

Sun

Sakaeo

Location: E102°04'37.1", N13°48'10.8", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)			Begin Nautical Twilight	Rise	Az.	Transit Alt.	Set	Az.	End Nautical Twilight
			h m	h m	°	h m °	h m °		h m
2024	Jan	01 (Mon)	05:45	06:35	114	12:15 54S	17:55	246	18:44
2024	Jan	02 (Tue)	05:46	06:35	113	12:15 54S	17:55	247	18:45
2024	Jan	03 (Wed)	05:46	06:36	113	12:16 54S	17:56	247	18:46
2024	Jan	04 (Thu)	05:47	06:36	113	12:16 54S	17:56	247	18:46
2024	Jan	05 (Fri)	05:47	06:36	113	12:17 54S	17:57	247	18:47
2024	Jan	06 (Sat)	05:47	06:37	113	12:17 54S	17:58	247	18:47
2024	Jan	07 (Sun)	05:48	06:37	113	12:18 54S	17:58	247	18:48
2024	Jan	08 (Mon)	05:48	06:37	113	12:18 55S	17:59	247	18:48
2024	Jan	09 (Tue)	05:48	06:38	113	12:18 55S	17:59	247	18:49
2024	Jan	10 (Wed)	05:49	06:38	113	12:19 55S	18:00	248	18:49
2024	Jan	11 (Thu)	05:49	06:38	112	12:19 55S	18:01	248	18:50
2024	Jan	12 (Fri)	05:49	06:38	112	12:20 55S	18:01	248	18:50
2024	Jan	13 (Sat)	05:49	06:39	112	12:20 55S	18:02	248	18:51
2024	Jan	14 (Sun)	05:50	06:39	112	12:20 56S	18:02	248	18:51
2024	Jan	15 (Mon)	05:50	06:39	112	12:21 56S	18:03	248	18:52
2024	Jan	16 (Tue)	05:50	06:39	112	12:21 56S	18:03	249	18:52
2024	Jan	17 (Wed)	05:50	06:39	111	12:22 56S	18:04	249	18:53
2024	Jan	18 (Thu)	05:51	06:39	111	12:22 56S	18:04	249	18:53
2024	Jan	19 (Fri)	05:51	06:39	111	12:22 56S	18:05	249	18:54
2024	Jan	20 (Sat)	05:51	06:40	111	12:22 57S	18:06	249	18:54
2024	Jan	21 (Sun)	05:51	06:40	110	12:23 57S	18:06	250	18:55
2024	Jan	22 (Mon)	05:51	06:40	110	12:23 57S	18:07	250	18:55
2024	Jan	23 (Tue)	05:51	06:40	110	12:23 57S	18:07	250	18:56
2024	Jan	24 (Wed)	05:51	06:40	110	12:24 58S	18:08	250	18:56
2024	Jan	25 (Thu)	05:51	06:40	110	12:24 58S	18:08	251	18:56
2024	Jan	26 (Fri)	05:51	06:40	109	12:24 58S	18:09	251	18:57
2024	Jan	27 (Sat)	05:51	06:40	109	12:24 58S	18:09	251	18:57
2024	Jan	28 (Sun)	05:51	06:40	109	12:24 59S	18:10	251	18:58
2024	Jan	29 (Mon)	05:51	06:39	108	12:25 59S	18:10	252	18:58
2024	Jan	30 (Tue)	05:51	06:39	108	12:25 59S	18:10	252	18:59
2024	Jan	31 (Wed)	05:51	06:39	108	12:25 59S	18:11	252	18:59
2024	Feb	01 (Thu)	05:51	06:39	108	12:25 60S	18:11	253	18:59
2024	Feb	02 (Fri)	05:51	06:39	107	12:25 60S	18:12	253	19:00
2024	Feb	03 (Sat)	05:51	06:39	107	12:25 60S	18:12	253	19:00
2024	Feb	04 (Sun)	05:51	06:39	107	12:26 61S	18:13	253	19:00
2024	Feb	05 (Mon)	05:51	06:38	106	12:26 61S	18:13	254	19:01
2024	Feb	06 (Tue)	05:51	06:38	106	12:26 61S	18:13	254	19:01
2024	Feb	07 (Wed)	05:50	06:38	106	12:26 61S	18:14	254	19:01
2024	Feb	08 (Thu)	05:50	06:38	105	12:26 62S	18:14	255	19:02
2024	Feb	09 (Fri)	05:50	06:37	105	12:26 62S	18:15	255	19:02
2024	Feb	10 (Sat)	05:50	06:37	105	12:26 62S	18:15	255	19:02
2024	Feb	11 (Sun)	05:49	06:37	104	12:26 63S	18:15	256	19:02
2024	Feb	12 (Mon)	05:49	06:36	104	12:26 63S	18:16	256	19:03
2024	Feb	13 (Tue)	05:49	06:36	104	12:26 63S	18:16	256	19:03
2024	Feb	14 (Wed)	05:49	06:36	103	12:26 64S	18:16	257	19:03
2024	Feb	15 (Thu)	05:48	06:35	103	12:26 64S	18:17	257	19:04
2024	Feb	16 (Fri)	05:48	06:35	103	12:26 64S	18:17	257	19:04
2024	Feb	17 (Sat)	05:48	06:34	102	12:26 65S	18:17	258	19:04
2024	Feb	18 (Sun)	05:47	06:34	102	12:26 65S	18:17	258	19:04
2024	Feb	19 (Mon)	05:47	06:34	102	12:26 65S	18:18	258	19:04
2024	Feb	20 (Tue)	05:46	06:33	101	12:25 66S	18:18	259	19:05
2024	Feb	21 (Wed)	05:46	06:33	101	12:25 66S	18:18	259	19:05
2024	Feb	22 (Thu)	05:46	06:32	101	12:25 67S	18:18	260	19:05
2024	Feb	23 (Fri)	05:45	06:32	100	12:25 67S	18:19	260	19:05
2024	Feb	24 (Sat)	05:45	06:31	100	12:25 67S	18:19	260	19:05
2024	Feb	25 (Sun)	05:44	06:31	99	12:25 68S	18:19	261	19:06
2024	Feb	26 (Mon)	05:44	06:30	99	12:25 68S	18:19	261	19:06
2024	Feb	27 (Tue)	05:43	06:30	99	12:25 68S	18:20	262	19:06
2024	Feb	28 (Wed)	05:43	06:29	98	12:24 69S	18:20	262	19:06
2024	Feb	29 (Thu)	05:42	06:29	98	12:24 69S	18:20	262	19:06

2024	Mar	01	(Fri)	05:42	06:28	98	12:24	70S	18:20	263	19:06
2024	Mar	02	(Sat)	05:41	06:27	97	12:24	70S	18:20	263	19:07
2024	Mar	03	(Sun)	05:41	06:27	97	12:24	70S	18:20	263	19:07
2024	Mar	04	(Mon)	05:40	06:26	96	12:23	71S	18:21	264	19:07
2024	Mar	05	(Tue)	05:39	06:26	96	12:23	71S	18:21	264	19:07
2024	Mar	06	(Wed)	05:39	06:25	96	12:23	71S	18:21	265	19:07
2024	Mar	07	(Thu)	05:38	06:24	95	12:23	72S	18:21	265	19:07
2024	Mar	08	(Fri)	05:38	06:24	95	12:22	72S	18:21	265	19:07
2024	Mar	09	(Sat)	05:37	06:23	94	12:22	73S	18:21	266	19:07
2024	Mar	10	(Sun)	05:36	06:22	94	12:22	73S	18:22	266	19:08
2024	Mar	11	(Mon)	05:36	06:22	94	12:22	73S	18:22	267	19:08
2024	Mar	12	(Tue)	05:35	06:21	93	12:21	74S	18:22	267	19:08
2024	Mar	13	(Wed)	05:35	06:21	93	12:21	74S	18:22	267	19:08
2024	Mar	14	(Thu)	05:34	06:20	92	12:21	75S	18:22	268	19:08
2024	Mar	15	(Fri)	05:33	06:19	92	12:21	75S	18:22	268	19:08
2024	Mar	16	(Sat)	05:33	06:19	91	12:20	75S	18:22	269	19:08
2024	Mar	17	(Sun)	05:32	06:18	91	12:20	76S	18:22	269	19:08
2024	Mar	18	(Mon)	05:31	06:17	91	12:20	76S	18:22	270	19:08
2024	Mar	19	(Tue)	05:31	06:16	90	12:19	77S	18:22	270	19:08
2024	Mar	20	(Wed)	05:30	06:16	90	12:19	77S	18:23	270	19:09
2024	Mar	21	(Thu)	05:29	06:15	89	12:19	77S	18:23	271	19:09
2024	Mar	22	(Fri)	05:28	06:14	89	12:18	78S	18:23	271	19:09
2024	Mar	23	(Sat)	05:28	06:14	89	12:18	78S	18:23	272	19:09
2024	Mar	24	(Sun)	05:27	06:13	88	12:18	79S	18:23	272	19:09
2024	Mar	25	(Mon)	05:26	06:12	88	12:18	79S	18:23	272	19:09
2024	Mar	26	(Tue)	05:26	06:12	87	12:17	79S	18:23	273	19:09
2024	Mar	27	(Wed)	05:25	06:11	87	12:17	80S	18:23	273	19:09
2024	Mar	28	(Thu)	05:24	06:10	87	12:17	80S	18:23	274	19:09
2024	Mar	29	(Fri)	05:23	06:10	86	12:16	80S	18:23	274	19:10
2024	Mar	30	(Sat)	05:23	06:09	86	12:16	81S	18:23	274	19:10
2024	Mar	31	(Sun)	05:22	06:08	85	12:16	81S	18:24	275	19:10
2024	Apr	01	(Mon)	05:21	06:08	85	12:15	82S	18:24	275	19:10
2024	Apr	02	(Tue)	05:21	06:07	85	12:15	82S	18:24	276	19:10
2024	Apr	03	(Wed)	05:20	06:06	84	12:15	82S	18:24	276	19:10
2024	Apr	04	(Thu)	05:19	06:06	84	12:15	83S	18:24	276	19:10
2024	Apr	05	(Fri)	05:18	06:05	83	12:14	83S	18:24	277	19:10
2024	Apr	06	(Sat)	05:18	06:04	83	12:14	84S	18:24	277	19:11
2024	Apr	07	(Sun)	05:17	06:04	83	12:14	84S	18:24	278	19:11
2024	Apr	08	(Mon)	05:16	06:03	82	12:13	84S	18:24	278	19:11
2024	Apr	09	(Tue)	05:16	06:02	82	12:13	85S	18:24	278	19:11
2024	Apr	10	(Wed)	05:15	06:02	82	12:13	85S	18:24	279	19:11
2024	Apr	11	(Thu)	05:14	06:01	81	12:13	85S	18:25	279	19:11
2024	Apr	12	(Fri)	05:14	06:00	81	12:12	86S	18:25	279	19:12
2024	Apr	13	(Sat)	05:13	06:00	80	12:12	86S	18:25	280	19:12
2024	Apr	14	(Sun)	05:12	05:59	80	12:12	86S	18:25	280	19:12
2024	Apr	15	(Mon)	05:12	05:58	80	12:12	87S	18:25	281	19:12
2024	Apr	16	(Tue)	05:11	05:58	79	12:11	87S	18:25	281	19:12
2024	Apr	17	(Wed)	05:10	05:57	79	12:11	88S	18:25	281	19:13
2024	Apr	18	(Thu)	05:10	05:57	79	12:11	88S	18:25	282	19:13
2024	Apr	19	(Fri)	05:09	05:56	78	12:11	88S	18:26	282	19:13
2024	Apr	20	(Sat)	05:08	05:56	78	12:11	89S	18:26	282	19:13
2024	Apr	21	(Sun)	05:08	05:55	77	12:10	89S	18:26	283	19:13
2024	Apr	22	(Mon)	05:07	05:54	77	12:10	89S	18:26	283	19:14
2024	Apr	23	(Tue)	05:06	05:54	77	12:10	90S	18:26	283	19:14
2024	Apr	24	(Wed)	05:06	05:53	76	12:10	90S	18:26	284	19:14
2024	Apr	25	(Thu)	05:05	05:53	76	12:10	90S	18:27	284	19:14
2024	Apr	26	(Fri)	05:05	05:52	76	12:09	91S	18:27	284	19:15
2024	Apr	27	(Sat)	05:04	05:52	75	12:09	91N	18:27	285	19:15
2024	Apr	28	(Sun)	05:03	05:51	75	12:09	90N	18:27	285	19:15
2024	Apr	29	(Mon)	05:03	05:51	75	12:09	90N	18:27	285	19:15
2024	Apr	30	(Tue)	05:02	05:50	74	12:09	90N	18:27	286	19:16
2024	May	01	(Wed)	05:02	05:50	74	12:09	89N	18:28	286	19:16
2024	May	02	(Thu)	05:01	05:50	74	12:09	89N	18:28	286	19:16
2024	May	03	(Fri)	05:01	05:49	74	12:09	89N	18:28	287	19:17
2024	May	04	(Sat)	05:00	05:49	73	12:08	88N	18:28	287	19:17
2024	May	05	(Sun)	05:00	05:48	73	12:08	88N	18:29	287	19:17
2024	May	06	(Mon)	04:59	05:48	73	12:08	88N	18:29	287	19:18
2024	May	07	(Tue)	04:59	05:48	72	12:08	88N	18:29	288	19:18
2024	May	08	(Wed)	04:58	05:47	72	12:08	87N	18:29	288	19:18
2024	May	09	(Thu)	04:58	05:47	72	12:08	87N	18:30	288	19:19
2024	May	10	(Fri)	04:58	05:47	72	12:08	87N	18:30	289	19:19
2024	May	11	(Sat)	04:57	05:46	71	12:08	87N	18:30	289	19:19

