

**IN THE HIGH COURT OF SOUTH AFRICA  
GAUTENG DIVISION**

Case number: 101/ 2017

In the matter of:

**REOPENED INQUEST: LATE AHMED TIMOL**

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**AFFIDAVIT OF MUTONDI MUOFHE MULAUDZI**

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I, the undersigned

**MUTONDI MUOFHE MULAUDZI**

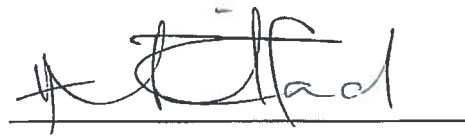
do hereby make oath and state that:

- 1 I am an adult female candidate attorney at the Legal Resources Centre (LRC). LRC and Webber Wentzel Attorneys act on behalf of the Timol family in the reopened inquest into the death of Ahmed Timol.
- 2 Unless the context indicates otherwise, the facts contained in this affidavit are within my personal knowledge and are, to the best of my belief, both true and correct.
- 3 On 26 July 2017, I travelled to the South African Weather Service in Pretoria. The purpose of my trip was to obtain the sunset time for Johannesburg on 27 October 1971. In this regard it was alleged by the police that no photographs of the scene of the fall could be taken following the fall as it was too dark.



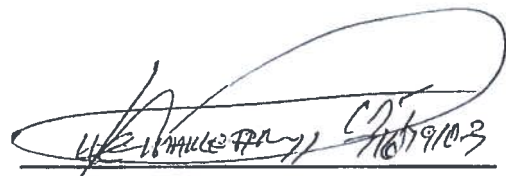
- 4 Upon my arrival, I met with Mthobisi Nxumalo ("**Mr Nxumalo**"), who is a senior scientist in the climate information department at the South African Weather Services. Mr Nxumalo was not able to provide me with the sunset time for 27 October 1971 since the South African Weather Services does not keep such old historic records.
- 5 Mr Nxumalo then referred me to Dr Michael Mengistu ("**Dr Mengistu**"), a senior scientist in the agro-meteorology department at the South African Weather Service, who provided me with the solar calculator spreadsheet from the United States Department of Commerce National Oceanic and Atmospheric Administration ("**NAOO**") ("**the spreadsheet**").
- 6 The NAOO solar calculator allows users to pinpoint their desired location on a map. According to Dr Mengistu, accurate longitude and latitude coordinates are then combined with the user's desired date and time to generate accurate estimates for sunrise, sunsets, solar noon and the position of the sun in the sky.
- 7 Mr Mengistu also provided me with a link to the sunrise and sunset calendar provided by the website, [sunrise-sunset.org](http://sunrise-sunset.org). According to the sunrise-sunset calendar, the sunset time for 27 October 2017 was 18:20:57.
- 8 This means there would have been approximately 2 hours and 25 minutes between the alleged time of Mr Timol's fall (between 15:50 and 16:00) and the time of sunset.

9 The sunrise and sunset calendar for October 1971 as downloaded from sunrise-sunset.org is annexed hereto marked "MMM1". This calendar reflects the sunset time as 6:21 pm. The NOAA Solar Calculations for 1971 reflecting the sunrise and sunset times for 27 October 2017 are annexed hereto marked "MMM2".



MUTONDI MUOFHE MULAUDZI

The Deponent has acknowledged that she knows and understands the contents of this affidavit, which was signed and affirmed before me at Rosebank on this the 09 day of AUGUST 2017, the regulations contained in Government Notice No R1258 of 21 July 1972, as amended, and Government Notice No R1648 of 19 August 1977, as amended, having been complied with.



COMMISSIONER OF OATHS

FULL NAMES: HASANI GNOS MANGANYI

DESIGNATION: CST

ADDRESS: 15 STURDGE AVENUE  
ROSEBANK SAPS



“MM1”

## Sunrise and sunset times calendar

Free sunrise and sunset calendar for any month and any location in the world. You can download it as a PDF and print it as a reference.

