathbb{I}		15768 Aug 18 08:01	0° \mathbb{Z}
	15763 Aug 14 00:13	0° \mathbb{G}	desc. node	15768 Oct 06 22:45	26° \mathbb{Z} 14'43
	15763 Oct 13 09:21	0° \mathbb{Q}		15768 Oct 13 10:04	0° \approx
retrograde	15763 Dec 05 06:38	12° \mathbb{Q} 51'28		15768 Dec 02 11:24	0° \mathbb{H}
opposition	15764 Jan 10 10:23	5° \mathbb{Q} 10'08 -2°53'45		15769 Jan 20 09:55	0° \mathbb{Y}
greatest brilliancy	15764 Jan 11 09:00	4° \mathbb{Q} 49'22 -1.9m		15769 Mar 09 21:26	0° \mathbb{B}
min. Earth dist.	15764 Jan 18 11:23	2° \mathbb{Q} 13'52 0.53869 AU	evening set	15769 Apr 14 23:15	22° \mathbb{B} 35'46
	15764 Jan 25 01:52	30° $\mathbb{R}\mathbb{G}$		15769 Apr 26 16:11	0° \mathbb{I}
direct	15764 Feb 18 18:26	25° \mathbb{G} 52'10	max. Earth dist.	15769 May 15 15:11	12° \mathbb{I} 05'27 2.66163 AU
asc. node	15764 Mar 08 12:17	28° \mathbb{G} 08'24			
	15764 Mar 15 10:10	0° \mathbb{Q}	conjunction	15769 May 28 16:28	20° \mathbb{I} 29'33 -1°11'00
	15764 May 14 04:38	0° \mathbb{M}	minimum elong	15769 May 28 17:04	20° \mathbb{I} 30'32 1°11'48
	15764 Jun 26 11:54	0° \mathbb{L}		15769 Jun 12 07:41	0° \mathbb{G}
	15764 Aug 05 06:42	0° \mathbb{M}	morning rise	15769 Jul 12 04:13	19° \mathbb{G} 42'36
	15764 Sep 13 07:01	0° \mathbb{X}		15769 Jul 27 11:41	0° \mathbb{Q}
	15764 Oct 22 22:47	0° \mathbb{Z}		15769 Sep 08 23:57	0° \mathbb{M}
	15764 Dec 03 02:11	0° \approx		15769 Oct 20 21:11	0° \mathbb{L}
desc. node	15765 Jan 01 19:29	20° \approx 52'02	asc. node	15769 Oct 29 17:26	6° \mathbb{L} 28'30
	15765 Jan 15 02:49	0° \mathbb{H}		15769 Nov 30 09:36	0° \mathbb{M}
evening set	15765 Jan 30 13:42	10° \mathbb{H} 27'48		15770 Jan 09 04:51	0° \mathbb{X}
	15765 Mar 01 00:03	0° \mathbb{Y}		15770 Feb 18 12:49	0° \mathbb{Z}
				15770 Apr 03 02:55	0° \approx
conjunction	15765 Mar 20 00:48	12° \mathbb{Y} 24'10 -0°43'20		15770 Jun 05 06:02	0° \mathbb{H}
minimum elong	15765 Mar 19 23:27	12° \mathbb{Y} 21'59 0°43'25	retrograde	15770 Jun 22 12:07	2° \mathbb{H} 03'29
max. Earth dist.	15765 Apr 02 00:07	20° \mathbb{Y} 46'17 2.65386 AU		15770 Jul 09 06:34	30° $\mathbb{R}\mathbb{M}$
	15765 Apr 16 10:05	0° \mathbb{B}	min. Earth dist.	15770 Jul 22 16:54	25° \approx 48'50 0.51463 AU
morning rise	15765 May 03 19:48	11° \mathbb{B} 03'30	opposition	15770 Jul 30 14:28	22° \approx 52'03 1°19'24
	15765 Jun 02 22:07	0° \mathbb{I}	greatest brilliancy	15770 Jul 30 05:21	23° \approx 00'34 -2.1m
	15765 Jul 21 05:25	0° \mathbb{G}	desc. node	15770 Aug 25 07:40	15° \approx 52'17
	15765 Sep 08 12:45	0° \mathbb{Q}	direct	15770 Sep 03 12:24	15° \approx 18'53
	15765 Oct 30 04:51	0° \mathbb{M}		15770 Oct 29 21:06	0° \mathbb{H}
	15766 Jan 01 02:05	0° \mathbb{L}		15770 Dec 28 04:30	0° \mathbb{Y}
asc. node	15766 Jan 24 19:44	6° \mathbb{L} 04'17		15771 Feb 18 04:08	0° \mathbb{B}
retrograde	15766 Feb 05 23:35	6° \mathbb{L} 59'00		15771 Apr 08 06:51	0° \mathbb{I}
opposition	15766 Mar 08 23:42	1° \mathbb{L} 27'53 2°57'15	evening set	15771 May 20 15:57	27° \mathbb{I} 04'47
greatest brilliancy	15766 Mar 09 16:29	1° \mathbb{L} 15'17 -2.8m		15771 May 25 03:04	0° \mathbb{G}
	15766 Mar 13 20:40	30° $\mathbb{R}\mathbb{M}$	max. Earth dist.	15771 Jun 09 19:32	10° \mathbb{G} 22'32 2.58419 AU
min. Earth dist.	15766 Mar 15 20:20	29° \mathbb{M} 24'53 0.40020 AU			
direct	15766 Apr 11 03:24	24° \mathbb{M} 59'13	conjunction	15771 Jul 06 05:40	28° \mathbb{G} 15'44 -0°44'01
	15766 May 08 11:37	0° \mathbb{L}	minimum elong	15771 Jul 06 07:14	28° \mathbb{G} 18'25 0°44'47
	15766 Jul 03 23:33	0° \mathbb{M}		15771 Jul 08 18:17	0° \mathbb{Q}

	15771 Aug 20 06:21	0°♍			15776 Jun 02 15:36	0°♎	
morning rise	15771 Aug 26 04:33	4°♍17'44			15776 Jul 27 10:33	0°♏	
asc. node	15771 Sep 16 08:52	19°♍52'42		retrograde	15776 Oct 07 15:08	21°♏31'46	
	15771 Sep 29 21:23	0°♎		opposition	15776 Nov 16 13:22	12°♏15'22	-4°53'14
	15771 Nov 08 02:13	0°♏		greatest brilliancy	15776 Nov 17 01:19	12°♏03'40	-1.3m
	15771 Dec 16 13:23	0°♐		min. Earth dist.	15776 Nov 19 14:27	11°♏03'57	0.67009 AU
	15772 Jan 24 05:00	0°♑		direct	15776 Dec 28 04:05	2°♏13'30	
	15772 Mar 04 06:15	0°♒			15777 Mar 20 00:28	0°♐	
	15772 Apr 16 15:15	0°♓		asc. node	15777 May 07 19:37	29°♐45'17	
	15772 Jun 07 22:25	0°♑			15777 May 08 04:30	0°♑	
desc. node	15772 Jul 12 13:03	12°♑32'03			15777 Jun 20 03:07	0°♒	
retrograde	15772 Jul 31 08:48	14°♑44'15			15777 Jul 29 23:14	0°♓	
min. Earth dist.	15772 Sep 05 03:24	6°♑36'00	0.63008 AU		15777 Sep 06 05:44	0°♏	
opposition	15772 Sep 09 20:08	4°♑44'58	-2°25'26		15777 Oct 14 02:53	0°♐	
greatest brilliancy	15772 Sep 09 08:56	4°♑56'00	-1.5m	evening set	15777 Nov 12 12:22	22°♐59'33	
	15772 Sep 22 20:08	30°♒♎			15777 Nov 21 14:32	0°♑	
direct	15772 Oct 18 15:55	25°♒46'57			15777 Dec 31 11:52	0°♒	
	15772 Nov 15 23:42	0°♑					
	15773 Jan 24 17:00	0°♎		conjunction	15778 Jan 16 09:44	11°♒35'07	0°28'55
	15773 Mar 18 11:54	0°♏		minimum elong	15778 Jan 16 11:39	11°♒38'34	0°29'34
	15773 May 05 09:59	0°♐			15778 Feb 11 08:25	0°♓	
	15773 Jun 19 01:34	0°♑		max. Earth dist.	15778 Feb 23 18:42	8°♓36'51	2.52003 AU
evening set	15773 Jun 30 07:26	7°♑51'50		desc. node	15778 Mar 03 20:37	14°♓08'45	
max. Earth dist.	15773 Jul 14 01:38	17°♑39'00	2.45960 AU	morning rise	15778 Mar 12 14:40	20°♓04'33	
	15773 Jul 31 01:53	0°♒			15778 Mar 27 11:04	0°♑	
asc. node	15773 Aug 02 22:40	2°♒06'22			15778 May 12 23:19	0°♎	
					15778 Jul 01 07:34	0°♏	
conjunction	15773 Aug 24 18:52	18°♒23'58	0°15'03		15778 Aug 24 19:01	0°♐	
minimum elong	15773 Aug 24 17:45	18°♒21'52	0°14'47	retrograde	15778 Nov 16 14:42	27°♐01'01	
behind sun begin	15773 Aug 24 07:12	18°♒01'57		opposition	15778 Dec 24 04:34	18°♐44'35	-3°55'33
behind sun end	15773 Aug 25 04:18	18°♒41'47		greatest brilliancy	15778 Dec 25 04:59	18°♐21'29	-1.7m
	15773 Sep 09 00:47	0°♓		min. Earth dist.	15778 Dec 31 00:19	16°♐10'11	0.58790 AU
	15773 Oct 17 14:11	0°♏		direct	15779 Feb 02 16:30	8°♐59'57	
morning rise	15773 Oct 30 18:52	10°♏24'30		asc. node	15779 Mar 26 00:45	22°♐55'49	
	15773 Nov 24 13:12	0°♐			15779 Apr 08 22:57	0°♑	
	15774 Jan 01 19:04	0°♑			15779 May 27 02:17	0°♒	
	15774 Feb 10 06:17	0°♒			15779 Jul 07 11:44	0°♓	
	15774 Mar 23 23:46	0°♓			15779 Aug 15 11:44	0°♏	
	15774 May 08 10:17	0°♑			15779 Sep 22 23:09	0°♐	
desc. node	15774 May 30 13:30	13°♑18'28			15779 Nov 01 02:55	0°♑	
	15774 Jun 30 17:59	0°♎			15779 Dec 11 18:21	0°♒	
retrograde	15774 Sep 03 21:42	19°♎02'47		evening set	15780 Jan 13 03:10	22°♒56'18	
opposition	15774 Oct 14 18:30	9°♎12'37	-4°19'02	desc. node	15780 Jan 19 11:51	27°♒21'02	
min. Earth dist.	15774 Oct 13 21:49	9°♎33'04	0.68412 AU		15780 Jan 23 08:04	0°♓	
greatest brilliancy	15774 Oct 14 14:06	9°♎16'59	-1.2m				
	15774 Nov 15 16:31	30°♒♑		conjunction	15780 Mar 04 14:56	27°♓50'28	-0°26'54
direct	15774 Nov 24 17:53	29°♑29'44		minimum elong	15780 Mar 04 13:52	27°♓48'41	0°26'46
	15774 Dec 04 02:10	0°♎			15780 Mar 07 21:23	0°♑	
	15775 Feb 22 16:52	0°♏		max. Earth dist.	15780 Mar 23 19:18	10°♑25'36	2.62638 AU
	15775 Apr 15 03:20	0°♐		morning rise	15780 Apr 20 03:50	28°♑03'41	
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asc. node	15775 Jun 20 17:50	14°♑47'55			15780 Jun 09 22:50	0°♏	
	15775 Jul 11 16:01	0°♒			15780 Jul 29 03:29	0°♐	
	15775 Aug 20 07:34	0°♓			15780 Sep 18 17:45	0°♑	
evening set	15775 Aug 27 07:23	5°♓25'33			15780 Nov 17 05:30	0°♒	
	15775 Sep 27 13:25	0°♏		retrograde	15781 Jan 08 18:55	13°♒04'42	
	15775 Nov 04 08:09	0°♐		opposition	15781 Feb 10 22:30	6°♒37'16	0°02'18
				asc. node	15781 Feb 10 07:45	6°♒49'30	
conjunction	15775 Nov 07 06:35	2°♐19'28	1°07'50	greatest brilliancy	15782 Jun 19 21:33	18°♒01'59	1.8m
minimum elong	15775 Nov 07 05:56	2°♐18'11	1°08'33	min. Earth dist.	15781 Feb 19 12:47	3°♒45'59	0.45213 AU
	15775 Dec 12 13:39	0°♑			15781 Mar 05 18:10	30°♒♑	
max. Earth dist.	15775 Dec 26 16:10	10°♑51'10	2.37872 AU	direct	15781 Mar 19 04:44	28°♑43'01	
morning rise	15776 Jan 18 05:19	27°♑52'11			15781 Apr 01 16:47	0°♒	
	15776 Jan 21 02:04	0°♒			15781 Jun 05 08:45	0°♓	
	15776 Mar 02 14:55	0°♓			15781 Jul 18 19:26	0°♏	
	15776 Apr 15 19:45	0°♑			15781 Aug 28 15:29	0°♐	
desc. node	15776 Apr 16 07:18	0°♑18'55			15781 Oct 08 15:10	0°♑	






































































































































	15781 Nov 19 21:13	0°♊	asc. node	15786 Oct 03 03:19	26°♎41'06	
desc. node	15781 Dec 06 08:48	11°♊23'35		15786 Oct 07 14:16	0°♊	
	15782 Jan 02 19:38	0°♋		15786 Nov 16 04:54	0°♌	
	15782 Feb 17 08:28	0°♌		15786 Dec 25 00:52	0°♍	
evening set	15782 Feb 24 21:35	4°♌53'19		15787 Feb 02 01:44	0°♎	
	15782 Apr 05 01:40	0°♏		15787 Mar 14 18:45	0°♊	
				15787 Apr 29 02:55	0°♋	
conjunction	15782 Apr 11 08:55	4°♏00'37 -1°02'17	retrograde	15787 Jul 17 20:53	29°♋49'18	
minimum elong	15782 Apr 11 07:46	3°♏58'47 1°02'40	desc. node	15787 Jul 30 02:25	28°♋46'09	
max. Earth dist.	15782 Apr 15 21:59	6°♏53'55 2.67955 AU	min. Earth dist.	15787 Aug 20 14:35	22°♋21'15 0.59123 AU	
	15782 May 22 09:14	0°♐	opposition	15787 Aug 26 17:18	19°♋58'23 -1°14'33	
morning rise	15782 May 24 15:50	1°♐26'18	greatest brilliancy	15787 Aug 26 09:40	20°♋05'49 -1.7m	
	15782 Jul 08 19:12	0°♑	direct	15787 Oct 03 06:14	11°♋27'22	
	15782 Aug 25 00:56	0°♒		15787 Dec 08 08:01	0°♌	
	15782 Oct 11 02:54	0°♎		15788 Feb 04 06:13	0°♏	
	15782 Nov 27 14:00	0°♊		15788 Mar 26 03:25	0°♐	
asc. node	15782 Dec 29 13:21	19°♊30'06		15788 May 12 12:28	0°♑	
	15783 Jan 16 20:47	0°♌	evening set	15788 Jun 12 20:12	20°♑53'19	
retrograde	15783 Mar 29 09:23	24°♌55'13		15788 Jun 26 02:46	0°♒	
opposition	15783 Apr 27 23:51	19°♌59'17 7°08'26	max. Earth dist.	15788 Jun 28 00:26	1°♒19'10 2.51290 AU	
min. Earth dist.	15783 Apr 27 04:15	20°♌12'17 0.36364 AU				
greatest brilliancy	15783 Apr 27 18:19	20°♌02'57 -3.0m	conjunction	15788 Aug 02 19:03	26°♒43'46 -0°11'30	
direct	15783 May 27 04:10	15°♌09'50	minimum elong	15788 Aug 02 19:45	26°♒45'03 0°12'00	
	15783 Jul 17 23:10	0°♍	behind sun begin	15788 Aug 02 04:08	26°♒16'42	
	15783 Sep 08 18:11	0°♎	behind sun end	15788 Aug 03 11:23	27°♒13'24	
desc. node	15783 Oct 24 11:01	28°♎46'55		15788 Aug 07 06:51	0°♏	
	15783 Oct 26 08:55	0°♊	asc. node	15788 Aug 19 18:40	9°♏11'11	
	15783 Dec 12 12:47	0°♋		15788 Sep 16 11:08	0°♊	
	15784 Jan 29 01:38	0°♌	morning rise	15788 Oct 01 05:31	11°♊19'40	
	15784 Mar 16 20:20	0°♏		15788 Oct 25 05:32	0°♌	
evening set	15784 Apr 01 09:49	9°♏47'21		15788 Dec 02 07:57	0°♍	
	15784 May 03 08:58	0°♐		15789 Jan 09 15:49	0°♎	
max. Earth dist.	15784 May 07 00:41	2°♐19'24 2.67737 AU		15789 Feb 18 05:24	0°♊	
				15789 Apr 01 06:29	0°♋	
conjunction	15784 May 14 24:00	7°♐24'10 -1°13'34		15789 May 17 23:08	0°♌	
minimum elong	15784 May 15 00:02	7°♐24'14 1°14'18	desc. node	15789 Jun 16 04:32	16°♌08'58	
	15784 Jun 19 02:44	0°♑		15789 Jul 18 09:18	0°♏	
morning rise	15784 Jun 27 11:06	5°♑26'04	retrograde	15789 Aug 21 17:01	6°♏24'21	
	15784 Aug 03 16:08	0°♒		15789 Sep 22 11:05	30°♏♌	
	15784 Sep 16 19:50	0°♎	min. Earth dist.	15789 Sep 29 05:20	27°♌23'32 0.67103 AU	
	15784 Oct 29 13:07	0°♊	opposition	15789 Oct 01 14:29	26°♌27'01 -3°45'22	
asc. node	15784 Nov 15 11:22	12°♊09'02	greatest brilliancy	15789 Oct 01 05:31	26°♌35'53 -1.3m	
	15784 Dec 10 01:08	0°♌	direct	15789 Nov 10 22:10	16°♌58'19	
	15785 Jan 20 01:38	0°♍		15790 Jan 03 15:39	0°♏	
	15785 Mar 03 11:24	0°♎		15790 Mar 04 10:36	0°♐	
	15785 Apr 23 08:56	0°♊		15790 Apr 23 00:29	0°♑	
retrograde	15785 Jun 03 14:15	10°♊42'02		15790 Jun 07 02:10	0°♒	
min. Earth dist.	15785 Jul 01 09:59	5°♊21'03 0.45905 AU	asc. node	15790 Jul 07 11:10	21°♒31'33	
opposition	15785 Jul 09 18:43	2°♊25'31 3°27'22		15790 Jul 19 01:23	0°♎	
greatest brilliancy	15785 Jul 08 18:48	2°♊46'31 -2.4m	evening set	15790 Aug 01 16:21	10°♎07'32	
	15785 Jul 17 00:46	30°♏♎		15790 Aug 27 19:12	0°♊	
direct	15785 Aug 11 16:05	25°♎42'58	max. Earth dist.	15790 Aug 27 18:59	29°♎59'36 2.37658 AU	
	15785 Sep 08 03:18	0°♊		15790 Oct 05 03:23	0°♌	
desc. node	15785 Sep 10 18:28	0°♊46'54				
	15785 Nov 14 12:12	0°♋	conjunction	15790 Oct 06 08:38	0°♌57'51 0°55'49	
	15786 Jan 06 13:55	0°♌	minimum elong	15790 Oct 06 04:50	0°♌50'20 0°56'09	
	15786 Feb 25 18:34	0°♏		15790 Nov 11 22:54	0°♍	
	15786 Apr 15 05:29	0°♐	morning rise	15790 Dec 20 10:21	0°♎13'34	
evening set	15786 May 06 10:04	13°♐27'58		15790 Dec 20 03:21	0°♎	
max. Earth dist.	15786 May 30 08:07	28°♐57'21 2.62062 AU		15791 Jan 28 13:43	0°♊	
	15786 May 31 22:22	0°♑		15791 Mar 11 01:37	0°♋	
				15791 Apr 24 12:09	0°♌	
conjunction	15786 Jun 20 09:10	12°♑51'53 -0°58'12	desc. node	15791 May 03 23:57	6°♌05'32	
minimum elong	15786 Jun 20 10:32	12°♑54'10 0°59'01		15791 Jun 12 11:47	0°♏	
	15786 Jul 15 17:22	0°♒		15791 Aug 12 21:20	0°♐	
morning rise	15786 Aug 06 23:44	15°♒25'36	retrograde	15791 Sep 24 19:39	9°♐02'26	
	15786 Aug 27 13:24	0°♎		15791 Nov 03 00:25	30°♏♏	

opposition	15791 Nov 04 06:39	29° ♄ 30'19	-4°49'11			15796 Nov 27 23:27	0° ♁	
greatest brilliancy	15791 Nov 04 11:51	29° ♄ 25'12	-1.2m	desc. node		15796 Dec 22 23:18	17° ♁ 29'15	
min. Earth dist.	15791 Nov 05 19:05	28° ♄ 54'31	0.68377 AU			15797 Jan 10 05:53	0° ♄	
direct	15791 Dec 15 19:59	19° ♄ 32'51		evening set		15797 Feb 09 03:37	20° ♄ 01'49	
	15792 Jan 31 07:01	0° ♄				15797 Feb 24 07:24	0° ♄	
	15792 Mar 30 12:09	0° ♄						
	15792 May 16 15:40	0° ♄		conjunction		15797 Mar 28 08:12	20° ♄ 45'11	-0°51'23
asc. node	15792 May 24 08:59	5° ♄ 16'20		minimum elong		15797 Mar 28 06:51	20° ♄ 43'01	0°51'34
	15792 Jun 28 02:02	0° ♄		max. Earth dist.		15797 Apr 07 04:52	27° ♄ 04'16	2.66534 AU
	15792 Aug 06 19:06	0° ♄				15797 Apr 11 18:58	0° ♄	
	15792 Sep 14 00:37	0° ♄		morning rise		15797 May 11 10:50	18° ♄ 49'23	
evening set	15792 Oct 12 17:25	22° ♄ 47'02				15797 May 29 04:25	0° ♄	
	15792 Oct 21 20:00	0° ♄				15797 Jul 16 02:31	0° ♄	
	15792 Nov 29 04:13	0° ♄				15797 Sep 02 12:02	0° ♄	
conjunction	15792 Dec 22 20:22	18° ♄ 03'00	0°51'18			15797 Oct 21 23:18	0° ♄	
minimum elong	15792 Dec 22 23:36	18° ♄ 09'04	0°52'06	asc. node		15797 Dec 14 06:43	0° ♄	
	15793 Jan 07 20:47	0° ♄		retrograde		15798 Jan 15 02:17	14° ♄ 36'12	
max. Earth dist.	15793 Feb 08 04:17	22° ♄ 41'57	2.46560 AU	opposition		15798 Feb 23 23:10	23° ♄ 15'03	
	15793 Feb 18 12:31	0° ♄		greatest brilliancy		15798 Mar 25 22:18	18° ♄ 10'40	4°48'26
morning rise	15793 Feb 21 23:03	2° ♄ 24'20		min. Earth dist.		15798 Mar 26 15:26	17° ♄ 58'42	-2.9m
desc. node	15793 Mar 20 15:47	20° ♄ 43'02		direct		15798 Mar 30 16:50	16° ♄ 51'01	0.37894 AU
	15793 Apr 03 13:25	0° ♄				15798 Apr 26 03:47	12° ♄ 31'14	
	15793 Apr 20 08:26	0° ♄				15798 Jun 20 11:47	0° ♄	
	15793 May 20 08:26	0° ♄				15798 Aug 08 09:21	0° ♄	
	15793 Jul 09 22:50	0° ♄				15798 Sep 21 21:58	0° ♄	
	15793 Sep 08 03:14	0° ♄				15798 Nov 05 09:42	0° ♄	
retrograde	15793 Oct 31 00:06	12° ♄ 42'09		desc. node		15798 Nov 09 23:44	3° ♄ 03'34	
opposition	15793 Dec 08 16:50	3° ♄ 58'06	-4°31'59			15798 Dec 20 20:55	0° ♄	
greatest brilliancy	15793 Dec 09 14:06	3° ♄ 37'37	-1.5m			15799 Feb 05 10:12	0° ♄	
min. Earth dist.	15793 Dec 14 02:38	1° ♄ 53'21	0.62782 AU	evening set		15799 Mar 19 15:42	26° ♄ 49'04	
	15793 Dec 19 05:00	30° ♄				15799 Mar 24 16:27	0° ♄	
direct	15794 Jan 18 21:39	24° ♄ 00'13		max. Earth dist.		15799 Apr 29 12:06	22° ♄ 39'58	2.68494 AU
	15794 Feb 20 15:53	0° ♄						
asc. node	15794 Apr 11 13:20	23° ♄ 46'20		conjunction		15799 May 02 13:53	24° ♄ 36'55	-1°12'12
	15794 Apr 21 23:06	0° ♄		minimum elong		15799 May 02 13:23	24° ♄ 36'08	1°12'49
	15794 Jun 05 22:06	0° ♄				15799 May 11 01:30	0° ♄	
	15794 Jul 16 10:02	0° ♄		morning rise		15799 Jun 14 13:42	22° ♄ 00'52	
	15794 Aug 24 00:10	0° ♄				15799 Jun 26 23:50	0° ♄	
	15794 Oct 01 03:54	0° ♄				15799 Aug 12 01:33	0° ♄	
	15794 Nov 08 23:33	0° ♄				15799 Sep 26 01:35	0° ♄	
	15794 Dec 19 06:18	0° ♄				15799 Nov 08 23:16	0° ♄	
evening set	15794 Dec 22 23:43	2° ♄ 42'27		asc. node		15799 Dec 03 04:35	16° ♄ 49'14	
	15795 Jan 30 11:37	0° ♄				15799 Dec 22 01:50	0° ♄	
desc. node	15795 Feb 05 06:19	3° ♄ 59'36				15800 Feb 03 14:56	0° ♄	
						15800 Mar 24 17:20	0° ♄	
conjunction	15795 Feb 16 15:30	11° ♄ 47'10	-0°07'06	retrograde		15800 May 13 08:19	14° ♄ 50'50	
minimum elong	15795 Feb 16 15:10	11° ♄ 46'36	0°06'46	min. Earth dist.		15800 Jun 08 08:06	10° ♄ 18'06	0.40695 AU
behind sun begin	15795 Feb 15 19:19	11° ♄ 12'51		greatest brilliancy		15800 Jun 14 10:23	8° ♄ 23'59	-2.7m
behind sun end	15795 Feb 17 11:00	12° ♄ 20'19		opposition		15800 Jun 15 19:36	7° ♄ 57'48	5°46'21
max. Earth dist.	15795 Mar 14 14:21	29° ♄ 12'30	2.59079 AU	direct		15800 Jul 16 14:40	2° ♄ 14'24	
	15795 Mar 15 19:02	0° ♄		desc. node		15800 Sep 28 05:43	26° ♄ 27'35	
morning rise	15795 Apr 06 17:10	14° ♄ 21'45				15800 Oct 05 00:07	0° ♄	
	15795 May 01 01:46	0° ♄				15800 Nov 26 23:43	0° ♄	
	15795 Jun 18 05:33	0° ♄				15801 Jan 16 01:11	0° ♄	
	15795 Aug 07 17:42	0° ♄				15801 Mar 06 01:03	0° ♄	
	15795 Oct 02 10:51	0° ♄		evening set		15801 Apr 23 16:28	0° ♄ 24'40	
retrograde	15795 Dec 17 00:23	23° ♄ 16'05				15801 Apr 23 00:53	0° ♄	
opposition	15796 Jan 21 05:56	15° ♄ 58'06	-2°02'15	max. Earth dist.		15801 May 21 20:29	18° ♄ 24'33	2.64944 AU
greatest brilliancy	15796 Jan 21 23:41	15° ♄ 42'15	-2.1m					
min. Earth dist.	15796 Jan 29 18:22	12° ♄ 56'12	0.50885 AU	conjunction		15801 Jun 06 16:15	28° ♄ 40'29	-1°07'37
asc. node	15796 Feb 27 20:42	7° ♄ 03'06		minimum elong		15801 Jun 06 17:10	28° ♄ 41'58	1°08'26
direct	15796 Feb 28 17:19	7° ♄ 02'47				15801 Jun 08 16:56	0° ♄	
	15796 May 04 18:59	0° ♄		morning rise		15801 Jul 22 00:44	28° ♄ 50'12	
	15796 Jun 19 11:54	0° ♄				15801 Jul 23 17:52	0° ♄	
	15796 Jul 30 02:10	0° ♄				15801 Sep 05 00:28	0° ♄	
	15796 Sep 07 13:06	0° ♄				15801 Oct 16 14:04	0° ♄	
	15796 Oct 17 12:58	0° ♄		asc. node		15801 Oct 20 23:08	3° ♄ 13'32	

