Annular Solar Eclipse of 2010 Jan 15

Maximum Eclipse = 07:00:00.0 UT
Moon/Sun Diameter Ratio = 0.9190

Eclipse Contacts
C1 = 04:53:13.0 UT
C2 = 06:54:24.7 UT
C3 = 07:05:34.7 UT
C4 = 09:05:25.5 UT

Limb Corrected Contacts
C2* = 06:54:32.6 UT (-7.9s)
C3* = 07:05:27.2 UT (-7.5s)

Topocentric Libration (Optical + Physical)
l = 1.58°
b = -0.12°
c = -8.84°

Geographic Position
Name = Central Line at 07:00 UT
Lat. = 00°49'54.3"N
Long. = 067°52'06.9"E
Elev. = 0.0 m

Ephemeris & Constants
Eph. = DE200/LE200
ΔT = 66.0 s
k1 = 0.2725076
k2 = 0.2722810
Δb = 0.00" Δl = 0.00"

Contact Time Correction Scale
Mean Limb (Center of Figure)
Mean Limb (Center of Mass)
True Limb

Sun at Maximum Eclipse (Topocentric Coordinates)
R.A. = 19h47m50.0s
Dec. = -21°07'45.0"
S.D. = 00°16'15.6"
H.P. = 00°00'08.9"

Moon at Maximum Eclipse (Topocentric Coordinates)
R.A. = 19h47m50.6s
Dec. = -21°07'44.4"
S.D. = 00°16'15.6"
H.P. = 00°54'52.8"

Local Circumstances at Maximum Eclipse
Sun Alt. = 66.2°
Sun Azm. = 157.7°
PA(N.Limit) = 151.1°
Duration = 11m10.0s
A.Vel. (M:S) = 0.236"/s
Path Width = 335.4 km

George 2.15: Lunar Limb Profile for January 15 at 07:00 UT

NASA 2010 Eclipse Bulletin, Espenak & Anderson