2024	May	12	(Sun)	04:57	05:46	71	12:08	86N	18:30	289	19:20
2024	May	13	(Mon)	04:56	05:46	71	12:08	86N	18:31	289	19:20
2024	May	14	(Tue)	04:56	05:45	71	12:08	86N	18:31	290	19:20
2024	May	15	(Wed)	04:56	05:45	70	12:08	86N	18:31	290	19:21
2024	May	16	(Thu)	04:55	05:45	70	12:08	85N	18:31	290	19:21
2024	May	17	(Fri)	04:55	05:45	70	12:08	85N	18:32	290	19:21
2024	May	18	(Sat)	04:55	05:44	70	12:08	85N	18:32	291	19:22
2024	May	19	(Sun)	04:55	05:44	69	12:08	85N	18:32	291	19:22
2024	May	20	(Mon)	04:54	05:44	69	12:08	84N	18:33	291	19:22
2024	May	21	(Tue)	04:54	05:44	69	12:08	84N	18:33	291	19:23
2024	May	22	(Wed)	04:54	05:44	69	12:08	84N	18:33	291	19:23
2024	May	23	(Thu)	04:54	05:44	69	12:08	84N	18:33	292	19:24
2024	May	24	(Fri)	04:53	05:43	68	12:09	84N	18:34	292	19:24
2024	May	25	(Sat)	04:53	05:43	68	12:09	83N	18:34	292	19:24
2024	May	26	(Sun)	04:53	05:43	68	12:09	83N	18:34	292	19:25
2024	May	27	(Mon)	04:53	05:43	68	12:09	83N	18:35	292	19:25
2024	May	28	(Tue)	04:53	05:43	68	12:09	83N	18:35	292	19:25
2024	May	29	(Wed)	04:53	05:43	67	12:09	83N	18:35	293	19:26
2024	May	30	(Thu)	04:52	05:43	67	12:09	83N	18:36	293	19:26
2024	May	31	(Fri)	04:52	05:43	67	12:09	83N	18:36	293	19:27
2024	Jun	01	(Sat)	04:52	05:43	67	12:10	82N	18:36	293	19:27
2024	Jun	02	(Sun)	04:52	05:43	67	12:10	82N	18:37	293	19:27
2024	Jun	03	(Mon)	04:52	05:43	67	12:10	82N	18:37	293	19:28
2024	Jun	04	(Tue)	04:52	05:43	67	12:10	82N	18:37	293	19:28
2024	Jun	05	(Wed)	04:52	05:43	66	12:10	82N	18:38	294	19:28
2024	Jun	06	(Thu)	04:52	05:43	66	12:10	82N	18:38	294	19:29
2024	Jun	07	(Fri)	04:52	05:43	66	12:11	82N	18:38	294	19:29
2024	Jun	08	(Sat)	04:52	05:43	66	12:11	82N	18:38	294	19:29
2024	Jun	09	(Sun)	04:52	05:43	66	12:11	82N	18:39	294	19:30
2024	Jun	10	(Mon)	04:52	05:43	66	12:11	81N	18:39	294	19:30
2024	Jun	11	(Tue)	04:52	05:44	66	12:11	81N	18:39	294	19:30
2024	Jun	12	(Wed)	04:53	05:44	66	12:12	81N	18:40	294	19:31
2024	Jun	13	(Thu)	04:53	05:44	66	12:12	81N	18:40	294	19:31
2024	Jun	14	(Fri)	04:53	05:44	66	12:12	81N	18:40	294	19:31
2024	Jun	15	(Sat)	04:53	05:44	66	12:12	81N	18:40	294	19:32
2024	Jun	16	(Sun)	04:53	05:44	66	12:12	81N	18:41	294	19:32
2024	Jun	17	(Mon)	04:53	05:45	66	12:13	81N	18:41	294	19:32
2024	Jun	18	(Tue)	04:53	05:45	66	12:13	81N	18:41	294	19:32
2024	Jun	19	(Wed)	04:54	05:45	66	12:13	81N	18:41	294	19:33
2024	Jun	20	(Thu)	04:54	05:45	66	12:13	81N	18:42	294	19:33
2024	Jun	21	(Fri)	04:54	05:45	66	12:14	81N	18:42	294	19:33
2024	Jun	22	(Sat)	04:54	05:46	66	12:14	81N	18:42	294	19:33
2024	Jun	23	(Sun)	04:54	05:46	66	12:14	81N	18:42	294	19:33
2024	Jun	24	(Mon)	04:55	05:46	66	12:14	81N	18:42	294	19:34
2024	Jun	25	(Tue)	04:55	05:46	66	12:14	81N	18:43	294	19:34
2024	Jun	26	(Wed)	04:55	05:46	66	12:15	81N	18:43	294	19:34
2024	Jun	27	(Thu)	04:56	05:47	66	12:15	81N	18:43	294	19:34
2024	Jun	28	(Fri)	04:56	05:47	66	12:15	81N	18:43	294	19:34
2024	Jun	29	(Sat)	04:56	05:47	66	12:15	81N	18:43	294	19:34
2024	Jun	30	(Sun)	04:56	05:48	66	12:15	81N	18:43	294	19:34
2024	Jul	01	(Mon)	04:57	05:48	66	12:16	81N	18:43	294	19:35
2024	Jul	02	(Tue)	04:57	05:48	66	12:16	82N	18:44	294	19:35
2024	Jul	03	(Wed)	04:57	05:48	66	12:16	82N	18:44	294	19:35
2024	Jul	04	(Thu)	04:58	05:49	66	12:16	82N	18:44	294	19:35
2024	Jul	05	(Fri)	04:58	05:49	66	12:16	82N	18:44	294	19:35
2024	Jul	06	(Sat)	04:58	05:49	66	12:17	82N	18:44	294	19:35
2024	Jul	07	(Sun)	04:59	05:50	67	12:17	82N	18:44	293	19:35
2024	Jul	08	(Mon)	04:59	05:50	67	12:17	82N	18:44	293	19:35
2024	Jul	09	(Tue)	04:59	05:50	67	12:17	82N	18:44	293	19:35
2024	Jul	10	(Wed)	05:00	05:50	67	12:17	82N	18:44	293	19:35
2024	Jul	11	(Thu)	05:00	05:51	67	12:17	82N	18:44	293	19:34
2024	Jul	12	(Fri)	05:00	05:51	67	12:17	83N	18:44	293	19:34
2024	Jul	13	(Sat)	05:01	05:51	67	12:18	83N	18:44	293	19:34
2024	Jul	14	(Sun)	05:01	05:52	67	12:18	83N	18:44	292	19:34
2024	Jul	15	(Mon)	05:01	05:52	68	12:18	83N	18:44	292	19:34
2024	Jul	16	(Tue)	05:02	05:52	68	12:18	83N	18:43	292	19:34
2024	Jul	17	(Wed)	05:02	05:52	68	12:18	83N	18:43	292	19:34
2024	Jul	18	(Thu)	05:02	05:53	68	12:18	84N	18:43	292	19:33
2024	Jul	19	(Fri)	05:03	05:53	68	12:18	84N	18:43	292	19:33
2024	Jul	20	(Sat)	05:03	05:53	69	12:18	84N	18:43	291	19:33
2024	Jul	21	(Sun)	05:04	05:54	69	12:18	84N	18:43	291	19:33
2024	Jul	22	(Mon)	05:04	05:54	69	12:18	84N	18:42	291	19:32

2024	Jul	23	(Tue)	05:04	05:54	69	12:18	85N	18:42	291	19:32
2024	Jul	24	(Wed)	05:05	05:54	69	12:18	85N	18:42	291	19:32
2024	Jul	25	(Thu)	05:05	05:55	70	12:18	85N	18:42	290	19:31
2024	Jul	26	(Fri)	05:05	05:55	70	12:18	85N	18:42	290	19:31
2024	Jul	27	(Sat)	05:06	05:55	70	12:18	85N	18:41	290	19:31
2024	Jul	28	(Sun)	05:06	05:55	70	12:18	86N	18:41	290	19:30
2024	Jul	29	(Mon)	05:06	05:56	71	12:18	86N	18:41	289	19:30
2024	Jul	30	(Tue)	05:06	05:56	71	12:18	86N	18:40	289	19:30
2024	Jul	31	(Wed)	05:07	05:56	71	12:18	86N	18:40	289	19:29
2024	Aug	01	(Thu)	05:07	05:56	71	12:18	87N	18:40	289	19:29
2024	Aug	02	(Fri)	05:07	05:56	72	12:18	87N	18:39	288	19:28
2024	Aug	03	(Sat)	05:08	05:57	72	12:18	87N	18:39	288	19:28
2024	Aug	04	(Sun)	05:08	05:57	72	12:18	87N	18:39	288	19:27
2024	Aug	05	(Mon)	05:08	05:57	72	12:18	88N	18:38	287	19:27
2024	Aug	06	(Tue)	05:09	05:57	73	12:18	88N	18:38	287	19:26
2024	Aug	07	(Wed)	05:09	05:57	73	12:17	88N	18:37	287	19:26
2024	Aug	08	(Thu)	05:09	05:58	73	12:17	89N	18:37	287	19:25
2024	Aug	09	(Fri)	05:09	05:58	74	12:17	89N	18:36	286	19:25
2024	Aug	10	(Sat)	05:10	05:58	74	12:17	89N	18:36	286	19:24
2024	Aug	11	(Sun)	05:10	05:58	74	12:17	89N	18:36	286	19:24
2024	Aug	12	(Mon)	05:10	05:58	74	12:17	90N	18:35	285	19:23
2024	Aug	13	(Tue)	05:10	05:58	75	12:17	90N	18:35	285	19:23
2024	Aug	14	(Wed)	05:11	05:59	75	12:16	90N	18:34	285	19:22
2024	Aug	15	(Thu)	05:11	05:59	75	12:16	91N	18:33	284	19:21
2024	Aug	16	(Fri)	05:11	05:59	76	12:16	90S	18:33	284	19:21
2024	Aug	17	(Sat)	05:11	05:59	76	12:16	90S	18:32	284	19:20
2024	Aug	18	(Sun)	05:11	05:59	76	12:16	90S	18:32	283	19:19
2024	Aug	19	(Mon)	05:12	05:59	77	12:15	90S	18:31	283	19:19
2024	Aug	20	(Tue)	05:12	05:59	77	12:15	89S	18:31	283	19:18
2024	Aug	21	(Wed)	05:12	05:59	77	12:15	89S	18:30	282	19:17
2024	Aug	22	(Thu)	05:12	05:59	78	12:15	89S	18:29	282	19:17
2024	Aug	23	(Fri)	05:12	06:00	78	12:14	88S	18:29	282	19:16
2024	Aug	24	(Sat)	05:12	06:00	78	12:14	88S	18:28	281	19:15
2024	Aug	25	(Sun)	05:13	06:00	79	12:14	87S	18:28	281	19:15
2024	Aug	26	(Mon)	05:13	06:00	79	12:13	87S	18:27	281	19:14
2024	Aug	27	(Tue)	05:13	06:00	80	12:13	87S	18:26	280	19:13
2024	Aug	28	(Wed)	05:13	06:00	80	12:13	86S	18:26	280	19:13
2024	Aug	29	(Thu)	05:13	06:00	80	12:13	86S	18:25	280	19:12
2024	Aug	30	(Fri)	05:13	06:00	81	12:12	86S	18:24	279	19:11
2024	Aug	31	(Sat)	05:13	06:00	81	12:12	85S	18:24	279	19:10
2024	Sep	01	(Sun)	05:13	06:00	81	12:12	85S	18:23	278	19:10
2024	Sep	02	(Mon)	05:14	06:00	82	12:11	85S	18:22	278	19:09
2024	Sep	03	(Tue)	05:14	06:00	82	12:11	84S	18:22	278	19:08
2024	Sep	04	(Wed)	05:14	06:00	82	12:11	84S	18:21	277	19:07
2024	Sep	05	(Thu)	05:14	06:00	83	12:10	84S	18:20	277	19:07
2024	Sep	06	(Fri)	05:14	06:00	83	12:10	83S	18:19	277	19:06
2024	Sep	07	(Sat)	05:14	06:00	84	12:10	83S	18:19	276	19:05
2024	Sep	08	(Sun)	05:14	06:00	84	12:09	82S	18:18	276	19:04
2024	Sep	09	(Mon)	05:14	06:00	84	12:09	82S	18:17	275	19:04
2024	Sep	10	(Tue)	05:14	06:00	85	12:09	82S	18:17	275	19:03
2024	Sep	11	(Wed)	05:14	06:01	85	12:08	81S	18:16	275	19:02
2024	Sep	12	(Thu)	05:14	06:01	86	12:08	81S	18:15	274	19:01
2024	Sep	13	(Fri)	05:14	06:01	86	12:08	81S	18:14	274	19:01
2024	Sep	14	(Sat)	05:14	06:01	86	12:07	80S	18:14	273	19:00
2024	Sep	15	(Sun)	05:14	06:01	87	12:07	80S	18:13	273	18:59
2024	Sep	16	(Mon)	05:15	06:01	87	12:06	79S	18:12	273	18:58
2024	Sep	17	(Tue)	05:15	06:01	88	12:06	79S	18:11	272	18:57
2024	Sep	18	(Wed)	05:15	06:01	88	12:06	79S	18:11	272	18:57
2024	Sep	19	(Thu)	05:15	06:01	88	12:05	78S	18:10	271	18:56
2024	Sep	20	(Fri)	05:15	06:01	89	12:05	78S	18:09	271	18:55
2024	Sep	21	(Sat)	05:15	06:01	89	12:05	77S	18:08	271	18:54
2024	Sep	22	(Sun)	05:15	06:01	90	12:04	77S	18:08	270	18:54
2024	Sep	23	(Mon)	05:15	06:01	90	12:04	77S	18:07	270	18:53
2024	Sep	24	(Tue)	05:15	06:01	90	12:04	76S	18:06	269	18:52
2024	Sep	25	(Wed)	05:15	06:01	91	12:03	76S	18:05	269	18:51
2024	Sep	26	(Thu)	05:15	06:01	91	12:03	75S	18:05	269	18:51
2024	Sep	27	(Fri)	05:15	06:01	92	12:03	75S	18:04	268	18:50
2024	Sep	28	(Sat)	05:15	06:01	92	12:02	75S	18:03	268	18:49
2024	Sep	29	(Sun)	05:15	06:01	92	12:02	74S	18:03	267	18:49
2024	Sep	30	(Mon)	05:15	06:01	93	12:02	74S	18:02	267	18:48
2024	Oct	01	(Tue)	05:15	06:01	93	12:01	74S	18:01	267	18:47
2024	Oct	02	(Wed)	05:15	06:01	94	12:01	73S	18:01	266	18:47

