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

Primary Mirror \circ Diameter: 90.00" \pm 0.0625" (2286 mm) \circ Central Obscuration Diameter: 33.5" \pm 0.1" (851 mm) \circ Conic Constant: -1.0646 \pm 0.001 \circ Radius of Curvature: 12281 mm \pm 4 mm \circ Uncorrected Focal Length: 6140.5 mm \circ Uncorrected Focal Ratio: f/2.69 \circ 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 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 \circ See Baffle and Baffles \circ Inner Lens Can Baffling \circ External Lens Can Baffling \circ External Lens Can Baffling

Drawings •Optics with dimensions & header •Optics with dimensions & without header •Optics without dimensions & without header

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