

**TABLE 3.5**

**LOCAL CIRCUMSTANCES ON THE CENTRAL LINE  
TOTAL SOLAR ECLIPSE OF 2010 JULY 11**

$\Delta T = 66.2 \text{ s}$

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
18:20	03m15.1s	12	-	-	-	-	18:18:23	97	217	18:21:38	277	37	19:34:32	98	229	26
18:25	03m37.8s	19	17:15:54	276	30	5	18:23:12	98	220	18:26:49	278	40	19:44:45	100	235	34
18:30	03m55.0s	24	17:17:46	277	32	10	18:28:03	99	223	18:31:58	279	43	19:53:30	101	242	39
18:35	04m09.5s	28	17:20:04	278	34	14	18:32:56	100	226	18:37:05	280	47	20:01:26	103	248	42
18:40	04m22.1s	32	17:22:39	279	36	17	18:37:49	101	230	18:42:12	281	50	20:08:48	104	254	45
18:45	04m33.3s	35	17:25:26	279	38	20	18:42:44	102	233	18:47:17	282	54	20:15:42	105	261	47
18:50	04m43.1s	37	17:28:25	280	40	22	18:47:39	103	237	18:52:22	283	58	20:22:11	106	267	49
18:55	04m51.7s	39	17:31:33	281	43	24	18:52:35	104	241	18:57:26	284	62	20:28:18	108	273	50
19:00	04m59.1s	41	17:34:51	282	45	27	18:57:31	105	245	19:02:30	285	67	20:34:06	109	279	50
19:05	05m05.4s	43	17:38:18	282	48	29	19:02:28	106	249	19:07:33	286	71	20:39:36	110	285	51
19:10	05m10.5s	44	17:41:54	283	51	30	19:07:25	107	254	19:12:36	287	76	20:44:51	111	291	50
19:15	05m14.6s	45	17:45:40	284	54	32	19:12:23	108	258	19:17:38	288	80	20:49:51	111	296	50
19:20	05m17.5s	46	17:49:35	285	57	34	19:17:22	109	263	19:22:39	289	85	20:54:37	112	301	49
19:25	05m19.4s	47	17:53:40	286	61	35	19:22:21	109	268	19:27:40	290	90	20:59:12	113	306	48
19:30	05m20.3s	47	17:57:56	287	65	36	19:27:20	110	273	19:32:40	291	95	21:03:36	114	310	47
19:35	05m20.0s	47	18:02:24	288	68	38	19:32:20	111	278	19:37:40	291	100	21:07:50	114	314	46
19:40	05m18.8s	47	18:07:02	288	72	39	19:37:21	112	282	19:42:39	292	104	21:11:55	115	317	44
19:45	05m16.5s	46	18:11:53	289	76	39	19:42:22	113	287	19:47:38	293	109	21:15:52	115	320	43
19:50	05m13.3s	46	18:16:56	290	81	40	19:47:23	113	292	19:52:37	293	114	21:19:41	116	323	41
19:55	05m09.1s	45	18:22:13	291	85	40	19:52:25	114	296	19:57:34	294	118	21:23:22	116	325	39
20:00	05m03.9s	43	18:27:44	292	90	41	19:57:28	114	300	20:02:32	294	122	21:26:57	116	327	37
20:05	04m57.8s	42	18:33:28	292	95	41	20:02:31	115	304	20:07:29	295	126	21:30:25	116	329	35
20:10	04m50.7s	40	18:39:28	293	100	40	20:07:34	115	308	20:12:25	295	129	21:33:46	116	331	32
20:15	04m42.7s	38	18:45:44	293	105	39	20:12:38	115	311	20:17:21	295	133	21:37:00	116	332	30
20:20	04m33.7s	36	18:52:16	294	110	38	20:17:43	116	314	20:22:17	296	136	21:40:07	116	333	27
20:25	04m23.6s	33	18:59:06	294	115	37	20:22:48	116	317	20:27:12	296	138	21:43:05	116	334	24
20:30	04m12.3s	30	19:06:17	295	119	35	20:27:54	116	320	20:32:06	296	141	21:45:54	116	335	20
20:35	03m59.4s	26	19:13:52	295	124	32	20:33:00	115	322	20:36:59	295	143	21:48:29	116	335	16
20:40	03m44.4s	21	19:21:59	295	129	28	20:38:08	115	324	20:41:52	295	145	21:50:45	115	335	12
20:45	03m25.7s	15	19:31:00	294	133	22	20:43:17	114	325	20:46:43	294	146	21:52:24	114	334	6
20:50	02m47.2s	1	19:44:30	292	138	8	20:48:36	112	325	20:51:23	292	146	-	-	-	-
20:50	02m45.5s	1	19:44:55	292	138	8	20:48:38	112	325	20:51:23	292	145	-	-	-	-