Optical design information is provided in this section. Some files are available in other formats, see this direct folder link to browse.

Primary Mirror ◦Diameter: 90.00“ ± 0.0625” (2286 mm) ◦Central Obscuration Diameter: 33.5“ ± 0.1” (851 mm) ◦Conic Constant: -1.0646 ± 0.001 ◦Radius of Curvature: 12281 mm ± 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 ◦L2 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