

Sun

Bangkok

Location: E100°29'31.2", N13°45'03.6", 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)	05:52	06:41	114	12:21 54S	18:01	246	18:51
2024	Jan	02 (Tue)	05:52	06:42	113	12:22 54S	18:02	247	18:51
2024	Jan	03 (Wed)	05:52	06:42	113	12:22 54S	18:02	247	18:52
2024	Jan	04 (Thu)	05:53	06:42	113	12:23 54S	18:03	247	18:53
2024	Jan	05 (Fri)	05:53	06:43	113	12:23 54S	18:03	247	18:53
2024	Jan	06 (Sat)	05:54	06:43	113	12:24 54S	18:04	247	18:54
2024	Jan	07 (Sun)	05:54	06:43	113	12:24 55S	18:05	247	18:54
2024	Jan	08 (Mon)	05:54	06:44	113	12:24 55S	18:05	247	18:55
2024	Jan	09 (Tue)	05:55	06:44	113	12:25 55S	18:06	247	18:55
2024	Jan	10 (Wed)	05:55	06:44	113	12:25 55S	18:06	248	18:56
2024	Jan	11 (Thu)	05:55	06:44	112	12:26 55S	18:07	248	18:56
2024	Jan	12 (Fri)	05:55	06:45	112	12:26 55S	18:08	248	18:57
2024	Jan	13 (Sat)	05:56	06:45	112	12:26 55S	18:08	248	18:57
2024	Jan	14 (Sun)	05:56	06:45	112	12:27 56S	18:09	248	18:58
2024	Jan	15 (Mon)	05:56	06:45	112	12:27 56S	18:09	248	18:58
2024	Jan	16 (Tue)	05:56	06:45	112	12:28 56S	18:10	249	18:59
2024	Jan	17 (Wed)	05:57	06:46	111	12:28 56S	18:10	249	18:59
2024	Jan	18 (Thu)	05:57	06:46	111	12:28 56S	18:11	249	19:00
2024	Jan	19 (Fri)	05:57	06:46	111	12:29 57S	18:11	249	19:00
2024	Jan	20 (Sat)	05:57	06:46	111	12:29 57S	18:12	249	19:01
2024	Jan	21 (Sun)	05:57	06:46	110	12:29 57S	18:12	250	19:01
2024	Jan	22 (Mon)	05:57	06:46	110	12:29 57S	18:13	250	19:02
2024	Jan	23 (Tue)	05:57	06:46	110	12:30 57S	18:13	250	19:02
2024	Jan	24 (Wed)	05:57	06:46	110	12:30 58S	18:14	250	19:02
2024	Jan	25 (Thu)	05:58	06:46	110	12:30 58S	18:14	251	19:03
2024	Jan	26 (Fri)	05:58	06:46	109	12:30 58S	18:15	251	19:03
2024	Jan	27 (Sat)	05:58	06:46	109	12:31 58S	18:15	251	19:04
2024	Jan	28 (Sun)	05:58	06:46	109	12:31 59S	18:16	251	19:04
2024	Jan	29 (Mon)	05:58	06:46	108	12:31 59S	18:16	252	19:05
2024	Jan	30 (Tue)	05:58	06:46	108	12:31 59S	18:17	252	19:05
2024	Jan	31 (Wed)	05:57	06:45	108	12:31 59S	18:17	252	19:05
2024	Feb	01 (Thu)	05:57	06:45	108	12:31 60S	18:18	253	19:06
2024	Feb	02 (Fri)	05:57	06:45	107	12:32 60S	18:18	253	19:06
2024	Feb	03 (Sat)	05:57	06:45	107	12:32 60S	18:19	253	19:06
2024	Feb	04 (Sun)	05:57	06:45	107	12:32 61S	18:19	253	19:07
2024	Feb	05 (Mon)	05:57	06:45	106	12:32 61S	18:19	254	19:07
2024	Feb	06 (Tue)	05:57	06:44	106	12:32 61S	18:20	254	19:07
2024	Feb	07 (Wed)	05:57	06:44	106	12:32 61S	18:20	254	19:08
2024	Feb	08 (Thu)	05:56	06:44	105	12:32 62S	18:21	255	19:08
2024	Feb	09 (Fri)	05:56	06:44	105	12:32 62S	18:21	255	19:08
2024	Feb	10 (Sat)	05:56	06:43	105	12:32 62S	18:21	255	19:09
2024	Feb	11 (Sun)	05:56	06:43	104	12:32 63S	18:22	256	19:09
2024	Feb	12 (Mon)	05:55	06:43	104	12:32 63S	18:22	256	19:09
2024	Feb	13 (Tue)	05:55	06:42	104	12:32 63S	18:22	256	19:09
2024	Feb	14 (Wed)	05:55	06:42	103	12:32 64S	18:23	257	19:10
2024	Feb	15 (Thu)	05:55	06:42	103	12:32 64S	18:23	257	19:10
2024	Feb	16 (Fri)	05:54	06:41	103	12:32 64S	18:23	257	19:10
2024	Feb	17 (Sat)	05:54	06:41	102	12:32 65S	18:24	258	19:10
2024	Feb	18 (Sun)	05:54	06:40	102	12:32 65S	18:24	258	19:11
2024	Feb	19 (Mon)	05:53	06:40	102	12:32 66S	18:24	259	19:11
2024	Feb	20 (Tue)	05:53	06:39	101	12:32 66S	18:24	259	19:11
2024	Feb	21 (Wed)	05:52	06:39	101	12:32 66S	18:25	259	19:11
2024	Feb	22 (Thu)	05:52	06:38	101	12:32 67S	18:25	260	19:11
2024	Feb	23 (Fri)	05:51	06:38	100	12:31 67S	18:25	260	19:12
2024	Feb	24 (Sat)	05:51	06:38	100	12:31 67S	18:25	260	19:12
2024	Feb	25 (Sun)	05:51	06:37	99	12:31 68S	18:26	261	19:12
2024	Feb	26 (Mon)	05:50	06:36	99	12:31 68S	18:26	261	19:12
2024	Feb	27 (Tue)	05:50	06:36	99	12:31 68S	18:26	262	19:12
2024	Feb	28 (Wed)	05:49	06:35	98	12:31 69S	18:26	262	19:12
2024	Feb	29 (Thu)	05:49	06:35	98	12:30 69S	18:26	262	19:13