October 1971 - Johannesburg

Johannesburg						
SUN	MON	TUE	WED	THU	FRI	SAT
					Oct 1 5:47 am 6:07 pm	Oct 2 5:46 am 6:08 pm
Oct 3 5:45 am 6:08 pm	Oct 4 5:44 am 6:08 pm	Oct 5 5:43 am 6:09 pm	Oct 6 5:42 am 6:09 pm	Oct 7 5:41 am 6:10 pm	Oct 8 5:40 am 6:10 pm	Oct 9 5:38 am 6:11 pm
Oct 10 5:37 am 6:11 pm	Oct 11 5:36 am 6:12 pm	Oct 12 5:35 am 6:12 pm	Oct 13 5:34 am 6:13 pm	Oct 14 5:33 am 6:13 pm	Oct 15 5:32 am 6:14 pm	Oct 16 5:31 am 6:14 pm
Oct 17 5:31 am 6:15 pm	Oct 18 5:30 am 6:16 pm	Oct 19 5:29 am 6:16 pm	Oct 20 5:28 am 6:17 pm	Oct 21 5:27 am 6:17 pm	Oct 22 5:26 am 6:18 pm	Oct 23 5:25 am 6:18 pm
Oct 24 5:24 am 6:19 pm	Oct 25 5:23 am 6:20 pm	Oct 26 5:23 am 6:20 pm	Oct 27 5:22 am 6:21 pm	Oct 28 5:21 am 6:21 pm	Oct 29 5:20 am 6:22 pm	Oct 30 5:19 am 6:23 pm
Oct 31 5:19 am 6:23 pm						

You can see the sunrise and sunset calendar of any location of the world. If you don't see a location in our list of suggestions as you type in the location box, you can type the latitude and longitude instead.

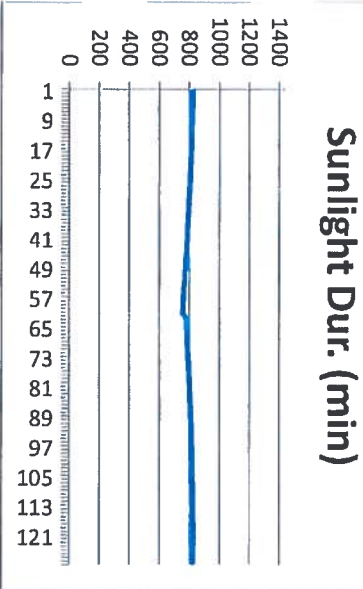
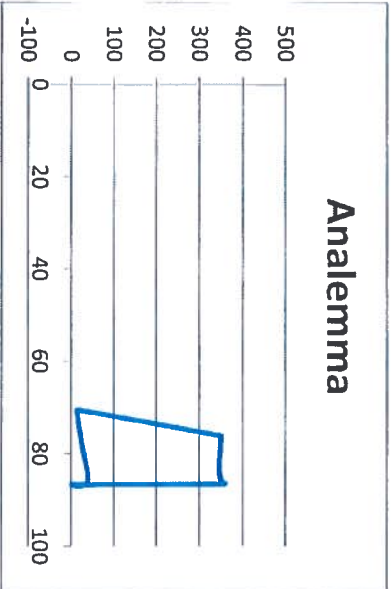
<https://sunrise-sunset.org/calendar?month=October&year=1971&lat=-26.2041028&lon=28.047305100000017&location=Johannesburg>

MM1  
H/E

MMMK

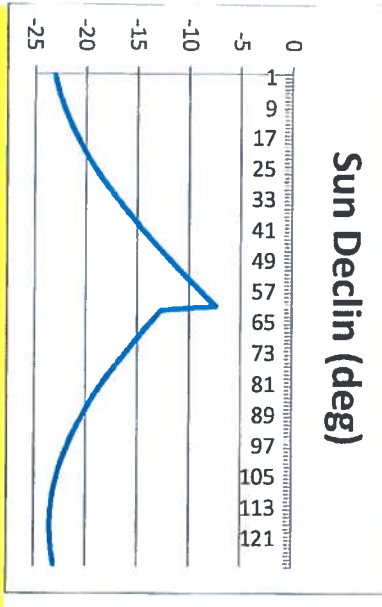
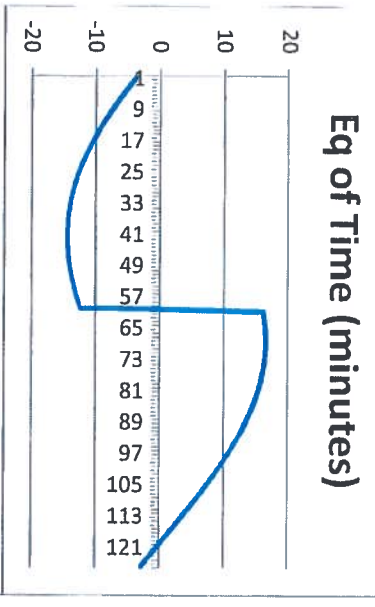
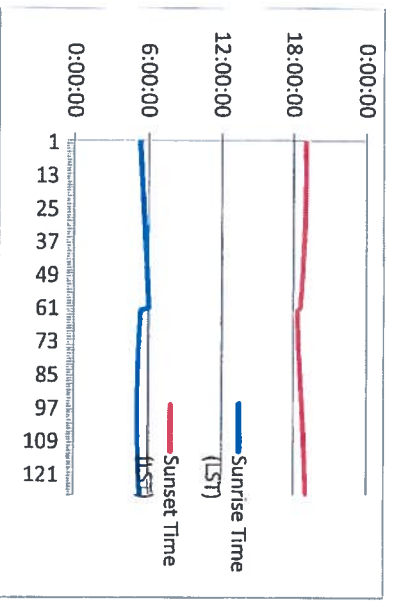
**NOAA Solar Calculations - Change any of the highlighted cells to get solar position data for that location and time-of-day for a year.**

