

TABLE 6

TOPOCENTRIC DATA AND PATH CORRECTIONS DUE TO LUNAR LIMB PROFILE
TOTAL SOLAR ECLIPSE OF 2009 JULY 22

Universal Time	Moon Topo H.P. "	Moon Topo S.D. "	Moon Rel. Ang.V "/s	Topo Lib. Long °	Sun Alt. °	Sun Az. °	Path Az. °	North Limit P.A. °	$\Delta T = 65.9 \text{ s}$				Central Durat. Corr. s
									North Limit		South Limit		
									Int.	Ext.	Int.	Ext.	
00:55	3693.6	1005.7	0.561	1.51	11.7	72.9	70.3	9.9	-0.1	0.7	0.5	-2.0	-0.9
01:00	3704.4	1008.7	0.521	1.47	21.5	77.5	73.3	11.2	0.0	0.6	0.4	-1.8	-1.3
01:05	3711.3	1010.6	0.496	1.43	28.1	81.0	76.1	12.3	0.1	0.7	0.3	-2.2	-1.4
01:10	3716.8	1012.0	0.476	1.39	33.5	84.1	78.9	13.4	0.2	0.7	0.2	-2.4	-1.4
01:15	3721.2	1013.2	0.460	1.35	38.3	87.0	81.6	14.5	0.4	0.8	0.0	-2.2	-1.4
01:20	3725.0	1014.2	0.446	1.30	42.5	89.7	84.4	15.5	0.4	0.9	-0.2	-1.7	-1.5
01:25	3728.3	1015.1	0.435	1.26	46.5	92.3	87.1	16.5	0.4	1.1	-0.4	-2.0	-1.7
01:30	3731.2	1015.9	0.424	1.22	50.2	94.9	89.8	17.6	0.5	1.2	-0.6	-2.2	-1.5
01:35	3733.7	1016.6	0.416	1.18	53.7	97.4	92.5	18.6	0.4	1.2	-0.7	-2.1	-1.6
01:40	3736.0	1017.2	0.408	1.13	57.1	100.0	95.2	19.6	0.4	0.9	-0.7	-2.5	-1.6
01:45	3737.9	1017.7	0.401	1.09	60.3	102.5	97.8	20.7	0.3	0.8	-0.6	-3.0	-2.2
01:50	3739.7	1018.2	0.396	1.05	63.4	105.1	100.4	21.7	0.3	0.7	-0.5	-3.1	-2.3
01:55	3741.2	1018.6	0.391	1.01	66.4	107.9	102.9	22.6	0.3	0.7	-0.4	-3.1	-2.6
02:00	3742.5	1018.9	0.387	0.96	69.4	110.9	105.4	23.6	0.3	0.8	-0.3	-2.9	-2.8
02:05	3743.6	1019.2	0.384	0.92	72.3	114.3	107.8	24.5	0.2	0.7	-0.3	-2.9	-2.8
02:10	3744.5	1019.5	0.381	0.88	75.1	118.3	110.1	25.4	0.2	0.6	-0.3	-2.6	-2.8
02:15	3745.2	1019.7	0.380	0.84	77.8	123.3	112.3	26.3	0.2	0.7	-0.3	-2.1	-2.7
02:20	3745.8	1019.8	0.378	0.79	80.4	130.4	114.4	27.2	0.3	1.0	-0.3	-1.4	-2.6
02:25	3746.2	1019.9	0.378	0.75	82.9	141.4	116.4	28.0	0.3	1.0	-0.3	-1.5	-2.5
02:30	3746.4	1020.0	0.378	0.71	84.9	161.0	118.3	28.7	0.3	0.9	-0.4	-1.6	-2.3
02:35	3746.5	1020.0	0.378	0.66	85.9	195.1	120.0	29.4	0.3	0.7	-0.2	-1.7	-2.3
02:40	3746.4	1020.0	0.380	0.62	85.1	231.1	121.7	30.1	0.3	0.7	-0.1	-1.7	-2.0
02:45	3746.2	1019.9	0.381	0.58	83.2	252.6	123.2	30.7	0.3	1.0	-0.0	-1.7	-1.6
02:50	3745.8	1019.8	0.384	0.54	80.8	264.3	124.5	31.2	0.3	1.1	0.1	-1.7	-1.3
02:55	3745.2	1019.7	0.386	0.49	78.2	271.4	125.7	31.8	0.3	1.1	0.1	-1.7	-1.2
03:00	3744.4	1019.5	0.390	0.45	75.5	276.3	126.8	32.2	0.4	1.1	0.2	-1.8	-0.8
03:05	3743.5	1019.2	0.394	0.41	72.7	279.8	127.7	32.6	0.4	1.0	0.2	-1.9	-0.6
03:10	3742.4	1018.9	0.398	0.37	69.8	282.5	128.4	32.9	0.4	1.0	0.2	-1.9	-0.3
03:15	3741.1	1018.6	0.403	0.32	66.9	284.7	129.0	33.2	0.5	1.0	0.3	-1.9	-0.1
03:20	3739.6	1018.2	0.409	0.28	63.9	286.5	129.4	33.4	0.5	1.0	0.2	-1.9	-0.2
03:25	3737.8	1017.7	0.415	0.24	60.8	288.0	129.6	33.5	0.5	1.0	0.3	-1.8	-0.2
03:30	3735.9	1017.2	0.423	0.20	57.5	289.4	129.6	33.5	0.5	1.0	0.3	-1.8	-0.2
03:35	3733.6	1016.6	0.431	0.15	54.2	290.5	129.5	33.5	0.5	1.0	0.3	-1.8	-0.2
03:40	3731.1	1015.9	0.439	0.11	50.7	291.4	129.1	33.4	0.5	1.0	0.2	-1.9	-0.3
03:45	3728.2	1015.1	0.449	0.07	47.0	292.3	128.5	33.2	0.5	1.0	0.2	-1.9	-0.5
03:50	3725.0	1014.2	0.460	0.03	43.1	292.9	127.6	32.9	0.5	1.0	0.2	-1.9	-0.6
03:55	3721.2	1013.2	0.473	-0.02	38.9	293.5	126.5	32.5	0.5	1.0	0.2	-1.9	-0.9
04:00	3716.8	1012.0	0.487	-0.06	34.2	293.8	125.0	32.0	0.4	1.2	0.1	-1.8	-1.2
04:05	3711.5	1010.6	0.505	-0.10	28.9	294.0	123.1	31.3	0.4	1.2	0.0	-1.7	-1.6
04:10	3704.7	1008.8	0.527	-0.14	22.4	293.8	120.6	30.3	0.4	0.9	-0.1	-1.9	-1.9
04:15	3694.7	1006.1	0.559	-0.19	13.4	293.0	116.8	28.8	0.4	0.9	-0.3	-1.7	-2.2