	15801 Nov 25 17:50	0°♌			15807 May 26 14:15	0°♏		
	15802 Jan 04 02:39	0°♊		asc. node	15807 Jun 12 00:45	11°♏26'06		
	15802 Feb 12 19:09	0°♈			15807 Jul 07 18:11	0°♎		
	15802 Mar 26 19:40	0°♐			15807 Aug 16 10:26	0°♑		
	15802 May 16 10:02	0°♋		evening set	15807 Sep 13 12:22	21°♑57'51		
retrograde	15802 Jul 03 04:46	13°♋09'32			15807 Sep 23 16:10	0°♌		
min. Earth dist.	15802 Aug 03 16:32	6°♋27'31	0.54379 AU		15807 Oct 31 10:41	0°♊		
opposition	15802 Aug 11 01:44	3°♋38'55	0°16'09					
greatest brilliancy	15802 Aug 10 23:59	3°♋40'34	-2.0m	conjunction	15807 Nov 25 23:56	20°♊07'48	1°06'12	
desc. node	15802 Aug 16 13:08	1°♋37'09		minimum elong	15807 Nov 26 01:46	20°♊11'24	1°06'59	
	15802 Aug 21 07:15	30°♋			15807 Dec 08 16:20	0°♈		
direct	15802 Sep 16 00:39	25°♋42'27			15808 Jan 17 05:14	0°♐		
	15802 Oct 14 03:26	0°♋		max. Earth dist.	15808 Jan 19 00:04	1°♐19'23	2.40832 AU	
	15802 Dec 22 04:30	0°♑		morning rise	15808 Feb 02 06:01	11°♐46'46		
	15803 Feb 13 17:59	0°♉			15808 Feb 27 17:45	0°♋		
	15803 Apr 04 09:59	0°♊		desc. node	15808 Apr 07 09:42	27°♋05'25		
	15803 May 21 10:43	0°♌			15808 Apr 11 19:20	0°♑		
evening set	15803 May 30 02:53	5°♌42'35			15808 May 29 02:32	0°♉		
max. Earth dist.	15803 Jun 17 06:49	17°♌51'04	2.56076 AU		15808 Jul 20 19:02	0°♊		
	15803 Jul 05 01:51	0°♏		retrograde	15808 Oct 16 19:58	29°♊23'07		
conjunction	15803 Jul 16 22:32	8°♏14'31	-0°33'34	opposition	15808 Nov 25 09:33	20°♊17'06	-4°49'43	
minimum elong	15803 Jul 17 00:00	8°♏17'05	0°34'15	greatest brilliancy	15808 Nov 26 01:10	20°♊01'54	-1.3m	
	15803 Aug 16 11:30	0°♎		min. Earth dist.	15808 Nov 29 07:09	18°♊46'06	0.65781 AU	
asc. node	15803 Sep 07 12:59	16°♎11'34		direct	15809 Jan 05 22:59	10°♊15'01		
morning rise	15803 Sep 08 09:23	16°♎49'28		asc. node	15809 Mar 12 18:09	0°♌		
	15803 Sep 25 22:59	0°♑			15809 Apr 29 02:06	27°♌20'58		
	15803 Nov 04 00:18	0°♌			15809 May 03 04:50	0°♏		
	15803 Dec 12 08:06	0°♊			15809 Jun 15 17:33	0°♎		
	15804 Jan 19 20:02	0°♈			15809 Jul 25 18:41	0°♑		
	15804 Feb 28 15:05	0°♐			15809 Sep 02 03:44	0°♌		
	15804 Apr 11 07:05	0°♋			15809 Oct 10 02:47	0°♊		
	15804 May 30 11:40	0°♑		evening set	15809 Nov 17 16:26	0°♈		
desc. node	15804 Jul 03 18:28	15°♑47'43			15809 Nov 29 05:26	8°♈47'27		
retrograde	15804 Aug 09 06:31	23°♑11'02			15809 Dec 27 16:03	0°♐		
min. Earth dist.	15804 Sep 15 01:43	14°♑43'04	0.64733 AU	conjunction	15810 Jan 29 11:32	23°♐36'15	0°15'27	
opposition	15804 Sep 18 23:02	13°♑10'58	-2°59'19	minimum elong	15810 Jan 29 12:31	23°♐37'58	0°15'59	
greatest brilliancy	15804 Sep 18 11:41	13°♑22'11	-1.4m		15810 Feb 07 14:22	0°♋		
direct	15804 Oct 28 09:14	4°♑00'39		desc. node	15810 Feb 23 00:14	10°♋39'05		
	15805 Jan 18 10:26	0°♉		max. Earth dist.	15810 Mar 04 02:33	16°♋51'01	2.54714 AU	
	15805 Mar 14 00:57	0°♊		morning rise	15810 Mar 23 03:14	29°♋36'40		
	15805 May 01 11:54	0°♌			15810 Mar 23 17:19	0°♑		
	15805 Jun 15 07:12	0°♏			15810 May 09 01:48	0°♉		
evening set	15805 Jul 12 03:46	18°♏58'34			15810 Jun 26 20:44	0°♊		
asc. node	15805 Jul 25 04:17	28°♏26'03			15810 Aug 18 10:26	0°♌		
max. Earth dist.	15805 Jul 26 10:48	29°♏22'00	2.42880 AU		15810 Oct 23 15:46	0°♏		
	15805 Jul 27 07:30	0°♎		retrograde	15810 Nov 27 20:35	6°♏17'12		
	15805 Sep 05 04:44	0°♑			15810 Dec 30 02:34	30°♎		
conjunction	15805 Sep 08 21:07	2°♑49'59	0°31'00	opposition	15811 Jan 03 17:01	28°♑19'12	-3°23'22	
minimum elong	15805 Sep 08 18:37	2°♑45'09	0°30'55	greatest brilliancy	15811 Jan 04 17:10	27°♑56'43	-1.8m	
	15805 Oct 13 16:21	0°♌		min. Earth dist.	15811 Jan 11 06:24	25°♑30'53	0.56158 AU	
morning rise	15805 Nov 19 00:03	28°♌45'05		direct	15811 Feb 12 15:39	18°♑47'14		
	15805 Nov 20 13:53	0°♊		asc. node	15811 Mar 17 08:54	25°♑09'43		
	15805 Dec 28 18:41	0°♈			15811 Mar 29 09:11	0°♏		
	15806 Feb 06 04:41	0°♐			15811 May 21 00:06	0°♎		
	15806 Mar 19 18:18	0°♋			15811 Jul 02 08:42	0°♑		
	15806 May 03 16:13	0°♑			15811 Aug 10 18:34	0°♌		
desc. node	15806 May 21 17:52	11°♑12'47			15811 Sep 18 12:19	0°♊		
	15806 Jun 23 17:34	0°♉			15811 Oct 27 21:32	0°♈		
retrograde	15806 Sep 12 10:33	26°♉40'21		desc. node	15811 Dec 07 18:21	0°♐		
opposition	15806 Oct 23 05:24	16°♉55'50	-4°33'34		15812 Jan 10 16:18	23°♐54'17		
greatest brilliancy	15806 Oct 23 04:09	16°♉57'04	-1.2m	evening set	15812 Jan 19 12:38	0°♋		
min. Earth dist.	15806 Oct 23 05:02	16°♉56'11	0.68688 AU		15812 Jan 24 20:39	3°♋38'53		
direct	15806 Dec 03 11:24	7°♉06'46			15812 Mar 04 05:07	0°♑		
	15807 Feb 16 04:37	0°♊		conjunction	15812 Mar 14 12:45	6°♑46'00	-0°36'54	
	15807 Apr 10 13:19	0°♌		minimum elong	15812 Mar 14 11:28	6°♑43'55	0°36'53	

max. Earth dist.	15812 Mar 30 06:25	16° Υ 59'14	2.64262 AU	direct	15817 Aug 26 00:01	7° \approx 40'43	
	15812 Apr 19 12:48	0° B		desc. node	15817 Sep 02 01:57	7° \approx 59'23	
morning rise	15812 Apr 29 00:16	6° B 01'55			15817 Nov 06 10:52	0° H	
	15812 Jun 06 02:33	0° II			15818 Jan 01 11:46	0° Υ	
	15812 Jul 24 17:55	0° E			15818 Feb 21 15:20	0° B	
	15812 Sep 12 21:18	0° Ω			15818 Apr 11 11:29	0° II	
	15812 Nov 05 22:10	0° M		evening set	15818 May 15 11:02	21° II 38'28	
retrograde	15813 Jan 24 23:52	26° M 24'04			15818 May 28 07:15	0° E	
asc. node	15813 Feb 01 16:58	26° M 00'59		max. Earth dist.	15818 Jun 06 04:24	5° E 50'43	2.60153 AU
opposition	15813 Feb 25 22:26	20° M 27'40	1°36'07				
greatest brilliancy	15813 Feb 26 09:38	20° M 18'48	-2.6m	conjunction	15818 Jun 30 05:08	21° E 55'38	-0°50'38
min. Earth dist.	15813 Mar 05 20:24	17° M 58'00	0.42203 AU	minimum elong	15818 Jun 30 06:39	21° E 58'13	0°51'25
direct	15813 Apr 01 13:30	13° M 18'11			15818 Jul 12 01:09	0° Ω	
	15813 May 24 19:58	0° E		morning rise	15818 Aug 18 12:09	26° Ω 14'41	
	15813 Jul 11 11:32	0° M			15818 Aug 23 17:50	0° M	
	15813 Aug 22 17:40	0° A		asc. node	15818 Sep 24 08:39	23° M 07'10	
	15813 Oct 03 12:47	0° B			15818 Oct 03 13:53	0° E	
	15813 Nov 15 08:49	0° \approx			15818 Nov 11 23:27	0° M	
desc. node	15813 Nov 27 12:45	8° \approx 20'03			15818 Dec 20 14:18	0° A	
	15813 Dec 29 17:29	0° H			15819 Jan 28 08:51	0° B	
	15814 Feb 13 13:31	0° Υ			15819 Mar 09 14:35	0° \approx	
evening set	15814 Mar 06 09:40	13° Υ 23'59			15819 Apr 22 12:36	0° H	
	15814 Apr 01 10:23	0° B			15819 Jun 17 08:07	0° Υ	
				desc. node	15819 Jul 21 08:03	8° Υ 45'21	
conjunction	15814 Apr 20 03:48	11° B 53'07	-1°07'03	retrograde	15819 Jul 27 06:02	8° Υ 59'21	
minimum elong	15814 Apr 20 02:52	11° B 51'38	1°07'31	min. Earth dist.	15819 Aug 31 03:36	1° Υ 08'24	0.61389 AU
max. Earth dist.	15814 Apr 21 21:08	12° B 58'38	2.68393 AU		15819 Sep 03 01:30	30° R H	
	15814 May 18 17:55	0° II		opposition	15819 Sep 05 11:45	29° H 02'46	-1°58'14
morning rise	15814 Jun 02 04:42	9° II 09'41		greatest brilliancy	15819 Sep 05 01:21	29° H 12'58	-1.6m
	15814 Jul 04 23:00	0° E		direct	15819 Oct 13 18:46	20° H 15'54	
	15814 Aug 20 17:16	0° Ω			15819 Nov 27 22:14	0° Υ	
	15814 Oct 05 22:08	0° M			15820 Jan 30 00:39	0° B	
	15814 Nov 20 17:38	0° E			15820 Mar 21 23:35	0° II	
asc. node	15814 Dec 20 20:10	19° E 36'17			15820 May 08 17:12	0° E	
	15815 Jan 06 02:33	0° M			15820 Jun 22 09:29	0° Ω	
	15815 Feb 27 00:58	0° A		evening set	15820 Jun 23 12:00	0° Ω 45'54	
retrograde	15815 Apr 16 23:22	13° A 52'14		max. Earth dist.	15820 Jul 07 13:39	10° Ω 36'43	2.48406 AU
min. Earth dist.	15815 May 13 14:29	9° A 33'29	0.37071 AU		15820 Aug 03 12:49	0° M	
opposition	15815 May 17 13:28	8° A 28'15	7°18'21	asc. node	15820 Aug 10 22:50	5° M 26'59	
greatest brilliancy	15815 May 16 15:32	8° A 43'20	-2.9m				
direct	15815 Jun 15 15:19	3° A 33'43		conjunction	15820 Aug 15 18:01	9° M 00'04	0°03'20
	15815 Aug 30 01:50	0° B		minimum elong	15820 Aug 15 17:50	8° M 59'44	0°02'58
desc. node	15815 Oct 15 17:00	27° B 17'45		behind sun begin	15820 Aug 14 17:53	8° M 15'20	
	15815 Oct 20 03:27	0° \approx		behind sun end	15820 Aug 16 17:47	9° M 44'10	
	15815 Dec 07 16:46	0° H			15820 Sep 12 15:01	0° E	
	15816 Jan 24 22:40	0° Υ		morning rise	15820 Oct 18 05:45	27° E 35'52	
	15816 Mar 13 02:07	0° B			15820 Oct 21 07:15	0° M	
evening set	15816 Apr 10 04:00	17° B 36'46			15820 Nov 28 07:50	0° A	
	15816 Apr 29 18:17	0° II		greatest brilliancy	15820 Dec 06 03:54	6° A 11'08	1.2m
max. Earth dist.	15816 May 13 01:01	8° II 27'13	2.66975 AU		15821 Jan 05 13:53	0° B	
					15821 Feb 14 00:49	0° \approx	
conjunction	15816 May 23 18:09	15° II 18'53	-1°12'37		15821 Mar 27 19:11	0° H	
minimum elong	15816 May 23 18:31	15° II 19'28	1°13'24		15821 May 12 13:35	0° Υ	
	15816 Jun 15 11:21	0° E		desc. node	15821 Jun 07 09:11	15° Υ 06'53	
morning rise	15816 Jul 06 17:00	13° E 55'22			15821 Jul 06 22:02	0° B	
	15816 Jul 30 20:03	0° Ω		retrograde	15821 Aug 30 06:03	14° B 11'21	
	15816 Sep 12 15:44	0° M		min. Earth dist.	15821 Oct 08 15:20	4° B 53'57	0.67955 AU
	15816 Oct 24 21:54	0° E		opposition	15821 Oct 10 04:09	4° B 17'35	-4°06'47
asc. node	15816 Nov 06 16:30	9° E 16'18		greatest brilliancy	15821 Oct 09 21:30	4° B 24'09	-1.3m
	15816 Dec 04 20:23	0° M			15821 Oct 21 12:43	30° R Υ	
	15817 Jan 14 02:32	0° A		direct	15821 Nov 19 21:17	24° Υ 40'29	
	15817 Feb 24 02:27	0° B			15821 Dec 22 03:47	0° B	
	15817 Apr 10 11:32	0° \approx			15822 Feb 27 03:05	0° II	
retrograde	15817 Jun 15 14:23	23° \approx 42'46			15822 Apr 18 18:50	0° E	
min. Earth dist.	15817 Jul 14 17:20	17° \approx 52'18	0.48992 AU		15822 Jun 03 04:00	0° Ω	
opposition	15817 Jul 22 23:00	14° \approx 52'29	2°11'28	asc. node	15822 Jun 28 16:26	17° Ω 58'25	
greatest brilliancy	15817 Jul 22 07:35	15° \approx 06'32	-2.2m		15822 Jul 15 05:03	0° M	



































































































































evening set	15822 Aug 16 13:56	24° \mathbb{M} 20'34			15827 Apr 27 07:38	0° \mathcal{B}	
	15822 Aug 23 22:26	0° \mathcal{B}			15827 Jun 14 04:42	0° \mathbb{I}	
	15822 Oct 01 05:50	0° \mathbb{L}			15827 Aug 02 20:34	0° \mathcal{B}	
					15827 Sep 24 19:45	0° \mathcal{Q}	
conjunction	15822 Oct 25 02:41	18° \mathbb{L} 56'44	1°04'57		15827 Dec 01 19:46	0° \mathbb{M}	
minimum elong	15822 Oct 25 00:08	18° \mathbb{L} 51'40	1°05'29	retrograde	15827 Dec 30 22:11	4° \mathbb{M} 32'53	
	15822 Nov 08 00:55	0° \mathcal{A}			15828 Jan 27 01:26	30° \mathcal{R} \mathcal{Q}	
max. Earth dist.	15822 Nov 11 21:59	3° \mathcal{A} 04'22	2.36182 AU	opposition	15828 Feb 03 00:44	27° \mathcal{Q} 41'38	-0°56'52
	15822 Dec 16 05:21	0° \mathcal{B}		greatest brilliancy	15828 Feb 03 09:48	27° \mathcal{Q} 33'49	-2.3m
morning rise	15823 Jan 07 05:33	16° \mathcal{B} 53'49		min. Earth dist.	15828 Feb 11 17:25	24° \mathcal{Q} 41'57	0.47755 AU
	15823 Jan 24 15:50	0° \approx		asc. node	15828 Feb 19 04:39	22° \mathcal{Q} 23'03	
	15823 Mar 07 02:42	0° \mathcal{H}		direct	15828 Mar 11 09:33	19° \mathcal{Q} 16'30	
	15823 Apr 20 07:38	0° \mathcal{Y}			15828 Apr 22 09:11	0° \mathbb{M}	
desc. node	15823 Apr 25 04:25	3° \mathcal{Y} 10'01			15828 Jun 12 11:07	0° \mathcal{B}	
	15823 Jun 07 11:00	0° \mathcal{B}			15828 Jul 24 08:39	0° \mathbb{L}	
	15823 Aug 03 01:28	0° \mathbb{I}			15828 Sep 02 11:24	0° \mathcal{A}	
retrograde	15823 Oct 03 14:15	16° \mathbb{I} 38'58			15828 Oct 12 22:18	0° \mathcal{B}	
opposition	15823 Nov 12 19:24	7° \mathbb{I} 15'07	-4°53'03		15828 Nov 23 17:41	0° \approx	
greatest brilliancy	15823 Nov 13 04:22	7° \mathbb{I} 06'19	-1.3m	desc. node	15828 Dec 14 04:16	14° \approx 13'54	
min. Earth dist.	15823 Nov 15 04:21	6° \mathbb{I} 19'21	0.67755 AU		15829 Jan 06 07:17	0° \mathcal{H}	
	15823 Dec 03 14:32	30° \mathcal{R} \mathcal{B}		evening set	15829 Feb 19 06:32	29° \mathcal{H} 09'10	
direct	15823 Dec 24 10:44	27° \mathcal{B} 14'36			15829 Feb 20 13:43	0° \mathcal{Y}	
	15824 Jan 15 15:45	0° \mathbb{I}					
	15824 Mar 24 21:33	0° \mathcal{B}		conjunction	15829 Apr 06 10:11	28° \mathcal{Y} 54'12	-0°58'14
	15824 May 12 04:28	0° \mathcal{Q}		minimum elong	15829 Apr 06 08:56	28° \mathcal{Y} 52'11	0°58'33
asc. node	15824 May 15 17:07	2° \mathcal{Q} 22'02			15829 Apr 08 03:26	0° \mathcal{B}	
	15824 Jun 23 22:58	0° \mathbb{M}		max. Earth dist.	15829 Apr 13 07:26	3° \mathcal{B} 17'30	2.67421 AU
	15824 Aug 02 18:26	0° \mathcal{B}		morning rise	15829 May 20 00:26	26° \mathcal{B} 33'19	
	15824 Sep 10 00:47	0° \mathbb{L}			15829 May 25 11:23	0° \mathbb{I}	
greatest brilliancy	15824 Sep 21 06:09	8° \mathbb{L} 54'01	1.1m		15829 Jul 12 02:13	0° \mathcal{B}	
	15824 Oct 17 20:52	0° \mathcal{A}			15829 Aug 28 19:10	0° \mathcal{Q}	
evening set	15824 Oct 31 09:15	10° \mathcal{A} 38'59			15829 Oct 15 18:59	0° \mathbb{M}	
	15824 Nov 25 06:07	0° \mathcal{B}			15829 Dec 04 03:10	0° \mathcal{B}	
	15825 Jan 04 00:10	0° \approx		asc. node	15830 Jan 06 10:28	18° \mathcal{B} 41'51	
					15830 Jan 29 21:05	0° \mathbb{L}	
conjunction	15825 Jan 07 06:02	2° \approx 23'20	0°38'53	retrograde	15830 Mar 15 19:31	11° \mathbb{L} 02'47	
minimum elong	15825 Jan 07 08:39	2° \approx 28'09	0°39'36	opposition	15830 Apr 14 04:07	6° \mathbb{L} 12'02	6°23'32
	15825 Feb 14 17:09	0° \mathcal{H}		greatest brilliancy	15830 Apr 14 11:58	6° \mathbb{L} 06'48	-3.0m
max. Earth dist.	15825 Feb 18 11:44	2° \mathcal{H} 38'19	2.49649 AU	min. Earth dist.	15830 Apr 16 01:17	5° \mathbb{L} 41'57	0.36609 AU
morning rise	15825 Mar 05 20:38	13° \mathcal{H} 15'11		direct	15830 May 13 23:40	1° \mathbb{L} 09'11	
desc. node	15825 Mar 11 18:09	17° \mathcal{H} 16'16			15830 Jul 29 10:36	0° \mathcal{A}	
	15825 Mar 30 17:21	0° \mathcal{Y}			15830 Sep 15 04:49	0° \mathcal{B}	
	15825 May 16 06:32	0° \mathcal{B}			15830 Oct 31 03:07	0° \approx	
	15825 Jul 05 00:19	0° \mathbb{I}		desc. node	15830 Nov 01 05:38	0° \approx 43'16	
	15825 Aug 30 04:47	0° \mathcal{B}			15830 Dec 16 10:10	0° \mathcal{H}	
retrograde	15825 Nov 10 04:37	21° \mathcal{B} 12'32			15831 Feb 01 11:09	0° \mathcal{Y}	
opposition	15825 Dec 18 07:54	12° \mathcal{B} 42'55	-4°13'13		15831 Mar 20 23:37	0° \mathcal{B}	
greatest brilliancy	15825 Dec 19 07:16	12° \mathcal{B} 20'38	-1.6m	evening set	15831 Mar 28 13:33	4° \mathcal{B} 46'43	
min. Earth dist.	15825 Dec 24 13:16	10° \mathcal{B} 20'48	0.60702 AU	max. Earth dist.	15831 May 05 11:44	28° \mathcal{B} 45'30	2.68178 AU
direct	15826 Jan 28 05:15	2° \mathcal{B} 50'57			15831 May 07 10:39	0° \mathbb{I}	
asc. node	15826 Apr 02 21:58	23° \mathcal{B} 10'22					
	15826 Apr 15 06:11	0° \mathcal{Q}		conjunction	15831 May 11 05:45	2° \mathbb{I} 24'46	-1°13'31
	15826 May 31 20:20	0° \mathbb{M}		minimum elong	15831 May 11 05:34	2° \mathbb{I} 24'28	1°14'12
	15826 Jul 11 20:10	0° \mathcal{B}		morning rise	15831 Jun 23 10:17	0° \mathcal{B} 05'51	
	15826 Aug 19 15:40	0° \mathbb{L}			15831 Jun 23 06:40	0° \mathcal{B}	
	15826 Sep 26 23:04	0° \mathcal{A}			15831 Aug 08 01:52	0° \mathcal{Q}	
	15826 Nov 04 22:00	0° \mathcal{B}			15831 Sep 21 14:51	0° \mathbb{M}	
	15826 Dec 15 08:08	0° \approx			15831 Nov 03 20:13	0° \mathcal{B}	
evening set	15827 Jan 05 08:05	15° \approx 03'22		asc. node	15831 Nov 24 10:09	14° \mathcal{B} 34'37	
	15827 Jan 26 16:34	0° \mathcal{H}			15831 Dec 15 23:31	0° \mathbb{L}	
desc. node	15827 Jan 27 08:34	0° \mathcal{H} 27'39			15832 Jan 26 20:37	0° \mathcal{A}	
					15832 Mar 11 00:20	0° \mathcal{B}	
conjunction	15827 Feb 27 12:32	21° \mathcal{H} 38'57	-0°18'59		15832 May 18 05:11	0° \approx	
minimum elong	15827 Feb 27 11:42	21° \mathcal{H} 37'33	0°18'47	retrograde	15832 May 26 08:30	0° \approx 29'35	
	15827 Mar 12 01:49	0° \mathcal{Y}			15832 Jun 03 10:18	30° \mathcal{R} \mathcal{B}	
max. Earth dist.	15827 Mar 21 15:21	6° \mathcal{Y} 17'54	2.61152 AU	min. Earth dist.	15832 Jun 22 06:14	25° \mathcal{B} 31'54	0.43458 AU
morning rise	15827 Apr 16 01:48	22° \mathcal{Y} 48'20		greatest brilliancy	15832 Jun 29 05:17	23° \mathcal{B} 12'05	-2.5m

opposition	15832 Jun 30 10:45	22°  47'16	4°28'16	conjunction	15837 Sep 24 07:31	18°  34'30	0°46'03
direct	15832 Aug 01 09:05	16°  30'44		minimum elong	15837 Sep 24 03:54	18°  27'23	0°46'11
desc. node	15832 Sep 18 12:24	28°  18'20			15837 Oct 08 19:53	0° 	
	15832 Sep 22 11:51	0° 			15837 Nov 15 16:11	0° 	
	15832 Nov 19 21:22	0° 		morning rise	15837 Dec 07 10:29	17°  11'07	
	15833 Jan 10 11:08	0° 			15837 Dec 23 20:01	0° 	
	15833 Mar 01 02:22	0° 			15838 Feb 01 04:51	0° 	
	15833 Apr 18 08:44	0° 			15838 Mar 14 15:41	0° 	
evening set	15833 May 01 11:38	8°  19'11			15838 Apr 28 04:03	0° 	
max. Earth dist.	15833 May 27 05:44	24°  15'15	2.63442 AU	desc. node	15838 May 11 20:19	8°  40'59	
	15833 Jun 04 01:56	0° 			15838 Jun 16 17:53	0° 	
					15838 Aug 22 20:45	0° 	
conjunction	15833 Jun 14 22:36	7°  08'22	-1°02'45	retrograde	15838 Sep 20 00:46	4°  15'25	
minimum elong	15833 Jun 14 23:48	7°  10'20	1°03'33		15838 Oct 16 01:12	30°  R 	
	15833 Jul 19 00:21	0° 		opposition	15838 Oct 30 16:25	24°  37'26	-4°44'13
morning rise	15833 Jul 31 10:29	8°  03'17		greatest brilliancy	15838 Oct 30 18:44	24°  35'09	-1.2m
	15833 Aug 31 01:55	0° 		min. Earth dist.	15838 Oct 31 12:50	24°  17'20	0.68656 AU
asc. node	15833 Oct 11 02:41	29°  48'16		direct	15838 Dec 11 03:25	14°  43'09	
	15833 Oct 11 09:01	0° 			15839 Feb 07 08:22	0° 	
	15833 Nov 20 05:44	0° 			15839 Apr 04 16:43	0° 	
	15833 Dec 29 07:10	0° 			15839 May 21 09:50	0° 	
	15834 Feb 06 13:21	0° 		asc. node	15839 Jun 02 07:00	8°  10'16	
	15834 Mar 19 15:52	0° 			15839 Jul 02 18:48	0° 	
	15834 May 05 09:01	0° 			15839 Aug 11 12:25	0° 	
retrograde	15834 Jul 12 07:05	23°  12'39			15839 Sep 18 18:25	0° 	
desc. node	15834 Aug 06 20:36	18°  49'16		evening set	15839 Sep 30 19:09	9°  13'24'49	
min. Earth dist.	15834 Aug 14 01:07	16°  13'35	0.57100 AU		15839 Oct 26 13:20	0° 	
opposition	15834 Aug 20 18:09	13°  38'12	-0°39'10		15839 Dec 03 19:42	0° 	
greatest brilliancy	15834 Aug 20 13:43	13°  42'28	-1.8m				
direct	15834 Sep 26 15:24	5°  12'29		conjunction	15839 Dec 12 17:19	6°  51'23	0°59'12
	15834 Dec 14 07:32	0° 		minimum elong	15839 Dec 12 20:28	6°  57'26	1°00'00
	15835 Feb 08 02:55	0° 			15840 Jan 12 09:22	0° 	
	15835 Mar 30 11:45	0° 		max. Earth dist.	15840 Feb 01 16:14	14°  51'16	2.43996 AU
	15835 May 16 18:14	0° 		morning rise	15840 Feb 14 22:59	24°  22'22	
evening set	15835 Jun 07 21:01	14°  03'55			15840 Feb 22 22:08	0° 	
max. Earth dist.	15835 Jun 24 05:03	25°  43'43	2.53507 AU	desc. node	15840 Mar 28 12:48	23°  46'06	
	15835 Jun 30 10:02	0° 			15840 Apr 06 21:14	0° 	
					15840 May 23 18:55	0° 	
conjunction	15835 Jul 27 06:47	18°  01'55	-0°21'29		15840 Jul 14 00:46	0° 	
minimum elong	15835 Jul 27 07:56	18°  03'56	0°22'05		15840 Sep 16 13:30	0° 	
	15835 Aug 11 17:42	0° 		retrograde	15840 Oct 25 07:18	7°  02'41'11	
asc. node	15835 Aug 28 18:17	12°  40'30'10			15840 Nov 29 12:12	30°  R 	
morning rise	15835 Sep 21 19:51	0°  34'05		opposition	15840 Dec 03 10:37	28°  11'21'41'13	
	15835 Sep 21 01:54	0° 		greatest brilliancy	15840 Dec 04 05:34	28°  11'21	-1.4m
	15835 Oct 29 23:42	0° 		min. Earth dist.	15840 Dec 08 04:51	26°  13'39'21	0.64257 AU
	15835 Dec 07 04:29	0° 		direct	15841 Jan 13 20:44	18°  12'28'57	
	15836 Jan 14 13:25	0° 			15841 Mar 02 08:53	0° 	
	15836 Feb 23 03:51	0° 		asc. node	15841 Apr 19 10:19	25°  02'25'01	
	15836 Apr 05 08:28	0° 			15841 Apr 26 19:39	0° 	
	15836 May 22 17:42	0° 			15841 Jun 10 03:48	0° 	
desc. node	15836 Jun 23 23:40	16°  01'52'01			15841 Jul 20 11:33	0° 	
	15836 Aug 02 07:10	0° 			15841 Aug 27 23:29	0° 	
retrograde	15836 Aug 16 23:55	1°  08'19'15			15841 Oct 05 00:48	0° 	
	15836 Aug 31 02:51	30°  R 			15841 Nov 12 16:54	0° 	
min. Earth dist.	15836 Sep 23 19:00	22°  01'32'21	0.66181 AU	evening set	15841 Dec 13 16:02	23°  03'17'02	
opposition	15836 Sep 26 19:59	21°  01'20'14	-3°28'09		15841 Dec 22 19:10	0° 	
greatest brilliancy	15836 Sep 26 09:36	21°  01'30'30	-1.4m		15842 Feb 02 20:00	0° 	
direct	15836 Nov 05 18:45	11°  01'59'07					
	15837 Jan 10 01:43	0° 		conjunction	15842 Feb 09 15:30	4°  43'31	0°02'14
	15837 Mar 08 08:52	0° 		minimum elong	15842 Feb 09 15:39	4°  43'47	0°02'39
	15837 Apr 26 12:10	0° 		behind sun begin	15842 Feb 08 17:30	4°  43'05'31	
	15837 Jun 10 12:29	0° 		behind sun end	15842 Feb 10 13:48	5°  43'22'00	
asc. node	15837 Jul 15 10:30	24°  01'47'14		desc. node	15842 Feb 13 03:28	7°  43'08'16	
	15837 Jul 22 13:35	0° 		max. Earth dist.	15842 Mar 10 19:54	24°  43'33'38	2.57224 AU
evening set	15837 Jul 23 20:20	0° 			15842 Mar 18 23:50	0° 	
max. Earth dist.	15837 Aug 10 07:02	13°  01'55'50	2.39874 AU	morning rise	15842 Apr 01 04:06	8°  43'41'00	
	15837 Aug 31 09:48	0° 			15842 May 04 05:51	0° 	

	15842 Jun 21 14:14	0°♊	opposition	15847 Jun 04 04:51	26°♊08'54	6°38'33
	15842 Aug 11 19:08	0°♋	direct	15847 Jul 04 02:28	20°♊50'53	
	15842 Oct 09 08:21	0°♌		15847 Aug 13 16:50	0°♋	
retrograde	15842 Dec 08 21:02	16°♌08'18	desc. node	15847 Oct 06 00:21	26°♋40'16	
opposition	15843 Jan 13 21:05	8°♌31'13 -2°40'56		15847 Oct 11 20:50	0°♌	
greatest brilliancy	15843 Jan 14 18:37	8°♌11'35 -2.0m		15847 Dec 01 12:17	0°♍	
min. Earth dist.	15843 Jan 22 00:54	5°♌33'07 0.53329 AU		15848 Jan 19 16:13	0°♎	
	15843 Feb 11 22:18	30°♍		15848 Mar 08 06:30	0°♏	
direct	15843 Feb 22 02:39	29°♍16'42	evening set	15848 Apr 17 20:39	25°♏24'10	
	15843 Mar 04 10:58	0°♌		15848 Apr 25 03:10	0°♊	
asc. node	15843 Mar 07 17:42	0°♌31'00	max. Earth dist.	15848 May 18 03:44	14°♊40'44 2.65960 AU	
	15843 May 12 20:56	0°♎				
	15843 Jun 25 19:54	0°♎	conjunction	15848 May 31 14:24	23°♊20'44 -1°10'17	
	15843 Aug 04 19:48	0°♎	minimum elong	15848 May 31 15:06	23°♊21'51 1°11'04	
	15843 Sep 12 21:48	0°♏		15848 Jun 10 20:12	0°♋	
	15843 Oct 22 13:39	0°♐	morning rise	15848 Jul 15 05:53	22°♋43'33	
	15843 Dec 02 16:18	0°♑		15848 Jul 26 01:26	0°♌	
desc. node	15843 Dec 31 19:37	20°♑29'07		15848 Sep 07 14:31	0°♍	
	15844 Jan 14 15:50	0°♒		15848 Oct 19 11:57	0°♎	
evening set	15844 Feb 03 21:44	13°♒41'29	asc. node	15848 Oct 27 22:39	6°♎11'03	
	15844 Feb 28 11:55	0°♓		15848 Nov 28 23:44	0°♏	
				15849 Jan 07 16:52	0°♐	
conjunction	15844 Mar 23 02:08	15°♓22'08 -0°45'48		15849 Feb 16 19:35	0°♑	
minimum elong	15844 Mar 23 00:46	15°♓19'56 0°45'55		15849 Mar 31 18:43	0°♑	
max. Earth dist.	15844 Apr 04 13:47	23°♓24'39 2.65620 AU		15849 May 27 09:22	0°♒	
	15844 Apr 14 20:47	0°♏	retrograde	15849 Jun 25 20:49	5°♒37'12	
morning rise	15844 May 06 17:37	13°♏53'51		15849 Jul 24 08:23	30°♒	
	15844 Jun 01 07:17	0°♊	min. Earth dist.	15849 Jul 26 06:53	29°♒18'01 0.52031 AU	
	15844 Jul 19 11:48	0°♋	opposition	15849 Aug 03 03:27	26°♒21'44 1°01'59	
	15844 Sep 06 13:08	0°♌	greatest brilliancy	15849 Aug 02 20:22	26°♒28'22 -2.1m	
	15844 Oct 27 13:31	0°♍	desc. node	15849 Aug 23 07:38	20°♒12'23	
	15844 Dec 25 15:21	0°♎	direct	15849 Sep 07 07:34	18°♒43'47	
asc. node	15845 Jan 22 23:30	9°♎13'23		15849 Oct 25 12:09	0°♒	
retrograde	15845 Feb 10 17:40	11°♎19'57		15849 Dec 25 21:37	0°♓	
opposition	15845 Mar 13 13:31	5°♎54'19 3°23'56		15850 Feb 16 08:13	0°♏	
greatest brilliancy	15845 Mar 14 07:25	5°♎41'05 -2.8m		15850 Apr 06 16:00	0°♊	
min. Earth dist.	15845 Mar 20 02:26	3°♎58'59 0.39580 AU	evening set	15850 May 23 16:41	0°♋02'01	
	15845 Apr 07 18:40	30°♎		15850 May 23 15:27	0°♋	
direct	15845 Apr 15 07:01	29°♎35'28	max. Earth dist.	15850 Jun 12 07:49	13°♋01'02 2.57997 AU	
	15845 Apr 22 20:34	0°♎		15850 Jul 07 08:59	0°♌	
	15845 Jul 01 03:09	0°♎				
	15845 Aug 15 00:20	0°♏	conjunction	15850 Jul 09 11:21	1°♌26'42 -0°41'25	
	15845 Sep 27 01:18	0°♐	minimum elong	15850 Jul 09 12:53	1°♌29'21 0°42'09	
	15845 Nov 09 15:47	0°♑		15850 Aug 18 22:48	0°♍	
desc. node	15845 Nov 17 18:56	5°♑30'10	morning rise	15850 Aug 29 20:53	7°♍55'40	
	15845 Dec 24 13:07	0°♒	asc. node	15850 Sep 14 13:05	19°♍28'26	
	15846 Feb 08 17:14	0°♓		15850 Sep 28 15:01	0°♎	
evening set	15846 Mar 14 14:20	21°♓38'00		15850 Nov 06 20:24	0°♏	
	15846 Mar 27 18:37	0°♏		15850 Dec 15 07:19	0°♐	
				15851 Jan 22 21:25	0°♑	
conjunction	15846 Apr 27 19:46	19°♏40'18 -1°10'34		15851 Mar 03 18:59	0°♑	
minimum elong	15846 Apr 27 19:05	19°♏39'12 1°11'07		15851 Apr 15 19:12	0°♒	
max. Earth dist.	15846 Apr 26 20:17	19°♏03'06 2.68554 AU		15851 Jun 05 16:03	0°♓	
	15846 May 14 02:49	0°♊	desc. node	15851 Jul 11 13:17	14°♓18'24	
morning rise	15846 Jun 09 18:46	16°♊57'31	retrograde	15851 Aug 04 08:35	17°♓43'12	
	15846 Jun 30 04:06	0°♋	min. Earth dist.	15851 Sep 09 08:03	9°♓31'02 0.63355 AU	
	15846 Aug 15 13:11	0°♌	opposition	15851 Sep 13 20:49	7°♓43'54 -2°36'10	
	15846 Sep 30 01:16	0°♍	greatest brilliancy	15851 Sep 13 09:17	7°♓55'17 -1.5m	
	15846 Nov 13 16:50	0°♎		15851 Oct 08 14:06	30°♓	
asc. node	15846 Dec 11 02:33	18°♎35'45	direct	15851 Oct 22 19:26	28°♓43'15	
	15846 Dec 27 22:35	0°♏		15851 Nov 06 19:18	0°♏	
	15847 Feb 11 15:51	0°♐		15852 Jan 23 06:14	0°♏	
	15847 Apr 14 18:29	0°♑		15852 Mar 16 16:19	0°♊	
retrograde	15847 May 03 02:50	2°♑19'40		15852 May 03 20:48	0°♋	
	15847 May 21 09:10	30°♒		15852 Jun 17 16:09	0°♌	
min. Earth dist.	15847 May 28 21:59	27°♒59'46 0.38785 AU	evening set	15852 Jul 03 17:50	11°♌14'38	
greatest brilliancy	15847 Jun 02 21:29	26°♒32'07 -2.8m	max. Earth dist.	15852 Jul 17 07:11	20°♌55'30 2.45374 AU	