2024	Mar	01	(Fri)	05:48	06:34	98	12:30	70S	18:27	263	19:13
2024	Mar	02	(Sat)	05:47	06:34	97	12:30	70S	18:27	263	19:13
2024	Mar	03	(Sun)	05:47	06:33	97	12:30	70S	18:27	263	19:13
2024	Mar	04	(Mon)	05:46	06:33	96	12:30	71S	18:27	264	19:13
2024	Mar	05	(Tue)	05:46	06:32	96	12:29	71S	18:27	264	19:13
2024	Mar	06	(Wed)	05:45	06:31	96	12:29	71S	18:27	265	19:13
2024	Mar	07	(Thu)	05:45	06:31	95	12:29	72S	18:27	265	19:14
2024	Mar	08	(Fri)	05:44	06:30	95	12:29	72S	18:28	265	19:14
2024	Mar	09	(Sat)	05:43	06:29	94	12:28	73S	18:28	266	19:14
2024	Mar	10	(Sun)	05:43	06:29	94	12:28	73S	18:28	266	19:14
2024	Mar	11	(Mon)	05:42	06:28	94	12:28	73S	18:28	267	19:14
2024	Mar	12	(Tue)	05:42	06:27	93	12:28	74S	18:28	267	19:14
2024	Mar	13	(Wed)	05:41	06:27	93	12:27	74S	18:28	267	19:14
2024	Mar	14	(Thu)	05:40	06:26	92	12:27	75S	18:28	268	19:14
2024	Mar	15	(Fri)	05:40	06:26	92	12:27	75S	18:28	268	19:14
2024	Mar	16	(Sat)	05:39	06:25	91	12:27	75S	18:29	269	19:15
2024	Mar	17	(Sun)	05:38	06:24	91	12:26	76S	18:29	269	19:15
2024	Mar	18	(Mon)	05:38	06:24	91	12:26	76S	18:29	270	19:15
2024	Mar	19	(Tue)	05:37	06:23	90	12:26	77S	18:29	270	19:15
2024	Mar	20	(Wed)	05:36	06:22	90	12:25	77S	18:29	270	19:15
2024	Mar	21	(Thu)	05:35	06:21	89	12:25	77S	18:29	271	19:15
2024	Mar	22	(Fri)	05:35	06:21	89	12:25	78S	18:29	271	19:15
2024	Mar	23	(Sat)	05:34	06:20	89	12:25	78S	18:29	272	19:15
2024	Mar	24	(Sun)	05:33	06:19	88	12:24	79S	18:29	272	19:15
2024	Mar	25	(Mon)	05:33	06:19	88	12:24	79S	18:29	272	19:15
2024	Mar	26	(Tue)	05:32	06:18	87	12:24	79S	18:29	273	19:16
2024	Mar	27	(Wed)	05:31	06:17	87	12:23	80S	18:30	273	19:16
2024	Mar	28	(Thu)	05:31	06:17	87	12:23	80S	18:30	274	19:16
2024	Mar	29	(Fri)	05:30	06:16	86	12:23	81S	18:30	274	19:16
2024	Mar	30	(Sat)	05:29	06:15	86	12:22	81S	18:30	274	19:16
2024	Mar	31	(Sun)	05:28	06:15	85	12:22	81S	18:30	275	19:16
2024	Apr	01	(Mon)	05:28	06:14	85	12:22	82S	18:30	275	19:16
2024	Apr	02	(Tue)	05:27	06:13	85	12:22	82S	18:30	276	19:16
2024	Apr	03	(Wed)	05:26	06:13	84	12:21	82S	18:30	276	19:16
2024	Apr	04	(Thu)	05:26	06:12	84	12:21	83S	18:30	276	19:17
2024	Apr	05	(Fri)	05:25	06:11	83	12:21	83S	18:30	277	19:17
2024	Apr	06	(Sat)	05:24	06:11	83	12:20	84S	18:30	277	19:17
2024	Apr	07	(Sun)	05:23	06:10	83	12:20	84S	18:30	278	19:17
2024	Apr	08	(Mon)	05:23	06:09	82	12:20	84S	18:31	278	19:17
2024	Apr	09	(Tue)	05:22	06:09	82	12:20	85S	18:31	278	19:17
2024	Apr	10	(Wed)	05:21	06:08	82	12:19	85S	18:31	279	19:18
2024	Apr	11	(Thu)	05:21	06:07	81	12:19	85S	18:31	279	19:18
2024	Apr	12	(Fri)	05:20	06:07	81	12:19	86S	18:31	279	19:18
2024	Apr	13	(Sat)	05:19	06:06	80	12:19	86S	18:31	280	19:18
2024	Apr	14	(Sun)	05:19	06:05	80	12:18	87S	18:31	280	19:18
2024	Apr	15	(Mon)	05:18	06:05	80	12:18	87S	18:31	281	19:18
2024	Apr	16	(Tue)	05:17	06:04	79	12:18	87S	18:31	281	19:19
2024	Apr	17	(Wed)	05:17	06:04	79	12:18	88S	18:32	281	19:19
2024	Apr	18	(Thu)	05:16	06:03	79	12:17	88S	18:32	282	19:19
2024	Apr	19	(Fri)	05:15	06:03	78	12:17	88S	18:32	282	19:19
2024	Apr	20	(Sat)	05:15	06:02	78	12:17	89S	18:32	282	19:19
2024	Apr	21	(Sun)	05:14	06:01	77	12:17	89S	18:32	283	19:20
2024	Apr	22	(Mon)	05:13	06:01	77	12:17	89S	18:32	283	19:20
2024	Apr	23	(Tue)	05:13	06:00	77	12:16	90S	18:33	283	19:20
2024	Apr	24	(Wed)	05:12	06:00	76	12:16	90S	18:33	284	19:20
2024	Apr	25	(Thu)	05:12	05:59	76	12:16	90S	18:33	284	19:21
2024	Apr	26	(Fri)	05:11	05:59	76	12:16	91S	18:33	284	19:21
2024	Apr	27	(Sat)	05:10	05:58	75	12:16	90N	18:33	285	19:21
2024	Apr	28	(Sun)	05:10	05:58	75	12:15	90N	18:33	285	19:21
2024	Apr	29	(Mon)	05:09	05:57	75	12:15	90N	18:34	285	19:22
2024	Apr	30	(Tue)	05:09	05:57	74	12:15	90N	18:34	286	19:22
2024	May	01	(Wed)	05:08	05:56	74	12:15	89N	18:34	286	19:22
2024	May	02	(Thu)	05:08	05:56	74	12:15	89N	18:34	286	19:23
2024	May	03	(Fri)	05:07	05:56	74	12:15	89N	18:34	287	19:23
2024	May	04	(Sat)	05:07	05:55	73	12:15	88N	18:35	287	19:23
2024	May	05	(Sun)	05:06	05:55	73	12:15	88N	18:35	287	19:23
2024	May	06	(Mon)	05:06	05:54	73	12:15	88N	18:35	287	19:24
2024	May	07	(Tue)	05:05	05:54	72	12:15	88N	18:35	288	19:24
2024	May	08	(Wed)	05:05	05:54	72	12:15	87N	18:36	288	19:24
2024	May	09	(Thu)	05:04	05:53	72	12:14	87N	18:36	288	19:25
2024	May	10	(Fri)	05:04	05:53	72	12:14	87N	18:36	289	19:25
2024	May	11	(Sat)	05:04	05:53	71	12:14	86N	18:36	289	19:25