Latitude (+ to N) -26,20676  
 Longitude (+ to E) 28,0311  
 Time Zone (+ to E) 2  
 Local Time (hrs) 12:00:00  
 Year 1971



Date	Time (hrs) past local midnight)	Julian Day	Julian Century	Geom Mean Long Sun (deg)	Geom Mean Anom Sun (deg)	Eccent Earth Orbit
1971/01/01	12:00:00	2440952,92	-0,28999544	280,40751	-10082,03	0,016721
1971/01/02	12:00:00	2440953,92	-0,28996806	281,39316	-10081,05	0,016721
1971/01/03	12:00:00	2440954,92	-0,28994068	282,3788	-10080,06	0,016721
1971/01/04	12:00:00	2440955,92	-0,28991330	283,36445	-10079,07	0,016721
1971/01/05	12:00:00	2440956,92	-0,28988592	284,3501	-10078,09	0,016721
1971/01/06	12:00:00	2440957,92	-0,28985854	285,33575	-10077,1	0,016721
1971/01/07	12:00:00	2440958,92	-0,28983117	286,32139	-10076,12	0,016721
1971/01/08	12:00:00	2440959,92	-0,28980379	287,30704	-10075,13	0,016721
1971/01/09	12:00:00	2440960,92	-0,28977641	288,29269	-10074,15	0,016721
1971/01/10	12:00:00	2440961,92	-0,28974903	289,27834	-10073,16	0,016721
1971/01/11	12:00:00	2440962,92	-0,28972165	290,26398	-10072,18	0,016721
1971/01/12	12:00:00	2440963,92	-0,28969427	291,24963	-10071,19	0,016721
1971/01/13	12:00:00	2440964,92	-0,28966689	292,23528	-10070,2	0,016721
1971/01/14	12:00:00	2440965,92	-0,28963952	293,22092	-10069,22	0,016721
1971/01/15	12:00:00	2440966,92	-0,28961214	294,20657	-10068,23	0,016721
1971/01/16	12:00:00	2440967,92	-0,28958476	295,19222	-10067,25	0,016721
1971/01/17	12:00:00	2440968,92	-0,28955738	296,17787	-10066,26	0,016721
1971/01/18	12:00:00	2440969,92	-0,28953000	297,16351	-10065,28	0,016721
1971/01/19	12:00:00	2440970,92	-0,28950262	298,14916	-10064,29	0,016721
1971/01/20	12:00:00	2440971,92	-0,28947525	299,13481	-10063,3	0,016721
1971/01/21	12:00:00	2440972,92	-0,28944787	300,12046	-10062,32	0,016721
1971/01/22	12:00:00	2440973,92	-0,28942049	301,1061	-10061,33	0,016721
1971/01/23	12:00:00	2440974,92	-0,28939311	302,09175	-10060,35	0,016721
1971/01/24	12:00:00	2440975,92	-0,28936573	303,0774	-10059,36	0,016721
1971/01/25	12:00:00	2440976,92	-0,28933835	304,06305	-10058,38	0,016721
1971/01/26	12:00:00	2440977,92	-0,28931097	305,04869	-10057,39	0,016721
1971/01/27	12:00:00	2440978,92	-0,28928360	306,03434	-10056,41	0,016721
1971/01/28	12:00:00	2440979,92	-0,28925622	307,01999	-10055,42	0,016721

