

Figure 4

# Penumbral Lunar Eclipse of 2009 Jul 07

Ecliptic Conjunction = 09:22:30.9 TD (= 09:21:25.1 UT)

Greatest Eclipse = 09:39:43.7 TD (= 09:38:37.9 UT)

Penumbral Magnitude = 0.1562

P. Radius = 1.1734°

Gamma = -1.4915

Umbral Magnitude = -0.9132

U. Radius = 0.6490°

Axis = 1.3420°

Saros Series = 110

Member = 71 of 72

Sun at Greatest Eclipse  
(Geocentric Coordinates)

R.A. = 07h06m54.1s

Dec. = +22°32'55.2"

S.D. = 00°15'43.9"

H.P. = 00°00'08.7"

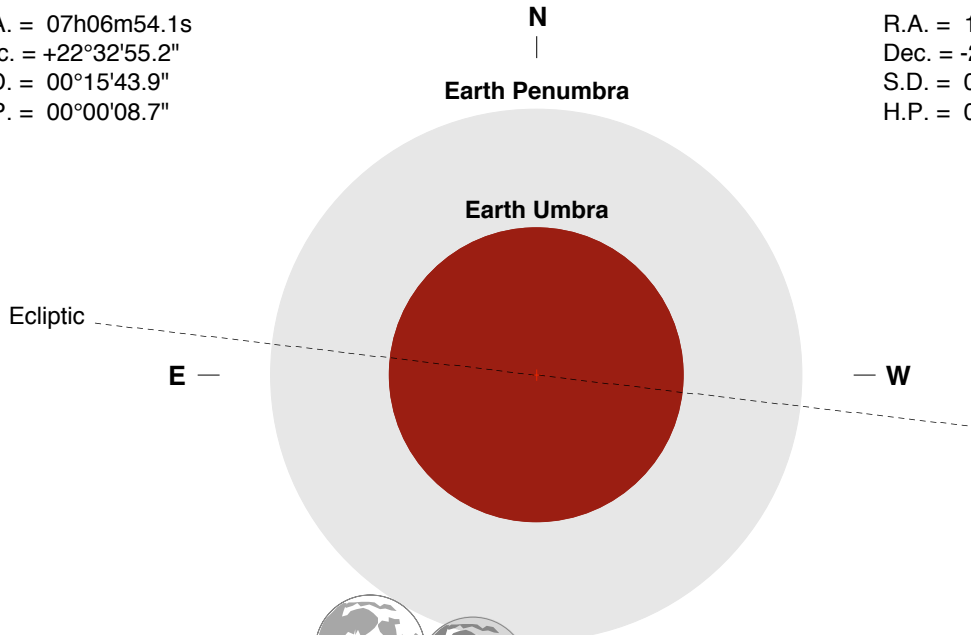
Moon at Greatest Eclipse  
(Geocentric Coordinates)

R.A. = 19h08m08.1s

Dec. = -23°51'38.0"

S.D. = 00°14'42.6"

H.P. = 00°53'59.3"



Eclipse Semi-Durations

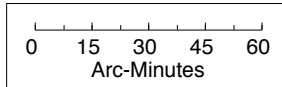
Penumbral = 01h00m46s



Eclipse Contacts

P1 = 08:37:51 UT

P4 = 10:39:23 UT



$\Delta T = 65.8 \text{ s}$

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

<http://eclipse.gsfc.nasa.gov/eclipse.html>

