

TABLE 5

**LOCAL CIRCUMSTANCES ON THE CENTRAL LINE
TOTAL SOLAR ECLIPSE OF 2009 JULY 22**

$\Delta T = 65.9 \text{ s}$

Central Line Maximum Eclipse			First Contact				Second Contact			Third Contact			Fourth Contact			
U.T.	Durat.	Alt	U.T.	P	V	Alt	U.T.	P	V	U.T.	P	V	U.T.	P	V	Alt
00:55	03m38.4s	12	23:59:47	279	343	0	00:53:11	100	168	00:56:50	280	348	01:56:17	101	173	25
01:00	04m06.1s	21	00:00:49	280	345	9	00:57:57	101	169	01:02:03	281	349	02:06:15	102	173	36
01:05	04m26.3s	28	00:02:52	281	346	15	01:02:47	102	170	01:07:14	282	350	02:14:46	104	173	43
01:10	04m43.5s	34	00:05:19	282	347	20	01:07:39	103	171	01:12:22	283	351	02:22:38	105	173	49
01:15	04m58.7s	38	00:08:01	283	348	24	01:12:31	104	172	01:17:30	285	352	02:30:04	107	173	54
01:20	05m12.4s	43	00:10:54	284	349	28	01:17:24	105	172	01:22:37	286	352	02:37:09	108	172	59
01:25	05m24.9s	46	00:13:55	285	350	31	01:22:18	106	173	01:27:43	287	353	02:43:57	109	171	63
01:30	05m36.4s	50	00:17:04	285	352	35	01:27:12	108	174	01:32:49	288	354	02:50:29	110	169	67
01:35	05m46.8s	54	00:20:19	286	353	38	01:32:07	109	174	01:37:54	289	354	02:56:46	111	166	70
01:40	05m56.2s	57	00:23:40	287	354	41	01:37:02	110	175	01:42:59	290	354	03:02:50	112	161	74
01:45	06m04.6s	60	00:27:08	288	355	44	01:41:58	111	175	01:48:03	291	355	03:08:41	113	154	76
01:50	06m12.2s	63	00:30:41	289	357	46	01:46:54	112	175	01:53:06	292	355	03:14:21	114	144	79
01:55	06m18.8s	66	00:34:21	290	358	49	01:51:51	113	175	01:58:10	293	354	03:19:50	115	130	80
02:00	06m24.4s	69	00:38:07	291	359	52	01:56:48	113	175	02:03:12	294	354	03:25:09	116	112	81
02:05	06m29.2s	72	00:41:59	292	1	55	02:01:46	114	174	02:08:15	295	353	03:30:19	117	93	81
02:10	06m33.0s	75	00:45:58	293	2	57	02:06:44	115	173	02:13:17	296	351	03:35:20	118	78	80
02:15	06m35.9s	78	00:50:04	293	4	60	02:11:42	116	171	02:18:18	296	347	03:40:13	119	67	78
02:20	06m38.0s	80	00:54:17	294	6	63	02:16:41	117	167	02:23:19	297	341	03:44:59	119	59	76
02:25	06m39.1s	83	00:58:38	295	7	65	02:21:40	118	160	02:28:19	298	330	03:49:38	120	53	74
02:30	06m39.4s	85	01:03:06	296	9	68	02:26:40	119	145	02:33:20	299	309	03:54:10	120	49	72
02:35	06m38.9s	86	01:07:42	297	12	70	02:31:40	119	115	02:38:19	299	274	03:58:37	121	46	69
02:40	06m37.5s	85	01:12:26	298	14	73	02:36:41	120	75	02:43:18	300	244	04:02:59	121	43	67
02:45	06m35.4s	83	01:17:19	298	18	76	02:41:42	121	51	02:48:17	301	228	04:07:15	122	41	64
02:50	06m32.5s	81	01:22:20	299	22	79	02:46:43	121	40	02:53:16	301	219	04:11:27	122	40	62
02:55	06m28.8s	78	01:27:30	300	28	81	02:51:45	122	34	02:58:14	302	214	04:15:34	122	38	59
03:00	06m24.4s	76	01:32:48	301	39	84	02:56:47	122	30	03:03:12	302	211	04:19:37	123	37	57
03:05	06m19.3s	73	01:38:16	301	64	86	03:01:50	123	28	03:08:09	303	209	04:23:37	123	36	54
03:10	06m13.5s	70	01:43:52	302	113	87	03:06:53	123	26	03:13:06	303	207	04:27:32	123	35	52
03:15	06m07.0s	67	01:49:38	302	150	85	03:11:56	123	25	03:18:03	303	206	04:31:24	123	34	49
03:20	05m59.9s	64	01:55:32	303	166	82	03:16:59	123	24	03:22:59	303	205	04:35:13	123	33	46
03:25	05m52.1s	61	02:01:36	303	174	79	03:22:03	123	24	03:27:55	303	204	04:38:57	123	32	44
03:30	05m43.7s	58	02:07:48	303	179	76	03:27:08	124	23	03:32:51	304	204	04:42:38	123	31	41
03:35	05m34.6s	54	02:14:10	304	182	72	03:32:12	124	22	03:37:47	303	203	04:46:16	123	30	38
03:40	05m24.8s	51	02:20:41	304	184	68	03:37:17	123	22	03:42:42	303	202	04:49:49	123	29	34
03:45	05m14.2s	47	02:27:23	304	186	64	03:42:22	123	21	03:47:36	303	202	04:53:17	122	28	31
03:50	05m02.9s	43	02:34:15	304	187	60	03:47:28	123	20	03:52:31	303	201	04:56:40	122	27	28
03:55	04m50.5s	39	02:41:19	303	188	55	03:52:34	123	20	03:57:25	302	200	04:59:56	121	26	24
04:00	04m37.0s	34	02:48:38	303	189	50	03:57:41	122	19	04:02:18	302	199	05:03:04	121	25	20
04:05	04m21.7s	29	02:56:16	302	190	44	04:02:49	121	18	04:07:10	301	198	05:06:00	120	23	15
04:10	04m03.9s	22	03:04:24	302	190	37	04:07:58	120	17	04:12:01	300	197	05:08:35	119	21	9
04:15	03m40.1s	13	03:13:36	300	190	27	04:13:10	119	15	04:16:50	299	195	05:10:24	118	19	1