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1971/01/29	12:00:00	2440980,92	-0,28922884	308,00564	-10054,43	0,016721
1971/01/30	12:00:00	2440981,92	-0,28920146	308,99128	-10053,45	0,016721
1971/01/31	12:00:00	2440982,92	-0,28917408	309,97693	-10052,46	0,016721
1971/02/01	12:00:00	2440983,92	-0,28914670	310,96258	-10051,48	0,016721
1971/02/02	12:00:00	2440984,92	-0,28911932	311,94822	-10050,49	0,016721
1971/02/03	12:00:00	2440985,92	-0,28909195	312,93387	-10049,51	0,016721
1971/02/04	12:00:00	2440986,92	-0,28906457	313,91952	-10048,52	0,016721
1971/02/05	12:00:00	2440987,92	-0,28903719	314,90517	-10047,54	0,016721
1971/02/06	12:00:00	2440988,92	-0,28900981	315,89081	-10046,55	0,016721
1971/02/07	12:00:00	2440989,92	-0,28898243	316,87646	-10045,56	0,016721
1971/02/08	12:00:00	2440990,92	-0,28895505	317,86211	-10044,58	0,016721
1971/02/09	12:00:00	2440991,92	-0,28892768	318,84776	-10043,59	0,016721
1971/02/10	12:00:00	2440992,92	-0,28890030	319,8334	-10042,61	0,016721
1971/02/11	12:00:00	2440993,92	-0,28887292	320,81905	-10041,62	0,016721
1971/02/12	12:00:00	2440994,92	-0,28884554	321,8047	-10040,64	0,016721
1971/02/13	12:00:00	2440995,92	-0,28881816	322,79035	-10039,65	0,016721
1971/02/14	12:00:00	2440996,92	-0,28879078	323,77599	-10038,66	0,016721
1971/02/15	12:00:00	2440997,92	-0,28876340	324,76164	-10037,68	0,016721
1971/02/16	12:00:00	2440998,92	-0,28873603	325,74729	-10036,69	0,016721
1971/02/17	12:00:00	2440999,92	-0,28870865	326,73294	-10035,71	0,016721
1971/02/18	12:00:00	2441000,92	-0,28868127	327,71858	-10034,72	0,016721
1971/02/19	12:00:00	2441001,92	-0,28865389	328,70423	-10033,74	0,016721
1971/02/20	12:00:00	2441002,92	-0,28862651	329,68988	-10032,75	0,016721
1971/02/21	12:00:00	2441003,92	-0,28859913	330,67552	-10031,77	0,016721
1971/02/22	12:00:00	2441004,92	-0,28857175	331,66117	-10030,78	0,016721
1971/02/23	12:00:00	2441005,92	-0,28854438	332,64682	-10029,79	0,016721
1971/02/24	12:00:00	2441006,92	-0,28851700	333,63247	-10028,81	0,016721
1971/02/25	12:00:00	2441007,92	-0,28848962	334,61811	-10027,82	0,016721
1971/02/26	12:00:00	2441008,92	-0,28846224	335,60376	-10026,84	0,016721
1971/02/27	12:00:00	2441009,92	-0,28843486	336,58941	-10025,85	0,016721
1971/02/28	12:00:00	2441010,92	-0,28840748	337,57506	-10024,87	0,016721
1971/03/01	12:00:00	2441011,92	-0,28838010	338,5607	-10023,88	0,016721
1971/03/02	12:00:00	2441012,92	-0,28835273	339,54635	-10022,9	0,016721
1971/10/27	12:00:00	2441251,92	-0,28180926	215,11607	-9787,337	0,01672