	15852 Jul 29 18:58	0°♍			15857 Nov 15 20:15	0°♏
asc. node	15852 Aug 01 03:56	1°♍44'26		retrograde	15857 Nov 19 22:45	0°♏06'02
					15857 Nov 24 00:02	30°♏
conjunction	15852 Aug 28 19:23	22°♍22'55 0°19'00		opposition	15857 Dec 27 10:05	21°♏53'07 -3°47'18
minimum elong	15852 Aug 28 17:56	22°♍20'11 0°18'48		greatest brilliancy	15857 Dec 28 10:26	21°♏30'10 -1.7m
	15852 Sep 07 19:20	0°♎		min. Earth dist.	15858 Jan 03 10:11	19°♏15'07 0.58288 AU
	15852 Oct 16 09:24	0°♍		direct	15858 Feb 05 20:30	12°♏10'28
morning rise	15852 Nov 04 15:56	15°♍12'43		asc. node	15858 Mar 24 05:42	23°♏54'37
	15852 Nov 23 08:18	0°♎			15858 Apr 05 21:11	0°♏
	15852 Dec 31 13:10	0°♏			15858 May 25 05:53	0°♍
	15853 Feb 08 22:19	0°♎			15858 Jul 05 23:19	0°♎
	15853 Mar 22 12:01	0°♎			15858 Aug 14 02:27	0°♍
	15853 May 06 14:46	0°♎			15858 Sep 21 14:55	0°♎
desc. node	15853 May 28 14:00	13°♎22'43			15858 Oct 30 18:36	0°♏
	15853 Jun 27 20:51	0°♎			15858 Dec 10 09:15	0°♎
retrograde	15853 Sep 06 18:44	21°♎51'25		evening set	15859 Jan 16 16:53	26°♎24'18
opposition	15853 Oct 17 15:49	12°♎02'29 -4°24'06		desc. node	15859 Jan 17 13:03	26°♎59'14
min. Earth dist.	15853 Oct 16 23:30	12°♎18'36 0.68492 AU			15859 Jan 21 21:44	0°♎
greatest brilliancy	15853 Oct 17 12:03	12°♎06'13 -1.2m			15859 Mar 07 09:34	0°♎
direct	15853 Nov 27 16:36	2°♎18'13				
	15854 Feb 20 05:05	0°♎		conjunction	15859 Mar 08 18:53	0°♎55'00 -0°29'48
	15854 Apr 13 09:08	0°♏		minimum elong	15859 Mar 08 17:44	0°♎53'06 0°29'44
	15854 May 29 04:44	0°♏		max. Earth dist.	15859 Mar 27 07:24	13°♎02'36 2.62974 AU
asc. node	15854 Jun 18 23:17	14°♏30'54			15859 Apr 22 15:16	0°♎
	15854 Jul 10 08:45	0°♍		morning rise	15859 Apr 24 02:15	0°♎55'50
	15854 Aug 19 02:28	0°♎			15859 Jun 09 07:00	0°♎
evening set	15854 Aug 31 17:14	9°♎47'54			15859 Jul 28 07:18	0°♏
	15854 Sep 26 09:13	0°♍			15859 Sep 17 10:46	0°♏
	15854 Nov 03 03:49	0°♎			15859 Nov 13 23:05	0°♍
				retrograde	15860 Jan 14 00:11	16°♍50'53
conjunction	15854 Nov 12 03:34	7°♎07'03 1°08'05		asc. node	15860 Feb 09 13:50	12°♍30'13
minimum elong	15854 Nov 12 03:33	7°♎07'00 1°08'47		opposition	15860 Feb 15 22:17	10°♍29'00 0°24'01
	15854 Dec 11 08:17	0°♏		greatest brilliancy	15860 Feb 16 01:27	10°♍26'22 -2.5m
max. Earth dist.	15855 Jan 02 22:33	17°♏20'24 2.38388 AU		min. Earth dist.	15860 Feb 24 09:39	7°♍41'17 0.44618 AU
	15855 Jan 19 18:53	0°♎		direct	15860 Mar 22 21:06	2°♍42'16
morning rise	15855 Jan 22 11:15	1°♎59'30			15860 Jun 02 14:38	0°♎
	15855 Mar 02 05:09	0°♎			15860 Jul 16 20:58	0°♍
desc. node	15855 Apr 15 07:06	0°♎01'43			15860 Aug 26 23:03	0°♎
	15855 Apr 15 06:03	0°♎			15860 Oct 07 01:01	0°♏
	15855 Jun 01 18:34	0°♎			15860 Nov 18 07:49	0°♎
	15855 Jul 25 14:50	0°♎		desc. node	15860 Dec 04 08:26	11°♎04'36
retrograde	15855 Oct 11 14:33	24°♎22'41			15861 Jan 01 06:20	0°♎
opposition	15855 Nov 20 12:09	15°♎08'20 -4°52'41			15861 Feb 15 19:01	0°♎
greatest brilliancy	15855 Nov 21 00:55	14°♎55'52 -1.3m		evening set	15861 Feb 28 00:36	7°♎54'54
min. Earth dist.	15855 Nov 23 17:52	13°♎52'34 0.66793 AU			15861 Apr 03 12:00	0°♎
direct	15856 Jan 01 03:25	5°♎06'19				
	15856 Mar 17 10:57	0°♏		conjunction	15861 Apr 14 07:33	6°♎52'47 -1°03'52
asc. node	15856 May 05 23:42	29°♏41'38		minimum elong	15861 Apr 14 06:27	6°♎51'03 1°04'17
	15856 May 06 10:54	0°♏		max. Earth dist.	15861 Apr 18 06:55	9°♎24'13 2.68069 AU
	15856 Jun 18 16:43	0°♍			15861 May 20 19:15	0°♎
	15856 Jul 28 16:22	0°♎		morning rise	15861 May 27 12:51	4°♎15'35
	15856 Sep 05 00:31	0°♍			15861 Jul 07 04:22	0°♏
	15856 Oct 12 22:02	0°♎			15861 Aug 23 08:12	0°♏
evening set	15856 Nov 17 01:34	27°♎27'12			15861 Oct 09 06:01	0°♍
	15856 Nov 20 08:58	0°♏			15861 Nov 25 07:46	0°♎
	15856 Dec 30 04:46	0°♎		asc. node	15861 Dec 27 17:46	20°♎07'04
					15862 Jan 13 10:14	0°♍
conjunction	15857 Jan 20 05:25	15°♎17'37 0°25'30		retrograde	15862 Apr 03 05:01	29°♍50'10
minimum elong	15857 Jan 20 07:06	15°♎20'39 0°26'08		opposition	15862 May 02 23:11	24°♍50'49 7°16'27
	15857 Feb 09 23:12	0°♎		min. Earth dist.	15862 May 01 12:05	25°♍14'12 0.36409 AU
max. Earth dist.	15857 Feb 26 12:39	11°♎28'37 2.52518 AU		greatest brilliancy	15862 May 02 14:21	24°♍56'42 -3.0m
desc. node	15857 Mar 01 21:22	13°♎46'48		direct	15862 Jun 01 00:32	20°♍02'08
morning rise	15857 Mar 15 21:34	23°♎16'17			15862 Jul 12 09:24	0°♎
	15857 Mar 25 23:13	0°♎			15862 Sep 06 03:35	0°♏
	15857 May 11 07:59	0°♎		desc. node	15862 Oct 22 11:15	28°♏48'29
	15857 Jun 29 09:56	0°♎			15862 Oct 24 08:30	0°♎
	15857 Aug 22 03:17	0°♏			15862 Dec 10 17:45	0°♎

	15863 Jan 27 09:11	0°♄	asc. node	15867 Aug 18 22:41	8°♄46'35	
	15863 Mar 16 05:32	0°♄		15867 Sep 16 05:31	0°♄	
evening set	15863 Apr 05 09:00	12°♄39'38	morning rise	15867 Oct 06 15:01	15°♄39'50	
	15863 May 02 19:28	0°♄		15867 Oct 25 00:47	0°♄	
max. Earth dist.	15863 May 10 11:19	4°♄52'08 2.67622 AU		15867 Dec 02 03:12	0°♄	
				15868 Jan 09 09:58	0°♄	
conjunction	15863 May 18 22:20	10°♄15'51 -1°13'32		15868 Feb 17 21:00	0°♄	
minimum elong	15863 May 18 22:29	10°♄16'05 1°14'16		15868 Mar 30 17:08	0°♄	
	15863 Jun 18 14:12	0°♄		15868 May 15 22:02	0°♄	
morning rise	15863 Jul 01 11:11	8°♄23'05	desc. node	15868 Jun 14 04:17	16°♄32'18	
	15863 Aug 03 04:08	0°♄		15868 Jul 13 09:55	0°♄	
	15863 Sep 16 07:45	0°♄	retrograde	15868 Aug 24 14:42	9°♄14'46	
	15863 Oct 29 00:16	0°♄	min. Earth dist.	15868 Oct 02 07:49	0°♄10'15 0.67289 AU	
asc. node	15863 Nov 14 15:16	11°♄56'57		15868 Oct 02 18:11	30°♄	
	15863 Dec 09 10:28	0°♄	opposition	15868 Oct 04 12:27	29°♄18'12 -3°52'38	
	15864 Jan 19 06:54	0°♄	greatest brilliancy	15868 Oct 04 03:53	29°♄26'41 -1.3m	
	15864 Mar 01 05:45	0°♄	direct	15868 Nov 13 21:39	19°♄47'36	
	15864 Apr 18 21:09	0°♄		15868 Dec 30 12:02	0°♄	
retrograde	15864 Jun 07 04:12	14°♄37'34		15869 Mar 02 08:02	0°♄	
min. Earth dist.	15864 Jul 05 05:53	9°♄11'32 0.46485 AU		15869 Apr 21 08:46	0°♄	
opposition	15864 Jul 13 15:18	6°♄14'05 3°08'24		15869 Jun 05 15:38	0°♄	
greatest brilliancy	15864 Jul 12 17:20	6°♄33'29 -2.4m	asc. node	15869 Jul 05 15:03	21°♄09'57	
	15864 Aug 06 12:28	30°♄		15869 Jul 17 17:56	0°♄	
direct	15864 Aug 15 17:49	29°♄25'56	evening set	15869 Aug 05 17:53	14°♄08'12	
	15864 Aug 25 07:28	0°♄		15869 Aug 26 13:37	0°♄	
desc. node	15864 Sep 08 19:54	2°♄46'29	max. Earth dist.	15869 Sep 04 17:03	7°♄04'16 2.37199 AU	
	15864 Nov 11 19:10	0°♄		15869 Oct 03 22:43	0°♄	
	15865 Jan 04 13:44	0°♄				
	15865 Feb 24 00:33	0°♄	conjunction	15869 Oct 11 05:23	5°♄45'43 0°58'34	
	15865 Apr 13 15:00	0°♄	minimum elong	15869 Oct 11 01:43	5°♄38'26 0°58'57	
evening set	15865 May 09 09:30	16°♄22'02		15869 Nov 10 18:18	0°♄	
	15865 May 30 10:28	0°♄		15869 Dec 18 22:01	0°♄	
max. Earth dist.	15865 Jun 01 20:22	1°♄34'48 2.61729 AU	morning rise	15869 Dec 25 06:06	4°♄54'33	
				15870 Jan 27 06:42	0°♄	
conjunction	15865 Jun 23 11:30	15°♄54'24 -0°56'21		15870 Mar 09 15:50	0°♄	
minimum elong	15865 Jun 23 12:54	15°♄56'46 0°57'08		15870 Apr 22 21:33	0°♄	
	15865 Jul 14 07:32	0°♄	desc. node	15870 May 02 01:02	5°♄54'31	
morning rise	15865 Aug 10 09:10	18°♄46'15		15870 Jun 10 10:37	0°♄	
	15865 Aug 26 05:03	0°♄		15870 Aug 08 15:01	0°♄	
asc. node	15865 Oct 01 08:12	26°♄19'37	retrograde	15870 Sep 27 16:51	11°♄48'56	
	15865 Oct 06 06:48	0°♄	opposition	15870 Nov 07 03:38	2°♄18'25 -4°50'56	
	15865 Nov 14 21:35	0°♄	greatest brilliancy	15870 Nov 07 09:40	2°♄12'30 -1.2m	
	15865 Dec 23 16:47	0°♄	min. Earth dist.	15870 Nov 08 20:41	1°♄38'09 0.68290 AU	
	15866 Jan 31 15:23	0°♄		15870 Nov 13 01:46	30°♄	
	15866 Mar 13 03:00	0°♄	direct	15870 Dec 18 17:45	22°♄20'03	
	15866 Apr 26 19:48	0°♄		15871 Jan 26 16:00	0°♄	
	15866 Jun 29 07:02	0°♄		15871 Mar 29 11:05	0°♄	
retrograde	15866 Jul 20 23:35	2°♄58'14		15871 May 16 02:18	0°♄	
desc. node	15866 Jul 28 02:37	2°♄37'04	asc. node	15871 May 23 14:34	5°♄05'41	
	15866 Aug 10 14:57	30°♄		15871 Jun 27 17:41	0°♄	
min. Earth dist.	15866 Aug 23 22:43	25°♄25'29 0.59585 AU		15871 Aug 06 13:12	0°♄	
opposition	15866 Aug 29 21:42	23°♄06'06 -1°27'45		15871 Sep 13 19:39	0°♄	
greatest brilliancy	15866 Aug 29 13:00	23°♄14'35 -1.7m	evening set	15871 Oct 18 16:07	27°♄39'49	
direct	15866 Oct 06 14:22	14°♄31'34		15871 Oct 21 14:55	0°♄	
	15866 Dec 04 18:57	0°♄		15871 Nov 28 22:13	0°♄	
	15867 Feb 02 03:18	0°♄				
	15867 Mar 25 09:46	0°♄	conjunction	15871 Dec 28 06:05	22°♄19'40 0°48'24	
	15867 May 11 23:36	0°♄	minimum elong	15871 Dec 28 09:15	22°♄25'38 0°49'09	
evening set	15867 Jun 17 02:37	24°♄05'29		15872 Jan 07 13:14	0°♄	
	15867 Jun 25 17:08	0°♄	max. Earth dist.	15872 Feb 12 10:30	25°♄59'32 2.47184 AU	
max. Earth dist.	15867 Jul 01 22:43	4°♄19'23 2.50765 AU		15872 Feb 18 02:53	0°♄	
	15867 Aug 06 23:34	0°♄	morning rise	15872 Feb 26 14:36	5°♄55'51	
			desc. node	15872 Mar 18 15:35	20°♄21'28	
conjunction	15867 Aug 07 11:02	0°♄20'53 -0°07'49		15872 Apr 02 01:00	0°♄	
minimum elong	15867 Aug 07 11:32	0°♄21'47 0°08'17		15872 May 18 15:41	0°♄	
behind sun begin	15867 Aug 06 15:20	29°♄45'00		15872 Jul 07 20:40	0°♄	
behind sun end	15867 Aug 08 07:44	0°♄58'36		15872 Sep 04 08:23	0°♄	

retrograde	15872 Nov 03 03:19	15°  38'24		desc. node	15877 Nov 08 00:57	2°  55'23	
opposition	15872 Dec 11 18:34	6°  56'59 -4°27'02			15877 Dec 19 05:00	0° 	
greatest brilliancy	15872 Dec 12 16:16	6°  36'09 -1.5m			15878 Feb 03 19:19	0° 	
min. Earth dist.	15872 Dec 17 08:46	4°  48'19 0.62424 AU		evening set	15878 Mar 22 15:06	29°  42'29	
	15872 Dec 31 13:52	30°  			15878 Mar 23 02:10	0° 	
direct	15873 Jan 21 23:00	26°  59'52		max. Earth dist.	15878 May 01 19:51	25°  08'25 2.68450 AU	
	15873 Feb 13 11:06	0° 					
asc. node	15873 Apr 09 19:04	24°  07'56		conjunction	15878 May 05 11:40	27°  027'41 -1°12'48	
	15873 Apr 19 19:39	0° 		minimum elong	15878 May 05 11:16	27°  027'03 1°13'27	
	15873 Jun 04 08:35	0° 			15878 May 09 11:40	0° 	
	15873 Jul 15 01:42	0° 		morning rise	15878 Jun 17 12:19	24°  154'31	
	15873 Aug 22 17:50	0° 			15878 Jun 25 10:15	0° 	
	15873 Sep 29 21:52	0° 			15878 Aug 10 11:49	0° 	
	15873 Nov 07 16:44	0° 			15878 Sep 24 10:57	0° 	
	15873 Dec 17 21:58	0° 			15878 Nov 07 06:34	0° 	
evening set	15873 Dec 26 22:04	6°  32'05		asc. node	15878 Dec 01 08:46	16°  1547'21	
	15874 Jan 29 01:28	0° 			15878 Dec 20 04:45	0° 	
desc. node	15874 Feb 03 05:16	3°  34'20			15879 Feb 01 07:10	0° 	
					15879 Mar 20 13:49	0° 	
conjunction	15874 Feb 20 01:35	15°  06'03 -0°10'28		retrograde	15879 May 17 07:37	19°  17'14	
minimum elong	15874 Feb 20 01:05	15°  05'12 0°10'10		min. Earth dist.	15879 Jun 12 12:31	14°  39'54 0.41177 AU	
behind sun begin	15874 Feb 19 08:19	14°  36'47		greatest brilliancy	15879 Jun 18 18:58	12°  340'29 -2.7m	
behind sun end	15874 Feb 20 17:50	15°  33'35		opposition	15879 Jun 20 03:38	12°  314'20 5°29'25	
	15874 Mar 14 06:56	0° 		direct	15879 Jul 21 03:11	6°  324'43	
max. Earth dist.	15874 Mar 17 04:12	1°  54'41 2.59502 AU		desc. node	15879 Sep 26 06:44	27°  314'15	
morning rise	15874 Apr 09 19:32	17°  52'29			15879 Oct 01 18:24	0° 	
	15874 Apr 29 11:29	0° 			15879 Nov 24 19:44	0° 	
	15874 Jun 16 11:55	0° 			15880 Jan 14 05:03	0° 	
	15874 Aug 05 16:50	0° 			15880 Mar 03 08:39	0° 	
	15874 Sep 29 10:26	0° 			15880 Apr 20 10:50	0° 	
retrograde	15874 Dec 20 21:35	26°  041'59		evening set	15880 Apr 25 14:40	3°  115'54	
opposition	15875 Jan 24 20:58	19°  028'59 -1°46'21		max. Earth dist.	15880 May 23 09:41	21°  102'46 2.64663 AU	
greatest brilliancy	15875 Jan 25 12:47	19°  014'57 -2.1m			15880 Jun 06 04:37	0° 	
min. Earth dist.	15875 Feb 02 10:06	16°  027'10 0.50295 AU					
asc. node	15875 Feb 26 01:28	10°  054'27		conjunction	15880 Jun 08 16:20	1°  037'34 -1°06'29	
direct	15875 Mar 04 04:11	10°  038'33		minimum elong	15880 Jun 08 17:20	1°  039'13 1°07'17	
	15875 May 02 16:41	0° 			15880 Jul 21 06:51	0° 	
	15875 Jun 18 14:11	0° 		morning rise	15880 Jul 24 06:15	2°  001'16	
	15875 Jul 29 12:14	0° 			15880 Sep 02 14:18	0° 	
	15875 Sep 07 02:00	0° 			15880 Oct 14 04:21	0° 	
	15875 Oct 17 02:39	0° 		asc. node	15880 Oct 18 02:17	2°  152'56	
	15875 Nov 27 12:49	0° 			15880 Nov 23 08:01	0° 	
desc. node	15875 Dec 22 00:11	17°  008'27			15881 Jan 01 15:47	0° 	
	15876 Jan 09 18:24	0° 			15881 Feb 10 05:09	0° 	
evening set	15876 Feb 13 09:42	23°  310'34			15881 Mar 23 20:51	0° 	
	15876 Feb 23 18:51	0° 			15881 May 11 19:32	0° 	
				retrograde	15881 Jul 05 10:12	16°  328'50	
conjunction	15876 Mar 31 08:43	23°  054'26 -0°53'33		min. Earth dist.	15881 Aug 06 03:15	9°  341'57 0.54913 AU	
minimum elong	15876 Mar 31 07:23	23°  039'17 0°53'47		opposition	15881 Aug 13 09:31	6°  355'50 0°00'40	
max. Earth dist.	15876 Apr 09 18:31	29°  054'29 2.66715 AU		greatest brilliancy	15880 Mar 12 19:12	5°  349'59 1.8m	
	15876 Apr 10 05:24	0° 		desc. node	15881 Aug 13 14:55	6°  350'41	
morning rise	15876 May 14 08:30	21°  339'51			15881 Sep 05 15:46	30°  300'00	
	15876 May 27 13:42	0° 		direct	15881 Sep 18 13:33	28°  355'11	
	15876 Jul 14 09:59	0° 			15881 Oct 02 01:27	0° 	
	15876 Aug 31 15:38	0° 			15881 Dec 18 15:19	0° 	
	15876 Oct 19 17:44	0° 			15882 Feb 10 20:13	0° 	
	15876 Dec 10 19:28	0° 			15882 Apr 01 18:24	0° 	
asc. node	15877 Jan 13 07:27	16°  1524'58			15882 May 18 22:52	0° 	
retrograde	15877 Mar 01 00:39	27°  152'21		evening set	15882 Jun 01 04:24	8°  1542'27	
opposition	15877 Mar 30 18:08	22°  152'06 5°13'03		max. Earth dist.	15882 Jun 18 19:52	20°  1531'59 2.55595 AU	
greatest brilliancy	15877 Mar 31 10:43	22°  1540'40 -2.9m			15882 Jul 02 16:37	0° 	
min. Earth dist.	15877 Apr 04 01:46	21°  1540'48 0.37567 AU					
direct	15877 Apr 30 16:38	17°  1521'06		conjunction	15882 Jul 19 07:01	11°  32'44 -0°30'35	
	15877 Jun 15 15:38	0° 		minimum elong	15882 Jul 19 08:25	11°  35'11 0°31'13	
	15877 Aug 05 21:16	0° 			15882 Aug 14 04:00	0° 	
	15877 Sep 19 22:45	0° 		asc. node	15882 Sep 04 17:56	15°  3048'58	
	15877 Nov 03 15:32	0° 		morning rise	15882 Sep 11 07:49	20°  3042'46	

	15882 Sep 23 16:30	0°♄			15888 Mar 08 16:29	0°♄
	15882 Nov 01 18:06	0°♍	asc. node		15888 Apr 26 07:30	27°♄24'09
	15882 Dec 10 01:27	0°♎			15888 Apr 30 09:28	0°♏
	15883 Jan 17 12:00	0°♐			15888 Jun 13 06:42	0°♑
	15883 Feb 26 04:02	0°♑			15888 Jul 23 11:34	0°♒
	15883 Apr 09 13:30	0°♒			15888 Aug 30 22:10	0°♓
	15883 May 27 21:50	0°♓			15888 Oct 07 21:27	0°♈
desc. node	15883 Jul 01 19:07	16°♑52'31			15888 Nov 15 10:26	0°♉
retrograde	15883 Aug 12 05:20	26°♑05'39	evening set		15888 Dec 02 13:14	13°♉01'03
min. Earth dist.	15883 Sep 18 05:48	17°♑33'22 0.65048 AU			15888 Dec 25 08:42	0°♊
opposition	15883 Sep 21 22:22	16°♑05'54 -3°08'33				
greatest brilliancy	15883 Sep 21 11:00	16°♑17'07 -1.4m	conjunction		15889 Feb 01 03:16	27°♊08'30 0°11'57
direct	15883 Oct 31 10:36	6°♑53'15	minimum elong		15889 Feb 01 04:01	27°♊09'48 0°12'28
	15884 Jan 15 15:37	0°♋	behind sun begin		15889 Jan 31 13:18	26°♊43'57
	15884 Mar 11 03:36	0°♌	behind sun end		15889 Feb 01 18:44	27°♊35'37
	15884 Apr 28 22:13	0°♍			15889 Feb 05 05:10	0°♎
	15884 Jun 12 21:53	0°♎	desc. node		15889 Feb 20 00:44	10°♎15'48
evening set	15884 Jul 14 16:40	22°♏27'57	max. Earth dist.		15889 Mar 05 18:11	19°♎37'11 2.55205 AU
asc. node	15884 Jul 22 10:02	28°♏04'47			15889 Mar 21 05:50	0°♏
	15884 Jul 25 01:01	0°♐	morning rise		15889 Mar 25 08:15	2°♏43'14
max. Earth dist.	15884 Jul 29 02:00	2°♐58'12 2.42309 AU			15889 May 06 11:16	0°♑
	15884 Sep 03 00:00	0°♒			15889 Jun 24 01:05	0°♒
					15889 Aug 15 02:12	0°♓
conjunction	15884 Sep 12 02:52	7°♒01'26 0°34'46			15889 Oct 17 00:05	0°♓
minimum elong	15884 Sep 12 00:03	6°♒56'00 0°34'46	retrograde		15889 Nov 30 08:23	9°♓27'33
	15884 Oct 11 12:20	0°♓	opposition		15890 Jan 06 01:01	1°♓33'23 -3°12'35
	15884 Nov 18 09:36	0°♈	greatest brilliancy		15890 Jan 07 00:35	1°♓11'33 -1.8m
morning rise	15884 Nov 22 23:40	3°♈37'57			15890 Jan 10 05:27	30°♈♄
	15884 Dec 26 13:10	0°♉	min. Earth dist.		15890 Jan 13 17:34	28°♄42'35 0.55648 AU
	15885 Feb 03 20:56	0°♊	direct		15890 Feb 14 21:26	22°♄03'52
	15885 Mar 17 06:58	0°♋	asc. node		15890 Mar 14 14:42	26°♄47'10
	15885 Apr 30 22:25	0°♌			15890 Mar 23 15:51	0°♏
desc. node	15885 May 18 16:47	11°♌08'00			15890 May 17 23:17	0°♐
	15885 Jun 20 06:31	0°♍			15890 Jun 29 19:18	0°♒
retrograde	15885 Sep 14 08:01	29°♋28'20			15890 Aug 08 09:09	0°♓
opposition	15885 Oct 25 02:50	19°♋45'05 -4°37'26			15890 Sep 16 04:04	0°♈
greatest brilliancy	15885 Oct 25 02:22	19°♋45'32 -1.2m			15890 Oct 25 13:06	0°♉
min. Earth dist.	15885 Oct 25 07:16	19°♋40'42 0.68724 AU			15890 Dec 05 08:58	0°♊
direct	15885 Dec 05 09:39	9°♋54'40	desc. node		15891 Jan 07 16:13	23°♊30'32
	15886 Feb 12 07:35	0°♌			15891 Jan 17 02:00	0°♋
	15886 Apr 07 17:17	0°♍	evening set		15891 Jan 27 06:53	6°♋58'07
	15886 May 24 02:27	0°♎			15891 Mar 02 17:09	0°♏
asc. node	15886 Jun 09 05:24	11°♏09'29				
	15886 Jul 05 10:36	0°♐	conjunction		15891 Mar 17 15:22	9°♏47'00 -0°39'34
	15886 Aug 14 05:15	0°♑	minimum elong		15891 Mar 17 14:02	9°♏44'50 0°39'37
evening set	15886 Sep 17 03:46	26°♑33'30	max. Earth dist.		15891 Apr 01 18:30	19°♏35'36 2.64542 AU
	15886 Sep 21 12:08	0°♒			15891 Apr 17 23:26	0°♑
	15886 Oct 29 06:45	0°♓	morning rise		15891 May 01 22:40	8°♑53'33
					15891 Jun 04 11:17	0°♒
conjunction	15886 Nov 29 17:01	24°♓44'07 1°05'03			15891 Jul 22 23:11	0°♓
minimum elong	15886 Nov 29 19:17	24°♓48'33 1°05'50			15891 Sep 10 18:48	0°♓
	15886 Dec 06 11:35	0°♔			15891 Nov 02 20:10	0°♑
	15887 Jan 14 22:46	0°♕			15892 Jan 20 09:47	0°♒
max. Earth dist.	15887 Jan 22 05:00	5°♕22'32 2.41418 AU	retrograde		15892 Jan 29 11:25	0°♒30'37
morning rise	15887 Feb 05 05:40	15°♕37'23	asc. node		15892 Jan 30 20:39	0°♒29'53
	15887 Feb 25 08:44	0°♎			15892 Feb 07 10:13	30°♒♑
desc. node	15887 Apr 05 09:54	26°♎46'09	opposition		15892 Mar 01 06:30	24°♑39'51 2°01'30
	15887 Apr 10 06:41	0°♏	greatest brilliancy		15892 Mar 01 19:55	24°♑29'22 -2.7m
	15887 May 27 07:44	0°♐	min. Earth dist.		15892 Mar 08 23:39	22°♑16'05 0.41690 AU
	15887 Jul 18 08:36	0°♑	direct		15892 Apr 04 11:59	17°♑39'52
	15887 Sep 29 15:39	0°♒			15892 May 19 07:59	0°♒
retrograde	15887 Oct 19 20:16	2°♒14'23			15892 Jul 08 04:16	0°♓
	15887 Nov 07 19:08	30°♒♑			15892 Aug 19 22:04	0°♈
opposition	15887 Nov 28 08:47	23°♑10'29 -4°47'44			15892 Sep 30 21:29	0°♉
greatest brilliancy	15887 Nov 29 01:09	22°♑54'35 -1.4m			15892 Nov 12 19:08	0°♊
min. Earth dist.	15887 Dec 02 11:14	21°♑34'58 0.65524 AU	desc. node		15892 Nov 24 14:17	8°♊04'46
direct	15888 Jan 08 22:12	13°♑08'15			15892 Dec 27 04:11	0°♋