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

2024	Jul	23	(Tue)	05:11	06:00	69	12:25	84N	18:49	291	19:38
2024	Jul	24	(Wed)	05:11	06:01	69	12:25	85N	18:48	291	19:38
2024	Jul	25	(Thu)	05:11	06:01	70	12:25	85N	18:48	290	19:38
2024	Jul	26	(Fri)	05:12	06:01	70	12:25	85N	18:48	290	19:37
2024	Jul	27	(Sat)	05:12	06:01	70	12:25	85N	18:48	290	19:37
2024	Jul	28	(Sun)	05:12	06:02	70	12:25	86N	18:47	290	19:37
2024	Jul	29	(Mon)	05:13	06:02	71	12:25	86N	18:47	289	19:36
2024	Jul	30	(Tue)	05:13	06:02	71	12:24	86N	18:47	289	19:36
2024	Jul	31	(Wed)	05:13	06:02	71	12:24	86N	18:46	289	19:35
2024	Aug	01	(Thu)	05:14	06:03	71	12:24	87N	18:46	289	19:35
2024	Aug	02	(Fri)	05:14	06:03	72	12:24	87N	18:46	288	19:35
2024	Aug	03	(Sat)	05:14	06:03	72	12:24	87N	18:45	288	19:34
2024	Aug	04	(Sun)	05:14	06:03	72	12:24	87N	18:45	288	19:34
2024	Aug	05	(Mon)	05:15	06:03	72	12:24	88N	18:44	287	19:33
2024	Aug	06	(Tue)	05:15	06:04	73	12:24	88N	18:44	287	19:33
2024	Aug	07	(Wed)	05:15	06:04	73	12:24	88N	18:44	287	19:32
2024	Aug	08	(Thu)	05:16	06:04	73	12:24	88N	18:43	287	19:32
2024	Aug	09	(Fri)	05:16	06:04	74	12:24	89N	18:43	286	19:31
2024	Aug	10	(Sat)	05:16	06:04	74	12:23	89N	18:42	286	19:31
2024	Aug	11	(Sun)	05:16	06:04	74	12:23	89N	18:42	286	19:30
2024	Aug	12	(Mon)	05:16	06:05	74	12:23	90N	18:41	285	19:29
2024	Aug	13	(Tue)	05:17	06:05	75	12:23	90N	18:41	285	19:29
2024	Aug	14	(Wed)	05:17	06:05	75	12:23	90N	18:40	285	19:28
2024	Aug	15	(Thu)	05:17	06:05	75	12:22	91N	18:40	284	19:28
2024	Aug	16	(Fri)	05:17	06:05	76	12:22	91S	18:39	284	19:27
2024	Aug	17	(Sat)	05:18	06:05	76	12:22	90S	18:39	284	19:26
2024	Aug	18	(Sun)	05:18	06:05	76	12:22	90S	18:38	283	19:26
2024	Aug	19	(Mon)	05:18	06:06	77	12:22	90S	18:38	283	19:25
2024	Aug	20	(Tue)	05:18	06:06	77	12:21	89S	18:37	283	19:24
2024	Aug	21	(Wed)	05:18	06:06	77	12:21	89S	18:36	282	19:24
2024	Aug	22	(Thu)	05:18	06:06	78	12:21	89S	18:36	282	19:23
2024	Aug	23	(Fri)	05:19	06:06	78	12:21	88S	18:35	282	19:22
2024	Aug	24	(Sat)	05:19	06:06	78	12:20	88S	18:34	281	19:22
2024	Aug	25	(Sun)	05:19	06:06	79	12:20	88S	18:34	281	19:21
2024	Aug	26	(Mon)	05:19	06:06	79	12:20	87S	18:33	281	19:20
2024	Aug	27	(Tue)	05:19	06:06	80	12:19	87S	18:33	280	19:20
2024	Aug	28	(Wed)	05:19	06:06	80	12:19	86S	18:32	280	19:19
2024	Aug	29	(Thu)	05:19	06:06	80	12:19	86S	18:31	280	19:18
2024	Aug	30	(Fri)	05:20	06:06	81	12:19	86S	18:31	279	19:17
2024	Aug	31	(Sat)	05:20	06:06	81	12:18	85S	18:30	279	19:17
2024	Sep	01	(Sun)	05:20	06:07	81	12:18	85S	18:29	278	19:16
2024	Sep	02	(Mon)	05:20	06:07	82	12:18	85S	18:29	278	19:15
2024	Sep	03	(Tue)	05:20	06:07	82	12:17	84S	18:28	278	19:14
2024	Sep	04	(Wed)	05:20	06:07	82	12:17	84S	18:27	277	19:14
2024	Sep	05	(Thu)	05:20	06:07	83	12:17	84S	18:26	277	19:13
2024	Sep	06	(Fri)	05:20	06:07	83	12:16	83S	18:26	277	19:12
2024	Sep	07	(Sat)	05:20	06:07	84	12:16	83S	18:25	276	19:11
2024	Sep	08	(Sun)	05:20	06:07	84	12:16	82S	18:24	276	19:11
2024	Sep	09	(Mon)	05:20	06:07	84	12:15	82S	18:24	275	19:10
2024	Sep	10	(Tue)	05:21	06:07	85	12:15	82S	18:23	275	19:09
2024	Sep	11	(Wed)	05:21	06:07	85	12:15	81S	18:22	275	19:08
2024	Sep	12	(Thu)	05:21	06:07	86	12:14	81S	18:21	274	19:08
2024	Sep	13	(Fri)	05:21	06:07	86	12:14	81S	18:21	274	19:07
2024	Sep	14	(Sat)	05:21	06:07	86	12:14	80S	18:20	273	19:06
2024	Sep	15	(Sun)	05:21	06:07	87	12:13	80S	18:19	273	19:05
2024	Sep	16	(Mon)	05:21	06:07	87	12:13	79S	18:18	273	19:05
2024	Sep	17	(Tue)	05:21	06:07	88	12:12	79S	18:18	272	19:04
2024	Sep	18	(Wed)	05:21	06:07	88	12:12	79S	18:17	272	19:03
2024	Sep	19	(Thu)	05:21	06:07	88	12:12	78S	18:16	271	19:02
2024	Sep	20	(Fri)	05:21	06:07	89	12:11	78S	18:15	271	19:01
2024	Sep	21	(Sat)	05:21	06:07	89	12:11	77S	18:15	271	19:01
2024	Sep	22	(Sun)	05:21	06:07	90	12:11	77S	18:14	270	19:00
2024	Sep	23	(Mon)	05:21	06:07	90	12:10	77S	18:13	270	18:59
2024	Sep	24	(Tue)	05:21	06:07	90	12:10	76S	18:13	269	18:59
2024	Sep	25	(Wed)	05:21	06:07	91	12:10	76S	18:12	269	18:58
2024	Sep	26	(Thu)	05:21	06:07	91	12:09	76S	18:11	269	18:57
2024	Sep	27	(Fri)	05:21	06:07	92	12:09	75S	18:10	268	18:56
2024	Sep	28	(Sat)	05:21	06:07	92	12:09	75S	18:10	268	18:56
2024	Sep	29	(Sun)	05:21	06:07	92	12:08	74S	18:09	267	18:55
2024	Sep	30	(Mon)	05:21	06:07	93	12:08	74S	18:08	267	18:54
2024	Oct	01	(Tue)	05:21	06:07	93	12:08	74S	18:08	267	18:54
2024	Oct	02	(Wed)	05:22	06:08	94	12:07	73S	18:07	266	18:53