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Sun Eq of Ctr	Sun True			Sun Rad Vector (AUs)	Sun App			Mean			Sun Rt			Eq of Time (minutes)	HA Sunrise (deg)	Solar Noon (LST)
	Long (deg)	Anom (deg)	(deg)		Long (deg)	Ecliptic (deg)	Oblig (deg)	Oblig Corr (deg)	Ascen (deg)	Sun Declin (deg)	var y					
-0,06936	280,3381	-10082,1	0,983291	280,3351	23,44306	23,44518	-78,75757	-23,04264	0,043057	-3,3485084	103,1188	12:11:13				
-0,035711	281,3574	-10081,08	0,983283	281,3544	23,44306	23,44518	-77,6539	-22,95975	0,043057	-3,81961	103,06872	12:11:42				
-0,00205	282,3768	-10080,06	0,98328	282,3737	23,44306	23,44518	-76,55163	-22,86923	0,043057	-4,2852287	103,01412	12:12:10				
0,031611	283,3961	-10079,04	0,983282	283,3931	23,44306	23,44518	-75,45089	-22,77112	0,043057	-4,7448676	102,95505	12:12:37				
0,065263	284,4154	-10078,02	0,98329	284,4124	23,44306	23,44518	-74,3518	-22,66548	0,043057	-5,1980403	102,89155	12:13:04				
0,098893	285,4346	-10077	0,983302	285,4316	23,44306	23,44517	-73,25448	-22,55236	0,043057	-5,6442713	102,82369	12:13:31				
0,132493	286,4539	-10075,99	0,98332	286,4509	23,44306	23,44517	-72,15906	-22,43181	0,043057	-6,0830974	102,75151	12:13:58				
0,166051	287,4731	-10074,97	0,983343	287,4701	23,44306	23,44517	-71,06563	-22,30389	0,043057	-6,5140674	102,67509	12:14:23				
0,199556	288,4922	-10073,95	0,98337	288,4893	23,44306	23,44517	-69,97433	-22,16867	0,043057	-6,9367438	102,59449	12:14:49				
0,232999	289,5113	-10072,93	0,983403	289,5084	23,44306	23,44517	-68,88524	-22,0262	0,043057	-7,3507025	102,50977	12:15:14				
0,266368	290,5304	-10071,91	0,983441	290,5274	23,44306	23,44517	-67,79847	-21,87657	0,043057	-7,7555344	102,42101	12:15:38				
0,299653	291,5493	-10070,89	0,983484	291,5463	23,44306	23,44516	-66,71413	-21,71983	0,043057	-8,1508448	102,32828	12:16:02				
0,332844	292,5681	-10069,87	0,983532	292,5652	23,44306	23,44516	-65,6323	-21,55608	0,043057	-8,5362551	102,23165	12:16:25				
0,36593	293,5869	-10068,85	0,983585	293,5839	23,44306	23,44516	-64,55307	-21,38537	0,043057	-8,9114023	102,1312	12:16:47				
0,398901	294,6055	-10067,83	0,983644	294,6025	23,44306	23,44516	-63,47653	-21,2078	0,043057	-9,2759402	102,027	12:17:09				
0,431747	295,624	-10066,82	0,983707	295,621	23,44306	23,44516	-62,40275	-21,02345	0,043057	-9,6295392	101,91915	12:17:30				
0,464456	296,6423	-10065,8	0,983775	296,6394	23,44306	23,44516	-61,33182	-20,8324	0,043057	-9,9718872	101,80772	12:17:51				
0,49702	297,6605	-10064,78	0,983848	297,6576	23,44306	23,44515	-60,2638	-20,63475	0,043057	-10,30269	101,69278	12:18:11				
0,529427	298,6786	-10063,76	0,983926	298,6756	23,44306	23,44515	-59,19877	-20,43058	0,043057	-10,62167	101,57444	12:18:30				
0,561668	299,6965	-10062,74	0,984009	299,6935	23,44306	23,44515	-58,13677	-20,21998	0,043057	-10,928569	101,45276	12:18:48				
0,593732	300,7142	-10061,73	0,984096	300,7112	23,44306	23,44515	-57,07787	-20,00306	0,043057	-11,223146	101,32784	12:19:06				
0,62561	301,7317	-10060,71	0,984189	301,7288	23,44305	23,44515	-56,02213	-19,77991	0,043057	-11,505181	101,19977	12:19:23				
0,657291	302,749	-10059,69	0,984287	302,7461	23,44305	23,44515	-54,96958	-19,55062	0,043057	-11,77447	101,06862	12:19:39				
0,688766	303,7662	-10058,67	0,984389	303,7632	23,44305	23,44514	-53,92027	-19,3153	0,043057	-12,030829	100,93448	12:19:54				
0,720025	304,7831	-10057,66	0,984496	304,7801	23,44305	23,44514	-52,87423	-19,07406	0,043057	-12,274091	100,79745	12:20:09				
0,751058	305,7998	-10056,64	0,984607	305,7968	23,44305	23,44514	-51,83151	-18,82698	0,043057	-12,504111	100,65761	12:20:23				
0,781856	306,8162	-10055,62	0,984724	306,8133	23,44305	23,44514	-50,79212	-18,57419	0,043057	-12,720759	100,51503	12:20:36				
0,812408	307,8324	-10054,61	0,984845	307,8295	23,44305	23,44514	-49,7561	-18,31579	0,043057	-12,923928	100,36982	12:20:48				