	15893 Feb 11 00:07	0°♄			15898 Mar 07 01:25	0°♁	
evening set	15893 Mar 08 10:04	16°♄19'38			15898 Apr 19 12:34	0°♂	
	15893 Mar 29 20:54	0°♂			15898 Jun 12 00:42	0°♄	
				desc. node	15898 Jul 18 07:41	11°♄17'03	
conjunction	15893 Apr 22 01:15	14°♂42'40 -1°08'17		retrograde	15898 Jul 29 08:00	12°♄04'02	
minimum elong	15893 Apr 22 00:22	14°♂41'17 1°08'48		min. Earth dist.	15898 Sep 02 10:18	4°♄08'30 0.61786 AU	
max. Earth dist.	15893 Apr 23 05:52	15°♂28'01 2.68439 AU		opposition	15898 Sep 07 14:13	2°♄06'49 -2°10'04	
	15893 May 16 04:21	0°♂		greatest brilliancy	15898 Sep 07 03:10	2°♄17'41 -1.6m	
morning rise	15893 Jun 04 01:48	11°♂59'03			15898 Sep 13 01:43	30°♂♂	
	15893 Jul 02 09:03	0°♂		direct	15898 Oct 15 23:42	23°♂16'58	
	15893 Aug 18 02:01	0°♂			15898 Nov 21 13:53	0°♄	
	15893 Oct 03 03:53	0°♂			15899 Jan 26 16:53	0°♂	
	15893 Nov 17 17:18	0°♂			15899 Mar 20 04:23	0°♂	
asc. node	15893 Dec 17 23:57	19°♂55'14			15899 May 07 03:48	0°♂	
	15894 Jan 02 12:24	0°♂			15899 Jun 20 23:40	0°♂	
	15894 Feb 21 04:42	0°♂		evening set	15899 Jun 26 20:13	4°♂03'30	
retrograde	15894 Apr 20 18:10	18°♂54'11		max. Earth dist.	15899 Jul 10 13:56	13°♂42'35 2.47834 AU	
min. Earth dist.	15894 May 17 01:51	14°♂36'28 0.37347 AU			15899 Aug 02 05:22	0°♂	
opposition	15894 May 21 13:13	13°♂22'04 7°13'47		asc. node	15899 Aug 09 03:13	5°♂03'57	
greatest brilliancy	15894 May 20 13:01	13°♂38'53 -2.9m					
direct	15894 Jun 19 17:54	8°♂24'00		conjunction	15899 Aug 19 14:17	12°♂48'50 0°07'14	
	15894 Aug 25 10:28	0°♂		minimum elong	15899 Aug 19 13:48	12°♂47'56 0°06'54	
desc. node	15894 Oct 12 18:53	27°♂32'53		behind sun begin	15899 Aug 18 15:17	12°♂06'01	
	15894 Oct 16 20:42	0°♂		behind sun end	15899 Aug 20 12:20	13°♂29'53	
	15894 Dec 04 19:32	0°♂			15899 Sep 11 09:04	0°♂	
	15895 Jan 22 05:28	0°♄			15899 Oct 20 02:04	0°♂	
	15895 Mar 11 11:06	0°♂		morning rise	15899 Oct 22 22:35	2°♂14'32	
evening set	15895 Apr 13 01:50	20°♂26'34		greatest brilliancy	15899 Nov 23 04:32	26°♂54'09 1.2m	
	15895 Apr 28 04:48	0°♂			15899 Nov 27 02:35	0°♂	
max. Earth dist.	15895 May 15 12:39	11°♂01'36 2.66809 AU			15900 Jan 04 07:41	0°♂	
					15900 Feb 12 16:28	0°♂	
conjunction	15895 May 26 15:54	18°♂10'01 -1°12'11			15900 Mar 26 06:39	0°♂	
minimum elong	15895 May 26 16:22	18°♂10'47 1°12'58			15900 May 10 16:00	0°♄	
	15895 Jun 13 23:09	0°♂		desc. node	15900 Jun 05 09:26	15°♄18'13	
morning rise	15895 Jul 09 17:37	16°♂54'18			15900 Jul 03 13:19	0°♂	
	15895 Jul 29 08:48	0°♂		retrograde	15900 Sep 02 04:00	17°♂01'28	
	15895 Sep 11 04:58	0°♂		min. Earth dist.	15900 Oct 11 17:30	7°♂40'41 0.68082 AU	
	15895 Oct 23 10:57	0°♂		opposition	15900 Oct 13 01:46	7°♂08'47 -4°12'48	
asc. node	15895 Nov 04 21:46	9°♂02'30		greatest brilliancy	15900 Oct 12 19:39	7°♂14'50 -1.3m	
	15895 Dec 03 08:17	0°♂			15900 Nov 02 21:11	30°♂♄	
	15896 Jan 12 11:31	0°♂		direct	15900 Nov 22 19:44	27°♄30'06	
	15896 Feb 22 04:24	0°♂			15900 Dec 14 06:20	0°♂	
	15896 Apr 06 14:35	0°♂			15901 Feb 24 19:12	0°♂	
retrograde	15896 Jun 18 02:59	27°♂28'41			15901 Apr 17 01:36	0°♂	
min. Earth dist.	15896 Jul 17 10:42	21°♂33'24 0.49585 AU			15901 Jun 01 17:12	0°♂	
opposition	15896 Jul 25 16:06	18°♂33'08 1°52'52		asc. node	15901 Jun 26 21:38	17°♂39'45	
greatest brilliancy	15896 Jul 25 02:52	18°♂45'15 -2.2m			15901 Jul 13 21:56	0°♂	
direct	15896 Aug 28 23:35	11°♂15'57		evening set	15901 Aug 20 19:12	28°♂31'05	
desc. node	15896 Aug 30 01:51	11°♂16'25			15901 Aug 22 17:23	0°♂	
	15896 Nov 01 23:44	0°♂			15901 Sep 30 01:39	0°♂	
	15896 Dec 29 07:22	0°♄					
	15897 Feb 18 19:45	0°♂		conjunction	15901 Oct 30 00:21	23°♂46'25 1°06'19	
	15897 Apr 08 20:16	0°♂		minimum elong	15901 Oct 29 22:18	23°♂42'22 1°06'55	
evening set	15897 May 17 10:50	24°♂34'23			15901 Nov 06 20:34	0°♂	
	15897 May 25 18:57	0°♂		max. Earth dist.	15901 Dec 03 13:51	21°♂05'09 2.36414 AU	
max. Earth dist.	15897 Jun 07 17:16	8°♂30'29 2.59767 AU			15901 Dec 14 23:58	0°♂	
				morning rise	15902 Jan 11 17:23	21°♂15'50	
conjunction	15897 Jul 02 08:46	25°♂02'37 -0°48'21			15902 Jan 23 08:38	0°♂	
minimum elong	15897 Jul 02 10:18	25°♂05'14 0°49'05			15902 Mar 05 16:46	0°♂	
	15897 Jul 09 15:04	0°♂			15902 Apr 18 17:28	0°♄	
morning rise	15897 Aug 21 00:46	29°♂44'24		desc. node	15902 Apr 23 04:07	2°♄54'28	
	15897 Aug 21 09:27	0°♂			15902 Jun 05 12:27	0°♂	
asc. node	15897 Sep 21 13:01	22°♂44'31			15902 Jul 30 20:56	0°♂	
	15897 Oct 01 06:41	0°♂		retrograde	15902 Oct 06 13:35	19°♂28'45	
	15897 Nov 09 16:47	0°♂		opposition	15902 Nov 15 17:48	10°♂06'52 -4°53'30	
	15897 Dec 18 07:14	0°♂		greatest brilliancy	15902 Nov 16 03:39	9°♂57'14 -1.3m	
	15898 Jan 26 00:01	0°♂		min. Earth dist.	15902 Nov 18 07:34	9°♂06'28 0.67590 AU	

direct	15902 Dec 27 09:07	0° Π 05'51		15908 Apr 06 14:26	0° \mathcal{B}
	15903 Mar 23 13:41	0° \mathcal{E}			
	15903 May 11 12:39	0° \mathcal{Q}	conjunction	15908 Apr 09 09:19	1° \mathcal{B} 46'39 -1°00'03
asc. node	15903 May 14 21:21	2° \mathcal{Q} 14'14	minimum elong	15908 Apr 09 08:05	1° \mathcal{B} 44'41 1°00'24
	15903 Jun 23 13:35	0° \mathcal{M}	max. Earth dist.	15908 Apr 15 19:13	5° \mathcal{B} 51'37 2.67573 AU
	15903 Aug 02 12:20	0° \mathcal{L}	morning rise	15908 May 22 21:08	29° \mathcal{B} 21'13
	15903 Sep 09 20:13	0° \mathcal{M}		15908 May 23 21:41	0° Π
greatest brilliancy	15903 Sep 10 05:11	0° \mathcal{M} 17'43 1.2m		15908 Jul 10 11:17	0° \mathcal{E}
	15903 Oct 17 16:33	0° \mathcal{A}		15908 Aug 27 01:35	0° \mathcal{Q}
evening set	15903 Nov 06 02:04	15° \mathcal{A} 15'56		15908 Oct 13 19:38	0° \mathcal{M}
	15903 Nov 25 01:01	0° \mathcal{Z}		15908 Dec 01 13:24	0° \mathcal{L}
	15904 Jan 03 17:29	0° \approx	asc. node	15909 Jan 04 15:13	19° \mathcal{L} 41'13
				15909 Jan 24 13:11	0° \mathcal{M}
conjunction	15904 Jan 12 06:05	6° \approx 16'16 0°35'38	retrograde	15909 Mar 20 16:20	15° \mathcal{M} 51'34
minimum elong	15904 Jan 12 08:31	6° \approx 20'42 0°36'17	opposition	15909 Apr 19 02:56	11° \mathcal{M} 01'05 6°40'37
	15904 Feb 14 08:17	0° \mathcal{H}	greatest brilliancy	15909 Apr 19 08:02	10° \mathcal{M} 57'41 -3.0m
max. Earth dist.	15904 Feb 22 11:22	5° \mathcal{H} 40'49 2.50192 AU	min. Earth dist.	15909 Apr 20 08:43	10° \mathcal{M} 41'16 0.36476 AU
morning rise	15904 Mar 09 06:21	16° \mathcal{H} 32'57	direct	15909 May 18 17:53	6° \mathcal{M} 02'42
desc. node	15904 Mar 09 18:21	16° \mathcal{H} 53'25		15909 Jul 26 00:05	0° \mathcal{A}
	15904 Mar 29 05:46	0° \mathcal{Y}		15909 Sep 12 22:51	0° \mathcal{Z}
	15904 May 14 15:05	0° \mathcal{B}		15909 Oct 29 05:55	0° \approx
	15904 Jul 03 01:30	0° Π	desc. node	15909 Oct 30 06:04	0° \approx 39'13
	15904 Aug 27 05:59	0° \mathcal{E}		15909 Dec 14 16:39	0° \mathcal{H}
retrograde	15904 Nov 13 11:32	24° \mathcal{E} 13'47		15910 Jan 30 19:30	0° \mathcal{Y}
opposition	15904 Dec 21 12:08	15° \mathcal{E} 47'24 -4°06'31		15910 Mar 19 09:12	0° \mathcal{B}
greatest brilliancy	15904 Dec 22 11:45	15° \mathcal{E} 24'57 -1.6m	evening set	15910 Mar 31 12:34	7° \mathcal{B} 38'50
min. Earth dist.	15904 Dec 27 21:43	13° \mathcal{E} 21'33 0.60244 AU		15910 May 05 21:12	0° Π
direct	15905 Jan 31 07:46	5° \mathcal{E} 56'46	max. Earth dist.	15910 May 07 19:01	1° Π 12'44 2.68105 AU
asc. node	15905 Apr 01 02:15	23° \mathcal{E} 49'02			
	15905 Apr 12 16:02	0° \mathcal{Q}	conjunction	15910 May 14 03:26	5° Π 15'01 -1°13'46
	15905 May 30 02:56	0° \mathcal{M}	minimum elong	15910 May 14 03:21	5° Π 14'52 1°14'28
	15905 Jul 10 09:27	0° \mathcal{L}		15910 Jun 21 17:55	0° \mathcal{E}
	15905 Aug 18 07:45	0° \mathcal{M}	morning rise	15910 Jun 26 09:10	3° \mathcal{E} 00'03
	15905 Sep 25 16:05	0° \mathcal{A}		15910 Aug 06 13:19	0° \mathcal{Q}
	15905 Nov 03 14:52	0° \mathcal{Z}		15910 Sep 20 01:51	0° \mathcal{M}
	15905 Dec 14 00:06	0° \approx		15910 Nov 02 05:54	0° \mathcal{L}
evening set	15906 Jan 09 00:40	18° \approx 37'47	asc. node	15910 Nov 22 14:01	14° \mathcal{L} 26'09
desc. node	15906 Jan 25 09:43	0° \mathcal{H} 04'27		15910 Dec 14 06:29	0° \mathcal{M}
	15906 Jan 25 07:09	0° \mathcal{H}		15911 Jan 24 21:37	0° \mathcal{A}
				15911 Mar 09 07:53	0° \mathcal{Z}
conjunction	15906 Mar 02 18:13	24° \mathcal{H} 46'41 -0°22'04		15911 May 05 03:14	0° \approx
minimum elong	15906 Mar 02 17:16	24° \mathcal{H} 45'06 0°21'54	retrograde	15911 May 31 02:21	4° \approx 38'08
	15906 Mar 10 14:45	0° \mathcal{Y}		15911 Jun 25 23:13	30° \mathcal{R} \mathcal{Z}
max. Earth dist.	15906 Mar 24 01:54	8° \mathcal{Y} 52'01 2.61522 AU	min. Earth dist.	15911 Jun 27 04:58	29° \mathcal{Z} 35'50 0.44020 AU
morning rise	15906 Apr 19 01:10	25° \mathcal{Y} 41'37	greatest brilliancy	15911 Jul 04 08:08	27° \mathcal{Z} 11'07 -2.5m
	15906 Apr 25 18:38	0° \mathcal{B}	opposition	15911 Jul 05 12:01	26° \mathcal{Z} 47'27 4°09'14
	15906 Jun 12 12:59	0° Π	direct	15911 Aug 06 14:52	20° \mathcal{Z} 24'51
	15906 Jul 31 23:34	0° \mathcal{E}	desc. node	15911 Sep 17 13:51	29° \mathcal{Z} 39'58
	15906 Sep 22 08:20	0° \mathcal{Q}		15911 Sep 18 10:34	0° \approx
	15906 Nov 24 20:06	0° \mathcal{M}		15911 Nov 18 10:53	0° \mathcal{H}
retrograde	15907 Jan 03 23:11	8° \mathcal{M} 07'38		15912 Jan 09 12:41	0° \mathcal{Y}
opposition	15907 Feb 06 19:50	1° \mathcal{M} 21'38 -0°37'51		15912 Feb 28 08:54	0° \mathcal{B}
greatest brilliancy	15907 Feb 07 02:00	1° \mathcal{M} 16'20 -2.3m		15912 Apr 16 18:17	0° Π
	15907 Feb 10 18:23	30° \mathcal{R} \mathcal{Q}	evening set	15912 May 04 10:18	11° Π 11'43
min. Earth dist.	15907 Feb 15 11:33	28° \mathcal{Q} 23'45 0.47141 AU	max. Earth dist.	15912 May 29 19:43	27° Π 33'12 2.63147 AU
asc. node	15907 Feb 17 10:21	27° \mathcal{Q} 45'32		15912 Jun 02 13:48	0° \mathcal{E}
direct	15907 Mar 15 21:52	23° \mathcal{Q} 02'51			
	15907 Apr 17 21:57	0° \mathcal{M}	conjunction	15912 Jun 17 23:25	10° \mathcal{E} 07'32 -1°01'12
	15907 Jun 11 04:45	0° \mathcal{L}	minimum elong	15912 Jun 18 00:41	10° \mathcal{E} 09'37 1°02'00
	15907 Jul 23 14:35	0° \mathcal{M}		15912 Jul 17 14:03	0° \mathcal{Q}
	15907 Sep 01 21:34	0° \mathcal{A}	morning rise	15912 Aug 03 17:20	11° \mathcal{Q} 45'55
	15907 Oct 12 10:00	0° \mathcal{Z}		15912 Aug 29 16:55	0° \mathcal{M}
	15907 Nov 23 05:47	0° \approx	asc. node	15912 Oct 09 07:47	29° \mathcal{M} 28'42
desc. node	15907 Dec 13 04:34	13° \approx 53'38		15912 Oct 10 00:42	0° \mathcal{L}
	15908 Jan 05 19:11	0° \mathcal{H}		15912 Nov 18 21:24	0° \mathcal{M}
	15908 Feb 20 01:14	0° \mathcal{Y}		15912 Dec 27 21:50	0° \mathcal{A}
evening set	15908 Feb 23 10:50	2° \mathcal{Y} 12'56		15913 Feb 05 01:21	0° \mathcal{Z}

	15913 Mar 17 21:21	0°♊		asc. node	15918 May 31 12:22	7°♏57'51	
	15913 May 02 17:23	0°♋			15918 Jul 01 10:24	0°♎	
retrograde	15913 Jul 15 11:31	26°♋36'02			15918 Aug 10 06:21	0°♍	
desc. node	15913 Aug 04 21:13	23°♋39'08			15918 Sep 17 13:19	0°♌	
min. Earth dist.	15913 Aug 17 10:54	19°♋22'39	0.57600 AU	evening set	15918 Oct 05 17:27	14°♌25'32	
opposition	15913 Aug 23 23:59	16°♋50'40	-0°53'23		15918 Oct 25 08:12	0°♌	
greatest brilliancy	15913 Aug 23 18:06	16°♋56'22	-1.8m		15918 Dec 02 13:44	0°♋	
direct	15913 Sep 30 00:46	8°♋30'07					
	15913 Dec 11 06:12	0°♌		conjunction	15918 Dec 17 08:20	11°♋21'47	0°56'53
	15914 Feb 06 01:40	0°♍		minimum elong	15918 Dec 17 11:37	11°♋28'04	0°57'39
	15914 Mar 28 18:23	0°♎			15919 Jan 11 01:57	0°♊	
	15914 May 15 05:14	0°♏		max. Earth dist.	15919 Feb 05 05:57	18°♊24'26	2.44637 AU
evening set	15914 Jun 11 01:30	17°♏46'42		morning rise	15919 Feb 18 18:25	28°♊03'09	
max. Earth dist.	15914 Jun 26 23:06	28°♏35'42	2.53011 AU		15919 Feb 21 12:39	0°♋	
	15914 Jun 29 00:06	0°♌		desc. node	15919 Mar 27 13:09	23°♋26'02	
					15919 Apr 06 08:49	0°♌	
conjunction	15914 Jul 30 19:15	22°♌20'41	-0°18'05		15919 May 23 01:37	0°♍	
minimum elong	15914 Jul 30 20:14	22°♌22'28	0°18'37		15919 Jul 12 20:12	0°♎	
	15914 Aug 10 10:02	0°♎			15919 Sep 12 15:56	0°♏	
asc. node	15914 Aug 26 22:35	12°♎06'32		retrograde	15919 Oct 29 09:11	10°♏17'13	
	15914 Sep 19 19:47	0°♍		opposition	15919 Dec 07 10:50	1°♏25'11	-4°37'35
morning rise	15914 Sep 25 23:20	4°♍40'31		greatest brilliancy	15919 Dec 08 06:23	1°♏06'18	-1.4m
	15914 Oct 28 18:21	0°♌			15919 Dec 11 03:00	30°♎♎	
	15914 Dec 05 22:59	0°♌		min. Earth dist.	15919 Dec 12 09:21	29°♎30'49	0.63942 AU
	15915 Jan 13 06:40	0°♋		direct	15920 Jan 17 20:12	21°♎24'41	
	15915 Feb 21 18:20	0°♊			15920 Feb 27 00:04	0°♏	
	15915 Apr 04 17:22	0°♋		asc. node	15920 Apr 17 16:21	25°♏37'46	
	15915 May 21 12:19	0°♌			15920 Apr 24 20:20	0°♌	
desc. node	15915 Jun 22 23:42	17°♌30'06			15920 Jun 08 15:47	0°♎	
	15915 Jul 24 18:31	0°♍			15920 Jul 19 04:01	0°♍	
retrograde	15915 Aug 20 22:43	4°♍12'22			15920 Aug 26 17:45	0°♌	
	15915 Sep 15 05:57	30°♎♎			15920 Oct 03 19:17	0°♌	
min. Earth dist.	15915 Sep 27 22:04	25°♌21'34	0.66412 AU		15920 Nov 11 10:31	0°♋	
opposition	15915 Sep 30 18:33	24°♌13'50	-3°36'16	evening set	15920 Dec 17 19:16	27°♋18'25	
greatest brilliancy	15915 Sep 30 08:22	24°♌23'54	-1.3m		15920 Dec 21 11:16	0°♊	
direct	15915 Nov 09 18:25	14°♌50'42			15921 Feb 01 10:14	0°♋	
	15916 Jan 07 14:53	0°♍		desc. node	15921 Feb 11 02:24	6°♋42'42	
	15916 Mar 06 07:50	0°♎					
	15916 Apr 24 20:30	0°♏		conjunction	15921 Feb 13 04:33	8°♋09'05	-0°01'20
	15916 Jun 09 01:36	0°♌		minimum elong	15921 Feb 13 04:27	8°♋08'54	0°00'57
asc. node	15916 Jul 13 14:05	24°♌25'16		behind sun begin	15921 Feb 12 06:22	7°♋30'55	
	15916 Jul 21 05:42	0°♎		behind sun end	15921 Feb 14 02:31	8°♋46'50	
evening set	15916 Jul 27 16:46	4°♎45'28		max. Earth dist.	15921 Mar 13 11:22	27°♋19'03	2.57682 AU
max. Earth dist.	15916 Aug 15 23:18	19°♎10'46	2.39317 AU		15921 Mar 17 12:01	0°♌	
	15916 Aug 30 03:48	0°♍		morning rise	15921 Apr 04 07:42	11°♌44'25	
					15921 May 02 15:35	0°♍	
conjunction	15916 Sep 28 22:40	23°♍09'58	0°49'28		15921 Jun 19 20:05	0°♎	
minimum elong	15916 Sep 28 18:56	23°♍02'37	0°49'40		15921 Aug 09 16:08	0°♏	
	15916 Oct 07 14:54	0°♌			15921 Oct 05 18:38	0°♌	
	15916 Nov 14 11:22	0°♌		retrograde	15921 Dec 12 14:24	19°♌26'14	
morning rise	15916 Dec 12 09:35	22°♌01'57		opposition	15922 Jan 17 08:48	11°♌53'36	-2°27'23
	15916 Dec 22 14:28	0°♋		greatest brilliancy	15922 Jan 18 05:02	11°♌35'12	-2.0m
	15917 Jan 30 21:35	0°♊		min. Earth dist.	15922 Jan 25 13:56	8°♌54'43	0.52764 AU
	15917 Mar 13 05:24	0°♋		direct	15922 Feb 25 10:21	2°♌42'50	
	15917 Apr 26 12:24	0°♌		asc. node	15922 Mar 05 22:31	3°♌12'41	
desc. node	15917 May 09 21:32	8°♌33'36			15922 May 10 09:15	0°♎	
	15917 Jun 14 13:37	0°♍			15922 Jun 24 02:39	0°♍	
	15917 Aug 16 18:12	0°♎			15922 Aug 03 08:24	0°♌	
retrograde	15917 Sep 22 22:21	7°♎02'11			15922 Sep 11 12:31	0°♌	
	15917 Oct 26 21:45	30°♎♎			15922 Oct 21 04:41	0°♋	
opposition	15917 Nov 02 13:15	27°♎25'39	-4°46'51		15922 Dec 01 06:44	0°♊	
greatest brilliancy	15917 Nov 02 16:21	27°♎22'35	-1.2m	desc. node	15922 Dec 29 20:20	20°♊06'37	
min. Earth dist.	15917 Nov 03 14:10	27°♎01'08	0.68615 AU		15923 Jan 13 05:09	0°♋	
direct	15917 Dec 14 00:23	17°♎30'15		evening set	15923 Feb 07 05:31	16°♋53'57	
	15918 Feb 03 16:55	0°♎			15923 Feb 26 23:59	0°♌	
	15918 Apr 02 17:40	0°♏					
	15918 May 19 20:48	0°♌		conjunction	15923 Mar 27 03:41	18°♌20'01	-0°48'12

minimum elong	15923 Mar 27 02:18	18° Υ 17'48	0°48'22	retrograde	15928 Jun 29 05:23	9° X 05'09	
max. Earth dist.	15923 Apr 08 02:38	26° Υ 01'27	2.65847 AU	min. Earth dist.	15928 Jul 29 20:30	2° X 40'42	0.52585 AU
	15923 Apr 14 07:39	0° B			15928 Aug 05 23:52	30° R \approx	
morning rise	15923 May 10 15:38	16° B 44'16		opposition	15928 Aug 06 14:25	29° \approx 46'18	0°45'11
	15923 May 31 16:47	0° II		greatest brilliancy	15928 Aug 06 09:20	29° \approx 51'05	-2.0m
	15923 Jul 18 18:58	0° C		desc. node	15928 Aug 21 08:54	24° \approx 50'38	
	15923 Sep 05 15:13	0° Ω		direct	15928 Sep 10 23:37	22° \approx 03'43	
	15923 Oct 26 02:30	0° M			15928 Oct 20 08:52	0° X	
	15923 Dec 21 15:28	0° $\underline{\text{A}}$			15928 Dec 23 12:56	0° Υ	
asc. node	15924 Jan 22 04:21	11° $\underline{\text{A}}$ 57'24			15929 Feb 14 11:27	0° B	
retrograde	15924 Feb 16 15:44	15° $\underline{\text{A}}$ 42'14			15929 Apr 05 00:32	0° II	
opposition	15924 Mar 18 04:27	10° $\underline{\text{A}}$ 22'22	3°50'23		15929 May 22 03:18	0° C	
greatest brilliancy	15924 Mar 18 23:20	10° $\underline{\text{A}}$ 08'38	-2.8m	evening set	15929 May 26 17:18	2° C 59'55	
min. Earth dist.	15924 Mar 24 10:03	8° $\underline{\text{A}}$ 34'04	0.39135 AU	max. Earth dist.	15929 Jun 14 21:19	15° C 42'24	2.57543 AU
direct	15924 Apr 19 13:31	4° $\underline{\text{A}}$ 13'26			15929 Jul 05 23:11	0° Ω	
	15924 Jun 27 23:28	0° M					
	15924 Aug 12 21:18	0° X		conjunction	15929 Jul 12 17:51	4° Ω 40'15	-0°38'43
	15924 Sep 25 06:12	0° Z		minimum elong	15929 Jul 12 19:23	4° Ω 42'53	0°39'24
	15924 Nov 08 00:00	0° \approx			15929 Aug 17 14:37	0° M	
desc. node	15924 Nov 15 20:23	5° \approx 18'10		morning rise	15929 Sep 02 15:20	11° M 39'27	
	15924 Dec 22 22:44	0° X		asc. node	15929 Sep 12 17:19	19° M 05'41	
	15925 Feb 07 03:24	0° Υ			15929 Sep 27 07:47	0° $\underline{\text{A}}$	
evening set	15925 Mar 17 14:28	24° Υ 32'19			15929 Nov 05 13:29	0° M	
	15925 Mar 26 05:01	0° B			15929 Dec 13 23:58	0° X	
max. Earth dist.	15925 Apr 29 04:56	21° B 32'10	2.68549 AU		15930 Jan 21 12:36	0° Z	
					15930 Mar 02 06:54	0° \approx	
conjunction	15925 Apr 30 17:53	22° B 30'41	-1°11'26		15930 Apr 13 23:25	0° X	
minimum elong	15925 Apr 30 17:16	22° B 29'43	1°12'01		15930 Jun 02 16:31	0° Υ	
	15925 May 12 13:25	0° II		desc. node	15930 Jul 09 14:08	15° Υ 52'01	
morning rise	15925 Jun 12 17:08	19° II 49'22		retrograde	15930 Aug 07 08:51	20° Υ 41'39	
	15925 Jun 28 14:42	0° C		min. Earth dist.	15930 Sep 12 13:14	12° Υ 24'52	0.63716 AU
	15925 Aug 13 23:15	0° Ω		opposition	15930 Sep 16 21:16	10° Υ 42'13	-2°46'21
	15925 Sep 28 09:51	0° M		greatest brilliancy	15930 Sep 16 09:28	10° Υ 53'52	-1.5m
	15925 Nov 11 22:11	0° $\underline{\text{A}}$		direct	15930 Oct 25 21:41	1° Υ 39'05	
asc. node	15925 Dec 09 06:53	18° $\underline{\text{A}}$ 40'05			15931 Jan 20 16:37	0° B	
	15925 Dec 25 21:05	0° M			15931 Mar 15 19:41	0° II	
	15926 Feb 08 19:44	0° X			15931 May 03 07:01	0° C	
	15926 Apr 04 15:28	0° Z			15931 Jun 17 06:27	0° Ω	
retrograde	15926 May 07 08:03	7° Z 00'44		evening set	15931 Jul 08 04:02	14° Ω 37'41	
min. Earth dist.	15926 Jun 02 05:53	2° Z 37'56	0.39178 AU	max. Earth dist.	15931 Jul 21 13:40	24° Ω 14'09	2.44798 AU
greatest brilliancy	15926 Jun 07 11:17	1° Z 04'13	-2.8m		15931 Jul 29 11:58	0° M	
opposition	15926 Jun 08 19:17	0° Z 40'05	6°25'20	asc. node	15931 Jul 31 09:08	1° M 22'35	
	15926 Jun 11 01:01	30° R X					
direct	15926 Jul 08 21:48	25° X 16'31		conjunction	15931 Sep 02 20:35	26° M 23'41	0°22'56
	15926 Aug 06 02:05	0° Z		minimum elong	15931 Sep 02 18:49	26° M 20'20	0°22'46
desc. node	15926 Oct 04 01:04	27° Z 09'07			15931 Sep 07 13:59	0° $\underline{\text{A}}$	
	15926 Oct 09 04:07	0° \approx			15931 Oct 16 04:43	0° M	
	15926 Nov 29 11:45	0° X		morning rise	15931 Nov 10 14:26	20° M 04'10	
	15927 Jan 17 21:35	0° Υ			15931 Nov 23 03:21	0° X	
	15927 Mar 07 14:51	0° B			15931 Dec 31 06:57	0° Z	
evening set	15927 Apr 21 19:18	28° B 15'28			15932 Feb 08 13:48	0° \approx	
	15927 Apr 24 13:27	0° II			15932 Mar 20 23:39	0° X	
max. Earth dist.	15927 May 21 16:46	17° II 17'57	2.65719 AU		15932 May 04 19:04	0° Υ	
				desc. node	15932 May 26 12:48	13° Υ 23'48	
conjunction	15927 Jun 04 14:11	26° II 16'12	-1°09'26		15932 Jun 25 03:10	0° B	
minimum elong	15927 Jun 04 14:58	26° II 17'28	1°10'13	retrograde	15932 Sep 09 17:01	24° B 41'09	
	15927 Jun 10 07:55	0° C		opposition	15932 Oct 20 13:26	14° B 53'21	-4°28'49
morning rise	15927 Jul 19 09:52	25° C 50'18		greatest brilliancy	15932 Oct 20 10:20	14° B 56'25	-1.2m
	15927 Jul 25 14:10	0° Ω		min. Earth dist.	15932 Oct 20 01:43	15° B 04'55	0.68575 AU
	15927 Sep 07 03:56	0° M		direct	15932 Nov 30 14:39	5° B 07'42	
	15927 Oct 19 01:36	0° $\underline{\text{A}}$			15933 Feb 17 13:50	0° II	
asc. node	15927 Oct 27 01:47	5° $\underline{\text{A}}$ 51'44			15933 Apr 11 13:47	0° C	
	15927 Nov 28 13:05	0° M			15933 May 27 16:50	0° Ω	
	15928 Jan 07 04:47	0° X		asc. node	15933 Jun 17 03:48	14° Ω 13'30	
	15928 Feb 16 03:25	0° Z			15933 Jul 09 00:56	0° M	
	15928 Mar 29 14:28	0° \approx			15933 Aug 17 21:00	0° $\underline{\text{A}}$	
	15928 May 21 16:52	0° X		evening set	15933 Sep 05 04:26	14° $\underline{\text{A}}$ 13'48	