2024	Oct	03	(Thu)	05:15	06:01	94	12:01	73S	18:00	266	18:46
2024	Oct	04	(Fri)	05:15	06:01	94	12:00	72S	17:59	265	18:45
2024	Oct	05	(Sat)	05:15	06:01	95	12:00	72S	17:58	265	18:45
2024	Oct	06	(Sun)	05:15	06:02	95	12:00	72S	17:58	265	18:44
2024	Oct	07	(Mon)	05:15	06:02	96	11:59	71S	17:57	264	18:43
2024	Oct	08	(Tue)	05:16	06:02	96	11:59	71S	17:56	264	18:43
2024	Oct	09	(Wed)	05:16	06:02	96	11:59	70S	17:56	263	18:42
2024	Oct	10	(Thu)	05:16	06:02	97	11:59	70S	17:55	263	18:41
2024	Oct	11	(Fri)	05:16	06:02	97	11:58	70S	17:55	263	18:41
2024	Oct	12	(Sat)	05:16	06:02	98	11:58	69S	17:54	262	18:40
2024	Oct	13	(Sun)	05:16	06:02	98	11:58	69S	17:53	262	18:40
2024	Oct	14	(Mon)	05:16	06:02	98	11:58	69S	17:53	262	18:39
2024	Oct	15	(Tue)	05:16	06:03	99	11:57	68S	17:52	261	18:39
2024	Oct	16	(Wed)	05:16	06:03	99	11:57	68S	17:52	261	18:38
2024	Oct	17	(Thu)	05:16	06:03	99	11:57	67S	17:51	260	18:37
2024	Oct	18	(Fri)	05:16	06:03	100	11:57	67S	17:50	260	18:37
2024	Oct	19	(Sat)	05:17	06:03	100	11:57	67S	17:50	260	18:36
2024	Oct	20	(Sun)	05:17	06:03	101	11:56	66S	17:49	259	18:36
2024	Oct	21	(Mon)	05:17	06:04	101	11:56	66S	17:49	259	18:35
2024	Oct	22	(Tue)	05:17	06:04	101	11:56	66S	17:48	259	18:35
2024	Oct	23	(Wed)	05:17	06:04	102	11:56	65S	17:48	258	18:35
2024	Oct	24	(Thu)	05:17	06:04	102	11:56	65S	17:47	258	18:34
2024	Oct	25	(Fri)	05:18	06:04	102	11:56	65S	17:47	257	18:34
2024	Oct	26	(Sat)	05:18	06:05	103	11:56	64S	17:46	257	18:33
2024	Oct	27	(Sun)	05:18	06:05	103	11:56	64S	17:46	257	18:33
2024	Oct	28	(Mon)	05:18	06:05	103	11:55	64S	17:46	256	18:33
2024	Oct	29	(Tue)	05:18	06:05	104	11:55	63S	17:45	256	18:32
2024	Oct	30	(Wed)	05:19	06:06	104	11:55	63S	17:45	256	18:32
2024	Oct	31	(Thu)	05:19	06:06	104	11:55	63S	17:44	255	18:32
2024	Nov	01	(Fri)	05:19	06:06	105	11:55	62S	17:44	255	18:31
2024	Nov	02	(Sat)	05:19	06:07	105	11:55	62S	17:44	255	18:31
2024	Nov	03	(Sun)	05:20	06:07	105	11:55	62S	17:43	254	18:31
2024	Nov	04	(Mon)	05:20	06:07	106	11:55	61S	17:43	254	18:31
2024	Nov	05	(Tue)	05:20	06:08	106	11:55	61S	17:43	254	18:30
2024	Nov	06	(Wed)	05:20	06:08	106	11:55	61S	17:43	254	18:30
2024	Nov	07	(Thu)	05:21	06:08	107	11:55	60S	17:42	253	18:30
2024	Nov	08	(Fri)	05:21	06:09	107	11:55	60S	17:42	253	18:30
2024	Nov	09	(Sat)	05:21	06:09	107	11:56	60S	17:42	253	18:30
2024	Nov	10	(Sun)	05:22	06:09	108	11:56	60S	17:42	252	18:30
2024	Nov	11	(Mon)	05:22	06:10	108	11:56	59S	17:41	252	18:29
2024	Nov	12	(Tue)	05:22	06:10	108	11:56	59S	17:41	252	18:29
2024	Nov	13	(Wed)	05:23	06:11	108	11:56	59S	17:41	252	18:29
2024	Nov	14	(Thu)	05:23	06:11	109	11:56	59S	17:41	251	18:29
2024	Nov	15	(Fri)	05:23	06:12	109	11:56	58S	17:41	251	18:29
2024	Nov	16	(Sat)	05:24	06:12	109	11:56	58S	17:41	251	18:29
2024	Nov	17	(Sun)	05:24	06:12	109	11:57	58S	17:41	250	18:29
2024	Nov	18	(Mon)	05:24	06:13	110	11:57	58S	17:41	250	18:29
2024	Nov	19	(Tue)	05:25	06:13	110	11:57	57S	17:41	250	18:29
2024	Nov	20	(Wed)	05:25	06:14	110	11:57	57S	17:41	250	18:29
2024	Nov	21	(Thu)	05:26	06:14	110	11:58	57S	17:41	250	18:29
2024	Nov	22	(Fri)	05:26	06:15	111	11:58	57S	17:41	249	18:30
2024	Nov	23	(Sat)	05:27	06:15	111	11:58	56S	17:41	249	18:30
2024	Nov	24	(Sun)	05:27	06:16	111	11:58	56S	17:41	249	18:30
2024	Nov	25	(Mon)	05:27	06:16	111	11:59	56S	17:41	249	18:30
2024	Nov	26	(Tue)	05:28	06:17	111	11:59	56S	17:41	248	18:30
2024	Nov	27	(Wed)	05:28	06:17	112	11:59	56S	17:41	248	18:30
2024	Nov	28	(Thu)	05:29	06:18	112	12:00	56S	17:41	248	18:30
2024	Nov	29	(Fri)	05:29	06:18	112	12:00	55S	17:42	248	18:31
2024	Nov	30	(Sat)	05:30	06:19	112	12:00	55S	17:42	248	18:31
2024	Dec	01	(Sun)	05:30	06:20	112	12:01	55S	17:42	248	18:31
2024	Dec	02	(Mon)	05:31	06:20	112	12:01	55S	17:42	247	18:31
2024	Dec	03	(Tue)	05:31	06:21	113	12:02	55S	17:42	247	18:32
2024	Dec	04	(Wed)	05:32	06:21	113	12:02	55S	17:43	247	18:32
2024	Dec	05	(Thu)	05:32	06:22	113	12:02	54S	17:43	247	18:32
2024	Dec	06	(Fri)	05:33	06:22	113	12:03	54S	17:43	247	18:33
2024	Dec	07	(Sat)	05:33	06:23	113	12:03	54S	17:44	247	18:33
2024	Dec	08	(Sun)	05:34	06:23	113	12:04	54S	17:44	247	18:33
2024	Dec	09	(Mon)	05:34	06:24	113	12:04	54S	17:44	247	18:34
2024	Dec	10	(Tue)	05:35	06:25	113	12:05	54S	17:45	247	18:34
2024	Dec	11	(Wed)	05:35	06:25	114	12:05	54S	17:45	246	18:35
2024	Dec	12	(Thu)	05:36	06:26	114	12:05	54S	17:45	246	18:35
2024	Dec	13	(Fri)	05:36	06:26	114	12:06	54S	17:46	246	18:35

2024	Dec	14	(Sat)	05:37	06:27	114	12:06	54S	17:46	246	18:36
2024	Dec	15	(Sun)	05:38	06:27	114	12:07	54S	17:46	246	18:36
2024	Dec	16	(Mon)	05:38	06:28	114	12:07	54S	17:47	246	18:37
2024	Dec	17	(Tue)	05:39	06:28	114	12:08	54S	17:47	246	18:37
2024	Dec	18	(Wed)	05:39	06:29	114	12:08	54S	17:48	246	18:38
2024	Dec	19	(Thu)	05:40	06:29	114	12:09	53S	17:48	246	18:38
2024	Dec	20	(Fri)	05:40	06:30	114	12:09	53S	17:49	246	18:39
2024	Dec	21	(Sat)	05:41	06:30	114	12:10	53S	17:49	246	18:39
2024	Dec	22	(Sun)	05:41	06:31	114	12:10	53S	17:50	246	18:40
2024	Dec	23	(Mon)	05:42	06:31	114	12:11	53S	17:50	246	18:40
2024	Dec	24	(Tue)	05:42	06:32	114	12:11	53S	17:51	246	18:41
2024	Dec	25	(Wed)	05:43	06:32	114	12:12	54S	17:51	246	18:41
2024	Dec	26	(Thu)	05:43	06:33	114	12:12	54S	17:52	246	18:42
2024	Dec	27	(Fri)	05:43	06:33	114	12:13	54S	17:52	246	18:42
2024	Dec	28	(Sat)	05:44	06:34	114	12:13	54S	17:53	246	18:43
2024	Dec	29	(Sun)	05:44	06:34	114	12:14	54S	17:54	246	18:43
2024	Dec	30	(Mon)	05:45	06:35	114	12:14	54S	17:54	246	18:44
2024	Dec	31	(Tue)	05:45	06:35	114	12:15	54S	17:55	246	18:44

