

Partial Lunar Eclipse of 2009 Dec 31

Geocentric Conjunction = 19:04:48.2 UT J.D. = 2455197.29500
 Greatest Eclipse = 19:22:41.4 UT J.D. = 2455197.30742

Penumbral Magnitude = 1.0808 P. Radius = 1.3136° Gamma = 0.9766
 Umbral Magnitude = 0.0820 U. Radius = 0.7606° Axis = 0.9921°

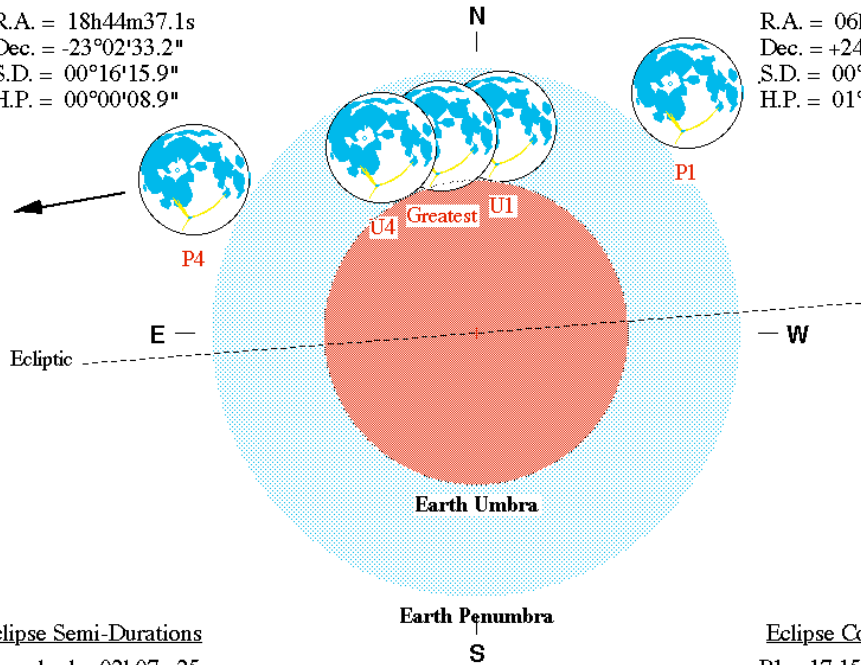
Saros Series = 115 Member = 57 of 72

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 18h44m37.1s
 Dec. = -23°02'33.2"
 S.D. = 00°16'15.9"
 H.P. = 00°00'08.9"

Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 06h45m22.3s
 Dec. = +24°01'10.3"
 S.D. = 00°16'36.6"
 H.P. = 01°00'57.6"

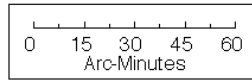


Eclipse Semi-Durations

Penumbral = 02h07m25s
 Umbral = 00h31m06s

Eclipse Contacts

P1 = 17:15:18 UT
 U1 = 18:51:38 UT
 U4 = 19:53:51 UT
 P4 = 21:30:07 UT



Eph. = Newcomb/ILE
 ΔT = 66.6 s

F. Espenak, NASA's GSFC - 2004 Jul 07

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

