

Optical design information is provided in this section. Some files are available in other formats, see [this direct folder link](#) to browse many files. The list below shows some of the files which are available when you browse...

### Primary Mirror

- Diameter: 90.00"  $\pm$  0.0625" (2286 mm)
- Central Obscuration Diameter: 33.5"  $\pm$  0.1" (851 mm)
- Conic Constant: -1.0646  $\pm$  0.001
- Radius of Curvature: 12281 mm  $\pm$  4 mm
- Uncorrected Focal Length: 6140.5 mm
- Uncorrected Focal Ratio: f/2.69
- Measurement of the 90-inch Primary Mirror Optical Prescription

### Corrector Optics

- Corrected Focal Length: 6829.2 mm
- Corrected Focal Ratio: f/2.98
- Optical Design and Specifications for the 90-inch Prime Focus Corrector (Rev E-2)
- Corrector Design Tolerances
- AR Coating Theoretical Reflectance
- AR Coating Measured Reflectance:
  - Both Sides
    - AR Coating Measured Reflectance: Side 1
    - AR Coating Measured Reflectance: Side 2
- Vignetting Effects
- Ghost Analysis for the 90" Prime Focus Corrector
- 90-Inch Prime Focus Corrector Lens 1 Testing Report (Michael Tuell)
- 90-Inch Prime Focus Corrector Lens 3 Testing Report (Michael Tuell)
- Corrector Optics Defects
  - Lens 2 and Lens 3 Defects
  - Lens 2 Defects
  - Lens 3 Defects
- Unordered List ItemL2 asphere profile measurements (Steve Miller; SO Mirror Lab)

### Baffles

- See Baffle and Baffles
- Inner Lens Can Baffling
- External Lens Can Baffling
- Baffling Inner Lens Can Baffling
- External Lens Can Baffling

### Drawings

- Optics with dimensions & header
- Optics with dimensions & without header
- Optics without dimensions & without header

From:

<https://lavinia.as.arizona.edu/~tscopewiki/> - **MOON**

Permanent link:

<https://lavinia.as.arizona.edu/~tscopewiki/doku.php?id=optics&rev=1564505623>

Last update: **2019/07/30 09:53**

