

TABLE 2.14
LOCAL CIRCUMSTANCES FOR SOUTHEAST ASIA
ANNULAR SOLAR ECLIPSE OF 2010 JANUARY 15

Location Name	Latitude	Longitude	Elev. m	First Contact			Second Contact			Third Contact			Fourth Contact			Maximum Eclipse				Eclip. Mag.	Eclip. Obs.	Umbral Depth	Umbral Durat.			
				U.T. h m s	P °	V Alt °	U.T. h m s	P °	V °	U.T. h m s	P °	V °	U.T. h m s	P °	V Alt °	U.T. h m s	P °	V Alt °	Azm °							
BRUNEI DARUSSALAM																										
Bandar Seri Beg*	04°56'N	114°55'E	3	07:45:20.8	286	219	35	—	—	—	—	09:33:42.6	11	291	11	08:42:35.2	329	254	23	245	0.235	0.129				
BURMA (MYANMAR)																										
Chauk	20°54'N	094°50'E	—	06:51:16.7	237	217	45	08:32:31.5	269	223	08:39:46.7	24	336	10:02:59.7	57	357	15	08:36:09.4	327	280	32	227	0.913	0.834	0.460	07m15s
Lashio	22°56'N	097°45'E	—	07:00:15.4	238	212	42	08:37:31.4	272	224	08:44:26.2	23	334	10:04:56.2	57	357	12	08:40:59.0	327	279	27	229	0.912	0.832	0.434	06m55s
Magway	20°09'N	094°55'E	—	06:50:39.4	238	218	46	08:34:37.1	311	264	08:36:53.6	342	294	10:02:40.2	55	355	16	08:35:44.9	326	279	32	227	0.913	0.834	0.035	02m16s
Mandalay	22°00'N	096°05'E	77	06:55:30.1	237	215	44	08:34:38.4	263	217	08:42:17.2	31	343	10:03:59.3	57	357	14	08:38:28.2	327	280	30	227	0.913	0.833	0.560	07m39s
Maymyo	22°02'N	096°28'E	—	06:56:26.6	238	214	43	08:35:27.7	271	225	08:42:27.6	23	334	10:04:09.2	57	357	13	08:38:57.9	327	279	29	228	0.913	0.833	0.434	07m00s
Meiktila	20°52'N	095°52'E	—	06:53:48.7	239	216	45	08:36:11.6	309	261	08:38:48.2	345	296	10:03:25.3	56	355	14	08:37:29.5	327	279	31	228	0.913	0.834	0.048	02m37s
Monywa	22°05'N	095°08'E	—	06:53:19.2	236	215	44	08:33:00.2	239	194	08:41:34.8	54	8	10:03:36.0	58	359	14	08:37:18.1	327	281	30	226	0.913	0.834	0.961	08m35s
Myingyan	21°28'N	095°23'E	—	06:53:15.4	237	216	45	08:33:25.6	264	218	08:41:03.7	30	342	10:03:29.0	57	357	15	08:37:15.0	327	280	31	227	0.913	0.834	0.545	07m38s
Myitkyina	25°23'N	097°24'E	—	07:01:43.3	235	211	39	08:39:18.9	181	136	08:43:57.9	114	68	10:05:17.4	61	4	11	08:41:38.2	148	102	26	228	0.912	0.832	0.168	04m39s
Pakokku	21°20'N	095°05'E	—	06:52:22.6	237	216	45	08:32:50.8	261	215	08:40:41.1	32	345	10:03:17.7	57	357	15	08:36:46.4	327	280	31	227	0.913	0.834	0.590	07m50s
Shwebo	22°34'N	095°42'E	—	06:55:10.9	236	214	43	08:34:01.8	237	191	08:42:34.0	57	10	10:04:00.9	58	359	14	08:38:18.5	327	280	30	227	0.913	0.833	0.998	08m32s
Sittwe	20°09'N	092°54'E	—	06:45:26.8	236	220	47	08:28:35.5	246	202	08:37:13.7	46	360	10:01:40.3	57	358	18	08:32:55.2	326	281	34	225	0.914	0.835	0.823	08m38s
Yangon	16°47'N	096°10'E	—	06:50:29.3	244	219	49	—	—	—	—	—	10:00:46.6	49	345	17	08:34:44.5	326	275	34	229	0.817	0.740			
Yenangyaung	20°28'N	094°52'E	—	06:50:52.8	238	217	46	08:33:12.3	288	241	08:38:36.4	5	318	10:02:48.5	56	355	16	08:35:54.3	326	279	32	227	0.913	0.834	0.221	05m24s
CAMBODIA																										
Phnum Pénh	11°33'N	104°55'E	12	07:12:28.0	261	215	46	—	—	—	—	09:54:22.9	33	321	13	08:40:19.8	327	264	29	238	0.548	0.432				
LAOS																										
Vientiane	17°58'N	102°36'E	170	07:08:17.0	249	213	43	—	—	—	—	10:02:44.3	46	340	10	08:43:18.7	327	271	27	234	0.738	0.647				
INDONESIA																										
Bandung	06°54'S	107°36'E	—	07:39:09.0	301	226	49	—	—	—	—	08:54:53.9	351	266	31	08:18:21.8	326	245	40	248	0.084	0.028				
