

december 2023

Home Location Latitude: 52° 08' 00" North, Longitude: 005° 00' 00" East

	LST at Midnight	Rise	Moon			illum	Ast.	Twilight			Rise	Sun		Set	Civil	Twilight		
			Transit	Set			Naut.	Civil			Transit	Set			Naut.	Ast.		
01-12-2023	04:38:21	19:53	03:45	12:35	86%	06:22	07:03	07:46	08:26	12:29	16:32	17:12	17:54	18:35				
02-12-2023	04:42:17	21:09	04:36	12:59	79%	06:23	07:04	07:47	08:27	12:29	16:31	17:11	17:54	18:35				
03-12-2023	04:46:14	22:23	05:22	13:17	71%	06:25	07:05	07:49	08:29	12:30	16:31	17:11	17:54	18:34				
04-12-2023	04:50:10	23:35	06:06	13:30	62%	06:26	07:07	07:50	08:30	12:30	16:30	17:10	17:53	18:34				
05-12-2023	04:54:07	*****	06:47	13:41	52%	06:27	07:08	07:51	08:31	12:31	16:29	17:10	17:53	18:34				
06-12-2023	04:58:03	00:46	07:26	13:50	43%	06:28	07:09	07:52	08:33	12:31	16:29	17:09	17:53	18:34				
07-12-2023	05:02:00	01:57	08:06	14:00	34%	06:29	07:10	07:53	08:34	12:31	16:29	17:09	17:52	18:34				
08-12-2023	05:05:57	03:09	08:46	14:10	25%	06:30	07:11	07:54	08:35	12:32	16:28	17:09	17:52	18:33				
09-12-2023	05:09:53	04:24	09:29	14:21	17%	06:31	07:12	07:56	08:36	12:32	16:28	17:09	17:52	18:33				
10-12-2023	05:13:50	05:43	10:16	14:37	10%	06:32	07:13	07:57	08:37	12:33	16:28	17:09	17:52	18:33				
11-12-2023	05:17:46	07:06	11:07	14:58	5%	06:33	07:14	07:58	08:38	12:33	16:28	17:09	17:52	18:33				
12-12-2023	05:21:43	08:30	12:03	15:29	1%	06:34	07:15	07:59	08:39	12:34	16:28	17:09	17:52	18:33				
13-12-2023	05:25:39	09:48	13:03	16:16	0%	06:34	07:16	07:59	08:40	12:34	16:28	17:09	17:52	18:34				
14-12-2023	05:29:36	10:51	14:06	17:23	2%	06:35	07:17	08:00	08:41	12:35	16:28	17:09	17:52	18:34				
15-12-2023	05:33:32	11:36	15:08	18:47	5%	06:36	07:17	08:01	08:42	12:35	16:28	17:09	17:53	18:34				
16-12-2023	05:37:29	12:06	16:06	20:18	12%	06:37	07:18	08:02	08:43	12:36	16:28	17:09	17:53	18:34				
17-12-2023	05:41:26	12:27	17:01	21:49	20%	06:37	07:19	08:03	08:44	12:36	16:28	17:09	17:53	18:34				
18-12-2023	05:45:22	12:43	17:52	23:17	30%	06:38	07:19	08:03	08:44	12:36	16:28	17:10	17:53	18:35				
19-12-2023	05:49:19	12:55	18:40	*****	41%	06:39	07:20	08:04	08:45	12:37	16:29	17:10	17:54	18:35				
20-12-2023	05:53:15	13:07	19:27	00:43	53%	06:39	07:21	08:05	08:46	12:37	16:29	17:10	17:54	18:36				
21-12-2023	05:57:12	13:19	20:14	02:07	64%	06:40	07:21	08:05	08:46	12:38	16:30	17:11	17:55	18:36				
22-12-2023	06:01:08	13:32	21:03	03:31	74%	06:40	07:22	08:06	08:47	12:38	16:30	17:11	17:55	18:37				
23-12-2023	06:05:05	13:49	21:54	04:56	83%	06:41	07:22	08:06	08:47	12:39	16:31	17:12	17:56	18:37				
24-12-2023	06:09:01	14:11	22:48	06:21	90%	06:41	07:23	08:07	08:48	12:39	16:31	17:12	17:56	18:38				
25-12-2023	06:12:58	14:42	23:43	07:42	96%	06:42	07:23	08:07	08:48	12:40	16:32	17:13	17:57	18:38				
26-12-2023	06:16:55	15:27	*****	08:54	99%	06:42	07:23	08:07	08:48	12:40	16:33	17:14	17:58	18:39				
27-12-2023	06:20:51	16:25	00:40	09:51	100%	06:42	07:24	08:08	08:49	12:41	16:33	17:14	17:58	18:40				
28-12-2023	06:24:48	17:35	01:35	10:33	99%	06:43	07:24	08:08	08:49	12:41	16:34	17:15	17:59	18:40				
29-12-2023	06:28:44	18:50	02:27	11:01	96%	06:43	07:24	08:08	08:49	12:42	16:35	17:16	18:00	18:41				
30-12-2023	06:32:41	20:06	03:15	11:21	91%	06:43	07:24	08:08	08:49	12:42	16:36	17:17	18:01	18:42				
31-12-2023	06:36:37	21:19	04:00	11:36	85%	06:43	07:24	08:08	08:49	12:43	16:37	17:18	18:02	18:43				