Sun

Sakaeo

Location: E102°04'37.1", N13°48'10.8", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)				Begin Civil Twilight	Rise	Az.	Transit	Alt.	Set	Az.	End Civil Twilight
				h m	h m	°	h m	°	h m	°	h m
2024	Jan	01	(Mon)	06:12	06:35	114	12:15	54S	17:55	246	18:18
2024	Jan	02	(Tue)	06:12	06:35	113	12:15	54S	17:55	247	18:18
2024	Jan	03	(Wed)	06:13	06:36	113	12:16	54S	17:56	247	18:19
2024	Jan	04	(Thu)	06:13	06:36	113	12:16	54S	17:56	247	18:20
2024	Jan	05	(Fri)	06:13	06:36	113	12:17	54S	17:57	247	18:20
2024	Jan	06	(Sat)	06:14	06:37	113	12:17	54S	17:58	247	18:21
2024	Jan	07	(Sun)	06:14	06:37	113	12:18	54S	17:58	247	18:21
2024	Jan	08	(Mon)	06:14	06:37	113	12:18	55S	17:59	247	18:22
2024	Jan	09	(Tue)	06:15	06:38	113	12:18	55S	17:59	247	18:22
2024	Jan	10	(Wed)	06:15	06:38	113	12:19	55S	18:00	248	18:23
2024	Jan	11	(Thu)	06:15	06:38	112	12:19	55S	18:01	248	18:23
2024	Jan	12	(Fri)	06:16	06:38	112	12:20	55S	18:01	248	18:24
2024	Jan	13	(Sat)	06:16	06:39	112	12:20	55S	18:02	248	18:24
2024	Jan	14	(Sun)	06:16	06:39	112	12:20	56S	18:02	248	18:25
2024	Jan	15	(Mon)	06:16	06:39	112	12:21	56S	18:03	248	18:26
2024	Jan	16	(Tue)	06:16	06:39	112	12:21	56S	18:03	249	18:26
2024	Jan	17	(Wed)	06:17	06:39	111	12:22	56S	18:04	249	18:27
2024	Jan	18	(Thu)	06:17	06:39	111	12:22	56S	18:04	249	18:27
2024	Jan	19	(Fri)	06:17	06:39	111	12:22	56S	18:05	249	18:28
2024	Jan	20	(Sat)	06:17	06:40	111	12:22	57S	18:06	249	18:28
2024	Jan	21	(Sun)	06:17	06:40	110	12:23	57S	18:06	250	18:29
2024	Jan	22	(Mon)	06:17	06:40	110	12:23	57S	18:07	250	18:29
2024	Jan	23	(Tue)	06:17	06:40	110	12:23	57S	18:07	250	18:30
2024	Jan	24	(Wed)	06:17	06:40	110	12:24	58S	18:08	250	18:30
2024	Jan	25	(Thu)	06:17	06:40	110	12:24	58S	18:08	251	18:31
2024	Jan	26	(Fri)	06:17	06:40	109	12:24	58S	18:09	251	18:31
2024	Jan	27	(Sat)	06:17	06:40	109	12:24	58S	18:09	251	18:31
2024	Jan	28	(Sun)	06:17	06:40	109	12:24	59S	18:10	251	18:32
2024	Jan	29	(Mon)	06:17	06:39	108	12:25	59S	18:10	252	18:32
2024	Jan	30	(Tue)	06:17	06:39	108	12:25	59S	18:10	252	18:33
2024	Jan	31	(Wed)	06:17	06:39	108	12:25	59S	18:11	252	18:33
2024	Feb	01	(Thu)	06:17	06:39	108	12:25	60S	18:11	253	18:34
2024	Feb	02	(Fri)	06:17	06:39	107	12:25	60S	18:12	253	18:34
2024	Feb	03	(Sat)	06:17	06:39	107	12:25	60S	18:12	253	18:34
2024	Feb	04	(Sun)	06:16	06:39	107	12:26	61S	18:13	253	18:35
2024	Feb	05	(Mon)	06:16	06:38	106	12:26	61S	18:13	254	18:35
2024	Feb	06	(Tue)	06:16	06:38	106	12:26	61S	18:13	254	18:35
2024	Feb	07	(Wed)	06:16	06:38	106	12:26	61S	18:14	254	18:36
2024	Feb	08	(Thu)	06:16	06:38	105	12:26	62S	18:14	255	18:36
2024	Feb	09	(Fri)	06:15	06:37	105	12:26	62S	18:15	255	18:37
2024	Feb	10	(Sat)	06:15	06:37	105	12:26	62S	18:15	255	18:37

2024	Feb	11	(Sun)	06:15	06:37	104	12:26	63S	18:15	256	18:37
2024	Feb	12	(Mon)	06:14	06:36	104	12:26	63S	18:16	256	18:37
2024	Feb	13	(Tue)	06:14	06:36	104	12:26	63S	18:16	256	18:38
2024	Feb	14	(Wed)	06:14	06:36	103	12:26	64S	18:16	257	18:38
2024	Feb	15	(Thu)	06:13	06:35	103	12:26	64S	18:17	257	18:38
2024	Feb	16	(Fri)	06:13	06:35	103	12:26	64S	18:17	257	18:39
2024	Feb	17	(Sat)	06:13	06:34	102	12:26	65S	18:17	258	18:39
2024	Feb	18	(Sun)	06:12	06:34	102	12:26	65S	18:17	258	18:39
2024	Feb	19	(Mon)	06:12	06:34	102	12:26	65S	18:18	258	18:39
2024	Feb	20	(Tue)	06:11	06:33	101	12:25	66S	18:18	259	18:40
2024	Feb	21	(Wed)	06:11	06:33	101	12:25	66S	18:18	259	18:40
2024	Feb	22	(Thu)	06:11	06:32	101	12:25	67S	18:18	260	18:40
2024	Feb	23	(Fri)	06:10	06:32	100	12:25	67S	18:19	260	18:40
2024	Feb	24	(Sat)	06:10	06:31	100	12:25	67S	18:19	260	18:40
2024	Feb	25	(Sun)	06:09	06:31	99	12:25	68S	18:19	261	18:41
2024	Feb	26	(Mon)	06:09	06:30	99	12:25	68S	18:19	261	18:41
2024	Feb	27	(Tue)	06:08	06:30	99	12:25	68S	18:20	262	18:41
2024	Feb	28	(Wed)	06:08	06:29	98	12:24	69S	18:20	262	18:41
2024	Feb	29	(Thu)	06:07	06:29	98	12:24	69S	18:20	262	18:41
2024	Mar	01	(Fri)	06:07	06:28	98	12:24	70S	18:20	263	18:42
2024	Mar	02	(Sat)	06:06	06:27	97	12:24	70S	18:20	263	18:42
2024	Mar	03	(Sun)	06:05	06:27	97	12:24	70S	18:20	263	18:42
2024	Mar	04	(Mon)	06:05	06:26	96	12:23	71S	18:21	264	18:42
2024	Mar	05	(Tue)	06:04	06:26	96	12:23	71S	18:21	264	18:42
2024	Mar	06	(Wed)	06:04	06:25	96	12:23	71S	18:21	265	18:42
2024	Mar	07	(Thu)	06:03	06:24	95	12:23	72S	18:21	265	18:42
2024	Mar	08	(Fri)	06:02	06:24	95	12:22	72S	18:21	265	18:43
2024	Mar	09	(Sat)	06:02	06:23	94	12:22	73S	18:21	266	18:43
2024	Mar	10	(Sun)	06:01	06:22	94	12:22	73S	18:22	266	18:43
2024	Mar	11	(Mon)	06:01	06:22	94	12:22	73S	18:22	267	18:43
2024	Mar	12	(Tue)	06:00	06:21	93	12:21	74S	18:22	267	18:43
2024	Mar	13	(Wed)	05:59	06:21	93	12:21	74S	18:22	267	18:43
2024	Mar	14	(Thu)	05:59	06:20	92	12:21	75S	18:22	268	18:43
2024	Mar	15	(Fri)	05:58	06:19	92	12:21	75S	18:22	268	18:43
2024	Mar	16	(Sat)	05:57	06:19	91	12:20	75S	18:22	269	18:43
2024	Mar	17	(Sun)	05:57	06:18	91	12:20	76S	18:22	269	18:44
2024	Mar	18	(Mon)	05:56	06:17	91	12:20	76S	18:22	270	18:44
2024	Mar	19	(Tue)	05:55	06:16	90	12:19	77S	18:22	270	18:44
2024	Mar	20	(Wed)	05:55	06:16	90	12:19	77S	18:23	270	18:44
2024	Mar	21	(Thu)	05:54	06:15	89	12:19	77S	18:23	271	18:44
2024	Mar	22	(Fri)	05:53	06:14	89	12:18	78S	18:23	271	18:44
2024	Mar	23	(Sat)	05:52	06:14	89	12:18	78S	18:23	272	18:44
2024	Mar	24	(Sun)	05:52	06:13	88	12:18	79S	18:23	272	18:44
2024	Mar	25	(Mon)	05:51	06:12	88	12:18	79S	18:23	272	18:44
2024	Mar	26	(Tue)	05:50	06:12	87	12:17	79S	18:23	273	18:44
2024	Mar	27	(Wed)	05:50	06:11	87	12:17	80S	18:23	273	18:45
2024	Mar	28	(Thu)	05:49	06:10	87	12:17	80S	18:23	274	18:45
2024	Mar	29	(Fri)	05:48	06:10	86	12:16	80S	18:23	274	18:45
2024	Mar	30	(Sat)	05:48	06:09	86	12:16	81S	18:23	274	18:45
2024	Mar	31	(Sun)	05:47	06:08	85	12:16	81S	18:24	275	18:45
2024	Apr	01	(Mon)	05:46	06:08	85	12:15	82S	18:24	275	18:45
2024	Apr	02	(Tue)	05:45	06:07	85	12:15	82S	18:24	276	18:45
2024	Apr	03	(Wed)	05:45	06:06	84	12:15	82S	18:24	276	18:45
2024	Apr	04	(Thu)	05:44	06:06	84	12:15	83S	18:24	276	18:45
2024	Apr	05	(Fri)	05:43	06:05	83	12:14	83S	18:24	277	18:45
2024	Apr	06	(Sat)	05:43	06:04	83	12:14	84S	18:24	277	18:46
2024	Apr	07	(Sun)	05:42	06:04	83	12:14	84S	18:24	278	18:46
2024	Apr	08	(Mon)	05:41	06:03	82	12:13	84S	18:24	278	18:46
2024	Apr	09	(Tue)	05:41	06:02	82	12:13	85S	18:24	278	18:46
2024	Apr	10	(Wed)	05:40	06:02	82	12:13	85S	18:24	279	18:46
2024	Apr	11	(Thu)	05:39	06:01	81	12:13	85S	18:25	279	18:46
2024	Apr	12	(Fri)	05:39	06:00	81	12:12	86S	18:25	279	18:46
2024	Apr	13	(Sat)	05:38	06:00	80	12:12	86S	18:25	280	18:46
2024	Apr	14	(Sun)	05:37	05:59	80	12:12	86S	18:25	280	18:47
2024	Apr	15	(Mon)	05:37	05:58	80	12:12	87S	18:25	281	18:47
2024	Apr	16	(Tue)	05:36	05:58	79	12:11	87S	18:25	281	18:47
2024	Apr	17	(Wed)	05:36	05:57	79	12:11	88S	18:25	281	18:47
2024	Apr	18	(Thu)	05:35	05:57	79	12:11	88S	18:25	282	18:47
2024	Apr	19	(Fri)	05:34	05:56	78	12:11	88S	18:26	282	18:47
2024	Apr	20	(Sat)	05:34	05:56	78	12:11	89S	18:26	282	18:48
2024	Apr	21	(Sun)	05:33	05:55	77	12:10	89S	18:26	283	18:48
2024	Apr	22	(Mon)	05:33	05:54	77	12:10	89S	18:26	283	18:48

