

# Penumbral Lunar Eclipse of 2016 Sep 16

Greatest Eclipse = 18:55:27.3 TD (= 18:54:17.5 UT1)

Penumbral Magnitude = 0.9080  
Umbral Magnitude = -0.0635

Gamma = -1.0549  
Axis = 1.0568°

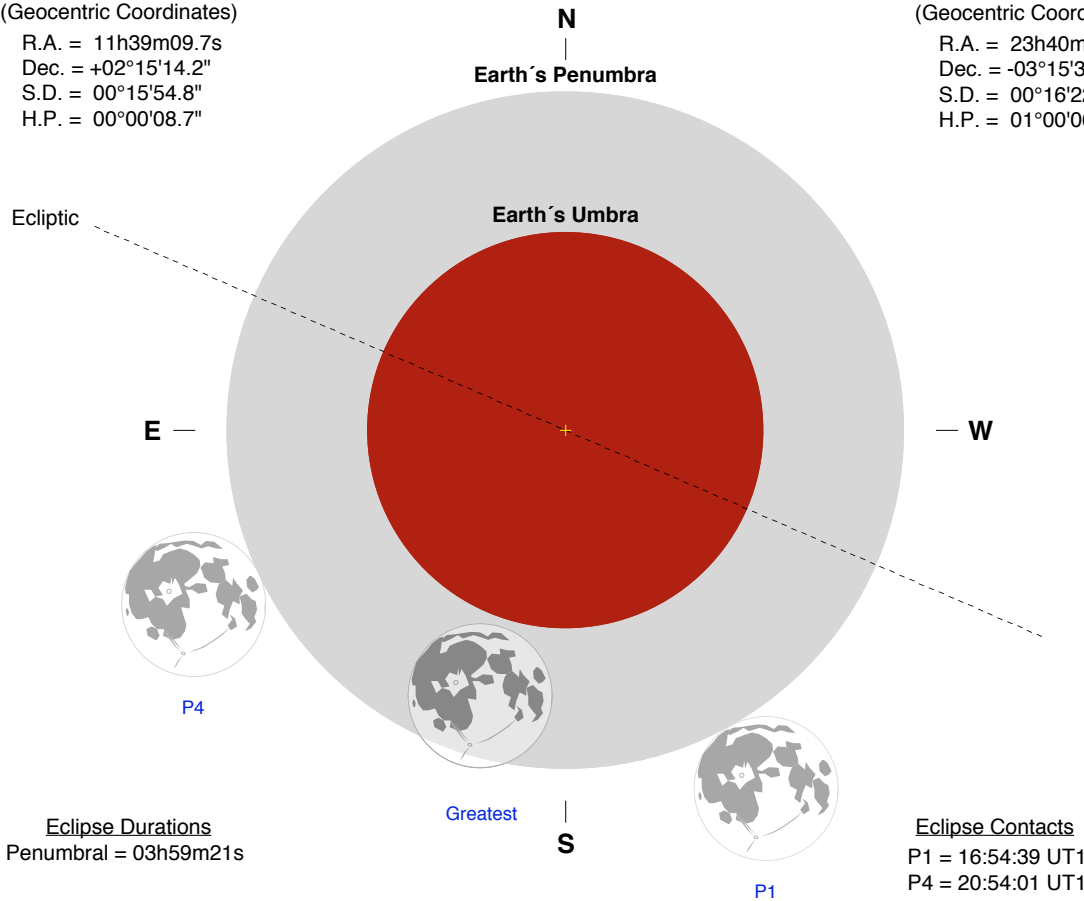
Saros Series = 147  
Saros Member = 9 of 71

## Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 11h39m09.7s  
Dec. = +02°15'14.2"  
S.D. = 00°15'54.8"  
H.P. = 00°00'08.7"

## Moon at Greatest Eclipse (Geocentric Coordinates)

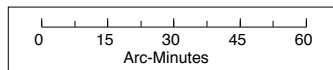
R.A. = 23h40m27.3s  
Dec. = -03°15'36.5"  
S.D. = 00°16'22.8"  
H.P. = 01°00'06.8"



**Eclipse Durations**  
Penumbral = 03h59m21s

**Eclipse Contacts**  
P1 = 16:54:39 UT1  
P4 = 20:54:01 UT1

Eph. = JPL DE405  
Rule = Danjon  
 $\Delta T = 70$  s



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