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

2024	Dec	14	(Sat)	05:43	06:33	114	12:13	54S	17:53	246	18:42
2024	Dec	15	(Sun)	05:44	06:34	114	12:13	54S	17:53	246	18:43
2024	Dec	16	(Mon)	05:44	06:34	114	12:14	54S	17:53	246	18:43
2024	Dec	17	(Tue)	05:45	06:35	114	12:14	54S	17:54	246	18:44
2024	Dec	18	(Wed)	05:45	06:35	114	12:15	54S	17:54	246	18:44
2024	Dec	19	(Thu)	05:46	06:36	114	12:15	54S	17:55	246	18:45
2024	Dec	20	(Fri)	05:46	06:36	114	12:16	54S	17:55	246	18:45
2024	Dec	21	(Sat)	05:47	06:37	114	12:16	54S	17:56	246	18:46
2024	Dec	22	(Sun)	05:47	06:37	114	12:17	54S	17:56	246	18:46
2024	Dec	23	(Mon)	05:48	06:38	114	12:17	54S	17:57	246	18:47
2024	Dec	24	(Tue)	05:48	06:38	114	12:18	54S	17:57	246	18:47
2024	Dec	25	(Wed)	05:49	06:39	114	12:18	54S	17:58	246	18:48
2024	Dec	26	(Thu)	05:49	06:39	114	12:19	54S	17:58	246	18:48
2024	Dec	27	(Fri)	05:50	06:40	114	12:19	54S	17:59	246	18:49
2024	Dec	28	(Sat)	05:50	06:40	114	12:20	54S	17:59	246	18:49
2024	Dec	29	(Sun)	05:51	06:40	114	12:20	54S	18:00	246	18:50
2024	Dec	30	(Mon)	05:51	06:41	114	12:21	54S	18:01	246	18:50
2024	Dec	31	(Tue)	05:51	06:41	114	12:21	54S	18:01	246	18:51

Sun

Bangkok

Location: E100°29'31.2", N13°45'03.6", 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)	06:18	06:41	114	12:21	54S	18:01	246	18:24
2024	Jan	02	(Tue)	06:19	06:42	113	12:22	54S	18:02	247	18:25
2024	Jan	03	(Wed)	06:19	06:42	113	12:22	54S	18:02	247	18:25
2024	Jan	04	(Thu)	06:19	06:42	113	12:23	54S	18:03	247	18:26
2024	Jan	05	(Fri)	06:20	06:43	113	12:23	54S	18:03	247	18:27
2024	Jan	06	(Sat)	06:20	06:43	113	12:24	54S	18:04	247	18:27
2024	Jan	07	(Sun)	06:20	06:43	113	12:24	55S	18:05	247	18:28
2024	Jan	08	(Mon)	06:21	06:44	113	12:24	55S	18:05	247	18:28
2024	Jan	09	(Tue)	06:21	06:44	113	12:25	55S	18:06	247	18:29
2024	Jan	10	(Wed)	06:21	06:44	113	12:25	55S	18:06	248	18:29
2024	Jan	11	(Thu)	06:22	06:44	112	12:26	55S	18:07	248	18:30
2024	Jan	12	(Fri)	06:22	06:45	112	12:26	55S	18:08	248	18:30
2024	Jan	13	(Sat)	06:22	06:45	112	12:26	55S	18:08	248	18:31
2024	Jan	14	(Sun)	06:22	06:45	112	12:27	56S	18:09	248	18:31
2024	Jan	15	(Mon)	06:22	06:45	112	12:27	56S	18:09	248	18:32
2024	Jan	16	(Tue)	06:23	06:45	112	12:28	56S	18:10	249	18:33
2024	Jan	17	(Wed)	06:23	06:46	111	12:28	56S	18:10	249	18:33
2024	Jan	18	(Thu)	06:23	06:46	111	12:28	56S	18:11	249	18:34
2024	Jan	19	(Fri)	06:23	06:46	111	12:29	57S	18:11	249	18:34
2024	Jan	20	(Sat)	06:23	06:46	111	12:29	57S	18:12	249	18:35
2024	Jan	21	(Sun)	06:23	06:46	110	12:29	57S	18:12	250	18:35
2024	Jan	22	(Mon)	06:23	06:46	110	12:29	57S	18:13	250	18:36
2024	Jan	23	(Tue)	06:23	06:46	110	12:30	57S	18:13	250	18:36
2024	Jan	24	(Wed)	06:23	06:46	110	12:30	58S	18:14	250	18:36
2024	Jan	25	(Thu)	06:23	06:46	110	12:30	58S	18:14	251	18:37
2024	Jan	26	(Fri)	06:23	06:46	109	12:30	58S	18:15	251	18:37
2024	Jan	27	(Sat)	06:23	06:46	109	12:31	58S	18:15	251	18:38
2024	Jan	28	(Sun)	06:23	06:46	109	12:31	59S	18:16	251	18:38
2024	Jan	29	(Mon)	06:23	06:46	108	12:31	59S	18:16	252	18:39
2024	Jan	30	(Tue)	06:23	06:46	108	12:31	59S	18:17	252	18:39
2024	Jan	31	(Wed)	06:23	06:45	108	12:31	59S	18:17	252	18:40
2024	Feb	01	(Thu)	06:23	06:45	108	12:31	60S	18:18	253	18:40
2024	Feb	02	(Fri)	06:23	06:45	107	12:32	60S	18:18	253	18:40
2024	Feb	03	(Sat)	06:23	06:45	107	12:32	60S	18:19	253	18:41
2024	Feb	04	(Sun)	06:23	06:45	107	12:32	61S	18:19	253	18:41
2024	Feb	05	(Mon)	06:22	06:45	106	12:32	61S	18:19	254	18:42
2024	Feb	06	(Tue)	06:22	06:44	106	12:32	61S	18:20	254	18:42
2024	Feb	07	(Wed)	06:22	06:44	106	12:32	61S	18:20	254	18:42
2024	Feb	08	(Thu)	06:22	06:44	105	12:32	62S	18:21	255	18:43
2024	Feb	09	(Fri)	06:22	06:44	105	12:32	62S	18:21	255	18:43
2024	Feb	10	(Sat)	06:21	06:43	105	12:32	62S	18:21	255	18:43