2024	Apr	23	(Tue)	05:32	05:54	77	12:10	90S	18:26	283	18:48
2024	Apr	24	(Wed)	05:31	05:53	76	12:10	90S	18:26	284	18:48
2024	Apr	25	(Thu)	05:31	05:53	76	12:10	90S	18:27	284	18:49
2024	Apr	26	(Fri)	05:30	05:52	76	12:09	91S	18:27	284	18:49
2024	Apr	27	(Sat)	05:30	05:52	75	12:09	91N	18:27	285	18:49
2024	Apr	28	(Sun)	05:29	05:51	75	12:09	90N	18:27	285	18:49
2024	Apr	29	(Mon)	05:29	05:51	75	12:09	90N	18:27	285	18:49
2024	Apr	30	(Tue)	05:28	05:50	74	12:09	90N	18:27	286	18:50
2024	May	01	(Wed)	05:28	05:50	74	12:09	89N	18:28	286	18:50
2024	May	02	(Thu)	05:27	05:50	74	12:09	89N	18:28	286	18:50
2024	May	03	(Fri)	05:27	05:49	74	12:09	89N	18:28	287	18:50
2024	May	04	(Sat)	05:26	05:49	73	12:08	88N	18:28	287	18:51
2024	May	05	(Sun)	05:26	05:48	73	12:08	88N	18:29	287	18:51
2024	May	06	(Mon)	05:26	05:48	73	12:08	88N	18:29	287	18:51
2024	May	07	(Tue)	05:25	05:48	72	12:08	88N	18:29	288	18:52
2024	May	08	(Wed)	05:25	05:47	72	12:08	87N	18:29	288	18:52
2024	May	09	(Thu)	05:24	05:47	72	12:08	87N	18:30	288	18:52
2024	May	10	(Fri)	05:24	05:47	72	12:08	87N	18:30	289	18:52
2024	May	11	(Sat)	05:24	05:46	71	12:08	87N	18:30	289	18:53
2024	May	12	(Sun)	05:23	05:46	71	12:08	86N	18:30	289	18:53
2024	May	13	(Mon)	05:23	05:46	71	12:08	86N	18:31	289	18:53
2024	May	14	(Tue)	05:23	05:45	71	12:08	86N	18:31	290	18:54
2024	May	15	(Wed)	05:22	05:45	70	12:08	86N	18:31	290	18:54
2024	May	16	(Thu)	05:22	05:45	70	12:08	85N	18:31	290	18:54
2024	May	17	(Fri)	05:22	05:45	70	12:08	85N	18:32	290	18:55
2024	May	18	(Sat)	05:22	05:44	70	12:08	85N	18:32	291	18:55
2024	May	19	(Sun)	05:21	05:44	69	12:08	85N	18:32	291	18:55
2024	May	20	(Mon)	05:21	05:44	69	12:08	84N	18:33	291	18:56
2024	May	21	(Tue)	05:21	05:44	69	12:08	84N	18:33	291	18:56
2024	May	22	(Wed)	05:21	05:44	69	12:08	84N	18:33	291	18:56
2024	May	23	(Thu)	05:21	05:44	69	12:08	84N	18:33	292	18:57
2024	May	24	(Fri)	05:20	05:43	68	12:09	84N	18:34	292	18:57
2024	May	25	(Sat)	05:20	05:43	68	12:09	83N	18:34	292	18:57
2024	May	26	(Sun)	05:20	05:43	68	12:09	83N	18:34	292	18:58
2024	May	27	(Mon)	05:20	05:43	68	12:09	83N	18:35	292	18:58
2024	May	28	(Tue)	05:20	05:43	68	12:09	83N	18:35	292	18:58
2024	May	29	(Wed)	05:20	05:43	67	12:09	83N	18:35	293	18:59
2024	May	30	(Thu)	05:20	05:43	67	12:09	83N	18:36	293	18:59
2024	May	31	(Fri)	05:20	05:43	67	12:09	83N	18:36	293	18:59
2024	Jun	01	(Sat)	05:20	05:43	67	12:10	82N	18:36	293	19:00
2024	Jun	02	(Sun)	05:20	05:43	67	12:10	82N	18:37	293	19:00
2024	Jun	03	(Mon)	05:20	05:43	67	12:10	82N	18:37	293	19:00
2024	Jun	04	(Tue)	05:20	05:43	67	12:10	82N	18:37	293	19:01
2024	Jun	05	(Wed)	05:20	05:43	66	12:10	82N	18:38	294	19:01
2024	Jun	06	(Thu)	05:20	05:43	66	12:10	82N	18:38	294	19:01
2024	Jun	07	(Fri)	05:20	05:43	66	12:11	82N	18:38	294	19:02
2024	Jun	08	(Sat)	05:20	05:43	66	12:11	82N	18:38	294	19:02
2024	Jun	09	(Sun)	05:20	05:43	66	12:11	82N	18:39	294	19:02
2024	Jun	10	(Mon)	05:20	05:43	66	12:11	81N	18:39	294	19:02
2024	Jun	11	(Tue)	05:20	05:44	66	12:11	81N	18:39	294	19:03
2024	Jun	12	(Wed)	05:20	05:44	66	12:12	81N	18:40	294	19:03
2024	Jun	13	(Thu)	05:20	05:44	66	12:12	81N	18:40	294	19:03
2024	Jun	14	(Fri)	05:20	05:44	66	12:12	81N	18:40	294	19:04
2024	Jun	15	(Sat)	05:21	05:44	66	12:12	81N	18:40	294	19:04
2024	Jun	16	(Sun)	05:21	05:44	66	12:12	81N	18:41	294	19:04
2024	Jun	17	(Mon)	05:21	05:45	66	12:13	81N	18:41	294	19:04
2024	Jun	18	(Tue)	05:21	05:45	66	12:13	81N	18:41	294	19:05
2024	Jun	19	(Wed)	05:21	05:45	66	12:13	81N	18:41	294	19:05
2024	Jun	20	(Thu)	05:22	05:45	66	12:13	81N	18:42	294	19:05
2024	Jun	21	(Fri)	05:22	05:45	66	12:14	81N	18:42	294	19:05
2024	Jun	22	(Sat)	05:22	05:46	66	12:14	81N	18:42	294	19:06
2024	Jun	23	(Sun)	05:22	05:46	66	12:14	81N	18:42	294	19:06
2024	Jun	24	(Mon)	05:22	05:46	66	12:14	81N	18:42	294	19:06
2024	Jun	25	(Tue)	05:23	05:46	66	12:14	81N	18:43	294	19:06
2024	Jun	26	(Wed)	05:23	05:46	66	12:15	81N	18:43	294	19:06
2024	Jun	27	(Thu)	05:23	05:47	66	12:15	81N	18:43	294	19:06
2024	Jun	28	(Fri)	05:23	05:47	66	12:15	81N	18:43	294	19:07
2024	Jun	29	(Sat)	05:24	05:47	66	12:15	81N	18:43	294	19:07
2024	Jun	30	(Sun)	05:24	05:48	66	12:15	81N	18:43	294	19:07
2024	Jul	01	(Mon)	05:24	05:48	66	12:16	81N	18:43	294	19:07
2024	Jul	02	(Tue)	05:25	05:48	66	12:16	82N	18:44	294	19:07
2024	Jul	03	(Wed)	05:25	05:48	66	12:16	82N	18:44	294	19:07

2024	Jul	04	(Thu)	05:25	05:49	66	12:16	82N	18:44	294	19:07
2024	Jul	05	(Fri)	05:26	05:49	66	12:16	82N	18:44	294	19:07
2024	Jul	06	(Sat)	05:26	05:49	66	12:17	82N	18:44	294	19:07
2024	Jul	07	(Sun)	05:26	05:50	67	12:17	82N	18:44	293	19:07
2024	Jul	08	(Mon)	05:26	05:50	67	12:17	82N	18:44	293	19:07
2024	Jul	09	(Tue)	05:27	05:50	67	12:17	82N	18:44	293	19:07
2024	Jul	10	(Wed)	05:27	05:50	67	12:17	82N	18:44	293	19:07
2024	Jul	11	(Thu)	05:27	05:51	67	12:17	82N	18:44	293	19:07
2024	Jul	12	(Fri)	05:28	05:51	67	12:17	83N	18:44	293	19:07
2024	Jul	13	(Sat)	05:28	05:51	67	12:18	83N	18:44	293	19:07
2024	Jul	14	(Sun)	05:28	05:52	67	12:18	83N	18:44	292	19:07
2024	Jul	15	(Mon)	05:29	05:52	68	12:18	83N	18:44	292	19:07
2024	Jul	16	(Tue)	05:29	05:52	68	12:18	83N	18:43	292	19:07
2024	Jul	17	(Wed)	05:29	05:52	68	12:18	83N	18:43	292	19:06
2024	Jul	18	(Thu)	05:30	05:53	68	12:18	84N	18:43	292	19:06
2024	Jul	19	(Fri)	05:30	05:53	68	12:18	84N	18:43	292	19:06
2024	Jul	20	(Sat)	05:30	05:53	69	12:18	84N	18:43	291	19:06
2024	Jul	21	(Sun)	05:31	05:54	69	12:18	84N	18:43	291	19:06
2024	Jul	22	(Mon)	05:31	05:54	69	12:18	84N	18:42	291	19:05
2024	Jul	23	(Tue)	05:31	05:54	69	12:18	85N	18:42	291	19:05
2024	Jul	24	(Wed)	05:31	05:54	69	12:18	85N	18:42	291	19:05
2024	Jul	25	(Thu)	05:32	05:55	70	12:18	85N	18:42	290	19:05
2024	Jul	26	(Fri)	05:32	05:55	70	12:18	85N	18:42	290	19:04
2024	Jul	27	(Sat)	05:32	05:55	70	12:18	85N	18:41	290	19:04
2024	Jul	28	(Sun)	05:33	05:55	70	12:18	86N	18:41	290	19:04
2024	Jul	29	(Mon)	05:33	05:56	71	12:18	86N	18:41	289	19:03
2024	Jul	30	(Tue)	05:33	05:56	71	12:18	86N	18:40	289	19:03
2024	Jul	31	(Wed)	05:33	05:56	71	12:18	86N	18:40	289	19:03
2024	Aug	01	(Thu)	05:34	05:56	71	12:18	87N	18:40	289	19:02
2024	Aug	02	(Fri)	05:34	05:56	72	12:18	87N	18:39	288	19:02
2024	Aug	03	(Sat)	05:34	05:57	72	12:18	87N	18:39	288	19:01
2024	Aug	04	(Sun)	05:34	05:57	72	12:18	87N	18:39	288	19:01
2024	Aug	05	(Mon)	05:35	05:57	72	12:18	88N	18:38	287	19:01
2024	Aug	06	(Tue)	05:35	05:57	73	12:18	88N	18:38	287	19:00
2024	Aug	07	(Wed)	05:35	05:57	73	12:17	88N	18:37	287	19:00
2024	Aug	08	(Thu)	05:35	05:58	73	12:17	89N	18:37	287	18:59
2024	Aug	09	(Fri)	05:35	05:58	74	12:17	89N	18:36	286	18:59
2024	Aug	10	(Sat)	05:36	05:58	74	12:17	89N	18:36	286	18:58
2024	Aug	11	(Sun)	05:36	05:58	74	12:17	89N	18:36	286	18:58
2024	Aug	12	(Mon)	05:36	05:58	74	12:17	90N	18:35	285	18:57
2024	Aug	13	(Tue)	05:36	05:58	75	12:17	90N	18:35	285	18:57
2024	Aug	14	(Wed)	05:36	05:59	75	12:16	90N	18:34	285	18:56
2024	Aug	15	(Thu)	05:37	05:59	75	12:16	91N	18:33	284	18:56
2024	Aug	16	(Fri)	05:37	05:59	76	12:16	90S	18:33	284	18:55
2024	Aug	17	(Sat)	05:37	05:59	76	12:16	90S	18:32	284	18:54
2024	Aug	18	(Sun)	05:37	05:59	76	12:16	90S	18:32	283	18:54
2024	Aug	19	(Mon)	05:37	05:59	77	12:15	90S	18:31	283	18:53
2024	Aug	20	(Tue)	05:37	05:59	77	12:15	89S	18:31	283	18:53
2024	Aug	21	(Wed)	05:37	05:59	77	12:15	89S	18:30	282	18:52
2024	Aug	22	(Thu)	05:38	05:59	78	12:15	89S	18:29	282	18:51
2024	Aug	23	(Fri)	05:38	06:00	78	12:14	88S	18:29	282	18:51
2024	Aug	24	(Sat)	05:38	06:00	78	12:14	88S	18:28	281	18:50
2024	Aug	25	(Sun)	05:38	06:00	79	12:14	87S	18:28	281	18:49
2024	Aug	26	(Mon)	05:38	06:00	79	12:13	87S	18:27	281	18:49
2024	Aug	27	(Tue)	05:38	06:00	80	12:13	87S	18:26	280	18:48
2024	Aug	28	(Wed)	05:38	06:00	80	12:13	86S	18:26	280	18:47
2024	Aug	29	(Thu)	05:38	06:00	80	12:13	86S	18:25	280	18:47
2024	Aug	30	(Fri)	05:38	06:00	81	12:12	86S	18:24	279	18:46
2024	Aug	31	(Sat)	05:39	06:00	81	12:12	85S	18:24	279	18:45
2024	Sep	01	(Sun)	05:39	06:00	81	12:12	85S	18:23	278	18:44
2024	Sep	02	(Mon)	05:39	06:00	82	12:11	85S	18:22	278	18:44
2024	Sep	03	(Tue)	05:39	06:00	82	12:11	84S	18:22	278	18:43
2024	Sep	04	(Wed)	05:39	06:00	82	12:11	84S	18:21	277	18:42
2024	Sep	05	(Thu)	05:39	06:00	83	12:10	84S	18:20	277	18:42
2024	Sep	06	(Fri)	05:39	06:00	83	12:10	83S	18:19	277	18:41
2024	Sep	07	(Sat)	05:39	06:00	84	12:10	83S	18:19	276	18:40
2024	Sep	08	(Sun)	05:39	06:00	84	12:09	82S	18:18	276	18:39
2024	Sep	09	(Mon)	05:39	06:00	84	12:09	82S	18:17	275	18:39
2024	Sep	10	(Tue)	05:39	06:00	85	12:09	82S	18:17	275	18:38
2024	Sep	11	(Wed)	05:39	06:01	85	12:08	81S	18:16	275	18:37
2024	Sep	12	(Thu)	05:39	06:01	86	12:08	81S	18:15	274	18:36
2024	Sep	13	(Fri)	05:39	06:01	86	12:08	81S	18:14	274	18:36

