TABLE 12
LOCAL CIRCUMSTANCES FOR ASIA
TOTAL SOLAR ECLIPSE OF 2009 JULY 22

Location Name	Latitude	Longitude	Elev.	First Contact				Second Contact				Third Contact				Fourth Contact				Maximum Eclipse					Eclip.	Eclip.	Umbral	Umbral
				U.T.	P	V	Alt	U.T.	P	V		U.T.	P	V		U.T.	P	V	Alt	U.T.	P	V	Alt	Azm	Mag.	Obs.	Depth	Durat.
			m	h m s	°	°	°	h m s	°	°		h m s	°	°		h m s	°	°	°	h m s	°	°	°	°				
AFGHANISTAN																												
Kabul	34°31'N	069°12'E	1815	—				—				—				01:51:05.1	125	184	16	01:00:37.7	190	245	6	69	0.599	0.512		
AZERBAIJAN																												
Baku	40°23'N	049°51'E	—	—				—				—				01:43:02.9	149	197	2	01:31 Rise	—	—	0	62	0.145	0.066		
BANGLADESH																												
Chittagong	22°20'N	091°50'E	—	23:59:15.3	289	358	8	—				—				02:04:38.8	93	170	36	00:58:13.5	11	84	21	76	0.873	0.855		
Dacca	23°43'N	090°25'E	—	23:59:19.1	286	353	7	—				—				02:03:51.1	96	171	34	00:57:58.5	11	82	20	76	0.930	0.927		
Dinajpur	25°38'N	088°38'E	—	23:59:54.0	281	346	6	00:56:42.0	151	219		00:59:15.7	231	300		02:02:55.1	100	173	33	00:57:58.5	11	80	19	76	1.067	1.000	0.236	02m34s
Khulna	22°48'N	089°33'E	—	23:58:58.8	287	355	6	—				—				02:02:21.9	95	170	33	00:57:06.1	11	83	19	75	0.909	0.899		
Rajshahi	24°22'N	088°36'E	—	23:59:22.1	284	350	6	—				—				02:02:14.9	98	172	33	00:57:20.0	11	81	18	75	0.968	0.971		
Rangpur	25°45'N	089°15'E	—	23:59:59.0	282	347	7	00:57:11.3	156	225		00:59:29.6	226	295		02:03:37.8	100	173	34	00:58:20.2	11	80	19	76	1.067	1.000	0.182	02m18s
Saidpur	25°47'N	088°54'E	—	23:59:58.9	281	346	6	00:56:45.0	145	213		00:59:37.4	237	306		02:03:16.3	101	173	33	00:58:10.8	11	80	19	76	1.067	1.000	0.307	02m52s
BHUTAN																												
Thimbu	27°28'N	089°39'E	—	00:00:55.2	279	343	8	00:58:01.6	56	124		01:00:53.7	326	33		02:04:49.5	104	174	35	00:59:27.3	191	258	20	77	1.068	1.000	0.297	02m52s
IRAN																												
Esfahan	32°40'N	051°38'E	1597	—				—				—				01:46:33.2	133	188	1	01:42 Rise	—	—	0	65	0.071	0.023		
Mashhad	36°18'N	059°36'E	—	—				—				—				01:47:20.1	134	188	8	01:03:55.9	190	241	0	64	0.452	0.345		
Tehran	35°40'N	051°26'E	1200	—				—				—				01:45:38.1	139	191	2	01:36 Rise	—	—	0	64	0.139	0.062		
KAZAKHSTAN																												
Alma-Ata	43°15'N	076°57'E	775	00:23:27.6	245	292	8	—				—				01:54:54.7	138	189	24	01:07:47.4	191	241	15	76	0.426	0.318		
Karaganda	49°50'N	073°10'E	—	00:40:19.6	230	271	10	—				—				01:49:00.7	154	197	21	01:14:00.8	192	234	15	77	0.221	0.123		
KOREA, NORTH																												
P'yongyang	39°01'N	125°45'E	29	00:34:41.4	272	327	46	—				—				03:01:39.6	129	153	69	01:46:14.8	201	248	59	118	0.742	0.689		
KOREA, SOUTH																												
Inch'on	37°28'N	126°38'E	—	00:34:22.9	275	332	46	—				—				03:05:21.6	127	149	71	01:47:54.1	201	250	60	117	0.790	0.750		
Pusan	35°06'N	129°03'E	2	00:36:12.1	280	339	49	—				—				03:13:06.0	125	138	75	01:52:50.8	202	253	64	118	0.856	0.835		
Seoul	37°33'N	126°58'E	10	00:34:55.6	275	331	47	—				—				03:05:50.4	128	148	71	01:48:27.8	201	250	61	118	0.785	0.745		
KYRGYZSTAN																												
Bishkek	42°54'N	074°36'E	—	00:23:54.1	244	291	6	—				—				01:53:21.5	138	189	22	01:07:18.1	191	240	14	75	0.417	0.307		
LAOS																												
Vientiane	17°58'N	102°36'E	170	00:05:13.2	303	20	17	—				—				02:17:12.5	83	168	48	01:06:57.7	13	94	31	77	0.647	0.571		
MONGOLIA																												
Ulaanbaatar	47°55'N	106°53'E	1307	00:32:47.0	251	297	31	—				—				02:23:15.3	141	181	48	01:26:24.0	196	240	39	104	0.458	0.352		
NEPAL																												
Kathmandu	27°43'N	085°19'E	1348	00:01:10.9	276	338	4	—				—				02:00:31.5	105	175	30	00:57:43.9	191	257	16	75	0.962	0.965		
PAKISTAN																												
Faisalabad	31°25'N	073°05'E	—	—				—				—				01:52:49.0	118	180	18	00:58:15.8	190	249	7	71	0.728	0.670		
Karachi	24°52'N	067°03'E	4	—				—				—				01:49:10.1	109	177	11	00:56 Rise	—	—	0	67	0.854	0.829		
Lahore	31°35'N	074°18'E	—	—				—				—				01:53:30.8	117	180	20	00:58:21.4	190	249	8	71	0.736	0.680		
SRI LANKA																												
Colombo	06°56'N	079°51'E	7	—				—				—				01:42:12.3	69	157	15	00:50:32.7	9	93	3	70	0.503	0.401		
TAJIKISTAN																												
Dusanbe	38°35'N	068°48'E	—	00:19:41.3	248	296	0	—				—				01:50:41.2	133	187	16	01:03:45.4	190	242	7	70	0.482	0.378		
TURKMENISTAN																												
Aschabad	37°57'N	058°23'E	—	—				—				—				01:46:34.1	138	191	7	01:05:27.9	190	239	0	64	0.396	0.286		
UZBEKISTAN																												
Taskent	41°20'N	069°18'E	—	00:23:59.8	244	290	2	—				—				01:50:27.3	138	190	17	01:05:59.3	191	240	9	71	0.412	0.303		