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

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

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

2024	Sep	14	(Sat)	05:46	06:07	86	12:14	80S	18:20	273	18:41
2024	Sep	15	(Sun)	05:46	06:07	87	12:13	80S	18:19	273	18:40
2024	Sep	16	(Mon)	05:46	06:07	87	12:13	79S	18:18	273	18:40
2024	Sep	17	(Tue)	05:46	06:07	88	12:12	79S	18:18	272	18:39
2024	Sep	18	(Wed)	05:46	06:07	88	12:12	79S	18:17	272	18:38
2024	Sep	19	(Thu)	05:46	06:07	88	12:12	78S	18:16	271	18:38
2024	Sep	20	(Fri)	05:46	06:07	89	12:11	78S	18:15	271	18:37
2024	Sep	21	(Sat)	05:46	06:07	89	12:11	77S	18:15	271	18:36
2024	Sep	22	(Sun)	05:46	06:07	90	12:11	77S	18:14	270	18:35
2024	Sep	23	(Mon)	05:46	06:07	90	12:10	77S	18:13	270	18:35
2024	Sep	24	(Tue)	05:46	06:07	90	12:10	76S	18:13	269	18:34
2024	Sep	25	(Wed)	05:46	06:07	91	12:10	76S	18:12	269	18:33
2024	Sep	26	(Thu)	05:46	06:07	91	12:09	76S	18:11	269	18:32
2024	Sep	27	(Fri)	05:46	06:07	92	12:09	75S	18:10	268	18:32
2024	Sep	28	(Sat)	05:46	06:07	92	12:09	75S	18:10	268	18:31
2024	Sep	29	(Sun)	05:46	06:07	92	12:08	74S	18:09	267	18:30
2024	Sep	30	(Mon)	05:46	06:07	93	12:08	74S	18:08	267	18:30
2024	Oct	01	(Tue)	05:46	06:07	93	12:08	74S	18:08	267	18:29
2024	Oct	02	(Wed)	05:46	06:08	94	12:07	73S	18:07	266	18:28
2024	Oct	03	(Thu)	05:46	06:08	94	12:07	73S	18:06	266	18:27
2024	Oct	04	(Fri)	05:46	06:08	94	12:07	72S	18:05	265	18:27
2024	Oct	05	(Sat)	05:46	06:08	95	12:06	72S	18:05	265	18:26
2024	Oct	06	(Sun)	05:46	06:08	95	12:06	72S	18:04	265	18:25
2024	Oct	07	(Mon)	05:47	06:08	96	12:06	71S	18:03	264	18:25
2024	Oct	08	(Tue)	05:47	06:08	96	12:06	71S	18:03	264	18:24
2024	Oct	09	(Wed)	05:47	06:08	96	12:05	71S	18:02	263	18:24
2024	Oct	10	(Thu)	05:47	06:08	97	12:05	70S	18:02	263	18:23
2024	Oct	11	(Fri)	05:47	06:08	97	12:05	70S	18:01	263	18:22
2024	Oct	12	(Sat)	05:47	06:08	98	12:04	69S	18:00	262	18:22
2024	Oct	13	(Sun)	05:47	06:09	98	12:04	69S	18:00	262	18:21
2024	Oct	14	(Mon)	05:47	06:09	98	12:04	69S	17:59	262	18:21
2024	Oct	15	(Tue)	05:47	06:09	99	12:04	68S	17:58	261	18:20
2024	Oct	16	(Wed)	05:47	06:09	99	12:04	68S	17:58	261	18:19
2024	Oct	17	(Thu)	05:48	06:09	99	12:03	68S	17:57	260	18:19
2024	Oct	18	(Fri)	05:48	06:09	100	12:03	67S	17:57	260	18:18
2024	Oct	19	(Sat)	05:48	06:09	100	12:03	67S	17:56	260	18:18
2024	Oct	20	(Sun)	05:48	06:10	101	12:03	66S	17:56	259	18:17
2024	Oct	21	(Mon)	05:48	06:10	101	12:03	66S	17:55	259	18:17
2024	Oct	22	(Tue)	05:48	06:10	101	12:02	66S	17:55	259	18:16
2024	Oct	23	(Wed)	05:49	06:10	102	12:02	65S	17:54	258	18:16
2024	Oct	24	(Thu)	05:49	06:10	102	12:02	65S	17:54	258	18:15
2024	Oct	25	(Fri)	05:49	06:11	102	12:02	65S	17:53	257	18:15
2024	Oct	26	(Sat)	05:49	06:11	103	12:02	64S	17:53	257	18:15
2024	Oct	27	(Sun)	05:49	06:11	103	12:02	64S	17:52	257	18:14
2024	Oct	28	(Mon)	05:50	06:11	103	12:02	64S	17:52	256	18:14
2024	Oct	29	(Tue)	05:50	06:12	104	12:02	63S	17:52	256	18:13
2024	Oct	30	(Wed)	05:50	06:12	104	12:02	63S	17:51	256	18:13
2024	Oct	31	(Thu)	05:50	06:12	104	12:02	63S	17:51	255	18:13
2024	Nov	01	(Fri)	05:51	06:13	105	12:02	62S	17:50	255	18:12
2024	Nov	02	(Sat)	05:51	06:13	105	12:02	62S	17:50	255	18:12
2024	Nov	03	(Sun)	05:51	06:13	105	12:02	62S	17:50	254	18:12
2024	Nov	04	(Mon)	05:52	06:14	106	12:02	61S	17:50	254	18:12
2024	Nov	05	(Tue)	05:52	06:14	106	12:02	61S	17:49	254	18:11
2024	Nov	06	(Wed)	05:52	06:14	106	12:02	61S	17:49	254	18:11
2024	Nov	07	(Thu)	05:52	06:15	107	12:02	61S	17:49	253	18:11
2024	Nov	08	(Fri)	05:53	06:15	107	12:02	60S	17:48	253	18:11
2024	Nov	09	(Sat)	05:53	06:15	107	12:02	60S	17:48	253	18:10
2024	Nov	10	(Sun)	05:53	06:16	108	12:02	60S	17:48	252	18:10
2024	Nov	11	(Mon)	05:54	06:16	108	12:02	59S	17:48	252	18:10
2024	Nov	12	(Tue)	05:54	06:17	108	12:02	59S	17:48	252	18:10
2024	Nov	13	(Wed)	05:55	06:17	108	12:02	59S	17:48	252	18:10
2024	Nov	14	(Thu)	05:55	06:17	109	12:02	59S	17:47	251	18:10
2024	Nov	15	(Fri)	05:55	06:18	109	12:03	58S	17:47	251	18:10
2024	Nov	16	(Sat)	05:56	06:18	109	12:03	58S	17:47	251	18:10
2024	Nov	17	(Sun)	05:56	06:19	109	12:03	58S	17:47	250	18:10
2024	Nov	18	(Mon)	05:57	06:19	110	12:03	58S	17:47	250	18:10
2024	Nov	19	(Tue)	05:57	06:20	110	12:03	57S	17:47	250	18:10
2024	Nov	20	(Wed)	05:58	06:20	110	12:04	57S	17:47	250	18:10
2024	Nov	21	(Thu)	05:58	06:21	110	12:04	57S	17:47	250	18:10
2024	Nov	22	(Fri)	05:58	06:21	111	12:04	57S	17:47	249	18:10
2024	Nov	23	(Sat)	05:59	06:22	111	12:04	57S	17:47	249	18:10
2024	Nov	24	(Sun)	05:59	06:22	111	12:05	56S	17:47	249	18:10