2024	Sep	14	(Sat)	05:39	06:01	86	12:07	80S	18:14	273	18:35
2024	Sep	15	(Sun)	05:39	06:01	87	12:07	80S	18:13	273	18:34
2024	Sep	16	(Mon)	05:39	06:01	87	12:06	79S	18:12	273	18:33
2024	Sep	17	(Tue)	05:39	06:01	88	12:06	79S	18:11	272	18:33
2024	Sep	18	(Wed)	05:39	06:01	88	12:06	79S	18:11	272	18:32
2024	Sep	19	(Thu)	05:39	06:01	88	12:05	78S	18:10	271	18:31
2024	Sep	20	(Fri)	05:39	06:01	89	12:05	78S	18:09	271	18:30
2024	Sep	21	(Sat)	05:39	06:01	89	12:05	77S	18:08	271	18:30
2024	Sep	22	(Sun)	05:39	06:01	90	12:04	77S	18:08	270	18:29
2024	Sep	23	(Mon)	05:40	06:01	90	12:04	77S	18:07	270	18:28
2024	Sep	24	(Tue)	05:40	06:01	90	12:04	76S	18:06	269	18:27
2024	Sep	25	(Wed)	05:40	06:01	91	12:03	76S	18:05	269	18:27
2024	Sep	26	(Thu)	05:40	06:01	91	12:03	75S	18:05	269	18:26
2024	Sep	27	(Fri)	05:40	06:01	92	12:03	75S	18:04	268	18:25
2024	Sep	28	(Sat)	05:40	06:01	92	12:02	75S	18:03	268	18:25
2024	Sep	29	(Sun)	05:40	06:01	92	12:02	74S	18:03	267	18:24
2024	Sep	30	(Mon)	05:40	06:01	93	12:02	74S	18:02	267	18:23
2024	Oct	01	(Tue)	05:40	06:01	93	12:01	74S	18:01	267	18:23
2024	Oct	02	(Wed)	05:40	06:01	94	12:01	73S	18:01	266	18:22
2024	Oct	03	(Thu)	05:40	06:01	94	12:01	73S	18:00	266	18:21
2024	Oct	04	(Fri)	05:40	06:01	94	12:00	72S	17:59	265	18:20
2024	Oct	05	(Sat)	05:40	06:01	95	12:00	72S	17:58	265	18:20
2024	Oct	06	(Sun)	05:40	06:02	95	12:00	72S	17:58	265	18:19
2024	Oct	07	(Mon)	05:40	06:02	96	11:59	71S	17:57	264	18:18
2024	Oct	08	(Tue)	05:40	06:02	96	11:59	71S	17:56	264	18:18
2024	Oct	09	(Wed)	05:40	06:02	96	11:59	70S	17:56	263	18:17
2024	Oct	10	(Thu)	05:40	06:02	97	11:59	70S	17:55	263	18:17
2024	Oct	11	(Fri)	05:41	06:02	97	11:58	70S	17:55	263	18:16
2024	Oct	12	(Sat)	05:41	06:02	98	11:58	69S	17:54	262	18:15
2024	Oct	13	(Sun)	05:41	06:02	98	11:58	69S	17:53	262	18:15
2024	Oct	14	(Mon)	05:41	06:02	98	11:58	69S	17:53	262	18:14
2024	Oct	15	(Tue)	05:41	06:03	99	11:57	68S	17:52	261	18:14
2024	Oct	16	(Wed)	05:41	06:03	99	11:57	68S	17:52	261	18:13
2024	Oct	17	(Thu)	05:41	06:03	99	11:57	67S	17:51	260	18:13
2024	Oct	18	(Fri)	05:41	06:03	100	11:57	67S	17:50	260	18:12
2024	Oct	19	(Sat)	05:42	06:03	100	11:57	67S	17:50	260	18:11
2024	Oct	20	(Sun)	05:42	06:03	101	11:56	66S	17:49	259	18:11
2024	Oct	21	(Mon)	05:42	06:04	101	11:56	66S	17:49	259	18:10
2024	Oct	22	(Tue)	05:42	06:04	101	11:56	66S	17:48	259	18:10
2024	Oct	23	(Wed)	05:42	06:04	102	11:56	65S	17:48	258	18:10
2024	Oct	24	(Thu)	05:42	06:04	102	11:56	65S	17:47	258	18:09
2024	Oct	25	(Fri)	05:43	06:04	102	11:56	65S	17:47	257	18:09
2024	Oct	26	(Sat)	05:43	06:05	103	11:56	64S	17:46	257	18:08
2024	Oct	27	(Sun)	05:43	06:05	103	11:56	64S	17:46	257	18:08
2024	Oct	28	(Mon)	05:43	06:05	103	11:55	64S	17:46	256	18:07
2024	Oct	29	(Tue)	05:44	06:05	104	11:55	63S	17:45	256	18:07
2024	Oct	30	(Wed)	05:44	06:06	104	11:55	63S	17:45	256	18:07
2024	Oct	31	(Thu)	05:44	06:06	104	11:55	63S	17:44	255	18:06
2024	Nov	01	(Fri)	05:44	06:06	105	11:55	62S	17:44	255	18:06
2024	Nov	02	(Sat)	05:45	06:07	105	11:55	62S	17:44	255	18:06
2024	Nov	03	(Sun)	05:45	06:07	105	11:55	62S	17:43	254	18:05
2024	Nov	04	(Mon)	05:45	06:07	106	11:55	61S	17:43	254	18:05
2024	Nov	05	(Tue)	05:46	06:08	106	11:55	61S	17:43	254	18:05
2024	Nov	06	(Wed)	05:46	06:08	106	11:55	61S	17:43	254	18:05
2024	Nov	07	(Thu)	05:46	06:08	107	11:55	60S	17:42	253	18:04
2024	Nov	08	(Fri)	05:47	06:09	107	11:55	60S	17:42	253	18:04
2024	Nov	09	(Sat)	05:47	06:09	107	11:56	60S	17:42	253	18:04
2024	Nov	10	(Sun)	05:47	06:09	108	11:56	60S	17:42	252	18:04
2024	Nov	11	(Mon)	05:48	06:10	108	11:56	59S	17:41	252	18:04
2024	Nov	12	(Tue)	05:48	06:10	108	11:56	59S	17:41	252	18:04
2024	Nov	13	(Wed)	05:48	06:11	108	11:56	59S	17:41	252	18:04
2024	Nov	14	(Thu)	05:49	06:11	109	11:56	59S	17:41	251	18:03
2024	Nov	15	(Fri)	05:49	06:12	109	11:56	58S	17:41	251	18:03
2024	Nov	16	(Sat)	05:50	06:12	109	11:56	58S	17:41	251	18:03
2024	Nov	17	(Sun)	05:50	06:12	109	11:57	58S	17:41	250	18:03
2024	Nov	18	(Mon)	05:50	06:13	110	11:57	58S	17:41	250	18:03
2024	Nov	19	(Tue)	05:51	06:13	110	11:57	57S	17:41	250	18:03
2024	Nov	20	(Wed)	05:51	06:14	110	11:57	57S	17:41	250	18:03
2024	Nov	21	(Thu)	05:52	06:14	110	11:58	57S	17:41	250	18:03
2024	Nov	22	(Fri)	05:52	06:15	111	11:58	57S	17:41	249	18:03
2024	Nov	23	(Sat)	05:53	06:15	111	11:58	56S	17:41	249	18:03
2024	Nov	24	(Sun)	05:53	06:16	111	11:58	56S	17:41	249	18:04

2024	Nov	25	(Mon)	05:54	06:16	111	11:59	56S	17:41	249	18:04
2024	Nov	26	(Tue)	05:54	06:17	111	11:59	56S	17:41	248	18:04
2024	Nov	27	(Wed)	05:55	06:17	112	11:59	56S	17:41	248	18:04
2024	Nov	28	(Thu)	05:55	06:18	112	12:00	56S	17:41	248	18:04
2024	Nov	29	(Fri)	05:56	06:18	112	12:00	55S	17:42	248	18:04
2024	Nov	30	(Sat)	05:56	06:19	112	12:00	55S	17:42	248	18:05
2024	Dec	01	(Sun)	05:57	06:20	112	12:01	55S	17:42	248	18:05
2024	Dec	02	(Mon)	05:57	06:20	112	12:01	55S	17:42	247	18:05
2024	Dec	03	(Tue)	05:58	06:21	113	12:02	55S	17:42	247	18:05
2024	Dec	04	(Wed)	05:58	06:21	113	12:02	55S	17:43	247	18:06
2024	Dec	05	(Thu)	05:59	06:22	113	12:02	54S	17:43	247	18:06
2024	Dec	06	(Fri)	05:59	06:22	113	12:03	54S	17:43	247	18:06
2024	Dec	07	(Sat)	06:00	06:23	113	12:03	54S	17:44	247	18:07
2024	Dec	08	(Sun)	06:00	06:23	113	12:04	54S	17:44	247	18:07
2024	Dec	09	(Mon)	06:01	06:24	113	12:04	54S	17:44	247	18:07
2024	Dec	10	(Tue)	06:01	06:25	113	12:05	54S	17:45	247	18:08
2024	Dec	11	(Wed)	06:02	06:25	114	12:05	54S	17:45	246	18:08
2024	Dec	12	(Thu)	06:03	06:26	114	12:05	54S	17:45	246	18:08
2024	Dec	13	(Fri)	06:03	06:26	114	12:06	54S	17:46	246	18:09
2024	Dec	14	(Sat)	06:04	06:27	114	12:06	54S	17:46	246	18:09
2024	Dec	15	(Sun)	06:04	06:27	114	12:07	54S	17:46	246	18:10
2024	Dec	16	(Mon)	06:05	06:28	114	12:07	54S	17:47	246	18:10
2024	Dec	17	(Tue)	06:05	06:28	114	12:08	54S	17:47	246	18:11
2024	Dec	18	(Wed)	06:06	06:29	114	12:08	54S	17:48	246	18:11
2024	Dec	19	(Thu)	06:06	06:29	114	12:09	53S	17:48	246	18:11
2024	Dec	20	(Fri)	06:07	06:30	114	12:09	53S	17:49	246	18:12
2024	Dec	21	(Sat)	06:07	06:30	114	12:10	53S	17:49	246	18:12
2024	Dec	22	(Sun)	06:08	06:31	114	12:10	53S	17:50	246	18:13
2024	Dec	23	(Mon)	06:08	06:31	114	12:11	53S	17:50	246	18:13
2024	Dec	24	(Tue)	06:09	06:32	114	12:11	53S	17:51	246	18:14
2024	Dec	25	(Wed)	06:09	06:32	114	12:12	54S	17:51	246	18:14
2024	Dec	26	(Thu)	06:10	06:33	114	12:12	54S	17:52	246	18:15
2024	Dec	27	(Fri)	06:10	06:33	114	12:13	54S	17:52	246	18:16
2024	Dec	28	(Sat)	06:11	06:34	114	12:13	54S	17:53	246	18:16
2024	Dec	29	(Sun)	06:11	06:34	114	12:14	54S	17:54	246	18:17
2024	Dec	30	(Mon)	06:11	06:35	114	12:14	54S	17:54	246	18:17
2024	Dec	31	(Tue)	06:12	06:35	114	12:15	54S	17:55	246	18:18

Moon

Sakaeo

Location: E102°04'37.1", N13°48'10.8", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)	Rise		Az.	Transit Alt.		Set	Az.
	h	m	°	h	m	h	m
2024 Jan 01 (Mon)	22:24	80		04:03	90S	10:25	282
2024 Jan 02 (Tue)	23:09	86		04:43	85S	10:59	277
2024 Jan 03 (Wed)	23:54	92		05:22	79S	11:32	271
2024 Jan 04 (Thu)				06:01	73S	12:06	265
2024 Jan 05 (Fri)	00:40	98		06:42	67S	12:41	259
2024 Jan 06 (Sat)	01:28	104		07:25	62S	13:19	253
2024 Jan 07 (Sun)	02:19	109		08:11	57S	14:01	248
2024 Jan 08 (Mon)	03:15	114		09:03	52S	14:49	244
2024 Jan 09 (Tue)	04:15	117		10:00	49S	15:44	242
2024 Jan 10 (Wed)	05:18	119		11:02	48S	16:45	241
2024 Jan 11 (Thu)	06:21	119		12:05	49S	17:51	242
2024 Jan 12 (Fri)	07:21	116		13:08	52S	18:57	246
2024 Jan 13 (Sat)	08:17	112		14:08	56S	20:02	251
2024 Jan 14 (Sun)	09:06	106		15:03	63S	21:03	257
2024 Jan 15 (Mon)	09:52	99		15:55	69S	22:01	264
2024 Jan 16 (Tue)	10:34	92		16:43	77S	22:56	272
2024 Jan 17 (Wed)	11:15	85		17:31	83S	23:51	279
2024 Jan 18 (Thu)	11:56	78		18:19	90S		
2024 Jan 19 (Fri)	12:38	72		19:09	86N	00:46	285
2024 Jan 20 (Sat)	13:24	67		20:00	81N	01:42	291
2024 Jan 21 (Sun)	14:13	64		20:54	78N	02:39	295
2024 Jan 22 (Mon)	15:05	61		21:49	76N	03:37	298
2024 Jan 23 (Tue)	16:00	61		22:44	76N	04:34	299

