

FIGURE 20 - LUNAR LIMB PROFILE FOR JULY 22 AT 01:30 UT

Total Solar Eclipse of 2009 Jul 22

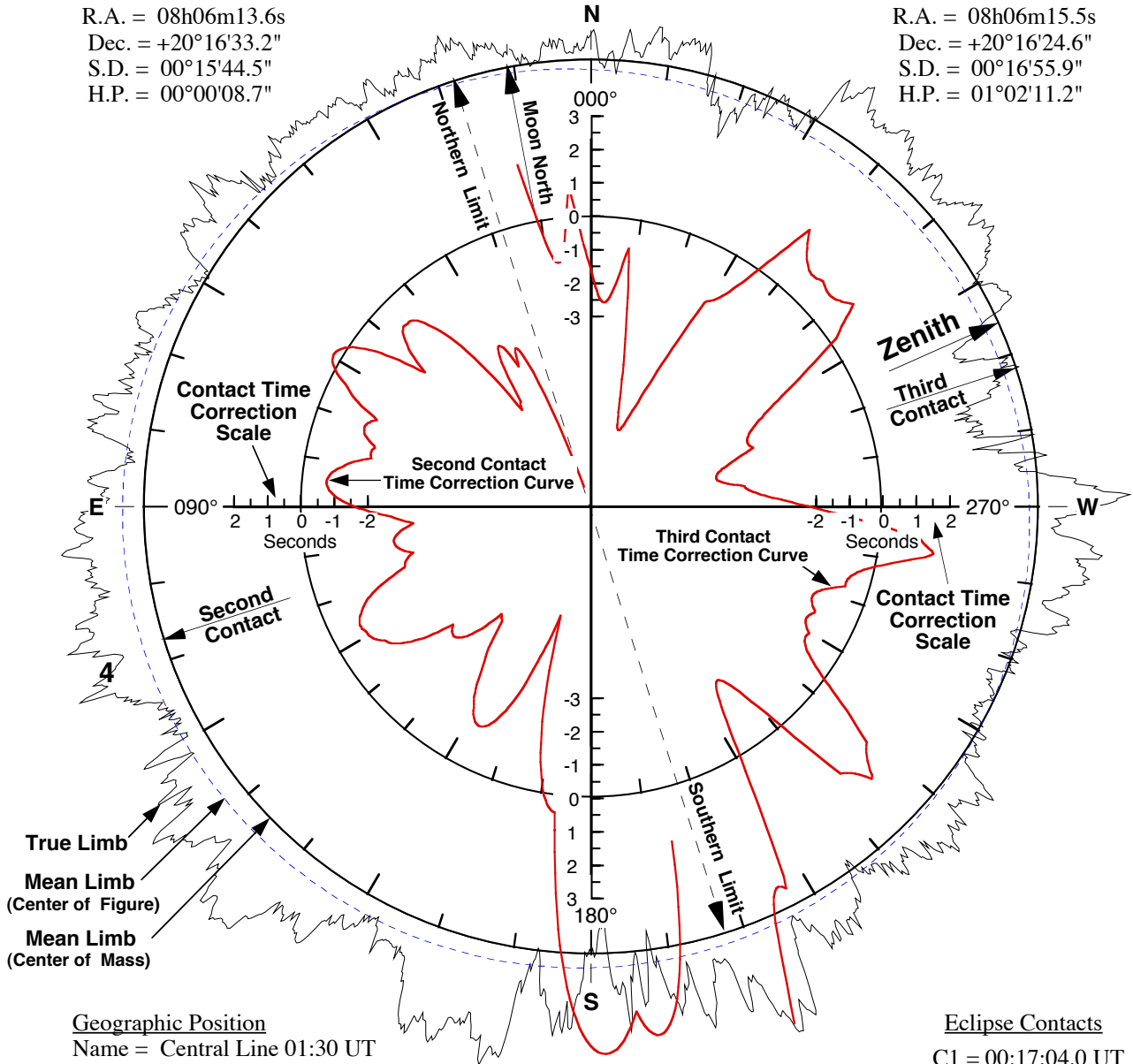
Moon/Sun Diameter Ratio = 1.0756

Sun at Maximum Eclipse
(Topocentric Coordinates)

R.A. = 08h06m13.6s
Dec. = +20°16'33.2"
S.D. = 00°15'44.5"
H.P. = 00°00'08.7"

Moon at Maximum Eclipse
(Topocentric Coordinates)

R.A. = 08h06m15.5s
Dec. = +20°16'24.6"
S.D. = 00°16'55.9"
H.P. = 01°02'11.2"



Geographic Position

Name = Central Line 01:30 UT
Lat. = 30°49'00.1"N
Long. = 116°16'09.9"E
Elev. = 0.0 m

Ephemeris & Constants

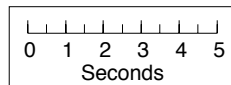
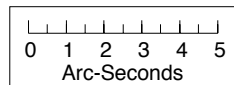
Eph. = DE200/LE200
 $\Delta T = 65.9$ s
k1 = 0.2725076
k2 = 0.2722810
 $\Delta b = 0.00''$ $\Delta l = 0.00''$

Calculated Center of Figure

$\Delta b' = -0.25''$ $\Delta l' = 0.47''$

Local Circumstances at Maximum Eclipse

Sun Alt. = 50.2° Path Width = 245.5 km
Sun Azm. = 94.9° Duration = 05m36.3s
PA(N.Limit) = 17.6° A.Vel. (M:S) = 0.424"/s



Eclipse Contacts

C1 = 00:17:04.0 UT
C2 = 01:27:12.4 UT
C3 = 01:32:48.7 UT
C4 = 02:50:28.6 UT

Limb Corrected Contacts

C2* = 01:27:09.6 UT (-2.8s)
C3* = 01:32:44.4 UT (-4.4s)

Topocentric Libration
(Optical + Physical)

l = 1.22°
b = -0.01°
c = 10.50°

NASA 2009 Eclipse Bulletin, Espenak & Anderson