2024	Nov	25	(Mon)	06:00	06:23	111	12:05	56S	17:47	249	18:10
2024	Nov	26	(Tue)	06:00	06:23	111	12:05	56S	17:48	248	18:10
2024	Nov	27	(Wed)	06:01	06:24	112	12:06	56S	17:48	248	18:10
2024	Nov	28	(Thu)	06:01	06:24	112	12:06	56S	17:48	248	18:11
2024	Nov	29	(Fri)	06:02	06:25	112	12:06	55S	17:48	248	18:11
2024	Nov	30	(Sat)	06:02	06:25	112	12:07	55S	17:48	248	18:11
2024	Dec	01	(Sun)	06:03	06:26	112	12:07	55S	17:48	248	18:11
2024	Dec	02	(Mon)	06:03	06:26	112	12:08	55S	17:49	247	18:11
2024	Dec	03	(Tue)	06:04	06:27	113	12:08	55S	17:49	247	18:12
2024	Dec	04	(Wed)	06:05	06:27	113	12:08	55S	17:49	247	18:12
2024	Dec	05	(Thu)	06:05	06:28	113	12:09	55S	17:49	247	18:12
2024	Dec	06	(Fri)	06:06	06:29	113	12:09	54S	17:50	247	18:13
2024	Dec	07	(Sat)	06:06	06:29	113	12:10	54S	17:50	247	18:13
2024	Dec	08	(Sun)	06:07	06:30	113	12:10	54S	17:50	247	18:13
2024	Dec	09	(Mon)	06:07	06:30	113	12:10	54S	17:51	247	18:14
2024	Dec	10	(Tue)	06:08	06:31	113	12:11	54S	17:51	247	18:14
2024	Dec	11	(Wed)	06:08	06:31	114	12:11	54S	17:51	246	18:14
2024	Dec	12	(Thu)	06:09	06:32	114	12:12	54S	17:52	246	18:15
2024	Dec	13	(Fri)	06:09	06:32	114	12:12	54S	17:52	246	18:15
2024	Dec	14	(Sat)	06:10	06:33	114	12:13	54S	17:53	246	18:16
2024	Dec	15	(Sun)	06:10	06:34	114	12:13	54S	17:53	246	18:16
2024	Dec	16	(Mon)	06:11	06:34	114	12:14	54S	17:53	246	18:16
2024	Dec	17	(Tue)	06:11	06:35	114	12:14	54S	17:54	246	18:17
2024	Dec	18	(Wed)	06:12	06:35	114	12:15	54S	17:54	246	18:17
2024	Dec	19	(Thu)	06:12	06:36	114	12:15	54S	17:55	246	18:18
2024	Dec	20	(Fri)	06:13	06:36	114	12:16	54S	17:55	246	18:18
2024	Dec	21	(Sat)	06:14	06:37	114	12:16	54S	17:56	246	18:19
2024	Dec	22	(Sun)	06:14	06:37	114	12:17	54S	17:56	246	18:19
2024	Dec	23	(Mon)	06:14	06:38	114	12:17	54S	17:57	246	18:20
2024	Dec	24	(Tue)	06:15	06:38	114	12:18	54S	17:57	246	18:20
2024	Dec	25	(Wed)	06:15	06:39	114	12:18	54S	17:58	246	18:21
2024	Dec	26	(Thu)	06:16	06:39	114	12:19	54S	17:58	246	18:21
2024	Dec	27	(Fri)	06:16	06:40	114	12:19	54S	17:59	246	18:22
2024	Dec	28	(Sat)	06:17	06:40	114	12:20	54S	17:59	246	18:23
2024	Dec	29	(Sun)	06:17	06:40	114	12:20	54S	18:00	246	18:23
2024	Dec	30	(Mon)	06:18	06:41	114	12:21	54S	18:01	246	18:24
2024	Dec	31	(Tue)	06:18	06:41	114	12:21	54S	18:01	246	18:24

Moon

Bangkok

Location: E100°29'31.2", N13°45'03.6", 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)	22:31		80	04:09		90S	10:31		282
2024	Jan	02	(Tue)	23:16		86	04:50		85S	11:05		277
2024	Jan	03	(Wed)				05:29		79S	11:39		271
2024	Jan	04	(Thu)	00:01		92	06:08		73S	12:12		265
2024	Jan	05	(Fri)	00:46		98	06:48		67S	12:47		259
2024	Jan	06	(Sat)	01:34		104	07:31		62S	13:25		253
2024	Jan	07	(Sun)	02:26		109	08:18		57S	14:07		248
2024	Jan	08	(Mon)	03:22		114	09:10		52S	14:56		244
2024	Jan	09	(Tue)	04:22		117	10:07		49S	15:51		242
2024	Jan	10	(Wed)	05:24		119	11:08		48S	16:52		241
2024	Jan	11	(Thu)	06:28		119	12:12		49S	17:57		242
2024	Jan	12	(Fri)	07:28		116	13:15		52S	19:04		246
2024	Jan	13	(Sat)	08:23		112	14:14		57S	20:08		251
2024	Jan	14	(Sun)	09:13		106	15:10		63S	21:09		257
2024	Jan	15	(Mon)	09:58		99	16:01		69S	22:07		264
2024	Jan	16	(Tue)	10:40		92	16:50		77S	23:03		272
2024	Jan	17	(Wed)	11:21		85	17:38		84S	23:58		279
2024	Jan	18	(Thu)	12:02		78	18:26		90S			
2024	Jan	19	(Fri)	12:45		72	19:15		86N	00:52		285
2024	Jan	20	(Sat)	13:30		67	20:07		81N	01:48		291
2024	Jan	21	(Sun)	14:19		64	21:00		78N	02:46		295
2024	Jan	22	(Mon)	15:12		61	21:56		76N	03:43		298
2024	Jan	23	(Tue)	16:06		61	22:51		76N	04:40		299

