

Total Lunar Eclipse of 2068 Nov 09

Ecliptic Conjunction = 11:42:09.8 TD (= 11:39:57.5 UT)

Greatest Eclipse = 11:46:59.8 TD (= 11:44:47.4 UT)

Penumbral Magnitude = 1.9962

P. Radius = 1.2882°

Gamma = 0.4645

Umbral Magnitude = 1.0149

U. Radius = 0.7500°

Axis = 0.4675°

Saros Series = 127

Member = 45 of 72

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 15h01m47.2s

Dec. = -17°09'37.4"

S.D. = 00°16'08.8"

H.P. = 00°00'08.9"

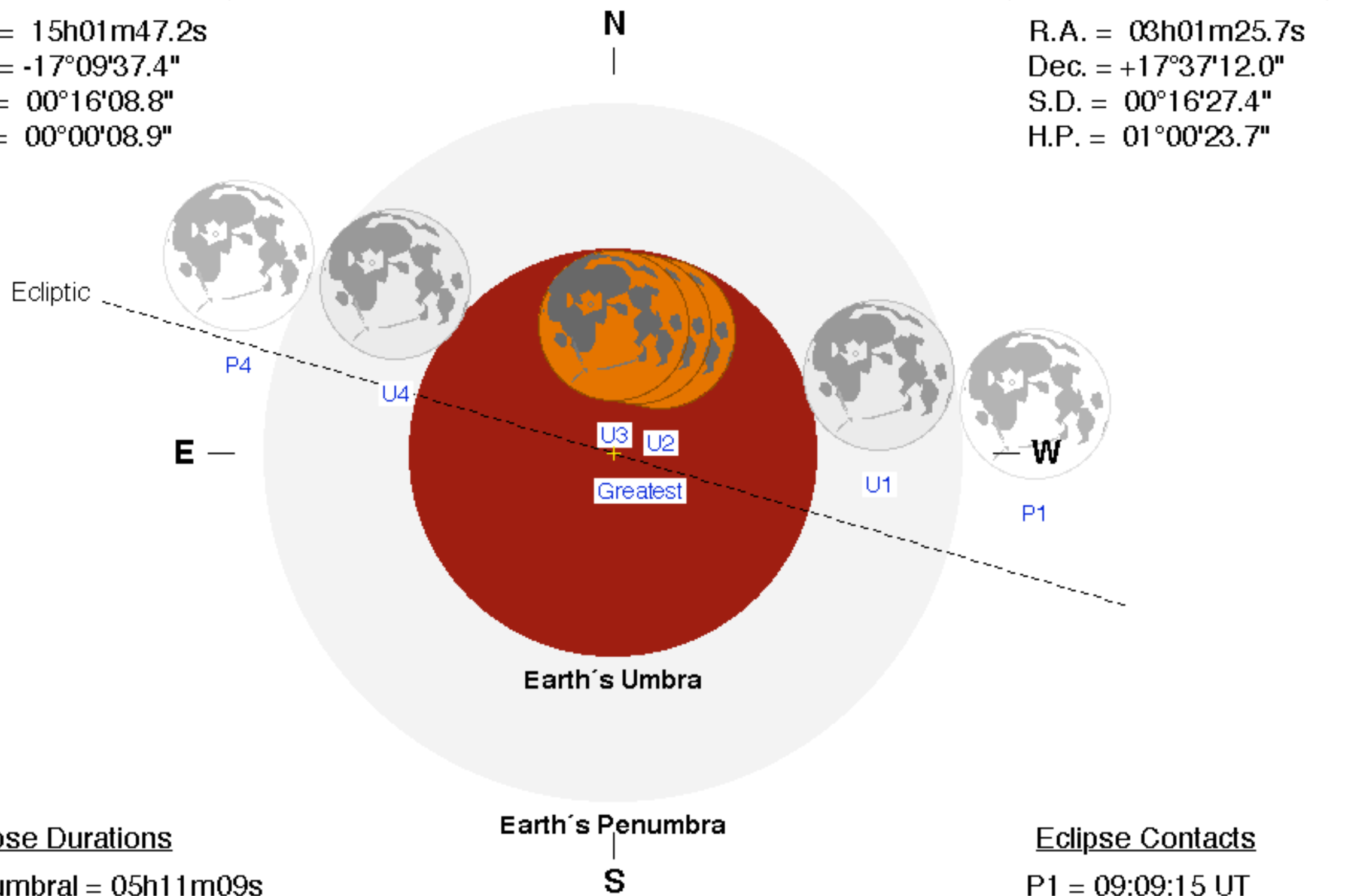
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 03h01m25.7s

Dec. = +17°37'12.0"

S.D. = 00°16'27.4"

H.P. = 01°00'23.7"



Eclipse Durations

Penumbral = 05h11m09s

Umbral = 03h10m13s

Total = 00h18m21s

$\Delta T = 132$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Eclipse Contacts

Eclipse Contacts

P1 = 09:09:15 UT

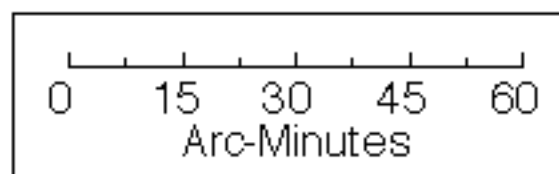
U1 = 10:09:39 UT

U2 = 11:35:36 UT

U3 = 11:53:57 UT

U4 = 13:19:53 UT

P4 = 14:20:24 UT



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eclipse.gsfc.nasa.gov/eclipse.html

