

Figure 3

# Penumbral Lunar Eclipse of 2009 Feb 09

Ecliptic Conjunction = 14:50:15.4 TD (= 14:49:09.6 UT)

Greatest Eclipse = 14:39:20.6 TD (= 14:38:14.9 UT)

Penumbral Magnitude = 0.8995

P. Radius = 1.2866°

Gamma = -1.0639

Umbral Magnitude = -0.0881

U. Radius = 0.7463°

Axis = 1.0680°

Saros Series = 143

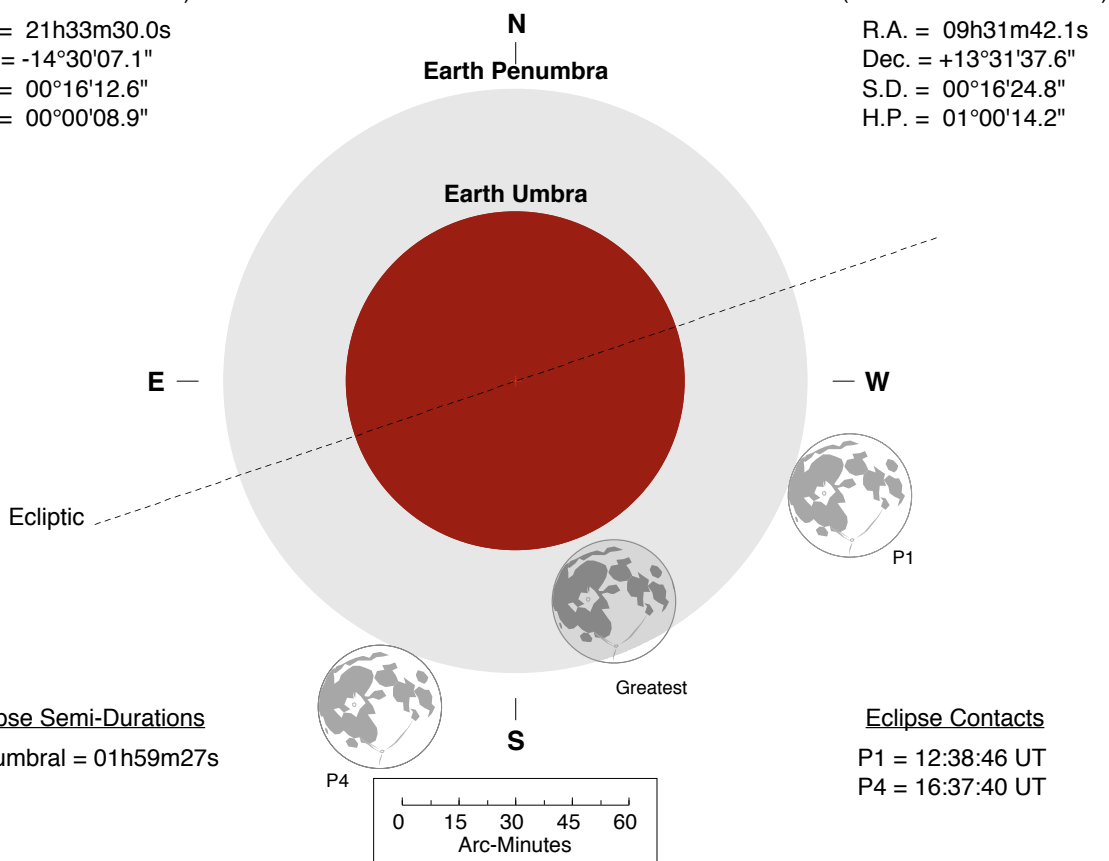
Member = 18 of 73

Sun at Greatest Eclipse  
(Geocentric Coordinates)

R.A. = 21h33m30.0s  
Dec. = -14°30'07.1"  
S.D. = 00°16'12.6"  
H.P. = 00°00'08.9"

Moon at Greatest Eclipse  
(Geocentric Coordinates)

R.A. = 09h31m42.1s  
Dec. = +13°31'37.6"  
S.D. = 00°16'24.8"  
H.P. = 01°00'14.2"



Eclipse Semi-Durations

Penumbral = 01h59m27s

Eclipse Contacts

P1 = 12:38:46 UT  
P4 = 16:37:40 UT

$\Delta T = 65.7$  s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

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