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

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

2024 Jun 16 (Sun)	13:52 98	19:54 68S	01:19 265
2024 Jun 17 (Mon)	14:39 104	20:35 62S	01:53 259
2024 Jun 18 (Tue)	15:28 109	21:20 57S	02:30 254
2024 Jun 19 (Wed)	16:22 113	22:09 53S	03:10 249
2024 Jun 20 (Thu)	17:18 117	23:03 50S	03:56 245
2024 Jun 21 (Fri)	18:18 119		04:47 242
2024 Jun 22 (Sat)	19:18 119	00:01 48S	05:44 241
2024 Jun 23 (Sun)	20:16 117	01:01 48S	06:45 241
2024 Jun 24 (Mon)	21:10 114	02:01 50S	07:47 244
2024 Jun 25 (Tue)	21:59 109	02:58 54S	08:49 248
2024 Jun 26 (Wed)	22:44 103	03:53 60S	09:49 254
2024 Jun 27 (Thu)	23:26 96	04:43 66S	10:46 261
2024 Jun 28 (Fri)		05:32 73S	11:41 268
2024 Jun 29 (Sat)	00:07 89	06:20 80S	12:36 275
2024 Jun 30 (Sun)	00:48 82	07:08 87S	13:31 282
2024 Jul 01 (Mon)	01:30 75	07:57 88N	14:28 288
2024 Jul 02 (Tue)	02:16 69	08:50 83N	15:27 293
2024 Jul 03 (Wed)	03:06 65	09:46 79N	16:28 297
2024 Jul 04 (Thu)	04:00 62	10:44 76N	17:30 299
2024 Jul 05 (Fri)	04:57 61	11:43 76N	18:28 299
2024 Jul 06 (Sat)	05:56 62	12:40 77N	19:23 297
2024 Jul 07 (Sun)	06:54 64	13:34 80N	20:12 294
2024 Jul 08 (Mon)	07:49 68	14:24 84N	20:55 290
2024 Jul 09 (Tue)	08:41 73	15:09 89N	21:34 285
2024 Jul 10 (Wed)	09:30 78	15:51 87S	22:10 279
2024 Jul 11 (Thu)	10:16 84	16:31 82S	22:44 273
2024 Jul 12 (Fri)	11:01 90	17:10 76S	23:17 267
2024 Jul 13 (Sat)	11:45 96	17:49 70S	23:50 262
2024 Jul 14 (Sun)	12:31 101	18:30 64S	
2024 Jul 15 (Mon)	13:19 107	19:13 59S	00:26 256
2024 Jul 16 (Tue)	14:10 112	19:59 54S	01:04 251
2024 Jul 17 (Wed)	15:05 116	20:50 51S	01:46 246
2024 Jul 18 (Thu)	16:03 118	21:46 49S	02:35 243
2024 Jul 19 (Fri)	17:03 119	22:46 48S	03:29 241
2024 Jul 20 (Sat)	18:03 118	23:47 49S	04:29 241
2024 Jul 21 (Sun)	18:59 116		05:32 243
2024 Jul 22 (Mon)	19:52 111	00:47 53S	06:36 246
2024 Jul 23 (Tue)	20:40 105	01:43 57S	07:38 252
2024 Jul 24 (Wed)	21:24 98	02:37 64S	08:38 258
2024 Jul 25 (Thu)	22:06 91	03:28 71S	09:35 266
2024 Jul 26 (Fri)	22:47 83	04:17 78S	10:31 273
2024 Jul 27 (Sat)	23:29 77	05:05 85S	11:27 280
2024 Jul 28 (Sun)		05:55 90N	12:24 287
2024 Jul 29 (Mon)	00:14 71	06:46 84N	13:22 292
2024 Jul 30 (Tue)	01:02 66	07:41 80N	14:22 296
2024 Jul 31 (Wed)	01:54 62	08:38 77N	15:22 299
2024 Aug 01 (Thu)	02:50 61	09:35 76N	16:21 299
2024 Aug 02 (Fri)	03:48 61	10:33 76N	17:16 298
2024 Aug 03 (Sat)	04:45 63	11:27 79N	18:06 296
2024 Aug 04 (Sun)	05:41 66	12:18 82N	18:51 292
2024 Aug 05 (Mon)	06:34 71	13:04 87N	19:32 287
2024 Aug 06 (Tue)	07:23 76	13:48 89S	20:09 281
2024 Aug 07 (Wed)	08:10 82	14:28 84S	20:43 275
2024 Aug 08 (Thu)	08:56 88	15:07 78S	21:16 269
2024 Aug 09 (Fri)	09:40 94	15:46 72S	21:49 264
2024 Aug 10 (Sat)	10:25 99	16:26 66S	22:23 258
2024 Aug 11 (Sun)	11:12 105	17:07 61S	23:00 253
2024 Aug 12 (Mon)	12:01 110	17:51 56S	23:40 248
2024 Aug 13 (Tue)	12:53 114	18:40 52S	
2024 Aug 14 (Wed)	13:49 118	19:32 49S	00:24 244
2024 Aug 15 (Thu)	14:47 119	20:29 48S	01:15 241
2024 Aug 16 (Fri)	15:46 119	21:29 48S	02:11 240
2024 Aug 17 (Sat)	16:44 117	22:29 51S	03:13 241
2024 Aug 18 (Sun)	17:39 113	23:28 55S	04:16 244
2024 Aug 19 (Mon)	18:29 108		05:20 249
2024 Aug 20 (Tue)	19:16 101	00:24 61S	06:22 255
2024 Aug 21 (Wed)	20:00 94	01:17 68S	07:22 262
2024 Aug 22 (Thu)	20:43 86	02:08 75S	08:20 270
2024 Aug 23 (Fri)	21:26 79	02:58 82S	09:18 278
2024 Aug 24 (Sat)	22:11 72	03:49 89S	10:16 285
2024 Aug 25 (Sun)	22:59 67	04:41 86N	11:15 291
2024 Aug 26 (Mon)	23:50 63	05:36 81N	12:16 295

2024 Aug 27 (Tue)		06:33 77N	13:17 298
2024 Aug 28 (Wed)	00:45 61	07:31 76N	14:16 299
2024 Aug 29 (Thu)	01:43 61	08:28 76N	15:12 299
2024 Aug 30 (Fri)	02:40 62	09:23 78N	16:04 297
2024 Aug 31 (Sat)	03:36 65	10:14 81N	16:50 293
2024 Sep 01 (Sun)	04:29 69	11:01 85N	17:31 288
2024 Sep 02 (Mon)	05:19 74	11:45 90N	18:09 283
2024 Sep 03 (Tue)	06:07 80	12:27 86S	18:44 277
2024 Sep 04 (Wed)	06:52 85	13:06 80S	19:17 272
2024 Sep 05 (Thu)	07:37 91	13:45 74S	19:50 266
2024 Sep 06 (Fri)	08:22 97	14:24 68S	20:23 260
2024 Sep 07 (Sat)	09:07 103	15:04 63S	20:58 254
2024 Sep 08 (Sun)	09:55 108	15:47 58S	21:37 249
2024 Sep 09 (Mon)	10:45 113	16:33 53S	22:19 245
2024 Sep 10 (Tue)	11:39 117	17:23 50S	23:06 242
2024 Sep 11 (Wed)	12:35 119	18:17 48S	23:59 241
2024 Sep 12 (Thu)	13:32 120	19:14 48S	
2024 Sep 13 (Fri)	14:29 119	20:12 49S	00:56 241
2024 Sep 14 (Sat)	15:24 116	21:11 52S	01:57 243
2024 Sep 15 (Sun)	16:16 111	22:07 57S	03:00 246
2024 Sep 16 (Mon)	17:04 105	23:01 64S	04:02 252
2024 Sep 17 (Tue)	17:49 98	23:54 71S	05:02 259
2024 Sep 18 (Wed)	18:33 90		06:02 266
2024 Sep 19 (Thu)	19:17 82	00:45 79S	07:01 274
2024 Sep 20 (Fri)	20:02 75	01:37 86S	08:01 282
2024 Sep 21 (Sat)	20:51 69	02:30 88N	09:02 288
2024 Sep 22 (Sun)	21:43 64	03:26 83N	10:04 294
2024 Sep 23 (Mon)	22:38 61	04:24 78N	11:08 298
2024 Sep 24 (Tue)	23:36 60	05:23 76N	12:09 299
2024 Sep 25 (Wed)		06:22 76N	13:08 299
2024 Sep 26 (Thu)	00:35 61	07:19 77N	14:01 298
2024 Sep 27 (Fri)	01:31 64	08:11 80N	14:49 294
2024 Sep 28 (Sat)	02:25 68	09:00 84N	15:31 290
2024 Sep 29 (Sun)	03:16 72	09:44 89N	16:10 285
2024 Sep 30 (Mon)	04:04 78	10:26 87S	16:45 279
2024 Oct 01 (Tue)	04:50 83	11:06 82S	17:19 273
2024 Oct 02 (Wed)	05:35 90	11:45 76S	17:51 268
2024 Oct 03 (Thu)	06:19 96	12:23 70S	18:25 262
2024 Oct 04 (Fri)	07:05 101	13:03 64S	18:59 256
2024 Oct 05 (Sat)	07:52 107	13:45 59S	19:36 251
2024 Oct 06 (Sun)	08:41 112	14:30 55S	20:17 246
2024 Oct 07 (Mon)	09:33 116	15:18 51S	21:02 243
2024 Oct 08 (Tue)	10:28 118	16:10 49S	21:52 241
2024 Oct 09 (Wed)	11:24 120	17:05 48S	22:47 240
2024 Oct 10 (Thu)	12:19 119	18:02 48S	23:45 242
2024 Oct 11 (Fri)	13:13 117	18:58 51S	
2024 Oct 12 (Sat)	14:05 113	19:53 55S	00:45 244
2024 Oct 13 (Sun)	14:52 108	20:47 60S	01:45 249
2024 Oct 14 (Mon)	15:38 101	21:38 67S	02:44 255
2024 Oct 15 (Tue)	16:21 94	22:29 75S	03:43 262
2024 Oct 16 (Wed)	17:05 86	23:20 82S	04:41 270
2024 Oct 17 (Thu)	17:50 79		05:40 277
2024 Oct 18 (Fri)	18:37 72	00:13 90S	06:41 285
2024 Oct 19 (Sat)	19:29 66	01:09 85N	07:45 291
2024 Oct 20 (Sun)	20:25 62	02:08 80N	08:50 296
2024 Oct 21 (Mon)	21:24 61	03:09 77N	09:55 299
2024 Oct 22 (Tue)	22:25 61	04:11 76N	10:57 300
2024 Oct 23 (Wed)	23:24 63	05:10 76N	11:54 298
2024 Oct 24 (Thu)		06:05 79N	12:45 296
2024 Oct 25 (Fri)	00:20 66	06:56 82N	13:30 292
2024 Oct 26 (Sat)	01:12 71	07:43 87N	14:10 287
2024 Oct 27 (Sun)	02:01 76	08:25 89S	14:46 281
2024 Oct 28 (Mon)	02:48 82	09:05 84S	15:20 275
2024 Oct 29 (Tue)	03:33 88	09:44 78S	15:53 269
2024 Oct 30 (Wed)	04:17 94	10:23 72S	16:26 264
2024 Oct 31 (Thu)	05:02 99	11:02 66S	17:00 258
2024 Nov 01 (Fri)	05:49 105	11:44 61S	17:36 253
2024 Nov 02 (Sat)	06:37 110	12:28 56S	18:16 248
2024 Nov 03 (Sun)	07:29 114	13:15 52S	19:00 244
2024 Nov 04 (Mon)	08:23 117	14:06 49S	19:49 242
2024 Nov 05 (Tue)	09:19 119	15:00 48S	20:42 240
2024 Nov 06 (Wed)	10:14 119	15:56 48S	21:39 241

