

T1300746-v1

SR2-03 ROC TolerancesR. Martin and G. Billingsley
3-Sep-13

Radius of curvature of TS
Gap between TS and part to be measured
Zernike power coefficient
Part measured aperture

Wavefront "sag" at part plus power

Part radius

	m	Random Check of Individual Files						Average of all good files at each rotation			6m_SR2-03, from Ave_All_0deg		
		6m_SR2-03-	6m_SR2-03-	6m_SR2-03-	6m_SR2-03-	6m_SR2-03-	6m_SR2-03-	0 deg	90 deg	225 deg	Effect of Zernike Z[3]	Effect of ROC-TS tol.	Effect of Gap
Radius of curvature of TS	m	0.010	0.017	0.095	90.022	90.070	225.012	-6.49886	-6.49886	-6.49886	Z[3]max=0.001204	Z[3]min=-0.003489	ROC-TS min ROC-TS max +1mm -1mm
Gap between TS and part to be measured	m	-6.49886	-6.49886	-6.49886	-6.49886	-6.49886	-6.49886	-6.49886	-6.49886	-6.49886	-6.49886	-6.49886	-6.49886
Zernike power coefficient	nm	0.07442	0.07442	0.07442	0.07462	0.07462	0.07462	0.07442	0.07442	0.07462	0.07442	0.07442	0.07542
Part measured aperture	mm	0.32	-1.53	0.09	-0.04	0.17	-0.98	0.75	-1.10	0.40	0.05	1.28	-3.71
Wavefront "sag" at part plus power	mm	50.274	50.274	50.274	50.274	50.274	50.274	50.274	50.274	50.274	50.274	50.274	50.274
Part radius	m	-6.4245	-6.4240	-6.4245	-6.4242	-6.4243	-6.4240	-6.4244	-6.4242	-6.4243	-6.4248	-6.4235	-6.4209
		-6.4243		-6.4243		-6.4242		-6.4243		-6.4243	-0.62	0.68	3.22
				-6.4243							-4.8	4.9	-3.21
													Difference (mm)

Specified Radius	m	-6.43
	(+/-0.03)	-6.40 -6.46

Meas. ROC (m)			
-6.4243	+/-	4.9 mm	

SR2-03

- Measured on 8-Sep-2011 at CIT with Wyko interferometer by R. Martin and G. Billingsley
- Measured Gap = 70 mm (+ 4.62 mm)
- The optic was measured at 0 deg (arrow up), 90 deg (arrow right) and arrow at 225 deg cw, all when looking at the HR side of the optic
- Transmission Sphere Data File - C1203092
- Related Surface Figure report - E1200548