	15933 Sep 25 04:54	0°♌			15938 Sep 15 04:57	0°♏		
	15933 Nov 01 23:34	0°♏			15938 Nov 10 03:36	0°♐		
				retrograde	15939 Jan 18 06:04	20°♐42'56		
conjunction	15933 Nov 16 23:48	11°♏52'42	1°07'59	asc. node	15939 Feb 07 17:36	18°♐04'51		
minimum elong	15933 Nov 17 00:25	11°♏53'55	1°08'42	opposition	15939 Feb 20 00:16	14°♐26'30	0°46'55	
	15933 Dec 10 03:06	0°♑		greatest brilliancy	15939 Feb 20 06:14	14°♐21'36	-2.5m	
max. Earth dist.	15934 Jan 09 02:32	22°♑57'33	2.38920 AU	min. Earth dist.	15939 Feb 28 09:16	11°♐42'39	0.44061 AU	
	15934 Jan 18 11:50	0°≈		direct	15939 Mar 27 14:23	6°♐48'08		
morning rise	15934 Jan 26 16:03	6°≈03'57			15939 May 31 13:55	0°♑		
	15934 Feb 28 19:21	0°♒			15939 Jul 15 21:34	0°♌		
desc. node	15934 Apr 13 06:37	29°♒44'05			15939 Aug 26 07:07	0°♏		
	15934 Apr 13 16:15	0°♑			15939 Oct 06 11:53	0°♑		
	15934 May 30 21:47	0°♒			15939 Nov 17 19:32	0°≈		
	15934 Jul 22 22:22	0°♑		desc. node	15939 Dec 03 09:53	10°≈46'54		
retrograde	15934 Oct 14 14:48	27°♑13'56			15939 Dec 31 18:01	0°♒		
opposition	15934 Nov 23 11:00	18°♑01'38	-4°51'45		15940 Feb 15 06:20	0°♑		
greatest brilliancy	15934 Nov 24 00:35	17°♑48'24	-1.3m	evening set	15940 Mar 03 02:13	10°♑52'48		
min. Earth dist.	15934 Nov 26 21:18	16°♑41'26	0.66579 AU		15940 Apr 01 22:59	0°♒		
direct	15935 Jan 04 01:47	7°♑59'10						
	15935 Mar 15 18:00	0°♑		conjunction	15940 Apr 17 05:33	9°♒42'51	-1°05'22	
asc. node	15935 May 05 04:42	29°♑40'28		minimum elong	15940 Apr 17 04:30	9°♒41'11	1°05'48	
	15935 May 05 16:43	0°♏		max. Earth dist.	15940 Apr 20 18:31	11°♒57'38	2.68152 AU	
	15935 Jun 18 06:01	0°♐			15940 May 19 05:52	0°♑		
	15935 Jul 28 09:06	0°♑		morning rise	15940 May 30 09:40	7°♑03'44		
	15935 Sep 04 18:46	0°♌			15940 Jul 05 14:13	0°♑		
	15935 Oct 12 16:33	0°♏			15940 Aug 21 16:08	0°♏		
	15935 Nov 20 02:50	0°♑			15940 Oct 07 09:49	0°♐		
evening set	15935 Nov 22 13:55	1°♑53'33			15940 Nov 23 02:46	0°♑		
	15935 Dec 29 21:17	0°≈		asc. node	15940 Dec 25 21:18	20°♑39'39		
					15941 Jan 10 05:31	0°♌		
conjunction	15936 Jan 25 00:46	18°≈59'35	0°22'02		15941 Mar 11 07:58	0°♏		
minimum elong	15936 Jan 25 02:13	19°≈02'11	0°22'36	retrograde	15941 Apr 08 06:04	4°♏54'41		
	15936 Feb 09 13:48	0°♒		min. Earth dist.	15941 May 05 23:24	0°♏24'30	0.36523 AU	
desc. node	15936 Feb 28 21:49	13°♒24'25			15941 May 07 12:12	30°♒♌		
max. Earth dist.	15936 Mar 01 09:14	14°♒25'02	2.53039 AU	opposition	15941 May 08 02:06	29°♌50'44	7°21'37	
morning rise	15936 Mar 19 04:43	26°♒28'32		greatest brilliancy	15941 May 07 13:56	29°♌58'51	-3.0m	
	15936 Mar 24 11:19	0°♑		direct	15941 Jun 06 01:00	25°♌01'57		
	15936 May 09 16:40	0°♒			15941 Jul 04 10:33	0°♏		
	15936 Jun 27 12:39	0°♑			15941 Sep 03 08:22	0°♑		
	15936 Aug 19 14:05	0°♑		desc. node	15941 Oct 20 13:37	28°♑54'37		
	15936 Oct 29 22:17	0°♏			15941 Oct 22 07:21	0°≈		
retrograde	15936 Nov 23 08:34	3°♏12'19			15941 Dec 08 23:07	0°♒		
	15936 Dec 16 00:01	30°♒♑			15942 Jan 25 17:28	0°♑		
opposition	15936 Dec 30 16:05	25°♑02'48	-3°38'22		15942 Mar 14 15:27	0°♒		
greatest brilliancy	15936 Dec 31 16:13	24°♑40'07	-1.7m	evening set	15942 Apr 08 06:25	15°♒27'51		
min. Earth dist.	15937 Jan 06 19:17	22°♑22'04	0.57816 AU		15942 May 01 06:38	0°♑		
direct	15937 Feb 09 00:15	15°♑21'50		max. Earth dist.	15942 May 12 19:31	7°♑19'53	2.67498 AU	
asc. node	15937 Mar 22 11:14	25°♑01'39						
	15937 Apr 02 11:51	0°♏		conjunction	15942 May 21 19:18	13°♑04'15	-1°13'23	
	15937 May 23 09:00	0°♐		minimum elong	15942 May 21 19:31	13°♑04'37	1°14'08	
	15937 Jul 04 11:22	0°♑			15942 Jun 17 02:25	0°♑		
	15937 Aug 12 17:45	0°♌		morning rise	15942 Jul 04 10:25	11°♑17'44		
	15937 Sep 20 07:10	0°♏			15942 Aug 01 17:03	0°♏		
	15937 Oct 29 10:32	0°♑			15942 Sep 14 20:47	0°♐		
	15937 Dec 09 00:09	0°≈			15942 Oct 27 12:36	0°♑		
desc. node	15938 Jan 15 12:56	26°≈35'13		asc. node	15942 Nov 12 20:38	11°♑45'22		
evening set	15938 Jan 20 05:50	29°≈50'31			15942 Dec 07 20:56	0°♌		
	15938 Jan 20 11:20	0°♒			15943 Jan 17 13:20	0°♏		
	15938 Mar 05 21:43	0°♑			15943 Feb 28 02:15	0°♑		
					15943 Apr 16 00:59	0°≈		
conjunction	15938 Mar 11 23:13	3°♑59'57	-0°32'42	retrograde	15943 Jun 11 20:21	18°≈34'33		
minimum elong	15938 Mar 11 21:59	3°♑57'56	0°32'39	min. Earth dist.	15943 Jul 10 02:17	13°≈03'33	0.47093 AU	
max. Earth dist.	15938 Mar 29 17:18	15°♑36'01	2.63298 AU	opposition	15943 Jul 18 12:39	10°≈04'16	2°48'51	
	15938 Apr 21 01:51	0°♒		greatest brilliancy	15943 Jul 17 16:53	10°≈21'50	-2.3m	
morning rise	15938 Apr 27 01:30	3°♒49'14		direct	15943 Aug 20 22:11	3°≈10'00		
	15938 Jun 07 15:22	0°♑		desc. node	15943 Sep 07 20:04	5°≈04'59		
	15938 Jul 26 11:28	0°♑			15943 Nov 09 21:42	0°♒		

	15944 Jan 03 12:47	0°♄	conjunction	15948 Oct 16 00:06	10°♄29'25	1°00'58
	15944 Feb 23 06:37	0°♂	minimum elong	15948 Oct 15 20:41	10°♄22'38	1°01'24
	15944 Apr 12 00:47	0°♂		15948 Nov 09 13:43	0°♂	
evening set	15944 May 12 08:13	19°♂14'22		15948 Dec 17 16:28	0°♂	
	15944 May 28 22:50	0°♂	morning rise	15948 Dec 29 23:22	9°♂30'41	
max. Earth dist.	15944 Jun 04 11:06	4°♂15'46 2.61386 AU		15949 Jan 25 23:19	0°♂	
				15949 Mar 08 05:37	0°♂	
conjunction	15944 Jun 26 13:16	18°♂55'43 -0°54'22		15949 Apr 21 06:41	0°♄	
minimum elong	15944 Jun 26 14:43	18°♂58'09 0°55'09	desc. node	15949 Apr 30 01:05	5°♄42'00	
	15944 Jul 12 21:55	0°♂		15949 Jun 08 09:59	0°♂	
morning rise	15944 Aug 13 18:31	22°♂06'49		15949 Aug 04 20:05	0°♂	
	15944 Aug 24 21:01	0°♄	retrograde	15949 Sep 30 16:12	14°♂38'14	
asc. node	15944 Sep 29 12:58	25°♄57'04	opposition	15949 Nov 10 01:30	5°♂09'31 -4°52'14	
	15944 Oct 04 23:50	0°♂	greatest brilliancy	15949 Nov 10 08:22	5°♂02'47 -1.2m	
	15944 Nov 13 14:59	0°♄	min. Earth dist.	15949 Nov 11 22:57	4°♂24'54 0.68179 AU	
	15944 Dec 22 09:36	0°♂		15949 Nov 23 20:46	30°♄	
	15945 Jan 30 06:02	0°♂	direct	15949 Dec 21 15:06	25°♂10'27	
	15945 Mar 11 12:32	0°♂		15950 Jan 20 18:36	0°♂	
	15945 Apr 24 15:35	0°♂		15950 Mar 27 06:42	0°♂	
	15945 Jun 22 01:04	0°♄		15950 May 14 11:19	0°♂	
retrograde	15945 Jul 24 02:47	6°♄06'42	asc. node	15950 May 21 19:24	4°♂56'24	
desc. node	15945 Jul 26 02:09	6°♄05'06		15950 Jun 26 08:33	0°♄	
	15945 Aug 23 06:24	30°♄		15950 Aug 05 07:09	0°♂	
min. Earth dist.	15945 Aug 27 06:48	28°♂28'55 0.60024 AU		15950 Sep 12 15:00	0°♄	
opposition	15945 Sep 02 01:31	26°♂13'16 -1°40'40		15950 Oct 20 10:26	0°♂	
greatest brilliancy	15945 Sep 01 15:50	26°♂22'45 -1.7m	evening set	15950 Oct 23 11:08	2°♂23'48	
direct	15945 Oct 09 20:39	17°♂35'35	greatest brilliancy	15950 Nov 15 02:22	20°♂12'05 1.1m	
	15945 Nov 30 19:37	0°♄		15950 Nov 27 16:54	0°♂	
	15946 Jan 30 22:59	0°♂				
	15946 Mar 23 15:52	0°♂	conjunction	15951 Jan 01 11:18	26°♂26'05 0°45'26	
	15946 May 10 10:50	0°♂	minimum elong	15951 Jan 01 14:21	26°♂31'48 0°46'09	
evening set	15946 Jun 20 08:43	27°♂16'59		15951 Jan 06 06:16	0°♂	
	15946 Jun 24 07:38	0°♂	max. Earth dist.	15951 Feb 15 17:51	29°♂18'02 2.47753 AU	
max. Earth dist.	15946 Jul 04 19:46	7°♂17'20 2.50214 AU		15951 Feb 16 17:40	0°♂	
	15946 Aug 05 16:17	0°♄	morning rise	15951 Mar 02 03:45	9°♂22'18	
			desc. node	15951 Mar 17 15:35	19°♂59'36	
conjunction	15946 Aug 11 03:14	3°♄58'51 -0°04'07		15951 Apr 01 12:52	0°♄	
minimum elong	15946 Aug 11 03:29	3°♄59'19 0°04'32		15951 May 17 23:14	0°♂	
behind sun begin	15946 Aug 10 04:47	3°♄17'48		15951 Jul 06 19:26	0°♂	
behind sun end	15946 Aug 12 02:12	4°♄40'53		15951 Sep 01 21:44	0°♂	
asc. node	15946 Aug 17 02:43	8°♄22'20	retrograde	15951 Nov 07 08:58	18°♂37'12	
	15946 Sep 14 23:39	0°♂	opposition	15951 Dec 15 21:10	9°♂58'49 -4°21'43	
morning rise	15946 Oct 11 01:39	20°♂03'26	greatest brilliancy	15951 Dec 16 19:17	9°♂37'37 -1.5m	
	15946 Oct 23 19:38	0°♄	min. Earth dist.	15951 Dec 21 15:19	7°♂46'27 0.62010 AU	
	15946 Nov 30 22:00	0°♂	direct	15952 Jan 25 23:35	0°♂02'34	
	15947 Jan 08 03:47	0°♂	asc. node	15952 Apr 07 23:07	24°♂33'40	
	15947 Feb 16 12:30	0°♂		15952 Apr 17 11:51	0°♂	
	15947 Mar 30 04:03	0°♂		15952 Jun 02 16:42	0°♄	
	15947 May 14 22:17	0°♄		15952 Jul 13 15:40	0°♂	
desc. node	15947 Jun 13 05:02	16°♄53'10		15952 Aug 21 10:21	0°♄	
	15947 Jul 10 05:48	0°♂		15952 Sep 28 15:15	0°♂	
retrograde	15947 Aug 28 13:20	12°♂05'55		15952 Nov 06 09:52	0°♂	
min. Earth dist.	15947 Oct 06 10:01	2°♂58'01 0.67459 AU	evening set	15952 Dec 16 14:02	0°♂	
opposition	15947 Oct 08 10:22	2°♂10'08 -3°59'28		15952 Dec 30 18:13	10°♂16'10	
greatest brilliancy	15947 Oct 08 02:10	2°♂18'16 -1.3m		15953 Jan 27 15:56	0°♂	
	15947 Oct 13 23:26	30°♄	desc. node	15953 Feb 01 06:46	3°♂12'15	
direct	15947 Nov 17 20:24	22°♄37'59				
	15947 Dec 26 14:04	0°♂	conjunction	15953 Feb 23 09:13	18°♂19'23 -0°13'42	
	15948 Feb 29 03:25	0°♂	minimum elong	15953 Feb 23 08:34	18°♂18'17 0°13'27	
	15948 Apr 19 16:23	0°♂	behind sun begin	15953 Feb 22 21:02	17°♂58'47	
	15948 Jun 04 05:01	0°♂	behind sun end	15953 Feb 23 20:07	18°♂37'46	
asc. node	15948 Jul 03 20:19	20°♂50'44		15953 Mar 12 19:28	0°♄	
	15948 Jul 16 10:43	0°♄	max. Earth dist.	15953 Mar 19 16:09	4°♄32'40 2.59896 AU	
evening set	15948 Aug 09 17:44	18°♄05'45	morning rise	15953 Apr 12 19:38	20°♄18'37	
	15948 Aug 25 08:20	0°♂		15953 Apr 27 21:48	0°♂	
max. Earth dist.	15948 Sep 12 19:52	14°♂19'53 2.36774 AU		15953 Jun 14 19:00	0°♂	
	15948 Oct 02 18:15	0°♄		15953 Aug 03 17:24	0°♂	

	15953 Sep 26 15:09	0°♏		15958 Sep 28 05:03	0°♐	
	15953 Dec 19 19:06	0°♑		15958 Nov 22 14:18	0°♒	
retrograde	15953 Dec 24 18:24	0°♑08'57		15959 Jan 12 08:28	0°♓	
	15953 Dec 29 15:20	30°♑♏		15959 Mar 02 16:09	0°♈	
opposition	15954 Jan 28 12:20	23°♏00'49 -1°30'00		15959 Apr 19 20:57	0°♉	
greatest brilliancy	15954 Jan 29 02:00	22°♏48'44 -2.2m	evening set	15959 Apr 29 13:31	6°♉07'43	
min. Earth dist.	15954 Feb 06 01:39	19°♏59'35 0.49679 AU	max. Earth dist.	15959 May 26 23:27	23°♉41'17 2.64403 AU	
asc. node	15954 Feb 24 06:57	15°♏10'18		15959 Jun 05 16:45	0°♊	
direct	15954 Mar 07 13:08	14°♏15'37				
	15954 Apr 29 04:53	0°♑	conjunction	15959 Jun 12 16:34	4°♊34'15 -1°05'14	
	15954 Jun 16 13:59	0°♒	minimum elong	15959 Jun 12 17:38	4°♊36'00 1°06'01	
	15954 Jul 27 20:38	0°♓		15959 Jul 20 20:32	0°♋	
	15954 Sep 05 13:30	0°♈	morning rise	15959 Jul 28 11:09	5°♋10'31	
	15954 Oct 15 15:12	0°♉		15959 Sep 02 05:01	0°♑	
	15954 Nov 26 01:25	0°♐		15959 Oct 13 19:33	0°♒	
desc. node	15954 Dec 20 01:01	16°♐48'28	asc. node	15959 Oct 17 07:02	2°♒33'40	
	15955 Jan 08 06:34	0°♑		15959 Nov 22 23:00	0°♓	
evening set	15955 Feb 16 15:07	26°♑17'56		15960 Jan 01 05:35	0°♈	
	15955 Feb 22 06:22	0°♒		15960 Feb 09 15:48	0°♉	
				15960 Mar 21 23:22	0°♐	
conjunction	15955 Apr 04 08:28	26°♒35'48 -0°55'36		15960 May 08 14:12	0°♑	
minimum elong	15955 Apr 04 07:09	26°♒33'41 0°55'52	retrograde	15960 Jul 08 16:50	19°♑49'33	
	15955 Apr 09 16:11	0°♈	min. Earth dist.	15960 Aug 09 15:37	12°♑56'46 0.55445 AU	
max. Earth dist.	15955 Apr 13 05:49	2°♈16'41 2.66910 AU	desc. node	15960 Aug 11 15:33	12°♑11'21	
morning rise	15955 May 18 05:13	24°♈28'13	opposition	15960 Aug 16 17:54	10°♑13'44 -0°14'52	
	15955 May 26 23:33	0°♉	greatest brilliancy	15960 Aug 16 16:09	10°♑15'24 -1.9m	
	15955 Jul 13 18:09	0°♊	direct	15960 Sep 22 01:24	2°♑08'55	
	15955 Aug 30 20:21	0°♋		15960 Dec 15 22:26	0°♒	
	15955 Oct 18 14:28	0°♌		15961 Feb 08 21:05	0°♓	
	15955 Dec 08 16:30	0°♍		15961 Mar 31 01:57	0°♈	
asc. node	15956 Jan 12 12:35	17°♍58'19		15961 May 17 10:21	0°♉	
	15956 Feb 14 15:55	0°♎	evening set	15961 Jun 04 07:21	11°♍45'41	
retrograde	15956 Mar 05 22:48	2°♎30'31	max. Earth dist.	15961 Jun 21 13:36	23°♍21'35 2.55131 AU	
	15956 Mar 26 02:14	30°♎♍		15961 Jul 01 07:00	0°♋	
opposition	15956 Apr 04 14:05	27°♍33'29 5°36'23				
greatest brilliancy	15956 Apr 05 05:35	27°♍22'51 -2.9m	conjunction	15961 Jul 22 16:38	14°♋53'37 -0°27'27	
min. Earth dist.	15956 Apr 08 08:46	26°♍31'22 0.37274 AU	minimum elong	15961 Jul 22 17:57	14°♋55'56 0°28'03	
direct	15956 May 05 07:12	22°♍09'47		15961 Aug 12 20:32	0°♑	
	15956 Jun 09 11:14	0°♎	asc. node	15961 Sep 02 22:10	15°♑24'36	
	15956 Aug 03 05:30	0°♈	morning rise	15961 Sep 15 06:22	24°♑36'16	
	15956 Sep 17 22:08	0°♉		15961 Sep 22 10:31	0°♊	
	15956 Nov 01 20:35	0°♐		15961 Oct 31 12:48	0°♋	
desc. node	15956 Nov 06 01:05	2°♐46'41		15961 Dec 08 19:55	0°♈	
	15956 Dec 17 12:36	0°♑		15962 Jan 16 05:07	0°♉	
	15957 Feb 02 04:14	0°♒		15962 Feb 24 18:08	0°♐	
	15957 Mar 21 11:59	0°♓		15962 Apr 07 21:18	0°♑	
evening set	15957 Mar 25 14:44	2°♓35'58		15962 May 25 11:42	0°♒	
max. Earth dist.	15957 May 04 03:10	27°♓35'38 2.68415 AU	desc. node	15962 Jun 29 18:57	17°♓48'21	
	15957 May 07 22:13	0°♉	retrograde	15962 Aug 15 05:16	29°♓01'15	
			min. Earth dist.	15962 Sep 21 09:38	20°♓24'58 0.65331 AU	
conjunction	15957 May 08 09:36	0°♉18'02 -1°13'20	opposition	15962 Sep 24 21:58	19°♓01'29 -3°17'37	
minimum elong	15957 May 08 09:16	0°♉17'32 1°13'58	greatest brilliancy	15962 Sep 24 10:36	19°♓12'45 -1.4m	
morning rise	15957 Jun 20 10:49	27°♉47'18	direct	15962 Nov 03 11:32	9°♓46'45	
	15957 Jun 23 21:15	0°♊		15963 Jan 12 15:35	0°♈	
	15957 Aug 08 22:44	0°♋		15963 Mar 10 04:31	0°♉	
	15957 Sep 22 21:00	0°♌		15963 Apr 28 07:17	0°♊	
	15957 Nov 05 14:40	0°♍		15963 Jun 12 11:24	0°♋	
asc. node	15957 Nov 29 12:28	16°♍42'54	evening set	15963 Jul 19 09:30	26°♍06'59	
	15957 Dec 18 08:53	0°♎	asc. node	15963 Jul 21 12:58	27°♍40'32	
	15958 Jan 30 02:10	0°♈		15963 Jul 24 17:25	0°♑	
	15958 Mar 17 00:18	0°♉	max. Earth dist.	15963 Aug 03 12:23	7°♑12'16 2.41725 AU	
retrograde	15958 May 21 05:57	23°♑39'39		15963 Sep 02 18:20	0°♒	
min. Earth dist.	15958 Jun 16 14:33	18°♑58'34 0.41681 AU				
greatest brilliancy	15958 Jun 23 02:25	16°♑53'13 -2.6m	conjunction	15963 Sep 17 12:55	11°♑23'34 0°38'37	
opposition	15958 Jun 24 10:23	16°♑27'23 5°11'36	minimum elong	15963 Sep 17 09:50	11°♑17'35 0°38'39	
direct	15958 Jul 25 13:42	10°♑31'40		15963 Oct 11 07:44	0°♓	
desc. node	15958 Sep 24 07:45	28°♑08'01		15963 Nov 18 05:12	0°♈	

morning rise	15963 Nov 29 00:32	8° ♂ 33'09		opposition	15969 Jan 09 10:04	4° Ω 50'01	-3°01'08
	15963 Dec 26 08:03	0° ♂		greatest brilliancy	15969 Jan 10 08:47	4° Ω 28'59	-1.9m
	15964 Feb 03 13:59	0° \approx		min. Earth dist.	15969 Jan 17 04:11	1° Ω 57'59	0.55121 AU
	15964 Mar 15 20:43	0° ♂			15969 Jan 22 20:17	30° ♂	
	15964 Apr 29 06:06	0° ♂		direct	15969 Feb 18 02:26	25° ♂ 23'22	
desc. node	15964 May 16 17:34	11° ♂ 03'11		asc. node	15969 Mar 12 19:12	28° ♂ 38'35	
	15964 Jun 17 22:52	0° ♂			15969 Mar 17 10:19	0° Ω	
	15964 Aug 28 05:06	0° Π			15969 May 15 19:08	0° ♂	
retrograde	15964 Sep 17 06:13	2° Π 15'30			15969 Jun 28 04:24	0° ♂	
	15964 Oct 06 01:46	30° ♂			15969 Aug 06 22:53	0° ♂	
opposition	15964 Oct 27 23:48	22° ♂ 33'32	-4°40'58		15969 Sep 14 19:21	0° ♂	
greatest brilliancy	15964 Oct 28 00:04	22° ♂ 33'17	-1.2m		15969 Oct 24 04:23	0° ♂	
min. Earth dist.	15964 Oct 28 08:22	22° ♂ 25'06	0.68723 AU		15969 Dec 03 23:22	0° \approx	
direct	15964 Dec 08 06:38	12° ♂ 42'01		desc. node	15970 Jan 05 16:29	23° \approx 07'47	
	15965 Feb 09 05:06	0° Π			15970 Jan 15 15:04	0° ♂	
	15965 Apr 05 20:00	0° ♂		evening set	15970 Jan 30 17:07	10° ♂ 17'31	
	15965 May 22 13:54	0° Ω			15970 Mar 01 04:50	0° ♂	
asc. node	15965 Jun 07 10:09	10° Ω 54'28					
	15965 Jul 04 02:18	0° ♂		conjunction	15970 Mar 20 18:31	12° ♂ 49'16	-0°42'13
	15965 Aug 12 23:13	0° ♂		minimum elong	15970 Mar 20 17:09	12° ♂ 47'03	0°42'18
	15965 Sep 20 07:03	0° ♂		max. Earth dist.	15970 Apr 04 05:14	22° ♂ 10'23	2.64816 AU
evening set	15965 Sep 22 00:23	1° ♂ 21'51			15970 Apr 16 09:45	0° ♂	
	15965 Oct 28 01:41	0° ♂		morning rise	15970 May 04 21:26	11° ♂ 46'20	
					15970 Jun 02 19:57	0° Π	
conjunction	15965 Dec 04 13:04	29° ♂ 27'35	1°03'33		15970 Jul 21 04:54	0° ♂	
minimum elong	15965 Dec 04 15:46	29° ♂ 32'51	1°04'18		15970 Sep 08 17:54	0° Ω	
	15965 Dec 05 05:46	0° ♂			15970 Oct 30 23:56	0° ♂	
	15966 Jan 13 15:30	0° \approx			15971 Jan 05 07:09	0° ♂	
max. Earth dist.	15966 Jan 26 06:42	9° \approx 20'31	2.42057 AU	asc. node	15971 Jan 29 01:05	4° \approx 29'05	
morning rise	15966 Feb 09 05:18	19° \approx 28'36		retrograde	15971 Feb 03 02:56	4° \approx 38'38	
	15966 Feb 23 23:17	0° ♂			15971 Mar 03 00:34	30° ♂	
desc. node	15966 Apr 03 10:22	26° ♂ 27'18		opposition	15971 Mar 06 15:24	28° ♂ 54'17	2°27'08
	15966 Apr 08 18:00	0° ♂		greatest brilliancy	15971 Mar 07 06:57	28° ♂ 42'20	-2.7m
	15966 May 25 13:32	0° ♂		min. Earth dist.	15971 Mar 14 04:29	26° ♂ 35'49	0.41157 AU
	15966 Jul 16 00:39	0° Π		direct	15971 Apr 09 12:19	22° ♂ 04'18	
	15966 Sep 21 10:07	0° ♂			15971 May 14 14:11	0° ♂	
retrograde	15966 Oct 22 21:50	5° ♂ 05'55			15971 Jul 06 16:23	0° ♂	
	15966 Nov 20 16:37	30° ♂			15971 Aug 19 00:05	0° ♂	
opposition	15966 Dec 01 08:15	26° Π 04'21	-4°45'13		15971 Sep 30 04:40	0° ♂	
greatest brilliancy	15966 Dec 02 01:19	25° Π 47'47	-1.4m		15971 Nov 12 04:28	0° \approx	
min. Earth dist.	15966 Dec 05 14:36	24° Π 25'01	0.65249 AU	desc. node	15971 Nov 23 15:53	7° \approx 51'09	
direct	15967 Jan 11 20:28	16° Π 02'06			15971 Dec 26 14:14	0° ♂	
	15967 Mar 06 06:55	0° ♂			15972 Feb 10 10:18	0° ♂	
asc. node	15967 Apr 25 13:28	27° ♂ 30'31		evening set	15972 Mar 11 11:08	19° ♂ 16'49	
	15967 Apr 29 12:42	0° Ω			15972 Mar 28 07:00	0° ♂	
	15967 Jun 12 19:20	0° ♂					
	15967 Jul 23 04:09	0° ♂		conjunction	15972 Apr 24 23:35	17° ♂ 34'11	-1°09'26
	15967 Aug 30 16:18	0° ♂		minimum elong	15972 Apr 24 22:46	17° ♂ 32'54	1°09'56
	15967 Oct 07 15:41	0° ♂		max. Earth dist.	15972 Apr 25 17:29	18° ♂ 02'32	2.68474 AU
	15967 Nov 15 03:49	0° ♂			15972 May 14 14:21	0° Π	
evening set	15967 Dec 07 21:37	17° ♂ 16'18		morning rise	15972 Jun 06 23:28	14° Π 50'09	
	15967 Dec 25 00:35	0° \approx			15972 Jun 30 18:48	0° ♂	
	15968 Feb 04 19:10	0° ♂			15972 Aug 16 10:51	0° Ω	
					15972 Oct 01 10:29	0° ♂	
conjunction	15968 Feb 05 19:46	0° ♂ 43'03	0°08'23		15972 Nov 15 19:09	0° ♂	
minimum elong	15968 Feb 05 20:18	0° ♂ 43'58	0°08'49	asc. node	15972 Dec 16 04:47	20° ♂ 10'12	
behind sun begin	15968 Feb 05 00:47	0° ♂ 09'51			15972 Dec 31 03:17	0° ♂	
behind sun end	15968 Feb 06 15:48	1° ♂ 18'02			15973 Feb 17 05:36	0° ♂	
desc. node	15968 Feb 18 23:36	9° ♂ 50'58		retrograde	15973 Apr 25 07:28	23° ♂ 48'33	
max. Earth dist.	15968 Mar 08 14:08	22° ♂ 31'46	2.55708 AU	min. Earth dist.	15973 May 21 12:28	19° ♂ 30'47	0.37614 AU
	15968 Mar 19 17:41	0° ♂		greatest brilliancy	15973 May 25 07:50	18° ♂ 26'33	-2.9m
morning rise	15968 Mar 28 13:43	5° ♂ 51'33		opposition	15973 May 26 09:52	18° ♂ 08'07	7°07'06
	15968 May 04 20:23	0° ♂		direct	15973 Jun 24 19:31	13° ♂ 06'16	
	15968 Jun 22 05:36	0° Π			15973 Aug 21 07:22	0° ♂	
	15968 Aug 12 19:42	0° ♂		desc. node	15973 Oct 10 19:39	27° ♂ 49'55	
	15968 Oct 12 08:20	0° Ω			15973 Oct 14 11:28	0° \approx	
retrograde	15968 Dec 03 22:32	12° Ω 40'19			15973 Dec 02 21:07	0° ♂	