2024 Nov 07 (Thu)	11:08 118	16:52 50S	22:37 243
2024 Nov 08 (Fri)	11:59 115	17:46 53S	23:35 247
2024 Nov 09 (Sat)	12:47 110	18:38 58S	
2024 Nov 10 (Sun)	13:31 104	19:29 64S	00:33 253
2024 Nov 11 (Mon)	14:13 97	20:18 71S	01:29 259
2024 Nov 12 (Tue)	14:55 90	21:07 79S	02:25 266
2024 Nov 13 (Wed)	15:38 83	21:57 86S	03:22 274
2024 Nov 14 (Thu)	16:23 76	22:50 89N	04:21 281
2024 Nov 15 (Fri)	17:12 69	23:48 83N	05:22 288
2024 Nov 16 (Sat)	18:06 64		06:26 294
2024 Nov 17 (Sun)	19:05 61	00:48 78N	07:33 297
2024 Nov 18 (Mon)	20:07 61	01:51 76N	08:38 299
2024 Nov 19 (Tue)	21:09 62	02:54 76N	09:40 299
2024 Nov 20 (Wed)	22:09 65	03:53 78N	10:35 297
2024 Nov 21 (Thu)	23:04 69	04:48 81N	11:24 293
2024 Nov 22 (Fri)	23:55 74	05:37 85N	12:07 288
2024 Nov 23 (Sat)		06:22 90N	12:45 283
2024 Nov 24 (Sun)	00:43 80	07:03 86S	13:20 277
2024 Nov 25 (Mon)	01:29 86	07:42 80S	13:53 271
2024 Nov 26 (Tue)	02:13 92	08:21 74S	14:26 266
2024 Nov 27 (Wed)	02:58 97	09:00 68S	15:00 260
2024 Nov 28 (Thu)	03:44 103	09:41 63S	15:35 254
2024 Nov 29 (Fri)	04:32 108	10:24 58S	16:14 249
2024 Nov 30 (Sat)	05:23 113	11:11 53S	16:57 245
2024 Dec 01 (Sun)	06:17 116	12:01 50S	17:44 242
2024 Dec 02 (Mon)	07:13 119	12:55 48S	18:37 241
2024 Dec 03 (Tue)	08:09 119	13:51 48S	19:33 241
2024 Dec 04 (Wed)	09:04 118	14:48 49S	20:32 243
2024 Dec 05 (Thu)	09:57 116	15:43 52S	21:31 246
2024 Dec 06 (Fri)	10:45 111	16:35 57S	22:28 251
2024 Dec 07 (Sat)	11:29 106	17:25 63S	23:24 257
2024 Dec 08 (Sun)	12:11 99	18:13 69S	
2024 Dec 09 (Mon)	12:52 93	19:00 76S	00:18 264
2024 Dec 10 (Tue)	13:32 85	19:48 83S	01:13 271
2024 Dec 11 (Wed)	14:15 78	20:38 90S	02:08 278
2024 Dec 12 (Thu)	15:00 72	21:32 85N	03:06 285
2024 Dec 13 (Fri)	15:51 67	22:29 80N	04:07 291
2024 Dec 14 (Sat)	16:47 63	23:31 77N	05:11 296
2024 Dec 15 (Sun)	17:47 61		06:17 299
2024 Dec 16 (Mon)	18:50 61	00:34 76N	07:21 299
2024 Dec 17 (Tue)	19:52 63	01:36 77N	08:20 298
2024 Dec 18 (Wed)	20:50 67	02:34 79N	09:13 295
2024 Dec 19 (Thu)	21:45 72	03:26 83N	09:59 290
2024 Dec 20 (Fri)	22:35 77	04:14 88N	10:40 285
2024 Dec 21 (Sat)	23:22 83	04:58 88S	11:17 280
2024 Dec 22 (Sun)		05:38 82S	11:51 274
2024 Dec 23 (Mon)	00:08 89	06:18 76S	12:25 268
2024 Dec 24 (Tue)	00:52 95	06:57 70S	12:58 262
2024 Dec 25 (Wed)	01:38 101	07:36 64S	13:33 256
2024 Dec 26 (Thu)	02:25 107	08:18 59S	14:10 251
2024 Dec 27 (Fri)	03:14 111	09:04 55S	14:51 247
2024 Dec 28 (Sat)	04:07 115	09:53 51S	15:37 243
2024 Dec 29 (Sun)	05:03 118	10:46 49S	16:28 241
2024 Dec 30 (Mon)	06:00 119	11:42 48S	17:24 241
2024 Dec 31 (Tue)	06:56 119	12:39 49S	18:23 242