Penumbral Lunar Eclipse of 2093 Jan 12

Ecliptic Conjunction = 17:46:14.4 TD (≈ 17:43:08.1 UT)
Greatest Eclipse = 18:00:02.6 TD (≈ 17:56:56.3 UT)

Penumbral Magnitude = 0.7553 P. Radius = 1.1871° Gamma = -1.1733
Umbral Magnitude = -0.9444 U. Radius = 0.6150° Axis = 1.0612°

Saros Series = 116 Member = 62 of 73

Sun at Greatest Eclipse
(Geocentric Coordinates)
R.A. = 19h40m30.7s Dec. = -21°25'06.2"
S.D. = 00°16'15.7"
H.P. = 00°00'08.9"

Moon at Greatest Eclipse
(Geocentric Coordinates)
R.A. = 07h40m11.4s Dec. = +20°21'35.1"
S.D. = 00°14'47.3"
H.P. = 00°54'16.4"

Eclipse Durations
Penumbral = 04h13m05s

ΔT = 186 s
Rule = Cdt (Danjon)
Eph. = VSOP87/ELP2000-85

Eclipse Contacts
P1 = 15:50:26 UT
P4 = 20:03:31 UT

F. Espenak, NASA's GSFC
eclipse.gsfc.nasa.gov/eclipse.html