

Figure 7

# Penumbral Lunar Eclipse of 2009 Aug 06

Ecliptic Conjunction = 00:55:57.5 TD (= 00:54:51.6 UT)

Greatest Eclipse = 00:40:16.0 TD (= 00:39:10.1 UT)

Penumbral Magnitude = 0.4020

P. Radius = 1.1774°

Gamma = 1.3571

Umbral Magnitude = -0.6660

U. Radius = 0.6518°

Axis = 1.2257°

Saros Series = 148

Member = 3 of 71

### Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 09h04m42.0s

Dec. = +16°42'38.9"

S.D. = 00°15'46.1"

H.P. = 00°00'08.7"

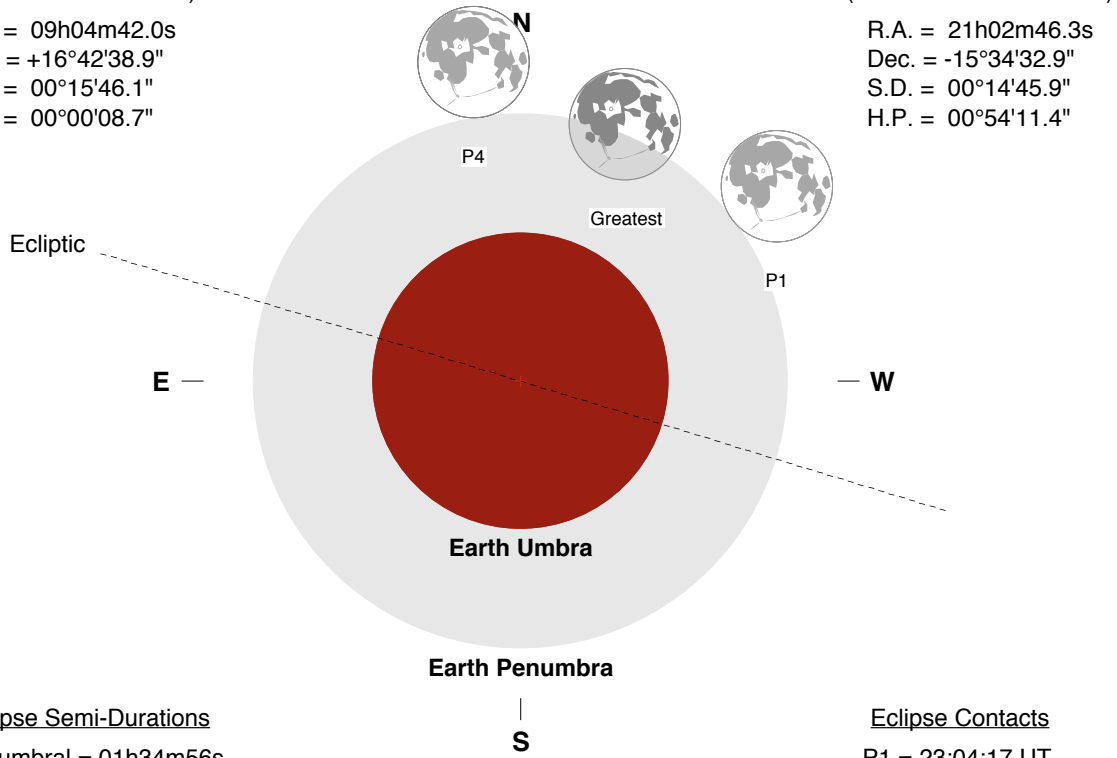
### Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 21h02m46.3s

Dec. = -15°34'32.9"

S.D. = 00°14'45.9"

H.P. = 00°54'11.4"



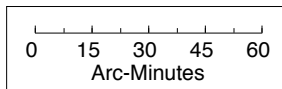
### Eclipse Semi-Durations

Penumbral = 01h34m56s

### Eclipse Contacts

P1 = 23:04:17 UT

P4 = 02:14:09 UT



$\Delta T = 65.9$  s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

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