2024	Jan	24	(Wed)	16:55	62	23:38	78N	05:28	299
2024	Jan	25	(Thu)	17:50	65			06:18	297
2024	Jan	26	(Fri)	18:42	69	00:28	81N	07:04	293
2024	Jan	27	(Sat)	19:32	73	01:15	85N	07:46	289
2024	Jan	28	(Sun)	20:19	79	01:59	89N	08:23	284
2024	Jan	29	(Mon)	21:04	84	02:40	87S	08:58	279
2024	Jan	30	(Tue)	21:49	90	03:19	81S	09:32	273
2024	Jan	31	(Wed)	22:34	96	03:58	75S	10:05	267
2024	Feb	01	(Thu)	23:20	102	04:37	69S	10:38	261
2024	Feb	02	(Fri)			05:18	64S	11:14	255
2024	Feb	03	(Sat)	00:09	107	06:02	58S	11:53	250
2024	Feb	04	(Sun)	01:01	112	06:50	54S	12:37	246
2024	Feb	05	(Mon)	01:58	116	07:44	50S	13:28	243
2024	Feb	06	(Tue)	02:58	119	08:42	48S	14:25	241
2024	Feb	07	(Wed)	04:00	119	09:44	48S	15:27	241
2024	Feb	08	(Thu)	05:02	118	10:47	50S	16:33	244
2024	Feb	09	(Fri)	06:00	114	11:49	54S	17:40	248
2024	Feb	10	(Sat)	06:53	109	12:47	59S	18:44	254
2024	Feb	11	(Sun)	07:42	102	13:42	66S	19:46	261
2024	Feb	12	(Mon)	08:27	95	14:34	74S	20:44	269
2024	Feb	13	(Tue)	09:10	88	15:24	81S	21:42	276
2024	Feb	14	(Wed)	09:52	80	16:13	88S	22:38	283
2024	Feb	15	(Thu)	10:35	74	17:04	87N	23:36	289
2024	Feb	16	(Fri)	11:21	68	17:56	82N		
2024	Feb	17	(Sat)	12:09	64	18:50	79N	00:34	294
2024	Feb	18	(Sun)	13:01	62	19:45	76N	01:32	297
2024	Feb	19	(Mon)	13:55	61	20:40	76N	02:29	299
2024	Feb	20	(Tue)	14:50	61	21:34	77N	03:24	299
2024	Feb	21	(Wed)	15:45	64	22:25	80N	04:16	298
2024	Feb	22	(Thu)	16:37	67	23:12	83N	05:02	295
2024	Feb	23	(Fri)	17:28	72	23:57	88N	05:45	291
2024	Feb	24	(Sat)	18:15	77			06:23	286
2024	Feb	25	(Sun)	19:01	82	00:39	88S	06:59	280
2024	Feb	26	(Mon)	19:46	88	01:18	83S	07:32	275
2024	Feb	27	(Tue)	20:31	94	01:57	77S	08:05	269
2024	Feb	28	(Wed)	21:16	100	02:36	71S	08:39	263
2024	Feb	29	(Thu)	22:04	106	03:16	65S	09:13	257
2024	Mar	01	(Fri)	22:54	111	03:59	60S	09:51	252
2024	Mar	02	(Sat)	23:48	115	04:44	55S	10:32	247
2024	Mar	03	(Sun)			05:34	51S	11:19	244
2024	Mar	04	(Mon)	00:45	118	06:28	49S	12:11	241
2024	Mar	05	(Tue)	01:44	119	07:27	48S	13:09	241
2024	Mar	06	(Wed)	02:44	119	08:28	49S	14:12	242
2024	Mar	07	(Thu)	03:43	117	09:29	51S	15:17	245
2024	Mar	08	(Fri)	04:37	112	10:28	56S	16:21	251
2024	Mar	09	(Sat)	05:27	106	11:24	62S	17:24	257
2024	Mar	10	(Sun)	06:14	99	12:18	70S	18:25	265
2024	Mar	11	(Mon)	06:59	91	13:09	77S	19:24	272
2024	Mar	12	(Tue)	07:42	84	14:01	85S	20:23	280
2024	Mar	13	(Wed)	08:27	77	14:52	90N	21:22	287
2024	Mar	14	(Thu)	09:13	70	15:46	84N	22:22	292
2024	Mar	15	(Fri)	10:02	66	16:41	80N	23:23	296
2024	Mar	16	(Sat)	10:54	62	17:38	77N		
2024	Mar	17	(Sun)	11:49	61	18:34	76N	00:22	299
2024	Mar	18	(Mon)	12:45	61	19:29	76N	01:19	299
2024	Mar	19	(Tue)	13:40	63	20:21	78N	02:12	298
2024	Mar	20	(Wed)	14:33	66	21:10	82N	03:01	296
2024	Mar	21	(Thu)	15:24	70	21:55	86N	03:44	292
2024	Mar	22	(Fri)	16:12	75	22:38	90S	04:24	288
2024	Mar	23	(Sat)	16:59	80	23:18	85S	05:00	282
2024	Mar	24	(Sun)	17:44	86	23:57	79S	05:34	277
2024	Mar	25	(Mon)	18:29	92			06:07	271
2024	Mar	26	(Tue)	19:14	98	00:36	73S	06:40	265
2024	Mar	27	(Wed)	20:01	104	01:16	67S	07:14	259
2024	Mar	28	(Thu)	20:50	109	01:57	62S	07:51	253
2024	Mar	29	(Fri)	21:43	114	02:42	57S	08:31	249
2024	Mar	30	(Sat)	22:38	117	03:30	52S	09:15	245
2024	Mar	31	(Sun)	23:36	119	04:22	49S	10:05	242
2024	Apr	01	(Mon)			05:18	48S	11:00	240
2024	Apr	02	(Tue)	00:34	119	06:17	48S	12:00	241
2024	Apr	03	(Wed)	01:32	118	07:16	50S	13:02	244
2024	Apr	04	(Thu)	02:26	114	08:14	54S	14:04	248

2024	Apr	05	(Fri)	03:16	109	09:09	59S	15:05	254
2024	Apr	06	(Sat)	04:03	103	10:02	66S	16:05	261
2024	Apr	07	(Sun)	04:47	96	10:54	73S	17:04	268
2024	Apr	08	(Mon)	05:31	88	11:45	81S	18:03	276
2024	Apr	09	(Tue)	06:14	80	12:36	88S	19:02	283
2024	Apr	10	(Wed)	07:00	74	13:30	87N	20:03	290
2024	Apr	11	(Thu)	07:49	68	14:26	82N	21:06	295
2024	Apr	12	(Fri)	08:42	64	15:24	78N	22:08	298
2024	Apr	13	(Sat)	09:37	61	16:23	76N	23:08	299
2024	Apr	14	(Sun)	10:35	61	17:20	76N		
2024	Apr	15	(Mon)	11:32	62	18:15	78N	00:05	299
2024	Apr	16	(Tue)	12:27	64	19:06	80N	00:56	297
2024	Apr	17	(Wed)	13:19	68	19:52	85N	01:42	294
2024	Apr	18	(Thu)	14:09	73	20:36	89N	02:23	289
2024	Apr	19	(Fri)	14:56	78	21:17	87S	03:00	284
2024	Apr	20	(Sat)	15:41	84	21:56	81S	03:35	279
2024	Apr	21	(Sun)	16:26	90	22:35	75S	04:08	273
2024	Apr	22	(Mon)	17:11	96	23:14	69S	04:41	267
2024	Apr	23	(Tue)	17:57	102	23:56	63S	05:15	261
2024	Apr	24	(Wed)	18:46	108			05:51	255
2024	Apr	25	(Thu)	19:38	112	00:39	58S	06:30	250
2024	Apr	26	(Fri)	20:33	116	01:27	54S	07:13	246
2024	Apr	27	(Sat)	21:31	119	02:18	50S	08:02	242
2024	Apr	28	(Sun)	22:29	119	03:14	48S	08:56	241
2024	Apr	29	(Mon)	23:26	118	04:11	48S	09:54	241
2024	Apr	30	(Tue)			05:09	49S	10:54	243
2024	May	01	(Wed)	00:20	116	06:07	52S	11:55	246
2024	May	02	(Thu)	01:10	111	07:01	57S	12:55	251
2024	May	03	(Fri)	01:57	105	07:53	63S	13:53	258
2024	May	04	(Sat)	02:40	99	08:43	70S	14:50	265
2024	May	05	(Sun)	03:22	91	09:33	77S	15:47	272
2024	May	06	(Mon)	04:05	84	10:23	84S	16:44	280
2024	May	07	(Tue)	04:49	77	11:14	90N	17:44	287
2024	May	08	(Wed)	05:36	71	12:09	84N	18:45	292
2024	May	09	(Thu)	06:27	66	13:06	80N	19:49	297
2024	May	10	(Fri)	07:22	62	14:06	77N	20:52	299
2024	May	11	(Sat)	08:20	61	15:06	76N	21:51	299
2024	May	12	(Sun)	09:19	61	16:03	77N	22:46	298
2024	May	13	(Mon)	10:16	63	16:57	79N	23:36	295
2024	May	14	(Tue)	11:11	67	17:46	83N		
2024	May	15	(Wed)	12:02	71	18:32	88N	00:19	291
2024	May	16	(Thu)	12:50	76	19:14	89S	00:58	286
2024	May	17	(Fri)	13:36	82	19:54	83S	01:34	281
2024	May	18	(Sat)	14:21	88	20:32	77S	02:08	275
2024	May	19	(Sun)	15:06	94	21:12	71S	02:41	269
2024	May	20	(Mon)	15:52	100	21:52	66S	03:14	263
2024	May	21	(Tue)	16:40	106	22:35	60S	03:49	257
2024	May	22	(Wed)	17:31	111	23:22	55S	04:27	252
2024	May	23	(Thu)	18:26	115			05:10	247
2024	May	24	(Fri)	19:24	118	00:12	51S	05:57	243
2024	May	25	(Sat)	20:23	119	01:07	49S	06:50	241
2024	May	26	(Sun)	21:21	119	02:05	48S	07:47	241
2024	May	27	(Mon)	22:17	117	03:04	49S	08:48	242
2024	May	28	(Tue)	23:08	113	04:02	51S	09:49	245
2024	May	29	(Wed)	23:55	107	04:57	56S	10:49	250
2024	May	30	(Thu)			05:50	61S	11:47	256
2024	May	31	(Fri)	00:38	101	06:39	68S	12:43	263
2024	Jun	01	(Sat)	01:20	94	07:27	75S	13:38	270
2024	Jun	02	(Sun)	02:01	87	08:15	82S	14:34	277
2024	Jun	03	(Mon)	02:43	80	09:05	89S	15:31	284
2024	Jun	04	(Tue)	03:27	73	09:57	87N	16:30	290
2024	Jun	05	(Wed)	04:15	68	10:52	81N	17:31	295
2024	Jun	06	(Thu)	05:08	64	11:50	78N	18:34	298
2024	Jun	07	(Fri)	06:04	61	12:50	76N	19:36	299
2024	Jun	08	(Sat)	07:03	61	13:49	76N	20:34	299
2024	Jun	09	(Sun)	08:02	62	14:45	78N	21:26	296
2024	Jun	10	(Mon)	08:59	65	15:37	81N	22:13	293
2024	Jun	11	(Tue)	09:53	69	16:25	86N	22:54	288
2024	Jun	12	(Wed)	10:43	74	17:09	91S	23:31	283
2024	Jun	13	(Thu)	11:30	80	17:50	85S		
2024	Jun	14	(Fri)	12:15	86	18:29	79S	00:06	277
2024	Jun	15	(Sat)	13:00	92	19:08	73S	00:39	271

2024 Jun 16 (Sun)	13:45 98	19:47 68S	01:12 265
2024 Jun 17 (Mon)	14:32 103	20:29 62S	01:47 259
2024 Jun 18 (Tue)	15:22 109	21:14 57S	02:23 254
2024 Jun 19 (Wed)	16:15 113	22:03 53S	03:04 249
2024 Jun 20 (Thu)	17:12 117	22:57 50S	03:49 245
2024 Jun 21 (Fri)	18:11 119	23:54 48S	04:40 242
2024 Jun 22 (Sat)	19:11 119		05:37 241
2024 Jun 23 (Sun)	20:09 117	00:54 48S	06:38 241
2024 Jun 24 (Mon)	21:03 114	01:54 50S	07:41 244
2024 Jun 25 (Tue)	21:53 109	02:52 54S	08:43 248
2024 Jun 26 (Wed)	22:38 103	03:46 60S	09:42 254
2024 Jun 27 (Thu)	23:20 96	04:37 66S	10:39 261
2024 Jun 28 (Fri)		05:25 73S	11:35 268
2024 Jun 29 (Sat)	00:00 89	06:13 80S	12:29 275
2024 Jun 30 (Sun)	00:41 82	07:01 87S	13:25 282
2024 Jul 01 (Mon)	01:24 75	07:51 88N	14:22 288
2024 Jul 02 (Tue)	02:09 69	08:44 83N	15:21 293
2024 Jul 03 (Wed)	02:59 65	09:39 79N	16:22 297
2024 Jul 04 (Thu)	03:53 62	10:38 77N	17:23 299
2024 Jul 05 (Fri)	04:51 61	11:37 76N	18:22 299
2024 Jul 06 (Sat)	05:50 62	12:34 77N	19:16 297
2024 Jul 07 (Sun)	06:47 64	13:28 80N	20:05 294
2024 Jul 08 (Mon)	07:43 68	14:17 84N	20:49 290
2024 Jul 09 (Tue)	08:34 72	15:03 89N	21:28 285
2024 Jul 10 (Wed)	09:23 78	15:45 87S	22:04 279
2024 Jul 11 (Thu)	10:09 84	16:25 81S	22:38 273
2024 Jul 12 (Fri)	10:54 90	17:04 76S	23:11 267
2024 Jul 13 (Sat)	11:39 96	17:43 70S	23:44 262
2024 Jul 14 (Sun)	12:25 101	18:23 64S	
2024 Jul 15 (Mon)	13:12 107	19:06 59S	00:19 256
2024 Jul 16 (Tue)	14:03 112	19:53 54S	00:57 251
2024 Jul 17 (Wed)	14:58 116	20:44 51S	01:40 246
2024 Jul 18 (Thu)	15:56 118	21:40 48S	02:28 243
2024 Jul 19 (Fri)	16:57 119	22:39 48S	03:22 241
2024 Jul 20 (Sat)	17:56 118	23:40 49S	04:22 241
2024 Jul 21 (Sun)	18:53 116		05:25 243
2024 Jul 22 (Mon)	19:45 111	00:40 52S	06:29 246
2024 Jul 23 (Tue)	20:33 105	01:37 57S	07:31 252
2024 Jul 24 (Wed)	21:17 98	02:30 64S	08:31 258
2024 Jul 25 (Thu)	21:59 91	03:21 71S	09:28 266
2024 Jul 26 (Fri)	22:41 84	04:10 78S	10:24 273
2024 Jul 27 (Sat)	23:23 77	04:59 85S	11:20 280
2024 Jul 28 (Sun)		05:48 90N	12:17 287
2024 Jul 29 (Mon)	00:07 71	06:40 84N	13:15 292
2024 Jul 30 (Tue)	00:56 66	07:34 80N	14:15 296
2024 Jul 31 (Wed)	01:48 62	08:31 77N	15:16 299
2024 Aug 01 (Thu)	02:43 61	09:29 76N	16:14 299
2024 Aug 02 (Fri)	03:41 61	10:26 76N	17:10 298
2024 Aug 03 (Sat)	04:39 63	11:20 79N	18:00 296
2024 Aug 04 (Sun)	05:34 66	12:11 82N	18:45 292
2024 Aug 05 (Mon)	06:27 71	12:58 87N	19:25 287
2024 Aug 06 (Tue)	07:17 76	13:41 89S	20:02 281
2024 Aug 07 (Wed)	08:04 82	14:22 84S	20:37 275
2024 Aug 08 (Thu)	08:49 88	15:01 78S	21:10 270
2024 Aug 09 (Fri)	09:34 93	15:40 72S	21:43 264
2024 Aug 10 (Sat)	10:19 99	16:19 66S	22:17 258
2024 Aug 11 (Sun)	11:05 105	17:00 61S	22:53 253
2024 Aug 12 (Mon)	11:54 110	17:45 56S	23:33 248
2024 Aug 13 (Tue)	12:46 114	18:33 52S	
2024 Aug 14 (Wed)	13:42 118	19:26 49S	00:18 244
2024 Aug 15 (Thu)	14:40 119	20:23 48S	01:08 241
2024 Aug 16 (Fri)	15:40 119	21:22 48S	02:05 240
2024 Aug 17 (Sat)	16:38 117	22:23 51S	03:06 241
2024 Aug 18 (Sun)	17:32 113	23:21 55S	04:10 244
2024 Aug 19 (Mon)	18:23 108		05:13 249
2024 Aug 20 (Tue)	19:09 101	00:17 61S	06:15 255
2024 Aug 21 (Wed)	19:53 94	01:11 67S	07:15 262
2024 Aug 22 (Thu)	20:36 86	02:02 75S	08:14 270
2024 Aug 23 (Fri)	21:19 79	02:52 82S	09:11 278
2024 Aug 24 (Sat)	22:04 72	03:43 89S	10:09 285
2024 Aug 25 (Sun)	22:52 67	04:35 86N	11:09 291
2024 Aug 26 (Mon)	23:44 63	05:29 81N	12:09 295