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0,842706	308,8483	-10053,59	0,984971	308,8454	23,44305	23,44514	-48,72345	-18,05188	0,043057	-13,113526	100,22205	12:20:59
0,872724	309,864	-10052,58	0,985101	309,8611	23,44305	23,44513	-47,6942	-17,78257	0,043057	-13,28948	100,0718	12:21:10
0,902501	310,8794	-10051,56	0,985236	310,8765	23,44305	23,44513	-46,66835	-17,50798	0,043057	-13,451737	99,919167	12:21:20
0,931198	311,8946	-10050,55	0,985375	311,8917	23,44305	23,44513	-45,64592	-17,22821	0,043057	-13,600261	99,764227	12:21:29
0,961167	312,9094	-10049,53	0,985518	312,9065	23,44305	23,44513	-44,62689	-16,94338	0,043057	-13,735035	99,607062	12:21:37
0,990054	313,9239	-10048,52	0,985667	313,921	23,44305	23,44513	-43,61128	-16,6536	0,043057	-13,856056	99,447752	12:21:44
1,018632	314,9382	-10047,5	0,985819	314,9353	23,44305	23,44512	-42,59907	-16,35899	0,043057	-13,963343	99,286377	12:21:50
1,046892	315,9521	-10046,49	0,985976	315,9492	23,44305	23,44512	-41,59025	-16,05965	0,043057	-14,056929	99,123016	12:21:56
1,074825	316,9656	-10045,47	0,986137	316,9628	23,44305	23,44512	-40,5848	-15,7557	0,043057	-14,136865	98,957744	12:22:01
1,102423	317,9789	-10044,46	0,986302	317,976	23,44305	23,44512	-39,58272	-15,44725	0,043057	-14,203217	98,790639	12:22:05
1,129678	318,9918	-10043,45	0,986471	318,9889	23,44305	23,44512	-38,58397	-15,13443	0,043057	-14,256068	98,621773	12:22:08
1,156581	320,0043	-10042,44	0,986644	320,0015	23,44305	23,44512	-37,58853	-14,81734	0,043057	-14,295516	98,451122	12:22:10
1,183124	321,0165	-10041,42	0,986822	321,0137	23,44305	23,44511	-36,59638	-14,49611	0,043057	-14,321675	98,279051	12:22:12
1,209299	322,0284	-10040,41	0,987003	322,0255	23,44305	23,44511	-35,60747	-14,17084	0,043057	-14,334671	98,105336	12:22:13
1,235099	323,0398	-10039,4	0,987188	323,0369	23,44305	23,44511	-34,62178	-13,84166	0,043057	-14,334648	97,930143	12:22:13
1,260515	324,0509	-10038,39	0,987377	324,048	23,44305	23,44511	-33,63927	-13,50867	0,043057	-14,32176	97,753539	12:22:12
1,28554	325,0615	-10037,38	0,98757	325,0587	23,44305	23,44511	-32,65988	-13,172	0,043056	-14,296177	97,57559	12:22:10
1,310166	326,0718	-10036,37	0,987767	326,069	23,44305	23,44511	-31,68359	-12,83176	0,043056	-14,258079	97,396358	12:22:08
1,334387	327,0817	-10035,36	0,987967	327,0788	23,44305	23,4451	-30,71034	-12,48807	0,043056	-14,20766	97,215907	12:22:05
1,358194	328,0911	-10034,35	0,988171	328,0883	23,44305	23,4451	-29,74008	-12,14104	0,043056	-14,145126	97,034296	12:22:01
1,381581	329,1002	-10033,34	0,988379	329,0973	23,44305	23,4451	-28,77276	-11,79079	0,043056	-14,070693	96,851586	12:21:57
1,404541	330,1088	-10032,33	0,98859	330,1059	23,44304	23,4451	-26,84672	-11,08107	0,043056	-13,984588	96,667832	12:21:52
1,427067	331,1169	-10031,32	0,988804	331,1141	23,44304	23,4451	-27,80833	-11,43743	0,043056	-13,887048	96,483092	12:21:46
1,449153	332,1247	-10030,32	0,989022	332,1218	23,44304	23,44509	-24,93175	-10,35984	0,043056	-13,778321	96,29742	12:21:39
1,470792	333,132	-10029,31	0,989243	333,1291	23,44304	23,44509	-25,88788	-10,72184	0,043056	-13,658661	96,110869	12:21:32
1,491978	334,1388	-10028,3	0,989467	334,136	23,44304	23,44509	-23,97826	-9,995194	0,043056	-13,528333	95,923491	12:21:24
1,512705	335,1452	-10027,3	0,989694	335,1424	23,44304	23,44509	-23,02735	-9,628008	0,043056	-13,387611	95,735336	12:21:16
1,532966	336,1511	-10026,29	0,989925	336,1483	23,44304	23,44509	-22,07895	-9,258396	0,043056	-13,236774	95,546452	12:21:07
1,552756	337,1565	-10025,28	0,990158	337,1537	23,44304	23,44509	-21,13299	-8,886471	0,043056	-13,076109	95,356887	12:20:57
1,57207	338,1615	-10024,28	0,990394	338,1587	23,44304	23,44508	-20,18941	-8,512346	0,043056	-12,90591	95,166688	12:20:47
1,590901	339,166	-10023,28	0,990633	339,1632	23,44304	23,44508	-19,24812	-8,136132	0,043056	-12,726478	94,975899	12:20:36
1,609244	340,1699	-10022,27	0,990875	340,1671	23,44304	23,44508	-18,30906	-7,75794	0,043056	-12,538117	94,784564	12:20:25
1,627095	341,1734	-10021,27	0,99112	341,1706	23,44304	23,44508	-17,37215	-7,377879	0,043056	-12,341138	94,592726	12:20:13
-1,782148	213,3339	-9789,119	0,993799	213,3319	23,44296	23,4446	-148,8941	-12,62802	0,043055	16,073998	97,289313	11:51:48