	15974 Jan 20 11:33	0°♄		behind sun end	15978 Aug 24 04:56	17°♎10'59	
	15974 Mar 09 19:35	0°♄			15978 Sep 10 03:55	0°♎	
evening set	15974 Apr 16 00:05	23°♄17'32			15978 Oct 18 21:28	0°♎	
	15974 Apr 26 14:54	0°♄		morning rise	15978 Oct 27 16:37	6°♎55'03	
max. Earth dist.	15974 May 17 22:20	13°♄33'32	2.66617 AU	greatest brilliancy	15978 Nov 10 13:33	17°♎52'05	1.2m
					15978 Nov 25 21:41	0°♎	
conjunction	15974 May 29 14:49	21°♄03'44	-1°11'38		15979 Jan 03 01:34	0°♎	
minimum elong	15974 May 29 15:23	21°♄04'38	1°12'23		15979 Feb 11 08:04	0°♎	
	15974 Jun 12 10:30	0°♄			15979 Mar 24 18:14	0°♎	
morning rise	15974 Jul 12 19:51	19°♄57'04			15979 May 08 19:25	0°♄	
	15974 Jul 27 21:03	0°♄		desc. node	15979 Jun 03 09:07	15°♄25'43	
	15974 Sep 09 17:44	0°♎			15979 Jun 30 12:03	0°♄	
	15974 Oct 21 23:48	0°♎		retrograde	15979 Sep 05 02:35	19°♄50'39	
asc. node	15974 Nov 03 01:07	8°♎45'23		opposition	15979 Oct 15 23:26	9°♄58'47	-4°18'20
	15974 Dec 01 20:30	0°♎		min. Earth dist.	15979 Oct 14 19:17	10°♄26'39	0.68213 AU
	15975 Jan 10 21:44	0°♎		greatest brilliancy	15979 Oct 15 17:52	10°♄04'19	-1.3m
	15975 Feb 20 09:08	0°♄		direct	15979 Nov 25 18:02	0°♄18'47	
	15975 Apr 05 01:23	0°♎			15980 Feb 22 09:44	0°♄	
	15975 Jun 10 01:31	0°♎			15980 Apr 14 08:07	0°♄	
retrograde	15975 Jun 22 14:14	1°♎06'04			15980 May 30 06:20	0°♄	
	15975 Jul 04 18:40	30°♎		asc. node	15980 Jun 24 02:36	17°♄20'50	
min. Earth dist.	15975 Jul 22 03:10	25°♎04'54	0.50156 AU		15980 Jul 11 14:51	0°♎	
opposition	15975 Jul 30 06:14	22°♎05'46	1°34'53		15980 Aug 20 12:34	0°♎	
greatest brilliancy	15975 Jul 29 19:12	22°♎15'56	-2.2m	evening set	15980 Aug 24 00:31	2°♎41'43	
desc. node	15975 Aug 29 02:47	14°♎51'57			15980 Sep 27 21:56	0°♎	
direct	15975 Sep 02 19:18	14°♎43'22					
	15975 Oct 30 05:44	0°♎		conjunction	15980 Nov 02 20:54	28°♎32'44	1°07'22
	15975 Dec 28 02:25	0°♄		minimum elong	15980 Nov 02 19:27	28°♎29'53	1°07'58
	15976 Feb 18 00:14	0°♄			15980 Nov 04 16:51	0°♎	
	15976 Apr 07 05:18	0°♄			15980 Dec 12 19:18	0°♄	
evening set	15976 May 20 10:32	27°♄29'36		max. Earth dist.	15980 Dec 13 13:27	0°♄35'18	2.36763 AU
	15976 May 24 06:57	0°♄		morning rise	15981 Jan 15 03:40	25°♄33'00	
max. Earth dist.	15976 Jun 10 08:40	11°♄13'55	2.59348 AU		15981 Jan 21 02:03	0°♎	
					15981 Mar 03 07:19	0°♎	
conjunction	15976 Jul 05 13:30	28°♄11'11	-0°45'57		15981 Apr 16 03:48	0°♄	
minimum elong	15976 Jul 05 15:02	28°♄13'49	0°46'40	desc. node	15981 Apr 20 03:22	2°♄37'13	
	15976 Jul 08 05:14	0°♄			15981 Jun 02 14:56	0°♄	
	15976 Aug 20 01:06	0°♎			15981 Jul 26 22:14	0°♄	
morning rise	15976 Aug 24 15:41	3°♎18'50		retrograde	15981 Oct 08 13:36	22°♄17'52	
asc. node	15976 Sep 19 16:44	22°♎21'02		opposition	15981 Nov 17 16:00	12°♄57'46	-4°53'30
	15976 Sep 29 23:15	0°♎		greatest brilliancy	15981 Nov 18 02:39	12°♄47'20	-1.3m
	15976 Nov 08 09:41	0°♎		min. Earth dist.	15981 Nov 20 09:46	11°♄53'23	0.67428 AU
	15976 Dec 16 23:43	0°♎		direct	15981 Dec 29 06:28	2°♄56'10	
	15977 Jan 24 14:59	0°♄			15982 Mar 20 03:39	0°♄	
	15977 Mar 05 12:44	0°♎			15982 May 08 20:24	0°♄	
	15977 Apr 17 14:42	0°♎		asc. node	15982 May 12 02:20	2°♄08'30	
	15977 Jun 08 09:40	0°♄			15982 Jun 21 03:53	0°♎	
desc. node	15977 Jul 16 09:07	13°♄28'20			15982 Jul 31 05:49	0°♎	
retrograde	15977 Aug 01 08:32	15°♄04'35		greatest brilliancy	15982 Aug 23 23:12	18°♄26'41	1.1m
min. Earth dist.	15977 Sep 05 15:46	7°♄04'28	0.62184 AU		15982 Sep 07 15:09	0°♎	
opposition	15977 Sep 10 15:23	5°♄06'42	-2°21'17		15982 Oct 15 11:45	0°♎	
greatest brilliancy	15977 Sep 10 03:47	5°♄18'08	-1.6m	evening set	15982 Nov 09 18:27	19°♄52'13	
	15977 Sep 24 20:42	30°♎			15982 Nov 22 19:37	0°♄	
direct	15977 Oct 19 02:59	26°♎14'19			15983 Jan 01 10:45	0°♎	
	15977 Nov 14 18:23	0°♄					
	15978 Jan 24 08:21	0°♄		conjunction	15983 Jan 15 05:46	10°♎08'01	0°32'16
	15978 Mar 18 09:31	0°♄		minimum elong	15983 Jan 15 07:59	10°♎12'02	0°32'54
	15978 May 05 14:59	0°♄			15983 Feb 11 23:30	0°♎	
	15978 Jun 19 14:35	0°♄		max. Earth dist.	15983 Feb 24 14:13	8°♎48'32	2.50740 AU
evening set	15978 Jun 30 03:54	7°♄19'07		desc. node	15983 Mar 07 19:05	16°♎31'02	
max. Earth dist.	15978 Jul 13 15:03	16°♄48'43	2.47260 AU	morning rise	15983 Mar 12 16:05	19°♎50'25	
	15978 Jul 31 22:44	0°♎			15983 Mar 27 18:19	0°♄	
asc. node	15978 Aug 07 08:22	4°♎40'57			15983 May 12 23:49	0°♄	
					15983 Jul 01 03:17	0°♄	
conjunction	15978 Aug 23 10:56	16°♎37'18	0°11'05		15983 Aug 24 11:10	0°♄	
minimum elong	15978 Aug 23 10:09	16°♎35'51	0°10'49	retrograde	15983 Nov 16 19:07	27°♄15'04	
behind sun begin	15978 Aug 22 15:22	16°♎00'45		opposition	15983 Dec 24 15:57	18°♄51'45	-3°59'11

greatest brilliancy	15983 Dec 25 15:35	18° \mathfrak{D} 29'16	-1.6m	evening set	15989 Apr 02 10:21	10° \mathfrak{C} 28'48	
min. Earth dist.	15983 Dec 31 04:23	16° \mathfrak{D} 23'11	0.59810 AU		15989 May 03 07:47	0° \mathfrak{I}	
direct	15984 Feb 03 09:04	9° \mathfrak{D} 02'20		max. Earth dist.	15989 May 09 02:32	3° \mathfrak{I} 40'14	2.68014 AU
asc. node	15984 Mar 29 07:51	24° \mathfrak{D} 34'17					
	15984 Apr 08 21:59	0° \mathfrak{Q}		conjunction	15989 May 16 00:34	8° \mathfrak{I} 04'15	-1°13'54
	15984 May 27 09:13	0° \mathfrak{P}		minimum elong	15989 May 16 00:34	8° \mathfrak{I} 04'15	1°14'35
	15984 Jul 07 22:55	0° \mathfrak{L}			15989 Jun 19 05:19	0° \mathfrak{D}	
	15984 Aug 15 23:58	0° \mathfrak{M}		morning rise	15989 Jun 28 07:58	5° \mathfrak{D} 54'07	
	15984 Sep 23 09:01	0° \mathfrak{A}			15989 Aug 04 01:07	0° \mathfrak{Q}	
	15984 Nov 01 07:22	0° \mathfrak{Z}			15989 Sep 17 13:21	0° \mathfrak{P}	
	15984 Dec 11 15:30	0° \mathfrak{W}			15989 Oct 30 16:07	0° \mathfrak{L}	
evening set	15985 Jan 11 16:47	22° \mathfrak{W} 11'48		asc. node	15989 Nov 19 18:56	14° \mathfrak{L} 18'34	
desc. node	15985 Jan 22 10:13	29° \mathfrak{W} 41'09			15989 Dec 11 14:00	0° \mathfrak{M}	
	15985 Jan 22 21:05	0° \mathfrak{H}			15990 Jan 21 23:23	0° \mathfrak{A}	
					15990 Mar 05 18:28	0° \mathfrak{Z}	
conjunction	15985 Mar 05 00:10	27° \mathfrak{H} 55'37	-0°25'08		15990 Apr 27 00:08	0° \mathfrak{W}	
minimum elong	15985 Mar 04 23:07	27° \mathfrak{H} 53'52	0°25'02	retrograde	15990 Jun 02 22:54	8° \mathfrak{W} 49'46	
	15985 Mar 08 03:05	0° \mathfrak{Y}		min. Earth dist.	15990 Jun 30 04:49	3° \mathfrak{W} 42'38	0.44612 AU
max. Earth dist.	15985 Mar 25 12:20	11° \mathfrak{Y} 26'58	2.61878 AU	opposition	15990 Jul 08 14:26	0° \mathfrak{W} 50'46	3°49'23
morning rise	15985 Apr 21 00:54	28° \mathfrak{Y} 36'30		greatest brilliancy	15990 Jul 07 12:24	1° \mathfrak{W} 13'03	-2.5m
	15985 Apr 23 05:04	0° \mathfrak{C}			15990 Jul 11 02:30	30° \mathfrak{R} \mathfrak{Z}	
	15985 Jun 09 20:43	0° \mathfrak{I}		direct	15990 Aug 10 00:41	24° \mathfrak{Z} 21'40	
	15985 Jul 29 02:11	0° \mathfrak{D}			15990 Sep 10 19:17	0° \mathfrak{W}	
	15985 Sep 18 21:57	0° \mathfrak{Q}		desc. node	15990 Sep 14 14:22	1° \mathfrak{W} 15'54	
	15985 Nov 18 09:42	0° \mathfrak{P}			15990 Nov 14 21:06	0° \mathfrak{H}	
retrograde	15986 Jan 06 23:43	11° \mathfrak{P} 47'45			15991 Jan 06 13:24	0° \mathfrak{Y}	
opposition	15986 Feb 09 16:36	5° \mathfrak{P} 06'50	-0°17'49		15991 Feb 25 15:16	0° \mathfrak{C}	
greatest brilliancy	15986 Feb 09 19:36	5° \mathfrak{P} 04'17	-2.4m		15991 Apr 15 03:49	0° \mathfrak{I}	
asc. node	15986 Feb 14 14:39	3° \mathfrak{P} 25'47		evening set	15991 May 07 08:49	14° \mathfrak{I} 03'55	
min. Earth dist.	15986 Feb 18 07:46	2° \mathfrak{P} 11'05	0.46564 AU	max. Earth dist.	15991 Jun 01 10:50	0° \mathfrak{D} 14'58	2.62840 AU
	15986 Feb 25 11:57	30° \mathfrak{R} \mathfrak{Q}			15991 Jun 01 01:39	0° \mathfrak{D}	
direct	15986 Mar 18 11:14	26° \mathfrak{Q} 55'08					
	15986 Apr 08 21:20	0° \mathfrak{P}		conjunction	15991 Jun 21 00:12	13° \mathfrak{D} 06'46	-0°59'32
	15986 Jun 07 18:59	0° \mathfrak{L}		minimum elong	15991 Jun 21 01:31	13° \mathfrak{D} 08'58	1°00'18
	15986 Jul 20 19:55	0° \mathfrak{M}			15991 Jul 16 03:44	0° \mathfrak{Q}	
	15986 Aug 30 07:53	0° \mathfrak{A}		morning rise	15991 Aug 07 00:10	15° \mathfrak{Q} 01'00	
	15986 Oct 09 22:00	0° \mathfrak{Z}			15991 Aug 28 08:03	0° \mathfrak{P}	
	15986 Nov 20 18:01	0° \mathfrak{W}		asc. node	15991 Oct 07 12:29	29° \mathfrak{P} 07'43	
desc. node	15986 Dec 10 05:45	13° \mathfrak{W} 34'50			15991 Oct 08 16:45	0° \mathfrak{L}	
	15987 Jan 03 06:59	0° \mathfrak{H}			15991 Nov 17 13:43	0° \mathfrak{M}	
	15987 Feb 17 12:25	0° \mathfrak{Y}			15991 Dec 26 13:20	0° \mathfrak{A}	
evening set	15987 Feb 25 13:36	5° \mathfrak{Y} 14'29			15992 Feb 03 14:19	0° \mathfrak{Z}	
	15987 Apr 05 01:02	0° \mathfrak{C}			15992 Mar 15 04:11	0° \mathfrak{W}	
					15992 Apr 29 05:47	0° \mathfrak{H}	
conjunction	15987 Apr 12 08:06	4° \mathfrak{C} 39'01	-1°01'48	retrograde	15992 Jul 17 16:07	29° \mathfrak{H} 51'30	
minimum elong	15987 Apr 12 06:55	4° \mathfrak{C} 37'08	1°02'10	desc. node	15992 Aug 01 20:35	28° \mathfrak{H} 12'27	
max. Earth dist.	15987 Apr 18 06:51	8° \mathfrak{C} 26'04	2.67701 AU	min. Earth dist.	15992 Aug 19 21:00	22° \mathfrak{H} 32'49	0.58079 AU
	15987 May 22 07:39	0° \mathfrak{I}		opposition	15992 Aug 26 06:10	20° \mathfrak{H} 04'00	-1°07'37
morning rise	15987 May 25 18:06	2° \mathfrak{I} 10'16		greatest brilliancy	15992 Aug 25 22:52	20° \mathfrak{H} 11'06	-1.8m
	15987 Jul 08 20:02	0° \mathfrak{D}		direct	15992 Oct 02 09:43	11° \mathfrak{H} 40'03	
	15987 Aug 25 07:41	0° \mathfrak{Q}			15992 Dec 06 22:28	0° \mathfrak{Y}	
	15987 Oct 11 20:07	0° \mathfrak{P}			15993 Feb 02 23:14	0° \mathfrak{C}	
	15987 Nov 29 00:48	0° \mathfrak{L}			15993 Mar 26 00:44	0° \mathfrak{I}	
asc. node	15988 Jan 02 18:36	20° \mathfrak{L} 34'55			15993 May 12 16:13	0° \mathfrak{D}	
	15988 Jan 20 00:02	0° \mathfrak{M}		evening set	15993 Jun 13 05:51	20° \mathfrak{D} 54'18	
retrograde	15988 Mar 24 18:46	20° \mathfrak{M} 51'38			15993 Jun 26 14:09	0° \mathfrak{Q}	
opposition	15988 Apr 23 05:31	16° \mathfrak{M} 00'18	6°55'30	max. Earth dist.	15993 Jun 28 20:11	1° \mathfrak{Q} 32'58	2.52490 AU
greatest brilliancy	15988 Apr 23 07:25	15° \mathfrak{M} 59'02	-3.0m				
min. Earth dist.	15988 Apr 23 19:00	15° \mathfrak{M} 51'22	0.36420 AU	conjunction	15993 Aug 02 08:10	25° \mathfrak{Q} 50'48	-0°14'35
direct	15988 May 22 14:24	11° \mathfrak{M} 05'31		minimum elong	15993 Aug 02 09:00	25° \mathfrak{Q} 52'18	0°15'05
	15988 Jul 21 00:02	0° \mathfrak{A}		behind sun begin	15993 Aug 02 00:50	25° \mathfrak{Q} 37'37	
	15988 Sep 09 14:01	0° \mathfrak{Z}		behind sun end	15993 Aug 02 17:10	26° \mathfrak{Q} 07'00	
	15988 Oct 26 08:00	0° \mathfrak{W}			15993 Aug 08 02:16	0° \mathfrak{P}	
desc. node	15988 Oct 27 08:20	0° \mathfrak{W} 39'17		asc. node	15993 Aug 24 02:07	11° \mathfrak{P} 41'51	
	15988 Dec 11 23:06	0° \mathfrak{H}			15993 Sep 17 13:29	0° \mathfrak{L}	
	15989 Jan 28 03:57	0° \mathfrak{Y}		morning rise	15993 Sep 29 04:32	8° \mathfrak{L} 51'07	
	15989 Mar 16 18:48	0° \mathfrak{C}			15993 Oct 26 12:52	0° \mathfrak{M}	

	15993 Dec 03 17:31	0°♊			15998 Dec 21 04:50	30°♊	
	15994 Jan 11 00:12	0°♊	direct		15999 Jan 19 19:39	24°♊24'12	
	15994 Feb 19 09:25	0°♊			15999 Feb 20 12:01	0°♊	
	15994 Apr 02 03:17	0°♊	asc. node		15999 Apr 15 20:00	25°♊52'16	
	15994 May 18 09:26	0°♊			15999 Apr 22 17:38	0°♊	
desc. node	15994 Jun 20 00:20	18°♊03'02			15999 Jun 07 01:51	0°♊	
	15994 Jul 17 15:50	0°♊			15999 Jul 17 19:12	0°♊	
retrograde	15994 Aug 22 21:45	7°♊05'45			15999 Aug 25 11:16	0°♊	
	15994 Sep 25 09:03	30°♊			15999 Oct 02 13:33	0°♊	
min. Earth dist.	15994 Sep 30 00:30	28°♊11'33	0.66632 AU		15999 Nov 10 04:26	0°♊	
opposition	15994 Oct 02 17:05	27°♊07'31	-3°44'05		15999 Dec 20 04:02	0°♊	
greatest brilliancy	15994 Oct 02 07:05	27°♊17'26	-1.3m	evening set	15999 Dec 21 19:39	1°♊12'37	
direct	15994 Nov 11 18:24	17°♊42'44			16000 Jan 31 01:17	0°♊	
	15995 Jan 02 18:43	0°♊	desc. node		16000 Feb 09 03:39	6°♊19'35	
	15995 Mar 04 05:40	0°♊					
	15995 Apr 23 04:51	0°♊	conjunction		16000 Feb 16 14:56	11°♊28'15	-0°04'44
	15995 Jun 07 15:12	0°♊	minimum elong		16000 Feb 16 14:42	11°♊27'51	0°04'25
asc. node	15995 Jul 11 18:46	24°♊04'16	behind sun begin		16000 Feb 15 17:20	10°♊51'14	
	15995 Jul 19 22:28	0°♊	behind sun end		16000 Feb 17 12:04	12°♊04'26	
evening set	15995 Jul 31 12:51	8°♊33'03	max. Earth dist.		16000 Mar 15 03:58	0°♊04'55	2.58112 AU
max. Earth dist.	15995 Aug 21 12:32	24°♊20'05	2.38777 AU		16000 Mar 15 01:00	0°♊	
	15995 Aug 28 22:26	0°♊	morning rise		16000 Apr 06 09:22	14°♊43'22	
					16000 Apr 30 02:05	0°♊	
conjunction	15995 Oct 03 13:56	27°♊45'02	0°52'39		16000 Jun 17 02:52	0°♊	
minimum elong	15995 Oct 03 10:06	27°♊37'31	0°52'54		16000 Aug 06 14:54	0°♊	
	15995 Oct 06 10:25	0°♊			16000 Oct 01 12:58	0°♊	
	15995 Nov 13 06:51	0°♊	retrograde		16000 Dec 15 07:47	22°♊46'02	
morning rise	15995 Dec 17 08:20	26°♊51'20	opposition		16001 Jan 19 21:12	15°♊17'43	-2°13'18
	15995 Dec 21 09:04	0°♊	greatest brilliancy		16001 Jan 20 15:53	15°♊00'46	-2.0m
	15996 Jan 29 14:25	0°♊	min. Earth dist.		16001 Jan 28 03:32	12°♊18'22	0.52166 AU
	15996 Mar 10 19:16	0°♊	direct		16001 Feb 27 16:57	6°♊11'14	
	15996 Apr 23 21:12	0°♊	asc. node		16001 Mar 03 03:04	6°♊16'09	
desc. node	15996 May 06 21:37	8°♊23'18			16001 May 06 15:51	0°♊	
	15996 Jun 11 10:56	0°♊			16001 Jun 21 06:54	0°♊	
	15996 Aug 10 21:28	0°♊			16001 Jul 31 19:05	0°♊	
retrograde	15996 Sep 24 21:52	9°♊50'55			16001 Sep 09 01:35	0°♊	
opposition	15996 Nov 04 10:54	0°♊15'53	-4°49'07		16001 Oct 18 18:26	0°♊	
greatest brilliancy	15996 Nov 04 14:47	0°♊12'04	-1.2m		16001 Nov 28 20:18	0°♊	
	15996 Nov 05 03:02	30°♊	desc. node		16001 Dec 26 21:22	19°♊45'33	
min. Earth dist.	15996 Nov 05 15:43	29°♊47'30	0.68552 AU		16002 Jan 10 18:05	0°♊	
direct	15996 Dec 15 21:35	20°♊19'47		evening set	16002 Feb 09 12:47	20°♊05'25	
	15997 Jan 29 11:56	0°♊			16002 Feb 24 12:06	0°♊	
	15997 Mar 30 16:36	0°♊					
	15997 May 17 07:08	0°♊	conjunction		16002 Mar 29 04:36	21°♊16'26	-0°50'30
asc. node	15997 May 28 17:19	7°♊45'32	minimum elong		16002 Mar 29 03:14	21°♊14'13	0°50'42
	15997 Jun 29 02:04	0°♊	max. Earth dist.		16002 Apr 09 11:28	28°♊31'28	2.66085 AU
	15997 Aug 08 00:51	0°♊			16002 Apr 11 18:46	0°♊	
	15997 Sep 15 09:08	0°♊	morning rise		16002 May 12 12:49	19°♊33'02	
evening set	15997 Oct 09 13:37	19°♊12'05			16002 May 29 02:41	0°♊	
	15997 Oct 23 04:05	0°♊			16002 Jul 16 02:43	0°♊	
	15997 Nov 30 08:43	0°♊			16002 Sep 02 18:24	0°♊	
					16002 Oct 22 18:27	0°♊	
conjunction	15997 Dec 20 19:16	15°♊42'00	0°54'23		16002 Dec 16 11:14	0°♊	
minimum elong	15997 Dec 20 22:38	15°♊48'25	0°55'07	asc. node	16003 Jan 19 09:39	14°♊19'23	
	15998 Jan 08 19:17	0°♊	retrograde		16003 Feb 20 12:38	20°♊05'45	
max. Earth dist.	15998 Feb 08 00:24	22°♊04'35	2.45227 AU	opposition	16003 Mar 22 19:27	14°♊51'11	4°16'16
	15998 Feb 19 03:40	0°♊	greatest brilliancy		16003 Mar 23 15:01	14°♊37'06	-2.9m
morning rise	15998 Feb 21 11:24	1°♊38'17	min. Earth dist.		16003 Mar 28 15:32	13°♊10'37	0.38703 AU
desc. node	15998 Mar 24 12:38	23°♊03'40	direct		16003 Apr 23 21:50	8°♊51'23	
	15998 Apr 03 20:47	0°♊			16003 Jun 24 10:28	0°♊	
	15998 May 20 08:51	0°♊			16003 Aug 10 15:23	0°♊	
	15998 Jul 09 17:05	0°♊			16003 Sep 23 09:18	0°♊	
	15998 Sep 07 11:04	0°♊			16003 Nov 06 06:50	0°♊	
retrograde	15998 Oct 31 14:19	13°♊13'23	desc. node		16003 Nov 13 20:15	5°♊05'44	
opposition	15998 Dec 09 12:36	4°♊24'04	-4°33'29		16003 Dec 21 07:16	0°♊	
greatest brilliancy	15998 Dec 10 08:41	4°♊04'41	-1.4m		16004 Feb 05 12:48	0°♊	
min. Earth dist.	15998 Dec 14 14:37	2°♊26'17	0.63574 AU	evening set	16004 Mar 19 14:51	27°♊27'38	

	16004 Mar 23 14:58	0°♄			16008 Dec 11 17:36	0°♄	
max. Earth dist.	16004 Apr 30 15:02	24°♄03'56	2.68553 AU		16009 Jan 19 04:43	0°♄	
					16009 Feb 27 19:41	0°♄	
conjunction	16004 May 02 15:50	25°♄21'13	-1°12'14		16009 Apr 11 04:53	0°♄	
minimum elong	16004 May 02 15:19	25°♄20'23	1°12'48		16009 May 29 22:14	0°♄	
	16004 May 09 23:46	0°♄		desc. node	16009 Jul 06 14:18	17°♄14'04	
morning rise	16004 Jun 14 14:45	22°♄40'31		retrograde	16009 Aug 09 08:49	23°♄40'35	
	16004 Jun 26 01:11	0°♄		min. Earth dist.	16009 Sep 14 17:08	15°♄19'58	0.64047 AU
	16004 Aug 11 09:17	0°♄		opposition	16009 Sep 18 21:34	13°♄40'39	-2°56'25
	16004 Sep 25 18:31	0°♄		greatest brilliancy	16009 Sep 18 09:30	13°♄52'36	-1.5m
	16004 Nov 09 03:57	0°♄		direct	16009 Oct 28 00:05	4°♄35'21	
asc. node	16004 Dec 06 10:52	18°♄42'25			16010 Jan 16 23:17	0°♄	
	16004 Dec 22 20:56	0°♄			16010 Mar 12 21:42	0°♄	
	16005 Feb 05 04:26	0°♄			16010 Apr 30 16:16	0°♄	
	16005 Mar 28 07:41	0°♄			16010 Jun 14 19:50	0°♄	
retrograde	16005 May 10 12:13	11°♄38'18		evening set	16010 Jul 10 17:17	18°♄08'03	
min. Earth dist.	16005 Jun 05 11:12	7°♄13'20	0.39594 AU	max. Earth dist.	16010 Jul 24 10:12	28°♄00'00	2.44213 AU
greatest brilliancy	16005 Jun 10 23:40	5°♄32'48	-2.8m		16010 Jul 27 04:11	0°♄	
opposition	16005 Jun 12 08:08	5°♄08'00	6°10'35	asc. node	16010 Jul 28 12:21	0°♄58'41	
	16005 Jul 05 08:40	30°♄			16010 Sep 05 08:04	0°♄	
direct	16005 Jul 12 13:31	29°♄38'51					
	16005 Jul 19 21:22	0°♄		conjunction	16010 Sep 06 00:39	0°♄31'41	0°26'54
desc. node	16005 Oct 01 01:48	27°♄43'51		minimum elong	16010 Sep 05 22:34	0°♄27'41	0°26'48
	16005 Oct 05 06:34	0°♄			16010 Oct 13 23:53	0°♄	
	16005 Nov 26 09:22	0°♄		morning rise	16010 Nov 14 12:41	24°♄55'01	
	16006 Jan 15 01:49	0°♄			16010 Nov 20 22:43	0°♄	
	16006 Mar 04 22:24	0°♄			16010 Dec 29 01:33	0°♄	
	16006 Apr 21 23:15	0°♄			16011 Feb 06 06:27	0°♄	
evening set	16006 Apr 23 17:38	1°♄06'57			16011 Mar 19 12:46	0°♄	
max. Earth dist.	16006 May 23 02:44	19°♄50'42	2.65504 AU		16011 May 03 01:24	0°♄	
				desc. node	16011 May 24 13:45	13°♄24'06	
conjunction	16006 Jun 06 13:30	29°♄11'14	-1°08'29		16011 Jun 22 14:30	0°♄	
minimum elong	16006 Jun 06 14:22	29°♄12'39	1°09'15	retrograde	16011 Sep 12 15:18	27°♄29'07	
	16006 Jun 07 19:31	0°♄		opposition	16011 Oct 23 10:28	17°♄42'14	-4°33'16
morning rise	16006 Jul 21 12:55	28°♄55'40		greatest brilliancy	16011 Oct 23 07:58	17°♄44'43	-1.2m
	16006 Jul 23 03:05	0°♄		min. Earth dist.	16011 Oct 23 02:20	17°♄50'17	0.68620 AU
	16006 Sep 04 17:40	0°♄		direct	16011 Dec 03 12:10	7°♄55'30	
	16006 Oct 16 15:35	0°♄			16012 Feb 14 19:30	0°♄	
asc. node	16006 Oct 24 06:02	5°♄33'55			16012 Apr 08 17:51	0°♄	
	16006 Nov 26 02:39	0°♄			16012 May 25 04:34	0°♄	
	16007 Jan 04 16:49	0°♄		asc. node	16012 Jun 14 08:19	13°♄56'56	
	16007 Feb 13 11:33	0°♄			16012 Jul 06 16:38	0°♄	
	16007 Mar 27 11:49	0°♄			16012 Aug 15 14:54	0°♄	
	16007 May 17 04:20	0°♄		evening set	16012 Sep 08 20:12	18°♄50'29	
retrograde	16007 Jul 02 13:35	12°♄33'50			16012 Sep 22 23:51	0°♄	
min. Earth dist.	16007 Aug 02 11:06	6°♄02'54	0.53146 AU		16012 Oct 30 18:40	0°♄	
opposition	16007 Aug 10 01:05	3°♄11'07	0°28'30				
greatest brilliancy	16007 Aug 09 21:55	3°♄14'07	-2.0m	conjunction	16012 Nov 20 22:50	16°♄44'31	1°07'32
	16007 Aug 18 22:19	30°♄		minimum elong	16012 Nov 21 00:03	16°♄46'54	1°08'15
desc. node	16007 Aug 19 09:46	29°♄50'39			16012 Dec 07 21:33	0°♄	
direct	16007 Sep 14 13:58	25°♄23'58		max. Earth dist.	16013 Jan 13 03:24	27°♄42'29	2.39528 AU
	16007 Oct 13 16:39	0°♄			16013 Jan 16 04:53	0°♄	
	16007 Dec 21 01:08	0°♄		morning rise	16013 Jan 29 20:18	10°♄06'23	
	16008 Feb 12 13:16	0°♄			16013 Feb 26 10:09	0°♄	
	16008 Apr 02 08:06	0°♄		desc. node	16013 Apr 10 07:33	29°♄26'41	
	16008 May 19 14:30	0°♄			16013 Apr 11 03:36	0°♄	
evening set	16008 May 28 18:45	6°♄00'10			16013 May 28 02:56	0°♄	
max. Earth dist.	16008 Jun 16 15:53	18°♄33'00	2.57117 AU		16013 Jul 19 10:39	0°♄	
	16008 Jul 03 13:06	0°♄			16013 Oct 13 17:52	0°♄	
				retrograde	16013 Oct 16 15:37	0°♄03'00	
conjunction	16008 Jul 15 00:58	7°♄55'27	-0°35'54		16013 Oct 19 12:35	30°♄	
minimum elong	16008 Jul 15 02:26	7°♄58'01	0°36'32	opposition	16013 Nov 25 09:18	20°♄52'36	-4°50'20
	16008 Aug 15 06:37	0°♄		greatest brilliancy	16013 Nov 25 23:36	20°♄38'39	-1.3m
morning rise	16008 Sep 05 09:31	15°♄22'45		min. Earth dist.	16013 Nov 28 23:06	19°♄28'53	0.66356 AU
asc. node	16008 Sep 09 21:44	18°♄42'30		direct	16014 Jan 05 22:48	10°♄49'54	
	16008 Sep 25 01:08	0°♄			16014 Mar 11 21:32	0°♄	
	16008 Nov 03 07:26	0°♄		asc. node	16014 May 02 10:48	29°♄41'14	

