

Figure 5: THE LUNAR LIMB PROFILE AT 01:
Total Solar Eclipse of 1997 Mar 9

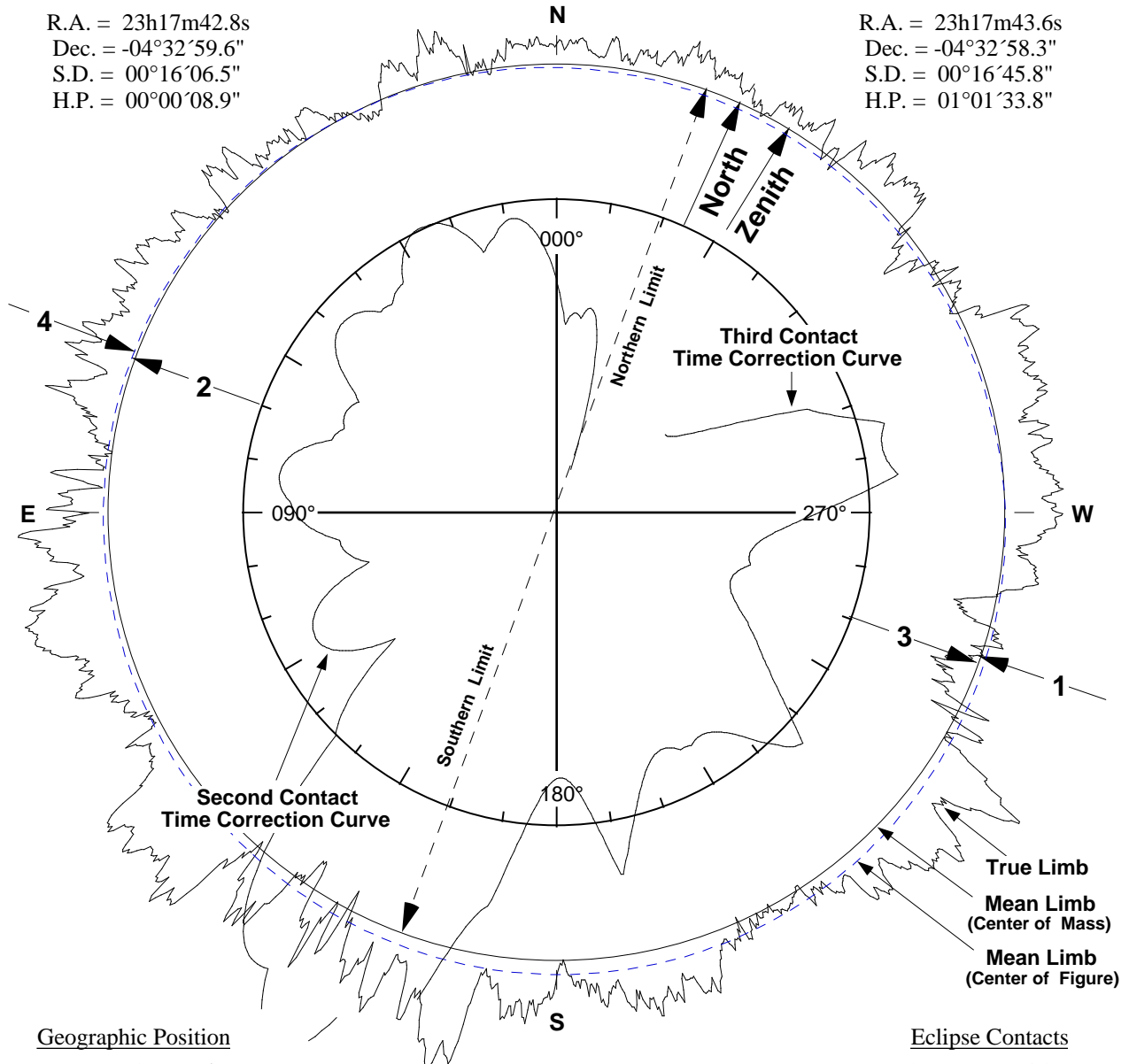
Maximum Eclipse = 01:00:00.0 UT

Sun at Maximum Eclipse
(Topocentric Coordinates)

R.A. = 23h17m42.8s
Dec. = -04°32'59.6"
S.D. = 00°16'06.5"
H.P. = 00°00'08.9"

Moon at Maximum Eclipse
(Topocentric Coordinates)

R.A. = 23h17m43.6s
Dec. = -04°32'58.3"
S.D. = 00°16'45.8"
H.P. = 01°01'33.8"



Geographic Position

Name = Center Line at 01:00:00.0 UT
Lat. = 51°31'38.1"N
Long. = 115°02'01.5"E
Elev. = 0.0 m

Local Circumstances at Maximum Eclipse

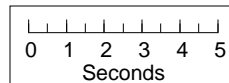
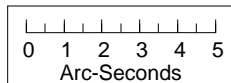
Sun Alt. = 18.4° Path Width = 368.6 km
Sun Azm. = 123.4° Duration = 02m38.9s
PA(N.Limit) = 340.2° A.Vel. (M:S) = 0.495"/s

Eclipse Contacts

C1 = 23:55:54.0 UT
C2 = 00:58:40.7 UT
C3 = 01:01:19.6 UT
C4 = 02:08:37.2 UT
 $\Delta C2 = -2.4s$ $\Delta C3 = -3.8s$

Ephemeris & Constants

Eph. = DE200/LE200
 $\Delta T = 62.1 s$
k1 = 0.2725076
k2 = 0.2722810
 $\Delta b = 0.00''$ $\Delta l = 0.00''$



Topocentric Libration
(Optical + Physical)

l = 1.55°
b = -0.27°
c = -24.50°

F. Espenak, NASA/GSFC - 1995 Apr 17

cor.C2 = 00:58:38.3 UT (-2.4s)

cor.C3 = 01:01:15.8 UT (-3.8s)