



# MEMPHIS ASTRONOMICAL SOCIETY

## Eclipse 2017 Memphis Fact

### Staying Memphis for the Eclipse? Here is what you need to know:

The only way to experience a Total Eclipse is to go to the path of totality. But if you aren't able to go to the path, you can experience a great "Partial Eclipse" right here in Memphis.

- The Partial Eclipse will begin at 11:53 am
- Maximum obscuration will occur at 1:21 pm (Darkest)
- The Partial Eclipse will end at 2:50 pm

As time approaches Maximum obscuration:

- Shadows made by sunlight will appear sharp at the edges
- Shadows through the tree leaves will take on the crescent shape of the Sun.
- The light outside will become dimmer
- Colors may appear "off" or in high contrast
- The air temperature should drop – record the temperature every 15 minutes.
- Animals may react strangely – pay attention to pets, birds, bugs.

The last Total Solar Eclipse in the U.S. occurred in 1979

Everyone in the U.S. will see at least a partial eclipse.

The moon's shadow will cross the U.S. from Oregon, southeast to South Carolina at about 1700 mile per hour

The next total eclipse in our part of the world will be on April 8, 2024

The Sun is approx. 10,000 ° F or 5,500 °C at its surface. This is called the Photosphere.  
*(This is why the color of "daylight" LED bulbs are rated at 5500 °)*

The Sun is approx. 27 million ° F at its core.

Not well understood is why the Sun's corona, a tenuous aura of plasma that surrounds the sun, reaches a few million degrees just 300 miles above the 10,000 ° F photosphere. Research is ongoing.

The Sun is approx. 93 million miles from Earth and approx. 864,576 miles in diameter  
The Moon is approx. 239 thousand miles from Earth and approx. 2,159 miles in diameter  
Do the math and you can see why they appear the same size from Earth.

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