	16014 May 02 22:29	0°♏		max. Earth dist.	16019 Apr 23 07:00	14°♌32'52	2.68231 AU
	16014 Jun 15 19:46	0°♎			16019 May 17 16:16	0°♐	
	16014 Jul 26 02:20	0°♍		morning rise	16019 Jun 02 07:06	9°♐53'26	
	16014 Sep 02 13:23	0°♌			16019 Jul 03 24:00	0°♑	
	16014 Oct 10 11:15	0°♎			16019 Aug 20 00:28	0°♏	
	16014 Nov 17 20:44	0°♐			16019 Oct 05 14:55	0°♎	
evening set	16014 Nov 26 03:28	6°♐21'29			16019 Nov 21 00:46	0°♍	
	16014 Dec 27 13:46	0°♐		asc. node	16019 Dec 24 02:23	21°♍07'05	
					16020 Jan 07 09:00	0°♌	
conjunction	16015 Jan 27 21:19	22°♐43'03	0°18'26		16020 Mar 02 07:20	0°♎	
minimum elong	16015 Jan 27 22:31	22°♐45'11	0°18'57	retrograde	16020 Apr 12 02:53	9°♎53'47	
	16015 Feb 07 04:28	0°♎		min. Earth dist.	16020 May 09 11:10	5°♎27'11	0.36642 AU
desc. node	16015 Feb 25 21:14	12°♎59'47		greatest brilliancy	16020 May 11 11:37	4°♎54'42	-3.0m
max. Earth dist.	16015 Mar 04 10:13	17°♎28'26	2.53585 AU	opposition	16020 May 12 02:32	4°♎44'41	7°23'54
morning rise	16015 Mar 22 12:19	29°♎40'52			16020 Jun 06 15:08	30°♌	
	16015 Mar 22 23:47	0°♐		direct	16020 Jun 10 02:52	29°♌55'09	
	16015 May 08 02:08	0°♌			16020 Jun 13 14:41	0°♎	
	16015 Jun 25 16:50	0°♐			16020 Aug 30 07:26	0°♐	
	16015 Aug 17 04:29	0°♑		desc. node	16020 Oct 17 14:25	29°♐01'43	
	16015 Oct 22 10:07	0°♏			16020 Oct 19 03:59	0°♐	
retrograde	16015 Nov 26 19:17	6°♏18'18			16020 Dec 06 03:05	0°♎	
	16015 Dec 29 00:43	30°♌			16021 Jan 23 00:41	0°♐	
opposition	16016 Jan 02 22:18	28°♑12'06	-3°28'46		16021 Mar 12 00:29	0°♌	
greatest brilliancy	16016 Jan 03 21:59	27°♑49'51	-1.7m	evening set	16021 Apr 10 04:54	18°♌18'58	
min. Earth dist.	16016 Jan 10 03:21	25°♑29'47	0.57332 AU		16021 Apr 28 16:56	0°♐	
direct	16016 Feb 12 02:31	18°♑33'20		max. Earth dist.	16021 May 14 03:36	9°♐48'50	2.67344 AU
asc. node	16016 Mar 19 16:04	26°♑16'42					
	16016 Mar 28 15:23	0°♏		conjunction	16021 May 23 18:08	15°♐57'03	-1°13'07
	16016 May 20 10:49	0°♎		minimum elong	16021 May 23 18:29	15°♐57'35	1°13'51
	16016 Jul 01 23:16	0°♍			16021 Jun 14 13:42	0°♑	
	16016 Aug 10 09:21	0°♌		morning rise	16021 Jul 06 11:46	14°♑17'42	
	16016 Sep 17 23:55	0°♎			16021 Jul 30 05:01	0°♏	
	16016 Oct 27 03:01	0°♐			16021 Sep 12 09:01	0°♎	
	16016 Dec 06 15:32	0°♐			16021 Oct 25 00:34	0°♍	
desc. node	16017 Jan 12 13:15	26°♐11'19		asc. node	16021 Nov 10 00:01	11°♍30'22	
	16017 Jan 18 01:14	0°♎			16021 Dec 05 07:47	0°♌	
evening set	16017 Jan 22 18:43	3°♎15'36			16022 Jan 14 21:15	0°♎	
	16017 Mar 03 10:04	0°♐			16022 Feb 25 02:19	0°♐	
					16022 Apr 11 18:54	0°♐	
conjunction	16017 Mar 14 03:42	7°♐04'38	-0°35'33	retrograde	16022 Jun 14 11:06	22°♐23'24	
minimum elong	16017 Mar 14 02:24	7°♐02'30	0°35'33	min. Earth dist.	16022 Jul 12 22:00	16°♐46'17	0.47664 AU
max. Earth dist.	16017 Mar 31 04:20	18°♐10'59	2.63607 AU	opposition	16022 Jul 21 06:50	13°♐46'56	2°29'56
	16017 Apr 18 12:38	0°♌		greatest brilliancy	16022 Jul 20 13:17	14°♐02'41	-2.3m
morning rise	16017 Apr 29 00:37	6°♌42'11		direct	16022 Aug 23 22:18	6°♐47'00	
	16017 Jun 05 00:11	0°♐		desc. node	16022 Sep 04 20:54	7°♐40'03	
	16017 Jul 23 16:39	0°♑			16022 Nov 05 19:40	0°♎	
	16017 Sep 12 01:35	0°♏			16022 Dec 31 10:28	0°♐	
	16017 Nov 05 18:26	0°♎			16023 Feb 20 11:47	0°♌	
retrograde	16018 Jan 21 14:19	24°♎36'10			16023 Apr 10 09:48	0°♐	
asc. node	16018 Feb 04 22:01	23°♎18'35		evening set	16023 May 15 07:45	22°♐09'09	
opposition	16018 Feb 23 03:28	18°♎26'01	1°10'21		16023 May 27 10:25	0°♑	
greatest brilliancy	16018 Feb 23 12:07	18°♎19'01	-2.6m	max. Earth dist.	16023 Jun 07 03:12	7°♑00'18	2.60996 AU
min. Earth dist.	16018 Mar 03 10:57	15°♎45'38	0.43479 AU				
direct	16018 Mar 30 10:13	10°♎56'49		conjunction	16023 Jun 29 16:54	22°♑01'43	-0°52'16
	16018 May 27 03:51	0°♍		minimum elong	16023 Jun 29 18:23	22°♑04'14	0°52'59
	16018 Jul 12 19:27	0°♌			16023 Jul 11 11:23	0°♏	
	16018 Aug 23 13:40	0°♎		morning rise	16023 Aug 17 06:31	25°♏34'33	
	16018 Oct 03 21:48	0°♐			16023 Aug 23 11:48	0°♎	
	16018 Nov 15 06:40	0°♐		asc. node	16023 Sep 27 15:53	25°♎33'42	
desc. node	16018 Nov 30 11:32	10°♐30'21			16023 Oct 03 15:28	0°♍	
	16018 Dec 29 05:21	0°♎			16023 Nov 12 06:56	0°♌	
	16019 Feb 12 17:24	0°♐			16023 Dec 21 01:11	0°♎	
evening set	16019 Mar 06 04:06	13°♐51'18			16024 Jan 28 20:00	0°♐	
	16019 Mar 31 09:42	0°♌			16024 Mar 08 22:19	0°♐	
					16024 Apr 21 13:52	0°♎	
conjunction	16019 Apr 20 04:19	12°♌34'26	-1°06'46		16024 Jun 15 20:35	0°♐	
minimum elong	16019 Apr 20 03:20	12°♌32'53	1°07'14	desc. node	16024 Jul 23 03:54	9°♐08'34	

retrograde	16024 Jul 26 04:03	9° Υ 12'15			16029 May 11 19:45	0° Ω	
min. Earth dist.	16024 Aug 29 13:10	1° Υ 30'06	0.60456 AU	asc. node	16029 May 18 23:58	4° Ω 47'43	
	16024 Sep 02 09:09	30° \mathbb{R}			16029 Jun 23 22:57	0° \mathbb{M}	
opposition	16024 Sep 04 04:17	29° \mathbb{H} 17'37	-1°53'01		16029 Aug 03 00:35	0° $\underline{\mathbb{A}}$	
greatest brilliancy	16024 Sep 03 17:41	29° \mathbb{H} 28'00	-1.6m		16029 Sep 10 09:51	0° \mathbb{M}	
direct	16024 Oct 12 02:02	20° \mathbb{H} 37'19			16029 Oct 18 05:35	0° \mathbb{J}	
	16024 Nov 25 06:54	0° Υ		greatest brilliancy	16029 Oct 24 11:24	4° \mathbb{J} 56'17	1.1m
	16025 Jan 27 17:05	0° \mathbb{B}		evening set	16029 Oct 27 07:04	7° \mathbb{J} 09'53	
	16025 Mar 20 21:11	0° \mathbb{I}			16029 Nov 25 11:24	0° \mathbb{B}	
	16025 May 07 21:33	0° $\underline{\mathbb{A}}$			16030 Jan 03 23:18	0° \approx	
	16025 Jun 21 21:47	0° Ω					
evening set	16025 Jun 22 14:24	0° Ω 28'34		conjunction	16030 Jan 04 15:54	0° \approx 30'50	0°42'19
max. Earth dist.	16025 Jul 06 19:14	10° Ω 20'09	2.49653 AU	minimum elong	16030 Jan 04 18:49	0° \approx 36'16	0°42'59
	16025 Aug 03 08:46	0° \mathbb{M}			16030 Feb 14 08:34	0° \mathbb{H}	
				max. Earth dist.	16030 Feb 18 03:57	2° \mathbb{H} 40'54	2.48326 AU
conjunction	16025 Aug 13 20:18	7° \mathbb{M} 39'20	-0°00'20	morning rise	16030 Mar 04 16:28	12° \mathbb{H} 47'34	
minimum elong	16025 Aug 13 20:23	7° \mathbb{M} 39'29	0°00'43	desc. node	16030 Mar 14 15:54	19° \mathbb{H} 37'53	
behind sun begin	16025 Aug 12 20:50	6° \mathbb{M} 56'15			16030 Mar 30 00:52	0° Υ	
behind sun end	16025 Aug 14 19:56	8° \mathbb{M} 22'47			16030 May 15 07:03	0° \mathbb{B}	
asc. node	16025 Aug 14 07:46	8° \mathbb{M} 00'24			16030 Jul 03 19:11	0° \mathbb{I}	
	16025 Sep 12 17:32	0° $\underline{\mathbb{A}}$			16030 Aug 28 17:51	0° $\underline{\mathbb{A}}$	
morning rise	16025 Oct 14 15:06	24° $\underline{\mathbb{A}}$ 33'59		retrograde	16030 Nov 09 15:16	21° $\underline{\mathbb{A}}$ 36'06	
	16025 Oct 21 14:03	0° \mathbb{M}		opposition	16030 Dec 17 23:49	13° $\underline{\mathbb{A}}$ 00'21	-4°15'51
	16025 Nov 28 16:09	0° \mathbb{J}		greatest brilliancy	16030 Dec 18 22:10	12° $\underline{\mathbb{A}}$ 38'55	-1.5m
	16026 Jan 05 20:46	0° \mathbb{B}		min. Earth dist.	16030 Dec 23 20:40	10° $\underline{\mathbb{A}}$ 45'21	0.61615 AU
greatest brilliancy	16026 Jan 13 02:50	5° \mathbb{B} 37'40	1.2m	direct	16031 Jan 27 23:43	3° $\underline{\mathbb{A}}$ 05'01	
	16026 Feb 14 03:10	0° \approx		asc. node	16031 Apr 06 04:18	25° $\underline{\mathbb{A}}$ 03'41	
	16026 Mar 27 14:26	0° \mathbb{H}			16031 Apr 15 02:03	0° Ω	
	16026 May 11 23:11	0° Υ			16031 Jun 01 00:53	0° \mathbb{M}	
desc. node	16026 Jun 10 05:08	17° Υ 10'11			16031 Jul 12 05:54	0° $\underline{\mathbb{A}}$	
	16026 Jul 05 13:58	0° \mathbb{B}			16031 Aug 20 02:58	0° \mathbb{M}	
retrograde	16026 Aug 30 11:53	14° \mathbb{B} 57'12			16031 Sep 27 08:29	0° \mathbb{J}	
min. Earth dist.	16026 Oct 08 11:26	5° \mathbb{B} 46'20	0.67641 AU		16031 Nov 05 02:39	0° \mathbb{B}	
opposition	16026 Oct 10 08:14	5° \mathbb{B} 01'56	-4°05'54		16031 Dec 15 05:42	0° \approx	
greatest brilliancy	16026 Oct 10 00:23	5° \mathbb{B} 09'43	-1.3m	evening set	16032 Jan 03 14:16	14° \approx 00'01	
	16026 Oct 23 22:05	30° \mathbb{R} Υ			16032 Jan 26 06:08	0° \mathbb{H}	
direct	16026 Nov 19 19:34	25° Υ 28'25		desc. node	16032 Jan 30 07:16	2° \mathbb{H} 48'49	
	16026 Dec 19 10:15	0° \mathbb{B}					
	16027 Feb 25 20:49	0° \mathbb{I}		conjunction	16032 Feb 26 17:38	21° \mathbb{H} 33'56	-0°16'57
	16027 Apr 17 23:12	0° $\underline{\mathbb{A}}$		minimum elong	16032 Feb 26 16:50	21° \mathbb{H} 32'36	0°16'45
	16027 Jun 02 17:53	0° Ω			16032 Mar 10 07:55	0° Υ	
asc. node	16027 Jul 02 01:14	20° Ω 31'42		max. Earth dist.	16032 Mar 21 06:23	7° Υ 14'28	2.60293 AU
	16027 Jul 15 03:10	0° \mathbb{M}		morning rise	16032 Apr 14 20:40	23° Υ 16'15	
evening set	16027 Aug 13 18:33	22° \mathbb{M} 05'50			16032 Apr 25 08:09	0° \mathbb{B}	
	16027 Aug 24 03:00	0° $\underline{\mathbb{A}}$			16032 Jun 12 02:14	0° \mathbb{I}	
max. Earth dist.	16027 Sep 24 22:43	24° $\underline{\mathbb{A}}$ 46'02	2.36430 AU		16032 Jul 31 18:31	0° $\underline{\mathbb{A}}$	
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					16032 Dec 01 17:38	0° \mathbb{M}	
conjunction	16027 Oct 20 19:54	15° \mathbb{M} 15'04	1°03'05	retrograde	16032 Dec 27 14:35	3° \mathbb{M} 38'58	
minimum elong	16027 Oct 20 16:48	15° \mathbb{M} 08'54	1°03'33		16033 Jan 20 18:14	30° \mathbb{R} Ω	
	16027 Nov 08 09:27	0° \mathbb{J}		opposition	16033 Jan 31 04:48	26° Ω 35'19	-1°12'34
	16027 Dec 16 11:10	0° \mathbb{B}		greatest brilliancy	16033 Jan 31 15:58	26° Ω 25'29	-2.2m
morning rise	16028 Jan 03 16:19	14° \mathbb{B} 05'11		min. Earth dist.	16033 Feb 08 19:16	23° Ω 34'27	0.49108 AU
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desc. node	16028 Apr 26 23:48	5° Υ 27'04			16033 Jun 13 12:46	0° $\underline{\mathbb{A}}$	
	16028 Jun 05 10:04	0° \mathbb{B}			16033 Jul 25 05:30	0° \mathbb{M}	
	16028 Jul 31 09:55	0° \mathbb{I}			16033 Sep 03 01:48	0° \mathbb{J}	
retrograde	16028 Oct 02 16:10	17° \mathbb{I} 27'58			16033 Oct 13 04:31	0° \mathbb{B}	
opposition	16028 Nov 11 23:26	8° \mathbb{I} 00'43	-4°53'14		16033 Nov 23 14:33	0° \approx	
greatest brilliancy	16028 Nov 12 07:03	7° \mathbb{I} 53'14	-1.2m	desc. node	16033 Dec 17 01:29	16° \approx 27'04	
min. Earth dist.	16028 Nov 14 00:21	7° \mathbb{I} 12'39	0.68066 AU		16034 Jan 05 19:04	0° \mathbb{H}	
	16028 Dec 05 22:07	30° \mathbb{R} \mathbb{B}		evening set	16034 Feb 18 19:51	29° \mathbb{H} 23'30	
direct	16028 Dec 23 12:33	28° \mathbb{B} 01'06			16034 Feb 19 18:07	0° Υ	
	16029 Jan 11 06:53	0° \mathbb{I}					
	16029 Mar 24 00:27	0° $\underline{\mathbb{A}}$		conjunction	16034 Apr 06 08:34	29° Υ 30'11	-0°57'36


































































































































minimum elong	16034 Apr 06 07:17	29° Υ 28'07	0°57'54	retrograde	16039 Jul 11 22:22	23° X 10'58	
	16034 Apr 07 03:13	0° B		desc. node	16039 Aug 09 15:01	17° X 30'31	
max. Earth dist.	16034 Apr 14 14:51	4° B 46'46	2.67086 AU	min. Earth dist.	16039 Aug 13 03:15	16° X 12'46	0.55967 AU
morning rise	16034 May 20 02:46	27° B 17'35		opposition	16039 Aug 20 02:08	13° X 32'11	-0°30'16
	16034 May 24 09:42	0° II		greatest brilliancy	16039 Aug 19 22:33	13° X 35'38	-1.9m
	16034 Jul 11 02:39	0° G		direct	16039 Sep 25 12:49	5° X 23'38	
	16034 Aug 28 01:24	0° Ω			16039 Dec 13 01:08	0° Υ	
	16034 Oct 15 11:55	0° M			16040 Feb 06 20:54	0° B	
	16034 Dec 04 17:35	0° A			16040 Mar 28 09:09	0° II	
asc. node	16035 Jan 09 15:44	19° A 20'38			16040 May 14 21:40	0° G	
	16035 Feb 03 03:06	0° M		evening set	16040 Jun 06 09:56	14° G 48'39	
retrograde	16035 Mar 10 22:30	7° M 18'05		max. Earth dist.	16040 Jun 23 10:59	26° G 17'45	2.54649 AU
opposition	16035 Apr 09 13:29	2° M 23'26	5°58'34		16040 Jun 28 21:09	0° Ω	
greatest brilliancy	16035 Apr 10 02:57	2° M 14'16	-3.0m				
min. Earth dist.	16035 Apr 12 17:08	1° M 32'06	0.37049 AU	conjunction	16040 Jul 25 02:31	18° Ω 15'43	-0°24'14
	16035 Apr 18 15:32	30° R A		minimum elong	16040 Jul 25 03:43	18° Ω 17'51	0°24'47
direct	16035 May 09 22:25	27° A 06'40			16040 Aug 10 12:46	0° M	
	16035 May 30 15:59	0° M		asc. node	16040 Aug 31 01:48	14° M 59'47	
	16035 Jul 31 08:36	0° X		morning rise	16040 Sep 18 06:17	28° M 33'32	
	16035 Sep 15 20:40	0° Z			16040 Sep 20 04:13	0° A	
	16035 Oct 31 02:00	0° \approx			16040 Oct 29 07:16	0° M	
desc. node	16035 Nov 04 02:56	2° \approx 40'10			16040 Dec 06 14:21	0° X	
	16035 Dec 15 20:55	0° X			16041 Jan 13 22:26	0° Z	
	16036 Jan 31 13:51	0° Υ			16041 Feb 22 08:40	0° \approx	
	16036 Mar 18 22:22	0° B			16041 Apr 05 05:56	0° X	
evening set	16036 Mar 27 13:05	5° B 26'20			16041 May 22 04:24	0° Υ	
	16036 May 05 09:16	0° II		desc. node	16041 Jun 26 19:30	18° Υ 37'38	
max. Earth dist.	16036 May 05 13:06	0° II 06'05	2.68358 AU		16041 Jul 30 03:57	0° B	
				retrograde	16041 Aug 17 03:59	1° B 56'48	
conjunction	16036 May 10 06:40	3° II 06'13	-1°13'44		16041 Sep 03 03:38	30° R Υ	
minimum elong	16036 May 10 06:27	3° II 05'51	1°14'23	min. Earth dist.	16041 Sep 23 11:54	23° Υ 17'23	0.65600 AU
	16036 Jun 21 08:47	0° G		opposition	16041 Sep 26 21:01	21° Υ 57'00	-3°26'22
morning rise	16036 Jun 22 08:45	0° G 38'36		greatest brilliancy	16041 Sep 26 09:36	22° Υ 08'19	-1.4m
	16036 Aug 06 10:20	0° Ω		direct	16041 Nov 05 12:57	12° Υ 40'29	
	16036 Sep 20 07:47	0° M			16042 Jan 08 09:26	0° B	
	16036 Nov 02 23:26	0° A			16042 Mar 07 04:19	0° II	
asc. node	16036 Nov 26 17:00	16° A 38'42			16042 Apr 25 16:08	0° G	
	16036 Dec 15 13:43	0° M			16042 Jun 10 01:02	0° Ω	
	16037 Jan 26 22:33	0° X		asc. node	16042 Jul 18 17:43	27° Ω 19'29	
	16037 Mar 12 18:24	0° Z		evening set	16042 Jul 22 01:40	29° Ω 44'54	
retrograde	16037 May 24 07:54	28° Z 05'52			16042 Jul 22 09:56	0° M	
min. Earth dist.	16037 Jun 19 17:44	23° Z 20'48	0.42236 AU	max. Earth dist.	16042 Aug 07 02:02	11° M 32'54	2.41136 AU
greatest brilliancy	16037 Jun 26 11:58	21° Z 09'07	-2.6m		16042 Aug 31 12:36	0° A	
opposition	16037 Jun 27 18:44	20° Z 43'59	4°52'22				
direct	16037 Jul 29 04:39	14° Z 41'39		conjunction	16042 Sep 20 22:28	15° A 45'36	0°42'16
desc. node	16037 Sep 21 08:47	29° Z 12'15		minimum elong	16042 Sep 20 19:08	15° A 39'06	0°42'22
	16037 Sep 23 03:08	0° \approx			16042 Oct 09 02:48	0° M	
	16037 Nov 19 06:50	0° X			16042 Nov 16 00:16	0° X	
	16038 Jan 09 11:29	0° Υ		morning rise	16042 Dec 03 00:57	13° X 28'26	
	16038 Feb 27 23:40	0° B			16042 Dec 24 02:17	0° Z	
	16038 Apr 17 07:10	0° II			16043 Feb 01 06:25	0° \approx	
evening set	16038 May 01 11:15	8° II 57'30			16043 Mar 14 10:03	0° X	
max. Earth dist.	16038 May 28 11:05	26° II 16'08	2.64141 AU		16043 Apr 27 13:50	0° Υ	
	16038 Jun 03 04:59	0° G		desc. node	16043 May 14 18:11	10° Υ 57'27	
					16043 Jun 15 16:49	0° B	
conjunction	16038 Jun 14 16:08	7° G 29'41	-1°03'52		16043 Aug 20 05:13	0° II	
minimum elong	16038 Jun 14 17:18	7° G 31'35	1°04'38	retrograde	16043 Sep 20 05:23	5° II 04'39	
	16038 Jul 18 10:27	0° Ω			16043 Oct 18 15:02	30° R B	
morning rise	16038 Jul 30 15:42	8° Ω 19'08		opposition	16043 Oct 30 21:11	25° B 23'51	-4°44'07
	16038 Aug 30 20:08	0° M		greatest brilliancy	16043 Oct 30 22:04	25° B 22'58	-1.2m
	16038 Oct 11 11:23	0° A		min. Earth dist.	16043 Oct 31 09:00	25° B 12'10	0.68712 AU
asc. node	16038 Oct 14 11:40	2° A 12'59		direct	16043 Dec 11 04:09	15° B 31'39	
	16038 Nov 20 14:47	0° M			16044 Feb 05 18:14	0° II	
	16038 Dec 29 20:15	0° X			16044 Apr 02 20:49	0° G	
	16039 Feb 07 03:23	0° Z			16044 May 20 00:39	0° Ω	
	16039 Mar 20 03:19	0° \approx		asc. node	16044 Jun 04 15:29	10° Ω 41'23	
	16039 May 05 15:43	0° X			16044 Jul 01 17:55	0° M	

	16044 Aug 10 17:30	0°♄		minimum elong	16049 Mar 22 18:40	15°♄45'23	0°44'50
	16044 Sep 18 02:30	0°♍		max. Earth dist.	16049 Apr 05 13:35	24°♄40'12	2.65081 AU
evening set	16044 Sep 25 17:54	6°♍03'21			16049 Apr 13 20:48	0°♄	
	16044 Oct 25 21:10	0°♅		morning rise	16049 May 06 18:35	14°♄35'27	
	16044 Dec 03 00:20	0°♄			16049 May 31 05:25	0°♄	
					16049 Jul 18 11:42	0°♄	
conjunction	16044 Dec 08 04:57	4°♄01'32	1°01'46		16049 Sep 05 18:53	0°♄	
minimum elong	16044 Dec 08 07:57	4°♄07'21	1°02'31		16049 Oct 27 08:49	0°♄	
	16045 Jan 11 08:23	0°♄			16049 Dec 27 18:39	0°♄	
max. Earth dist.	16045 Jan 29 15:09	13°♄30'00	2.42651 AU	asc. node	16050 Jan 26 06:44	7°♄58'46	
morning rise	16045 Feb 12 02:31	23°♄14'57		retrograde	16050 Feb 06 19:49	8°♄47'04	
	16045 Feb 21 13:48	0°♄		opposition	16050 Mar 10 00:47	3°♄08'58	2°52'46
desc. node	16045 Mar 31 09:50	26°♄06'42		greatest brilliancy	16050 Mar 10 18:18	2°♄55'40	-2.7m
	16045 Apr 06 05:17	0°♄		min. Earth dist.	16050 Mar 17 07:58	0°♄56'23	0.40626 AU
	16045 May 22 19:32	0°♄			16050 Mar 20 14:25	30°♄	
	16045 Jul 12 18:11	0°♄		direct	16050 Apr 12 15:09	26°♄28'29	
	16045 Sep 14 12:40	0°♄			16050 May 05 07:17	0°♄	
retrograde	16045 Oct 25 01:35	8°♄00'19			16050 Jul 03 00:33	0°♄	
	16045 Nov 30 19:24	30°♄			16050 Aug 16 00:31	0°♄	
opposition	16045 Dec 03 08:34	29°♄01'00	-4°42'19		16050 Sep 27 10:49	0°♄	
greatest brilliancy	16045 Dec 04 02:10	28°♄43'54	-1.4m		16050 Nov 09 13:04	0°♄	
min. Earth dist.	16045 Dec 07 18:01	27°♄18'36	0.64943 AU	desc. node	16050 Nov 20 15:53	7°♄35'54	
direct	16046 Jan 13 18:46	18°♄59'11			16050 Dec 23 23:54	0°♄	
	16046 Mar 01 08:30	0°♄			16051 Feb 07 20:27	0°♄	
asc. node	16046 Apr 22 17:18	27°♄38'05		evening set	16051 Mar 14 12:02	22°♄13'07	
	16046 Apr 26 13:07	0°♄			16051 Mar 26 17:27	0°♄	
	16046 Jun 10 06:25	0°♄					
	16046 Jul 20 19:53	0°♄		conjunction	16051 Apr 27 21:39	20°♄24'26	-1°10'28
	16046 Aug 28 10:10	0°♄		minimum elong	16051 Apr 27 20:55	20°♄23'16	1°11'00
	16046 Oct 05 10:11	0°♄		max. Earth dist.	16051 Apr 28 05:07	20°♄36'17	2.68520 AU
	16046 Nov 12 21:53	0°♄			16051 May 13 00:56	0°♄	
evening set	16046 Dec 11 02:28	21°♄22'30		morning rise	16051 Jun 09 20:36	17°♄39'38	
	16046 Dec 22 17:22	0°♄			16051 Jun 29 05:12	0°♄	
	16047 Feb 02 10:07	0°♄			16051 Aug 14 20:25	0°♄	
					16051 Sep 29 18:02	0°♄	
conjunction	16047 Feb 08 09:24	4°♄10'28	0°04'54		16051 Nov 13 22:33	0°♄	
minimum elong	16047 Feb 08 09:42	4°♄10'58	0°05'18	asc. node	16051 Dec 14 09:05	20°♄20'24	
behind sun begin	16047 Feb 07 11:53	3°♄32'59			16051 Dec 28 21:33	0°♄	
behind sun end	16047 Feb 09 07:30	4°♄48'55			16052 Feb 13 19:28	0°♄	
desc. node	16047 Feb 16 00:52	9°♄28'34		retrograde	16052 Apr 28 16:28	28°♄36'17	
max. Earth dist.	16047 Mar 11 11:13	25°♄26'41	2.56171 AU	min. Earth dist.	16052 May 24 20:07	24°♄18'32	0.37912 AU
	16047 Mar 18 06:23	0°♄		greatest brilliancy	16052 May 28 23:52	23°♄07'14	-2.9m
morning rise	16047 Mar 31 17:11	8°♄55'07		opposition	16052 May 30 03:43	22°♄47'13	6°58'09
	16047 May 03 06:19	0°♄		direct	16052 Jun 28 15:47	17°♄41'05	
	16047 Jun 20 11:09	0°♄			16052 Aug 15 11:50	0°♄	
	16047 Aug 10 15:19	0°♄		desc. node	16052 Oct 07 20:08	28°♄09'19	
	16047 Oct 08 08:09	0°♄			16052 Oct 11 00:08	0°♄	
retrograde	16047 Dec 07 12:25	15°♄54'23			16052 Nov 29 22:05	0°♄	
opposition	16048 Jan 12 19:33	8°♄07'55	-2°49'10		16053 Jan 17 17:24	0°♄	
greatest brilliancy	16048 Jan 13 17:14	7°♄47'52	-1.9m		16053 Mar 07 04:06	0°♄	
min. Earth dist.	16048 Jan 20 15:44	5°♄14'31	0.54553 AU	evening set	16053 Apr 17 22:29	26°♄08'11	
	16048 Feb 07 22:36	30°♄			16053 Apr 24 01:20	0°♄	
direct	16048 Feb 21 07:04	28°♄44'47		max. Earth dist.	16053 May 19 05:57	16°♄01'26	2.66435 AU
	16048 Mar 06 02:44	0°♄					
asc. node	16048 Mar 09 23:26	0°♄45'51		conjunction	16053 May 31 13:54	23°♄56'52	-1°10'59
	16048 May 12 11:14	0°♄		minimum elong	16053 May 31 14:33	23°♄57'55	1°11'44
	16048 Jun 25 11:38	0°♄			16053 Jun 09 22:27	0°♄	
	16048 Aug 04 11:14	0°♄		morning rise	16053 Jul 14 21:52	22°♄58'39	
	16048 Sep 12 09:37	0°♄			16053 Jul 25 10:04	0°♄	
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desc. node	16049 Jan 02 18:19	22°♄47'16		asc. node	16053 Oct 31 04:44	8°♄27'38	
	16049 Jan 13 04:28	0°♄			16053 Nov 29 09:13	0°♄	
evening set	16049 Feb 02 01:59	13°♄33'25			16054 Jan 08 08:27	0°♄	
	16049 Feb 26 17:07	0°♄			16054 Feb 17 14:51	0°♄	
					16054 Apr 01 15:55	0°♄	
conjunction	16049 Mar 22 20:03	15°♄47'39	-0°44'43		16054 May 29 06:17	0°♄	

retrograde	16054 Jun 25 00:17	4° H 42'25		asc. node	16059 Jun 22 06:23	17° Ω 02'13	
	16054 Jul 20 18:09	30° R			16059 Jul 10 06:25	0° M	
min. Earth dist.	16054 Jul 24 20:08	28° \approx 34'35	0.50732 AU		16059 Aug 19 06:19	0° $\underline{\text{A}}$	
opposition	16054 Aug 01 19:53	25° \approx 37'04	1°17'04	evening set	16059 Aug 28 11:40	7° $\underline{\text{A}}$ 06'50	
greatest brilliancy	16054 Aug 01 10:56	25° \approx 45'22	-2.1m		16059 Sep 26 16:48	0° M	
desc. node	16054 Aug 26 04:13	18° \approx 52'23			16059 Nov 03 11:57	0° J	
direct	16054 Sep 05 12:43	18° \approx 09'39					
	16054 Oct 24 23:20	0° H		conjunction	16059 Nov 07 21:53	3° J 30'12	1°08'05
	16054 Dec 24 19:38	0° Y		minimum elong	16059 Nov 07 21:05	3° J 28'37	1°08'44
	16055 Feb 15 03:58	0° B			16059 Dec 11 13:48	0° $\underline{\text{Z}}$	
	16055 Apr 05 13:53	0° II		max. Earth dist.	16059 Dec 24 13:29	10° $\underline{\text{Z}}$ 03'37	2.37248 AU
	16055 May 22 18:44	0° $\underline{\text{B}}$		morning rise	16060 Jan 19 13:55	29° $\underline{\text{Z}}$ 50'17	
evening set	16055 May 23 11:07	0° $\underline{\text{B}}$ 26'40			16060 Jan 19 19:07	0° \approx	
max. Earth dist.	16055 Jun 13 02:53	14° $\underline{\text{B}}$ 02'12	2.58951 AU		16060 Feb 29 21:58	0° H	
	16055 Jul 06 19:27	0° Ω			16060 Apr 13 14:37	0° Y	
				desc. node	16060 Apr 17 04:15	2° Y 21'35	
conjunction	16055 Jul 08 18:41	1° Ω 20'40	-0°43'26		16060 May 30 18:35	0° B	
minimum elong	16055 Jul 08 20:13	1° Ω 23'18	0°44'06		16060 Jul 23 04:21	0° II	
	16055 Aug 18 17:08	0° M		retrograde	16060 Oct 10 13:54	25° II 06'41	
morning rise	16055 Aug 28 06:08	6° M 52'13		opposition	16060 Nov 19 13:47	15° II 48'11	-4°53'07
asc. node	16055 Sep 17 21:03	21° M 57'37		greatest brilliancy	16060 Nov 20 01:06	15° II 37'05	-1.3m
	16055 Sep 28 16:29	0° $\underline{\text{A}}$		min. Earth dist.	16060 Nov 22 10:41	14° II 40'40	0.67252 AU
	16055 Nov 07 03:22	0° M		direct	16060 Dec 31 03:27	5° II 46'21	
	16055 Dec 15 16:59	0° J			16061 Mar 16 14:22	0° $\underline{\text{B}}$	
	16056 Jan 23 06:41	0° $\underline{\text{Z}}$			16061 May 06 03:18	0° Ω	
	16056 Mar 03 00:48	0° \approx		asc. node	16061 May 09 07:58	2° Ω 05'13	
	16056 Apr 14 18:10	0° H			16061 Jun 18 17:45	0° M	
	16056 Jun 04 03:36	0° Y			16061 Jul 28 22:51	0° $\underline{\text{A}}$	
desc. node	16056 Jul 13 09:34	15° Y 24'49			16061 Sep 05 09:27	0° M	
retrograde	16056 Aug 03 08:52	18° Y 06'31			16061 Oct 13 06:05	0° J	
min. Earth dist.	16056 Sep 07 20:34	10° Y 02'40	0.62562 AU	evening set	16061 Nov 13 13:24	24° J 34'53	
opposition	16056 Sep 12 17:05	8° Y 07'46	-2°32'21		16061 Nov 20 13:07	0° $\underline{\text{Z}}$	
greatest brilliancy	16056 Sep 12 04:56	8° Y 19'45	-1.5m		16061 Dec 30 02:50	0° \approx	
	16056 Oct 10 05:01	30° R H					
direct	16056 Oct 21 07:41	29° H 13'01		conjunction	16062 Jan 18 06:50	14° \approx 03'41	0°28'44
	16056 Nov 02 00:12	0° Y		minimum elong	16062 Jan 18 08:49	14° \approx 07'16	0°29'18
	16057 Jan 20 20:29	0° B			16062 Feb 09 13:43	0° H	
	16057 Mar 15 12:57	0° II		max. Earth dist.	16062 Feb 26 18:55	12° H 00'52	2.51328 AU
	16057 May 03 00:47	0° $\underline{\text{B}}$		desc. node	16062 Mar 04 18:34	16° H 07'56	
	16057 Jun 17 04:15	0° Ω		morning rise	16062 Mar 15 02:06	23° H 09'32	
evening set	16057 Jul 02 14:07	10° Ω 41'29			16062 Mar 25 06:10	0° Y	
max. Earth dist.	16057 Jul 16 04:49	20° Ω 19'30	2.46692 AU		16062 May 10 08:19	0° B	
	16057 Jul 29 15:06	0° M			16062 Jun 28 05:37	0° II	
asc. node	16057 Aug 04 11:51	4° M 16'44			16062 Aug 20 19:47	0° $\underline{\text{B}}$	
					16062 Nov 11 22:31	0° Ω	
conjunction	16057 Aug 26 10:07	20° M 32'42	0°15'04	retrograde	16062 Nov 19 03:40	0° Ω 18'11	
minimum elong	16057 Aug 26 09:02	20° M 30'40	0°14'51		16062 Nov 26 03:22	30° R $\underline{\text{B}}$	
behind sun begin	16057 Aug 25 22:54	20° M 11'39		opposition	16062 Dec 26 20:30	21° $\underline{\text{B}}$ 57'44	-3°51'15
behind sun end	16057 Aug 26 19:10	20° M 49'42		greatest brilliancy	16062 Dec 27 19:58	21° $\underline{\text{B}}$ 35'26	-1.6m
	16057 Sep 07 22:09	0° $\underline{\text{A}}$		min. Earth dist.	16063 Jan 02 11:16	19° $\underline{\text{B}}$ 27'08	0.59368 AU
	16057 Oct 16 16:44	0° M		direct	16063 Feb 05 10:13	12° $\underline{\text{B}}$ 10'07	
morning rise	16057 Oct 31 11:10	11° M 37'17		asc. node	16063 Mar 27 12:46	25° $\underline{\text{B}}$ 26'10	
	16057 Nov 23 17:04	0° J			16063 Apr 05 21:18	0° Ω	
	16057 Dec 31 20:06	0° $\underline{\text{Z}}$			16063 May 25 13:58	0° M	
	16058 Feb 09 00:33	0° \approx			16063 Jul 06 11:45	0° $\underline{\text{A}}$	
	16058 Mar 22 06:54	0° H			16063 Aug 14 15:54	0° M	
	16058 May 06 00:25	0° Y			16063 Sep 22 01:46	0° J	
desc. node	16058 May 31 09:34	15° Y 30'55			16063 Oct 30 23:38	0° $\underline{\text{Z}}$	
	16058 Jun 26 16:35	0° B			16063 Dec 10 06:32	0° \approx	
retrograde	16058 Sep 07 00:32	22° B 39'41		evening set	16064 Jan 15 09:18	25° \approx 46'54	
opposition	16058 Oct 17 20:40	12° B 48'30	-4°23'39	desc. node	16064 Jan 20 09:50	29° \approx 17'06	
min. Earth dist.	16058 Oct 16 19:43	13° B 13'13	0.68309 AU		16064 Jan 21 10:30	0° H	
greatest brilliancy	16058 Oct 17 15:33	12° B 53'34	-1.2m		16064 Mar 05 14:49	0° Y	
direct	16058 Nov 27 16:41	3° B 07'21					
	16059 Feb 18 20:57	0° II		conjunction	16064 Mar 07 06:54	1° Y 06'33	-0°28'14
	16059 Apr 12 13:09	0° $\underline{\text{B}}$		minimum elong	16064 Mar 07 05:45	1° Y 04'38	0°28'09
	16059 May 28 18:13	0° Ω		max. Earth dist.	16064 Mar 27 03:26	14° Y 10'22	2.62232 AU