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Sunrise Time (LST)	Sunset Time (LST)	Sunlight Duration (minutes)	True Solar Time (min)	Hour Angle (deg)	Solar Zenith Angle (deg)	Solar Elevation Angle (deg)	Approx Atmospheric refraction (deg)	Solar Elevation corrected for atm refraction (deg)	Solar Azimuth Angle (deg) cw from N
5:18:45	19:03:42	824,95038	708,7759	-2,806027	4,063925	85,93608	0	85,936075	39,46902
5:19:25	19:03:58	824,54978	708,3048	-2,923802	4,196292	85,80371	0	85,8037081	39,93036
5:20:06	19:04:13	824,11299	707,8392	-3,040207	4,334056	85,66594	0	85,6659439	40,28898
5:20:48	19:04:26	823,6404	707,3795	-3,155117	4,477001	85,523	0	85,5229989	40,55242
5:21:30	19:04:38	823,13242	706,9264	-3,26841	4,624942	85,37506	0	85,3750579	40,72803
5:22:14	19:04:49	822,58951	706,4801	-3,379968	4,777723	85,22228	0	85,2222767	40,82229
5:22:57	19:04:58	822,01212	706,0413	-3,489674	4,935214	85,06479	0	85,0647862	40,84374
5:23:41	19:05:05	821,40076	705,6103	-3,597417	5,097305	84,9027	0,00144	84,9041346	40,79693
5:24:26	19:05:11	820,75593	705,1877	-3,703086	5,263908	84,73609	0,001487	84,7375792	40,68846
5:25:11	19:05:16	820,0782	704,7737	-3,806576	5,434949	84,56505	0,001535	84,5665864	40,52391
5:25:57	19:05:19	819,3681	704,3689	-3,907784	5,610371	84,38963	0,001585	84,3912148	40,3085
5:26:43	19:05:20	818,62624	703,9736	-4,006611	5,790125	84,20987	0,001636	84,2115114	40,04709
5:27:29	19:05:20	817,85319	703,5881	-4,102964	5,974176	84,02582	0,001689	84,0275131	39,74416
5:28:16	19:05:19	817,04958	703,213	-4,196751	6,162494	83,83751	0,001743	83,8392488	39,40387
5:29:03	19:05:16	816,21604	702,8485	-4,287885	6,355056	83,64494	0,001797	83,6467411	39,03005
5:29:50	19:05:11	815,3532	702,4949	-4,376285	6,551846	83,44815	0,001854	83,4500073	38,62625
5:30:37	19:05:05	814,46172	702,1525	-4,461872	6,75285	83,24715	0,001911	83,2490608	38,19571
5:31:24	19:04:57	813,54226	701,8217	-4,544572	6,958057	83,04194	0,00197	83,0439122	37,74146
5:32:12	19:04:48	812,5955	701,5027	-4,624317	7,167459	82,83254	0,002029	82,8345702	37,26623
5:33:00	19:04:37	811,6221	701,1958	-4,701042	7,381048	82,61895	0,002091	82,6210424	36,77257
5:33:47	19:04:25	810,62275	700,9013	-4,774687	7,598817	82,40118	0,002153	82,4033358	36,26281
5:34:35	19:04:11	809,59814	700,6192	-4,845195	7,820759	82,17924	0,002217	82,1814578	35,73908
5:35:23	19:03:55	808,54895	700,3499	-4,912518	8,046865	81,95313	0,002282	81,9554161	35,20335
5:36:10	19:03:39	807,47588	700,0936	-4,976607	8,277128	81,72287	0,002348	81,7252197	34,6574
5:36:58	19:03:20	806,37962	699,8503	-5,037423	8,511536	81,48846	0,002415	81,4908789	34,10289
5:37:45	19:03:01	805,26085	699,6203	-5,094928	8,750078	81,24992	0,002484	81,2524056	33,54133
5:38:32	19:02:39	804,12026	699,4036	-5,14909	8,99274	81,00726	0,002554	81,0098137	32,97409
5:39:19	19:02:17	802,95854	699,2005	-5,199882	9,239506	80,76049	0,002625	80,7631194	32,40244

