TABLE 2

SHADOW CONTACTS AND CIRCUMSTANCES
TOTAL SOLAR ECLIPSE OF 2008 AUGUST 01

ΔT = 65.6 s
= 000°16'26.7"

		Terrestrial Dynamical Time h m s	Latitude	Ephemeris Longitude†	True Longitude*
External/Internal Contacts of Penumbra:	P_1	08:05:11.4	50°12.6'N	052°31.1'W	052°14.6'W
	P_4	12:39:31.4	11°10.0'N	085°19.8'E	085°36.3'E
Extreme North/South Limits of Penumbral Path:	N_1	08:33:37.6	36°15.9'N	050°31.3'W	050°14.9'W
	S_1	12:10:58.3	03°34.5'S	087°40.5'E	087°56.9'E
External/Internal Contacts of Umbra:	U_1	09:22:12.5	67°53.9'N	101°32.9'W	101°16.5'W
	U_2	09:25:15.5	68°39.8'N	105°23.0'W	105°06.6'W
	U_3	11:19:32.9	34°07.4'N	114°17.5'E	114°34.0'E
	U_4	11:22:31.0	32°52.7'N	112°57.5'E	113°14.0'E
Extreme North/South Limits of Umbral Path:	N_1	09:25:04.0	68°44.1'N	105°38.6'W	105°22.2'W
	S_1	09:22:24.7	67°49.1'N	101°18.1'W	101°01.7'W
	N_2	11:19:44.2	34°14.7'N	114°18.2'E	114°34.7'E
	S_2	11:22:19.1	32°45.1'N	112°57.0'E	113°13.4'E
Extreme Limits of Central Line:	C_1	09:23:43.2	68°16.9'N	103°24.7'W	103°08.3'W
	C_2	11:21:02.8	33°29.4'N	113°36.9'E	113°53.3'E
Instant of Greatest Eclipse:	G_0	10:22:12.1	65°39.2'N	072°01.5'E	072°17.9'E

Circumstances at Greatest Eclipse: Sun's Altitude = 33.5° Path Width = 236.9 km
Sun's Azimuth = 235.2° Central Duration = 02m27.1s

---

† Ephemeris Longitude is the terrestrial dynamical longitude assuming a uniformly rotating Earth.

* True Longitude is calculated by correcting the Ephemeris Longitude for the non-uniform rotation of Earth.
(T.L. = E.L. + 1.002738*ΔT/240, where ΔT(in seconds) = TDT - UT)

Note: Longitude is measured positive to the East.

Because ΔT is not known in advance, the value used in the predictions is an extrapolation based on pre-2007 measurements. The actual value is expected to fall within ±0.2 seconds of the estimated ΔT used here.