	16064 Apr 20 15:02	0°♄	direct	16069 Aug 13 06:25	28°♄10'27	
morning rise	16064 Apr 23 01:13	1°♄33'06		16069 Aug 30 14:01	0°♄	
	16064 Jun 07 04:22	0°♄	desc. node	16069 Sep 11 15:08	3°♄03'21	
	16064 Jul 26 05:24	0°♄		16069 Nov 11 04:47	0°♄	
	16064 Sep 15 13:55	0°♄		16070 Jan 03 13:28	0°♄	
	16064 Nov 12 21:32	0°♄		16070 Feb 22 21:23	0°♄	
retrograde	16065 Jan 10 02:14	15°♄30'26		16070 Apr 12 13:16	0°♄	
asc. node	16065 Feb 11 18:33	9°♄12'12	evening set	16070 May 09 07:44	16°♄56'47	
opposition	16065 Feb 12 14:46	8°♄55'13 0°03'05		16070 May 29 13:25	0°♄	
greatest brilliancy	16066 Jun 24 21:17	22°♄50'56 1.8m	max. Earth dist.	16070 Jun 02 23:30	2°♄52'53 2.62496 AU	
min. Earth dist.	16065 Feb 21 06:35	6°♄00'57 0.45969 AU				
direct	16065 Mar 21 03:16	0°♄51'18	conjunction	16070 Jun 23 02:34	16°♄08'59 -0°57'44	
	16065 Jun 04 03:55	0°♄	minimum elong	16070 Jun 23 03:57	16°♄11'16 0°58'28	
	16065 Jul 17 23:03	0°♄		16070 Jul 13 17:11	0°♄	
	16065 Aug 27 16:53	0°♄	morning rise	16070 Aug 09 09:27	18°♄21'22	
	16065 Oct 07 09:10	0°♄		16070 Aug 25 22:43	0°♄	
	16065 Nov 18 05:44	0°♄	asc. node	16070 Oct 04 14:53	28°♄43'40	
desc. node	16065 Dec 07 06:52	13°♄16'38		16070 Oct 06 08:12	0°♄	
	16065 Dec 31 18:26	0°♄		16070 Nov 15 05:29	0°♄	
	16066 Feb 14 23:20	0°♄		16070 Dec 24 04:40	0°♄	
evening set	16066 Feb 27 17:11	8°♄17'30		16071 Feb 01 03:49	0°♄	
	16066 Apr 02 11:24	0°♄		16071 Mar 13 12:45	0°♄	
				16071 Apr 26 23:23	0°♄	
conjunction	16066 Apr 14 07:52	7°♄33'16 -1°03'28		16071 Jun 28 23:09	0°♄	
minimum elong	16066 Apr 14 06:44	7°♄31'27 1°03'52	retrograde	16071 Jul 20 17:48	3°♄00'40	
max. Earth dist.	16066 Apr 19 17:10	10°♄58'49 2.67826 AU	desc. node	16071 Jul 30 22:24	2°♄16'04	
	16066 May 19 17:28	0°♄		16071 Aug 10 09:29	30°♄	
morning rise	16066 May 27 15:49	5°♄00'56	min. Earth dist.	16071 Aug 23 04:06	25°♄37'44 0.58547 AU	
	16066 Jul 06 04:56	0°♄	opposition	16071 Aug 29 10:18	23°♄11'27 -1°21'02	
	16066 Aug 22 14:30	0°♄	greatest brilliancy	16071 Aug 29 01:45	23°♄19'47 -1.7m	
	16066 Oct 08 22:21	0°♄	direct	16071 Oct 05 17:11	14°♄44'33	
	16066 Nov 25 16:22	0°♄		16071 Dec 03 09:15	0°♄	
asc. node	16066 Dec 30 23:29	21°♄20'49		16072 Jan 31 20:38	0°♄	
	16067 Jan 15 04:07	0°♄		16072 Mar 23 07:24	0°♄	
retrograde	16067 Mar 29 22:04	25°♄49'39		16072 May 10 03:42	0°♄	
opposition	16067 Apr 28 07:19	20°♄57'10 7°07'45	evening set	16072 Jun 15 09:43	24°♄00'17	
greatest brilliancy	16067 Apr 28 06:17	20°♄57'51 -3.0m		16072 Jun 24 04:47	0°♄	
min. Earth dist.	16067 Apr 28 06:48	20°♄57'31 0.36369 AU	max. Earth dist.	16072 Jun 30 18:46	4°♄31'50 2.51953 AU	
direct	16067 May 27 11:42	16°♄05'36				
	16067 Jul 16 06:17	0°♄	conjunction	16072 Aug 04 22:01	29°♄22'01 -0°11'03	
	16067 Sep 07 01:37	0°♄	minimum elong	16072 Aug 04 22:40	29°♄23'12 0°11'29	
	16067 Oct 24 08:25	0°♄	behind sun begin	16072 Aug 04 06:26	28°♄53'55	
desc. node	16067 Oct 25 09:06	0°♄39'33	behind sun end	16072 Aug 05 14:54	29°♄52'31	
	16067 Dec 10 04:36	0°♄		16072 Aug 05 19:02	0°♄	
	16068 Jan 26 11:50	0°♄	asc. node	16072 Aug 21 06:43	11°♄18'22	
	16068 Mar 14 04:01	0°♄		16072 Sep 15 07:31	0°♄	
evening set	16068 Apr 04 09:10	13°♄20'49	morning rise	16072 Oct 02 12:42	13°♄07'41	
	16068 Apr 30 17:56	0°♄		16072 Oct 24 07:25	0°♄	
max. Earth dist.	16068 May 10 12:28	6°♄12'09 2.67900 AU		16072 Dec 01 11:46	0°♄	
				16073 Jan 08 17:18	0°♄	
conjunction	16068 May 17 23:00	10°♄56'14 -1°13'54		16073 Feb 17 00:09	0°♄	
minimum elong	16068 May 17 23:06	10°♄56'23 1°14'36		16073 Mar 30 13:24	0°♄	
	16068 Jun 16 16:16	0°♄		16073 May 15 08:26	0°♄	
morning rise	16068 Jun 30 07:59	8°♄51'10	desc. node	16073 Jun 17 00:55	18°♄30'10	
	16068 Aug 01 12:33	0°♄		16073 Jul 11 22:13	0°♄	
	16068 Sep 15 00:48	0°♄	retrograde	16073 Aug 24 19:30	9°♄57'02	
	16068 Oct 28 02:54	0°♄	min. Earth dist.	16073 Oct 02 01:34	1°♄00'04 0.66864 AU	
asc. node	16068 Nov 16 22:37	14°♄07'04	opposition	16073 Oct 04 15:06	29°♄59'05 -3°51'20	
	16068 Dec 08 22:58	0°♄	greatest brilliancy	16073 Oct 04 05:18	0°♄08'48 -1.3m	
	16069 Jan 19 04:00	0°♄		16073 Oct 04 14:11	30°♄	
	16069 Mar 02 11:04	0°♄	direct	16073 Nov 13 18:43	20°♄32'45	
	16069 Apr 20 23:05	0°♄		16073 Dec 28 11:12	0°♄	
retrograde	16069 Jun 05 17:53	12°♄52'30		16074 Mar 01 02:49	0°♄	
min. Earth dist.	16069 Jul 03 04:03	7°♄39'29 0.45174 AU		16074 Apr 20 13:15	0°♄	
opposition	16069 Jul 11 13:51	4°♄45'44 3°29'47		16074 Jun 05 05:03	0°♄	
greatest brilliancy	16069 Jul 10 13:54	5°♄06'30 -2.4m	asc. node	16074 Jul 09 00:11	23°♄44'05	
	16069 Jul 27 16:05	30°♄		16074 Jul 17 15:37	0°♄	

evening set	16074 Aug 03 08:44	12° \mathbb{M} 19'49			16079 Mar 13 13:35	0° Υ	
max. Earth dist.	16074 Aug 25 15:10	29° \mathbb{M} 09'26	2.38260 AU	max. Earth dist.	16079 Mar 17 21:45	2° Υ 53'24	2.58542 AU
	16074 Aug 26 17:35	0° $\underline{\mathbb{L}}$		morning rise	16079 Apr 09 11:42	17° Υ 44'03	
	16074 Oct 04 06:29	0° \mathbb{M}			16079 Apr 28 12:11	0° \mathcal{B}	
					16079 Jun 15 09:17	0° \mathbb{I}	
conjunction	16074 Oct 07 05:10	2° \mathbb{M} 19'24	0°55'34		16079 Aug 04 13:51	0° \mathcal{C}	
minimum elong	16074 Oct 07 01:23	2° \mathbb{M} 11'56	0°55'53		16079 Sep 28 11:57	0° \mathcal{Q}	
	16074 Nov 11 02:48	0° \mathcal{X}		retrograde	16079 Dec 18 23:41	26° \mathcal{Q} 07'47	
	16074 Dec 19 03:57	0° \mathcal{Z}		opposition	16080 Jan 23 09:47	18° \mathcal{Q} 43'32	-1°58'24
morning rise	16074 Dec 21 05:43	1° \mathcal{Z} 37'02		greatest brilliancy	16080 Jan 24 02:41	18° \mathcal{Q} 28'16	-2.1m
	16075 Jan 27 07:19	0° \approx		min. Earth dist.	16080 Jan 31 18:23	15° \mathcal{Q} 43'19	0.51614 AU
	16075 Mar 09 09:07	0° \mathcal{H}		asc. node	16080 Feb 29 07:51	9° \mathcal{Q} 42'56	
	16075 Apr 22 06:10	0° Υ		direct	16080 Mar 02 01:04	9° \mathcal{Q} 41'41	
desc. node	16075 May 04 20:27	8° Υ 10'20			16080 May 02 17:03	0° \mathbb{M}	
	16075 Jun 09 09:29	0° \mathcal{B}			16080 Jun 18 10:42	0° $\underline{\mathbb{L}}$	
	16075 Aug 06 18:31	0° \mathbb{I}			16080 Jul 29 06:08	0° \mathbb{M}	
retrograde	16075 Sep 27 21:01	12° \mathbb{I} 39'28			16080 Sep 06 15:07	0° \mathcal{X}	
opposition	16075 Nov 07 08:32	3° \mathbb{I} 05'36	-4°50'57		16080 Oct 16 08:26	0° \mathcal{Z}	
greatest brilliancy	16075 Nov 07 13:04	3° \mathbb{I} 01'08	-1.2m		16080 Nov 26 09:49	0° \approx	
min. Earth dist.	16075 Nov 08 16:23	2° \mathbb{I} 34'14	0.68494 AU	desc. node	16080 Dec 23 22:05	19° \approx 24'21	
	16075 Nov 15 08:10	30° \mathcal{R} \mathcal{B}			16081 Jan 08 06:39	0° \mathcal{H}	
direct	16075 Dec 18 19:33	23° \mathcal{B} 08'58		evening set	16081 Feb 11 19:00	23° \mathcal{H} 15'34	
	16076 Jan 24 12:57	0° \mathbb{I}			16081 Feb 21 23:39	0° Υ	
	16076 Mar 27 14:09	0° \mathcal{C}					
	16076 May 14 16:54	0° \mathcal{Q}		conjunction	16081 Mar 31 05:14	24° Υ 13'10	-0°52'44
asc. node	16076 May 25 21:52	7° \mathcal{Q} 33'34		minimum elong	16081 Mar 31 03:51	24° Υ 10'58	0°52'57
	16076 Jun 26 17:15	0° \mathbb{M}			16081 Apr 09 05:20	0° \mathcal{B}	
	16076 Aug 05 18:54	0° $\underline{\mathbb{L}}$		max. Earth dist.	16081 Apr 10 19:04	1° \mathcal{B} 00'25	2.66293 AU
	16076 Sep 13 04:34	0° \mathbb{M}		morning rise	16081 May 14 10:18	22° \mathcal{B} 23'16	
evening set	16076 Oct 13 09:25	23° \mathbb{M} 58'11			16081 May 26 12:00	0° \mathbb{I}	
	16076 Oct 20 23:47	0° \mathcal{X}			16081 Jul 13 09:53	0° \mathcal{C}	
	16076 Nov 28 03:43	0° \mathcal{Z}			16081 Aug 30 21:08	0° \mathcal{Q}	
					16081 Oct 19 10:50	0° \mathbb{M}	
conjunction	16076 Dec 24 04:34	19° \mathcal{Z} 58'23	0°51'43		16081 Dec 11 16:27	0° $\underline{\mathbb{L}}$	
minimum elong	16076 Dec 24 07:56	20° \mathcal{Z} 04'44	0°52'25	asc. node	16082 Jan 16 13:02	16° $\underline{\mathbb{L}}$ 26'10	
	16077 Jan 06 12:45	0° \approx		retrograde	16082 Feb 24 09:10	24° $\underline{\mathbb{L}}$ 38'47	
max. Earth dist.	16077 Feb 10 17:52	25° \approx 42'20	2.45812 AU	opposition	16082 Mar 26 13:40	19° $\underline{\mathbb{L}}$ 28'36	4°42'04
	16077 Feb 16 18:49	0° \mathcal{H}		greatest brilliancy	16082 Mar 27 09:03	19° $\underline{\mathbb{L}}$ 14'46	-2.9m
morning rise	16077 Feb 24 03:23	5° \mathcal{H} 11'13		min. Earth dist.	16082 Mar 31 21:31	17° $\underline{\mathbb{L}}$ 57'40	0.38342 AU
desc. node	16077 Mar 21 12:48	22° \mathcal{H} 42'09		direct	16082 Apr 27 07:59	13° $\underline{\mathbb{L}}$ 37'32	
	16077 Apr 01 08:51	0° Υ			16082 Jun 19 07:08	0° \mathbb{M}	
	16077 May 17 16:17	0° \mathcal{B}			16082 Aug 07 07:05	0° \mathcal{X}	
	16077 Jul 06 15:05	0° \mathbb{I}			16082 Sep 20 12:09	0° \mathcal{Z}	
	16077 Sep 02 18:02	0° \mathcal{C}			16082 Nov 03 14:01	0° \approx	
retrograde	16077 Nov 02 18:26	16° \mathcal{C} 08'54		desc. node	16082 Nov 10 22:03	4° \approx 56'00	
opposition	16077 Dec 11 13:31	7° \mathcal{C} 21'49	-4°28'56		16082 Dec 18 16:13	0° \mathcal{H}	
greatest brilliancy	16077 Dec 12 09:56	7° \mathcal{C} 02'06	-1.5m		16083 Feb 02 22:28	0° Υ	
min. Earth dist.	16077 Dec 16 18:19	5° \mathcal{C} 21'24	0.63233 AU	evening set	16083 Mar 22 13:40	0° \mathcal{B} 20'00	
	16078 Jan 01 20:58	30° \mathcal{R} \mathbb{I}			16083 Mar 22 01:02	0° \mathcal{B}	
direct	16078 Jan 21 18:39	27° \mathbb{I} 22'40		max. Earth dist.	16083 May 03 02:41	26° \mathcal{B} 37'54	2.68532 AU
	16078 Feb 11 21:41	0° \mathcal{C}					
asc. node	16078 Apr 13 01:01	26° \mathcal{C} 10'51		conjunction	16083 May 05 12:59	28° \mathcal{B} 10'17	-1°12'54
	16078 Apr 19 13:30	0° \mathcal{Q}		minimum elong	16083 May 05 12:32	28° \mathcal{B} 09'34	1°13'30
	16078 Jun 04 11:44	0° \mathbb{M}			16083 May 08 10:14	0° \mathbb{I}	
	16078 Jul 15 10:15	0° $\underline{\mathbb{L}}$		morning rise	16083 Jun 17 12:13	25° \mathbb{I} 31'25	
	16078 Aug 23 04:27	0° \mathbb{M}			16083 Jun 24 11:51	0° \mathcal{C}	
	16078 Sep 30 07:16	0° \mathcal{X}			16083 Aug 09 19:32	0° \mathcal{Q}	
	16078 Nov 07 21:40	0° \mathcal{Z}			16083 Sep 24 03:24	0° \mathbb{M}	
	16078 Dec 17 20:09	0° \approx			16083 Nov 07 09:54	0° $\underline{\mathbb{L}}$	
evening set	16078 Dec 24 19:43	5° \approx 06'37		asc. node	16083 Dec 04 14:52	18° $\underline{\mathbb{L}}$ 44'24	
	16079 Jan 28 15:48	0° \mathcal{H}			16083 Dec 20 21:10	0° \mathbb{M}	
desc. node	16079 Feb 06 04:42	5° \mathcal{H} 56'55			16084 Feb 02 15:22	0° \mathcal{X}	
					16084 Mar 22 08:03	0° \mathcal{Z}	
conjunction	16079 Feb 19 01:50	14° \mathcal{H} 48'47	-0°08'08	retrograde	16084 May 13 18:40	16° \mathcal{Z} 19'00	
minimum elong	16079 Feb 19 01:26	14° \mathcal{H} 48'05	0°07'51	min. Earth dist.	16084 Jun 08 16:43	11° \mathcal{Z} 51'35	0.40081 AU
behind sun begin	16079 Feb 18 06:09	14° \mathcal{H} 15'09		opposition	16084 Jun 15 21:55	9° \mathcal{Z} 38'33	5°53'54
behind sun end	16079 Feb 19 20:43	15° \mathcal{H} 20'59		greatest brilliancy	16084 Jun 14 13:24	10° \mathcal{Z} 03'39	-2.7m

direct	16084 Jul 16 08:13	4°  03'07		conjunction	16089 Sep 09 05:11	4°  40'47	0°30'49
desc. node	16084 Sep 28 03:33	28°  26'29		minimum elong	16089 Sep 09 02:46	4°  36'09	0°30'46
	16084 Oct 01 03:11	0° 			16089 Oct 11 19:01	0° 	
	16084 Nov 23 06:00	0° 		morning rise	16089 Nov 18 12:43	29°  49'41	
	16085 Jan 12 06:04	0° 			16089 Nov 18 17:55	0° 	
	16085 Mar 02 06:13	0° 			16089 Dec 26 19:57	0° 	
	16085 Apr 19 09:22	0° 			16090 Feb 03 23:06	0° 	
evening set	16085 Apr 25 15:06	3°  156'25			16090 Mar 17 02:12	0° 	
max. Earth dist.	16085 May 24 11:22	22°  20'44	2.65275 AU		16090 Apr 30 08:36	0° 	
	16085 Jun 05 07:26	0° 		desc. node	16090 May 21 14:17	13°  41'38	
					16090 Jun 19 04:56	0° 	
conjunction	16085 Jun 08 12:28	2°  05'11	-1°07'25		16090 Sep 07 12:33	0° 	
minimum elong	16085 Jun 08 13:25	2°  06'44	1°08'10	retrograde	16090 Sep 14 13:28	0°  11'52	
	16085 Jul 20 16:28	0° 			16090 Sep 21 09:27	30°  48'08	
morning rise	16085 Jul 23 16:00	2°  00'41		opposition	16090 Oct 25 07:41	20°  31'54	-4°37'15
	16085 Sep 02 08:03	0° 		greatest brilliancy	16090 Oct 25 05:43	20°  33'50	-1.2m
	16085 Oct 14 06:21	0° 		min. Earth dist.	16090 Oct 25 02:35	20°  36'56	0.68663 AU
asc. node	16085 Oct 21 10:34	5°  15'09		direct	16090 Dec 05 10:35	10°  44'20	
	16085 Nov 23 17:03	0° 			16091 Feb 10 20:10	0° 	
	16086 Jan 02 05:41	0° 			16091 Apr 06 20:59	0° 	
	16086 Feb 10 20:34	0° 			16091 May 23 16:20	0° 	
	16086 Mar 24 11:01	0° 		asc. node	16091 Jun 12 13:23	13°  40'59	
	16086 May 12 08:01	0° 			16091 Jul 05 08:52	0° 	
retrograde	16086 Jul 04 20:27	16°  40'31'16			16091 Aug 14 09:35	0° 	
min. Earth dist.	16086 Aug 05 00:40	9°  42'50	0.53706 AU	evening set	16091 Sep 13 10:29	23°  42'30'08	
opposition	16086 Aug 12 12:04	6°  43'32	0°11'47		16091 Sep 21 19:39	0° 	
greatest brilliancy	16076 May 01 23:03	21°  38'32	1.3m		16091 Oct 29 14:29	0° 	
desc. node	16086 Aug 16 09:53	5°  49'00					
	16086 Sep 03 11:01	30° 		conjunction	16091 Nov 25 19:39	21°  43'16	1°06'43
direct	16086 Sep 17 04:36	28°  45'08		minimum elong	16091 Nov 25 21:28	21°  33'49	1°07'27
	16086 Oct 01 18:48	0° 			16091 Dec 06 16:28	0° 	
	16086 Dec 17 10:47	0° 			16092 Jan 14 22:08	0° 	
	16087 Feb 09 14:47	0° 		max. Earth dist.	16092 Jan 18 06:51	2°  30'46	2.40101 AU
	16087 Mar 31 15:52	0° 		morning rise	16092 Feb 02 23:14	14°  45'36	
	16087 May 18 01:55	0° 			16092 Feb 25 01:01	0° 	
evening set	16087 May 31 20:00	8°  45'59'47		desc. node	16092 Apr 07 06:57	29°  45'06'33	
max. Earth dist.	16087 Jun 19 12:31	21°  42'6'47	2.56669 AU		16092 Apr 08 14:59	0° 	
	16087 Jul 02 03:07	0° 			16092 May 25 08:25	0° 	
					16092 Jul 16 00:57	0° 	
conjunction	16087 Jul 18 08:11	11°  40'57	-0°32'59		16092 Sep 25 09:34	0° 	
minimum elong	16087 Jul 18 09:37	11°  41'3'25	0°33'35	retrograde	16092 Oct 18 17:54	2°  45'55'21	
	16087 Aug 13 22:38	0° 			16092 Nov 09 07:11	30°  45'48'11	
asc. node	16087 Sep 08 01:28	18°  47'18'04		opposition	16092 Nov 27 08:50	23°  46'51	-4°48'27
morning rise	16087 Sep 09 04:37	19°  47'08'12		greatest brilliancy	16092 Nov 27 23:41	23°  47'32'22	-1.3m
	16087 Sep 23 18:33	0° 		min. Earth dist.	16092 Dec 01 01:32	22°  47'20'20	0.66105 AU
	16087 Nov 02 01:37	0° 		direct	16093 Jan 07 21:14	13°  47'44'28	
	16087 Dec 10 11:44	0° 			16093 Mar 07 17:04	0° 	
	16088 Jan 17 21:36	0° 		asc. node	16093 Apr 29 14:36	29°  47'41'59	
	16088 Feb 26 09:31	0° 			16093 Apr 30 01:57	0° 	
	16088 Apr 08 11:54	0° 			16093 Jun 13 08:22	0° 	
	16088 May 26 08:47	0° 			16093 Jul 23 19:06	0° 	
desc. node	16088 Jul 03 14:29	18°  47'25'22			16093 Aug 31 08:05	0° 	
retrograde	16088 Aug 11 07:34	26°  47'39'06			16093 Oct 08 06:27	0° 	
min. Earth dist.	16088 Sep 16 20:16	18°  47'15'21	0.64366 AU		16093 Nov 15 15:19	0° 	
opposition	16088 Sep 20 21:56	16°  47'38'47	-3°06'08	evening set	16093 Nov 29 13:18	10°  47'30'07	
greatest brilliancy	16088 Sep 20 09:36	16°  47'50'58	-1.4m		16093 Dec 25 06:56	0° 	
direct	16088 Oct 30 03:39	7°  47'31'25					
	16089 Jan 13 02:19	0° 		conjunction	16094 Jan 30 14:35	26°  47'19'05	0°14'54
	16089 Mar 09 23:18	0° 		minimum elong	16094 Jan 30 15:33	26°  47'20'48	0°15'21
	16089 Apr 28 01:46	0° 		behind sun begin	16094 Jan 30 09:13	26°  47'09'36	
	16089 Jun 12 09:41	0° 		behind sun end	16094 Jan 30 21:53	26°  47'32'01	
evening set	16089 Jul 13 06:07	21°  47'37'10			16094 Feb 04 19:40	0° 	
	16089 Jul 24 20:47	0° 		desc. node	16094 Feb 22 21:51	12°  47'36'23	
asc. node	16089 Jul 25 16:49	0°  47'36'26		max. Earth dist.	16094 Mar 06 09:49	20°  47'28'37	2.54087 AU
max. Earth dist.	16089 Jul 27 09:10	1°  47'49'59	2.43615 AU		16094 Mar 20 12:35	0° 	
	16089 Sep 03 02:22	0° 		morning rise	16094 Mar 24 17:59	2°  47'49'14	
					16094 May 05 11:54	0° 	

	16094 Jun 22 21:35	0°♄		16099 Oct 16 22:15	0°♊	
	16094 Aug 13 20:50	0°♅		16099 Dec 04 05:39	0°♈	
	16094 Oct 15 19:20	0°♎		16100 Jan 21 06:54	0°♐	
retrograde	16094 Nov 29 06:47	9°♎28'01		16100 Mar 10 08:48	0°♉	
opposition	16095 Jan 05 06:05	1°♎25'16 -3°18'38	evening set	16100 Apr 13 03:27	21°♉10'54	
greatest brilliancy	16095 Jan 06 05:08	1°♎03'40 -1.8m		16100 Apr 27 02:49	0°♈	
	16095 Jan 09 00:50	30°♈♅	max. Earth dist.	16100 May 16 12:34	12°♈19'39 2.67198 AU	
min. Earth dist.	16095 Jan 12 13:55	28°♅40'55 0.56798 AU				
direct	16095 Feb 14 06:37	21°♅49'31	conjunction	16100 May 26 16:38	18°♈49'45 -1°12'45	
asc. node	16095 Mar 17 19:45	27°♅44'13	minimum elong	16100 May 26 17:03	18°♈50'26 1°13'28	
	16095 Mar 23 22:29	0°♎		16100 Jun 13 00:49	0°♅	
	16095 May 18 08:52	0°♐	morning rise	16100 Jul 09 12:19	17°♅16'51	
	16095 Jun 30 08:45	0°♊		16100 Jul 28 16:56	0°♎	
	16095 Aug 08 23:05	0°♌		16100 Sep 10 21:12	0°♐	
	16095 Sep 16 15:17	0°♑		16100 Oct 23 12:26	0°♊	
	16095 Oct 25 18:36	0°♉	asc. node	16100 Nov 08 03:18	11°♊15'23	
	16095 Dec 05 06:32	0°♊		16100 Dec 03 18:31	0°♌	
desc. node	16096 Jan 10 14:57	25°♊49'48		16101 Jan 13 05:16	0°♑	
	16096 Jan 16 15:07	0°♈		16101 Feb 23 03:22	0°♉	
evening set	16096 Jan 26 06:10	6°♈37'48		16101 Apr 08 19:47	0°♊	
	16096 Feb 29 22:34	0°♐	retrograde	16101 Jun 17 23:42	26°♊11'45	
			min. Earth dist.	16101 Jul 16 17:56	20°♊27'57 0.48248 AU	
conjunction	16096 Mar 16 06:43	10°♐06'29 -0°38'17	greatest brilliancy	16101 Jul 24 09:09	17°♊42'47 -2.3m	
minimum elong	16096 Mar 16 05:23	10°♐04'17 0°38'19	opposition	16101 Jul 25 00:31	17°♊28'51 2°10'59	
max. Earth dist.	16096 Apr 01 16:06	20°♐46'51 2.63907 AU	direct	16101 Aug 27 19:53	10°♊23'24	
	16096 Apr 15 23:36	0°♉	desc. node	16101 Sep 02 22:29	10°♊37'39	
morning rise	16096 Apr 30 22:37	9°♉33'04		16101 Nov 02 10:30	0°♈	
	16096 Jun 02 09:14	0°♈		16101 Dec 29 06:11	0°♐	
	16096 Jul 20 22:23	0°♅				
	16096 Sep 08 23:45	0°♎				
	16096 Nov 01 16:15	0°♐				
retrograde	16097 Jan 25 01:59	28°♐31'36				
asc. node	16097 Feb 02 03:13	28°♐06'55				
opposition	16097 Feb 26 07:23	22°♐27'53 1°34'16				
greatest brilliancy	16097 Feb 26 18:43	22°♐18'50 -2.6m				
min. Earth dist.	16097 Mar 06 12:13	19°♐51'14 0.42889 AU				
direct	16097 Apr 02 07:48	15°♐07'31				
	16097 May 22 04:40	0°♊				
	16097 Jul 09 13:53	0°♌				
	16097 Aug 20 17:59	0°♑				
	16097 Oct 01 05:54	0°♉				
	16097 Nov 12 16:18	0°♊				
desc. node	16097 Nov 27 11:28	10°♊13'13				
	16097 Dec 26 15:34	0°♈				
	16098 Feb 10 03:46	0°♐				
evening set	16098 Mar 08 06:21	16°♐50'58				
	16098 Mar 28 20:04	0°♉				
conjunction	16098 Apr 22 03:01	15°♉26'18 -1°08'04				
minimum elong	16098 Apr 22 02:05	15°♉24'51 1°08'32				
max. Earth dist.	16098 Apr 24 16:40	17°♉04'04 2.68322 AU				
	16098 May 15 02:29	0°♈				
morning rise	16098 Jun 04 04:14	12°♈43'03				
	16098 Jul 01 09:41	0°♅				
	16098 Aug 17 08:48	0°♎				
	16098 Oct 02 20:21	0°♐				
	16098 Nov 18 00:05	0°♊				
asc. node	16098 Dec 21 06:43	21°♊29'15				
	16099 Jan 03 17:13	0°♌				
	16099 Feb 24 14:53	0°♑				
retrograde	16099 Apr 16 18:29	14°♑50'17				
min. Earth dist.	16099 May 13 21:13	10°♑26'44 0.36789 AU				
greatest brilliancy	16099 May 16 07:25	9°♑47'10 -3.0m				
opposition	16099 May 17 01:05	9°♑35'07 7°23'34				
direct	16099 Jun 15 03:39	4°♑43'52				
	16099 Aug 26 23:12	0°♉				
desc. node	16099 Oct 15 14:27	29°♉11'12				