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5:40:06	19:01:53	801,77636	699,0109	-5,247281	9,490357	80,50964	0,002698	80,5123408	31,82753
5:40:53	19:01:27	800,57441	698,8349	-5,29127	9,745273	80,25473	0,002772	80,2574988	31,25042
5:41:39	19:01:00	799,35334	698,6727	-5,331834	10,00423	79,99577	0,002847	79,9986164	30,67206
5:42:25	19:00:32	798,11382	698,5241	-5,368965	10,2672	79,7328	0,002923	79,7357195	30,09334
5:43:11	19:00:02	796,85649	698,3894	-5,402659	10,53416	79,46584	0,003001	79,4688364	29,51505
5:43:56	18:59:31	795,58202	698,2683	-5,432914	10,80508	79,19492	0,00308	79,197998	28,93793
5:44:42	18:58:59	794,29102	698,1611	-5,459736	11,07992	78,92008	0,00316	78,9232382	28,36264
5:45:26	18:58:25	792,98413	698,0675	-5,483132	11,35865	78,64135	0,003242	78,644593	27,78978
5:46:11	18:57:51	791,66195	697,9875	-5,503116	11,64122	78,35878	0,003325	78,3621014	27,2199
5:46:55	18:57:14	790,32511	697,9212	-5,519704	11,9276	78,0724	0,003409	78,075805	26,6535
5:47:39	18:56:37	788,97418	697,8683	-5,532917	12,21775	77,78225	0,003494	77,7857479	26,09102
5:48:22	18:55:59	787,60976	697,8289	-5,542779	12,5116	77,4884	0,003581	77,4919768	25,53288
5:49:05	18:55:19	786,23241	697,8027	-5,549319	12,80913	77,19087	0,003669	77,1945407	24,97943
5:49:47	18:54:38	784,84269	697,7897	-5,552568	13,11027	76,88973	0,003758	76,8934915	24,43103
5:50:29	18:53:56	783,44114	697,7898	-5,552562	13,41497	76,58503	0,003849	76,588883	23,88795
5:51:11	18:53:13	782,02831	697,8026	-5,54934	13,72317	76,27683	0,003941	76,2807718	23,35048
5:51:52	18:52:28	780,60472	697,8282	-5,542944	14,03482	75,96518	0,004034	75,9692167	22,81884
5:52:33	18:51:43	779,17087	697,8663	-5,53342	14,34985	75,65015	0,004128	75,6542785	22,29327
5:53:13	18:50:57	777,72726	697,9167	-5,520815	14,6682	75,3318	0,004224	75,3360205	21,77393
5:53:53	18:50:09	776,27437	697,9793	-5,505182	14,98981	75,01019	0,004321	75,0145082	21,26101
5:54:32	18:49:21	774,81269	698,0537	-5,486573	15,31461	74,68539	0,004419	74,6898088	20,75466
5:55:11	18:48:32	773,34266	698,1398	-5,465047	15,64253	74,35747	0,004519	74,361992	20,255
5:55:50	18:47:42	771,86474	698,2374	-5,440662	15,97349	74,02651	0,004619	74,0311292	19,76216
5:56:28	18:46:51	770,37936	698,3461	-5,41348	16,30743	73,69257	0,004721	73,6972938	19,27622
5:57:05	18:45:59	768,88696	698,4657	-5,383565	16,64426	73,35574	0,004824	73,3605609	18,79727
5:57:43	18:45:06	767,38793	698,5961	-5,350983	16,98392	73,01608	0,004929	73,0210077	18,3254
5:58:19	18:44:12	765,88269	698,7368	-5,315803	17,32632	72,67368	0,005034	72,6787129	17,86064
5:58:56	18:43:18	764,37162	698,8876	-5,278093	17,67138	72,32862	0,005141	72,333757	17,40307
5:59:31	18:42:23	762,8551	699,0483	-5,237927	18,01903	71,98097	0,005249	71,986222	16,95271
6:00:07	18:41:27	761,33351	699,2185	-5,195378	18,36917	71,63083	0,005358	71,6361916	16,50959
6:00:42	18:40:30	759,80719	699,3979	-5,150519	18,72172	71,27828	0,005469	71,283751	16,07374
6:01:17	18:39:33	758,27651	699,5863	-5,103429	19,07659	70,92341	0,00558	70,9289868	15,64518
6:01:51	18:38:35	756,7418	699,7833	-5,054185	19,43371	70,56629	0,005693	70,5719869	15,2239
5:22:39	18:20:58	778,31451	728,1984	2,049599	13,71476	76,28524	0,003938	76,2891782	351,5353

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