Bandung	06°54'S	107°36'E	—	07:39:09.0	301	226	49	—	—	—	—	08:54:53.9	351	266	31	08:18:21.8	326	245	40	248	0.084	0.028				
Brebes	06°53'S	109°03'E	—	07:47:44.1	306	228	46	—	—	—	—	08:51:05.4	348	262	31	08:20:17.5	326	245	38	249	0.060	0.017				
Cianjur	06°49'S	107°08'E	—	07:36:14.4	300	225	50	—	—	—	—	08:56:27.3	353	268	31	08:17:52.3	326	245	40	248	0.093	0.033				
Cibinong	06°27'S	106°51'E	—	07:33:39.0	298	224	51	—	—	—	—	08:59:02.7	354	270	31	08:18:06.2	326	246	40	248	0.106	0.040				
Cilacap	07°44'S	109°00'E	—	07:51:24.6	309	230	45	—	—	—	—	08:45:04.9	344	259	33	08:18:48.7	326	244	39	249	0.042	0.010				
Ciledug	06°54'S	108°44'E	—	07:45:51.1	305	227	46	—	—	—	—	08:51:54.9	348	263	31	08:19:51.4	326	245	38	248	0.065	0.019				
Cimahi	06°53'S	107°32'E	—	07:38:42.8	301	226	49	—	—	—	—	08:55:09.3	351	266	31	08:18:18.1	326	245	40	248	0.085	0.029				
Ciparay	07°03'S	107°43'E	—	07:40:19.7	302	226	48	—	—	—	—	08:53:43.1	350	265	32	08:18:16.0	326	245	40	248	0.078	0.025				
Depok	06°24'S	106°50'E	—	07:33:25.6	298	224	51	—	—	—	—	08:59:20.4	354	270	31	08:18:09.9	326	246	40	248	0.107	0.041				
Garut	07°13'S	107°54'E	—	07:42:00.5	303	227	48	—	—	—	—	08:52:13.0	349	264	32	08:18:13.9	326	245	40	248	0.072	0.022				
Indramayu	06°20'S	108°19'E	—	07:41:22.9	302	226	47	—	—	—	—	08:56:28.9	351	266	30	08:20:15.3	326	245	39	248	0.084	0.028				
Jakarta	06°10'S	106°48'E	8	07:32:38.9	297	224	51	—	—	—	—	09:00:36.9	355	271	31	08:18:30.7	326	246	40	247	0.113	0.044				
Majalaya	07°03'S	107°45'E	—	07:40:31.4	302	226	48	—	—	—	—	08:53:38.1	350	265	32	08:18:18.7	326	245	40	248	0.078	0.025				
Medan	03°35'N	098°40'E	—	06:49:48.9	265	226	59	—	—	—	—	09:40:03.6	26	311	25	08:22:21.3	325	261	42	237	0.473	0.352				
Pringsewu	05°24'S	104°55'E	—	07:21:26.8	291	223	54	—	—	—	—	09:07:18.4	1	277	30	08:17:10.1	326	248	42	246	0.162	0.075				
Purwokerto	07°25'S	109°14'E	—	07:51:23.5	308	229	45	—	—	—	—	08:46:39.7	345	259	32	08:19:38.5	326	244	38	249	0.045	0.011				
Semarang	06°58'S	110°25'E	—	07:57:16.4	311	231	42	—	—	—	—	08:45:36.1	343	258	31	08:21:51.7	327	244	36	249	0.035	0.008				
Serang	06°07'S	106°09'E	—	07:29:06.9	296	224	52	—	—	—	—	09:02:03.3	357	272	31	08:17:41.9	326	247	41	247	0.125	0.051				
Tangerang	06°11'S	106°37'E	—	07:31:43.2	297	224	51	—	—	—	—	08:50:52.6	355	271	31	08:18:13.9	326	246	40	247	0.116	0.045				
Tasikmalaya	07°20'S	108°12'E	—	07:44:17.3	305	227	47	—	—	—	—	09:00:37.5	348	263	32	08:18:26.1	326	244	39	249	0.064	0.019				
Tembilahan	00°19'S	103°09'E	—	07:08:07.9	277	221	56	—	—	—	—	09:27:40.4	14	294	25	08:22:56.7	325	254	40	242	0.305	0.188				
MACAU																										
Macau	22°14'N	113°35'E	—	07:31:47.1	255	208	29	—	—	—	—	—	—	—	—	08:53:51.7	330	270	14	240	0.680	0.580				
MALAYSIA																										
Kuala Lumpur	03°10'N	101°42'E	34	07:01:22.2	269	222	56	—	—	—	—	09:38:09.1	22	305	23	08:26:10.1	325	258	39	239	0.409	0.286				
PHILIPPINES																										
Cebu	10°18'N	123°54'E	—	07:59:55.6	288	219	22	—	—	—	—	09:39:46.3	14	295	0	08:52:18.7	331	256	10	246	0.246	0.137				
Davao	07°04'N	125°36'E	27	08:09:57.6	298	224	20	—	—	—	—	09:28:05.0	4	282	2	08:50:28.2	331	253	11	247	0.144	0.063				
Manila	14°35'N	121°00'E	15	07:49:03.6	276	214	25	—	—	—	—	—	—	—	—	08:53:56.5	331	261	11	245	0.390	0.267				
Quezon City	14°38'N	121°03'E	—	07:49:06.3	275	214																				