2024 Aug 27 (Tue)		06:26 77N	13:10 298
2024 Aug 28 (Wed)	00:39 61	07:24 76N	14:10 299
2024 Aug 29 (Thu)	01:36 61	08:21 76N	15:06 299
2024 Aug 30 (Fri)	02:33 62	09:16 78N	15:57 297
2024 Aug 31 (Sat)	03:29 65	10:08 81N	16:43 293
2024 Sep 01 (Sun)	04:22 69	10:55 85N	17:25 288
2024 Sep 02 (Mon)	05:12 74	11:39 90N	18:02 283
2024 Sep 03 (Tue)	06:00 80	12:20 86S	18:37 277
2024 Sep 04 (Wed)	06:46 85	13:00 80S	19:10 272
2024 Sep 05 (Thu)	07:30 91	13:38 74S	19:43 266
2024 Sep 06 (Fri)	08:15 97	14:17 68S	20:17 260
2024 Sep 07 (Sat)	09:01 103	14:58 62S	20:52 254
2024 Sep 08 (Sun)	09:48 108	15:40 57S	21:30 249
2024 Sep 09 (Mon)	10:39 113	16:26 53S	22:12 245
2024 Sep 10 (Tue)	11:32 117	17:16 50S	22:59 242
2024 Sep 11 (Wed)	12:28 119	18:10 48S	23:52 241
2024 Sep 12 (Thu)	13:26 120	19:07 48S	
2024 Sep 13 (Fri)	14:23 119	20:06 49S	00:49 241
2024 Sep 14 (Sat)	15:18 116	21:04 52S	01:50 243
2024 Sep 15 (Sun)	16:09 111	22:01 57S	02:53 246
2024 Sep 16 (Mon)	16:57 105	22:55 64S	03:55 252
2024 Sep 17 (Tue)	17:42 98	23:47 71S	04:56 259
2024 Sep 18 (Wed)	18:26 90		05:55 266
2024 Sep 19 (Thu)	19:10 82	00:39 79S	06:55 274
2024 Sep 20 (Fri)	19:56 75	01:30 86S	07:54 281
2024 Sep 21 (Sat)	20:44 69	02:24 88N	08:55 288
2024 Sep 22 (Sun)	21:36 64	03:19 83N	09:58 294
2024 Sep 23 (Mon)	22:32 61	04:17 78N	11:01 298
2024 Sep 24 (Tue)	23:30 60	05:17 76N	12:03 299
2024 Sep 25 (Wed)		06:16 76N	13:01 299
2024 Sep 26 (Thu)	00:28 61	07:12 77N	13:55 298
2024 Sep 27 (Fri)	01:25 64	08:05 80N	14:42 294
2024 Sep 28 (Sat)	02:19 68	08:53 84N	15:25 290
2024 Sep 29 (Sun)	03:09 72	09:38 89N	16:03 285
2024 Sep 30 (Mon)	03:57 78	10:20 87S	16:39 279
2024 Oct 01 (Tue)	04:43 83	10:59 82S	17:12 274
2024 Oct 02 (Wed)	05:28 89	11:38 76S	17:45 268
2024 Oct 03 (Thu)	06:13 95	12:17 70S	18:18 262
2024 Oct 04 (Fri)	06:58 101	12:57 64S	18:53 256
2024 Oct 05 (Sat)	07:45 107	13:39 59S	19:30 251
2024 Oct 06 (Sun)	08:35 112	14:23 55S	20:10 246
2024 Oct 07 (Mon)	09:27 115	15:12 51S	20:55 243
2024 Oct 08 (Tue)	10:21 118	16:04 49S	21:45 241
2024 Oct 09 (Wed)	11:17 120	16:58 48S	22:40 240
2024 Oct 10 (Thu)	12:13 119	17:55 48S	23:38 242
2024 Oct 11 (Fri)	13:07 117	18:51 51S	
2024 Oct 12 (Sat)	13:58 113	19:47 55S	00:38 244
2024 Oct 13 (Sun)	14:46 108	20:40 60S	01:38 249
2024 Oct 14 (Mon)	15:31 101	21:32 67S	02:37 255
2024 Oct 15 (Tue)	16:15 94	22:23 74S	03:36 262
2024 Oct 16 (Wed)	16:58 86	23:14 82S	04:34 270
2024 Oct 17 (Thu)	17:43 79		05:34 277
2024 Oct 18 (Fri)	18:31 72	00:07 90S	06:35 285
2024 Oct 19 (Sat)	19:22 66	01:02 85N	07:38 291
2024 Oct 20 (Sun)	20:18 63	02:01 80N	08:43 296
2024 Oct 21 (Mon)	21:17 61	03:02 77N	09:48 299
2024 Oct 22 (Tue)	22:18 61	04:04 76N	10:51 300
2024 Oct 23 (Wed)	23:17 63	05:03 76N	11:48 298
2024 Oct 24 (Thu)		05:59 79N	12:39 296
2024 Oct 25 (Fri)	00:13 66	06:50 82N	13:23 292
2024 Oct 26 (Sat)	01:05 71	07:36 87N	14:03 287
2024 Oct 27 (Sun)	01:55 76	08:19 89S	14:40 281
2024 Oct 28 (Mon)	02:41 82	08:59 84S	15:14 275
2024 Oct 29 (Tue)	03:26 88	09:38 78S	15:47 269
2024 Oct 30 (Wed)	04:10 94	10:16 72S	16:19 264
2024 Oct 31 (Thu)	04:56 99	10:56 66S	16:54 258
2024 Nov 01 (Fri)	05:42 105	11:37 61S	17:30 253
2024 Nov 02 (Sat)	06:31 110	12:21 56S	18:10 248
2024 Nov 03 (Sun)	07:23 114	13:09 52S	18:53 244
2024 Nov 04 (Mon)	08:17 117	14:00 49S	19:42 242
2024 Nov 05 (Tue)	09:12 119	14:54 48S	20:35 240
2024 Nov 06 (Wed)	10:08 119	15:50 48S	21:32 241

2024 Nov 07 (Thu)	11:02 118	16:45 50S	22:30 243
2024 Nov 08 (Fri)	11:53 115	17:40 53S	23:29 247
2024 Nov 09 (Sat)	12:40 110	18:32 58S	
2024 Nov 10 (Sun)	13:24 104	19:22 64S	00:26 253
2024 Nov 11 (Mon)	14:07 97	20:11 71S	01:23 259
2024 Nov 12 (Tue)	14:49 90	21:00 78S	02:19 266
2024 Nov 13 (Wed)	15:31 83	21:51 86S	03:15 274
2024 Nov 14 (Thu)	16:16 76	22:44 89N	04:14 281
2024 Nov 15 (Fri)	17:06 69	23:41 83N	05:15 288
2024 Nov 16 (Sat)	18:00 64		06:20 294
2024 Nov 17 (Sun)	18:59 61	00:42 78N	07:26 297
2024 Nov 18 (Mon)	20:01 61	01:45 76N	08:32 299
2024 Nov 19 (Tue)	21:02 62	02:47 76N	09:33 299
2024 Nov 20 (Wed)	22:02 65	03:47 78N	10:29 297
2024 Nov 21 (Thu)	22:57 69	04:41 81N	11:17 293
2024 Nov 22 (Fri)	23:49 74	05:30 85N	12:00 288
2024 Nov 23 (Sat)		06:15 90N	12:38 283
2024 Nov 24 (Sun)	00:36 80	06:57 85S	13:13 277
2024 Nov 25 (Mon)	01:22 85	07:36 80S	13:47 272
2024 Nov 26 (Tue)	02:07 91	08:15 74S	14:20 266
2024 Nov 27 (Wed)	02:52 97	08:54 68S	14:53 260
2024 Nov 28 (Thu)	03:37 103	09:34 63S	15:29 254
2024 Nov 29 (Fri)	04:26 108	10:18 58S	16:07 249
2024 Nov 30 (Sat)	05:16 113	11:04 53S	16:50 245
2024 Dec 01 (Sun)	06:10 116	11:55 50S	17:38 242
2024 Dec 02 (Mon)	07:06 119	12:49 48S	18:30 241
2024 Dec 03 (Tue)	08:03 119	13:45 48S	19:27 241
2024 Dec 04 (Wed)	08:58 118	14:41 49S	20:25 243
2024 Dec 05 (Thu)	09:50 116	15:36 52S	21:24 246
2024 Dec 06 (Fri)	10:38 111	16:29 57S	22:21 251
2024 Dec 07 (Sat)	11:23 106	17:18 62S	23:17 257
2024 Dec 08 (Sun)	12:05 100	18:06 69S	
2024 Dec 09 (Mon)	12:45 93	18:54 76S	00:12 264
2024 Dec 10 (Tue)	13:26 85	19:42 83S	01:06 271
2024 Dec 11 (Wed)	14:08 78	20:32 90S	02:01 278
2024 Dec 12 (Thu)	14:54 72	21:25 85N	02:59 285
2024 Dec 13 (Fri)	15:44 67	22:23 80N	04:00 291
2024 Dec 14 (Sat)	16:40 63	23:24 77N	05:04 296
2024 Dec 15 (Sun)	17:40 61		06:10 299
2024 Dec 16 (Mon)	18:43 61	00:27 76N	07:14 299
2024 Dec 17 (Tue)	19:45 63	01:29 77N	08:13 298
2024 Dec 18 (Wed)	20:44 67	02:27 79N	09:06 295
2024 Dec 19 (Thu)	21:38 72	03:20 83N	09:53 291
2024 Dec 20 (Fri)	22:28 77	04:07 88N	10:34 285
2024 Dec 21 (Sat)	23:16 83	04:51 88S	11:11 280
2024 Dec 22 (Sun)		05:32 82S	11:45 274
2024 Dec 23 (Mon)	00:01 89	06:11 76S	12:18 268
2024 Dec 24 (Tue)	00:46 95	06:50 70S	12:51 262
2024 Dec 25 (Wed)	01:31 101	07:30 64S	13:26 256
2024 Dec 26 (Thu)	02:18 107	08:12 59S	14:03 251
2024 Dec 27 (Fri)	03:08 111	08:57 55S	14:44 247
2024 Dec 28 (Sat)	04:01 115	09:46 51S	15:30 243
2024 Dec 29 (Sun)	04:56 118	10:39 49S	16:21 241
2024 Dec 30 (Mon)	05:53 119	11:35 48S	17:17 241
2024 Dec 31 (Tue)	06:50 119	12:33 49S	18:16 242