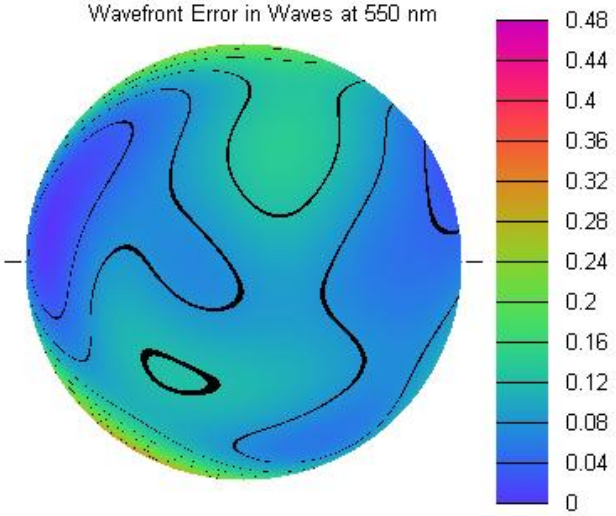
FringeXP Test Report

Mirror Description: 6in Flats - unit "A"
Test Bench results indicate 1/8 wave
Tested by: F.Glick
Date: 12-21-2006

At 550 nm: RMS Wavefront Error = 1/27.1 waves
Strehl Ratio = 0.948

RMS Surface Error = 10.14 nm
P-V Wavefront Error = 1/3.216 waves

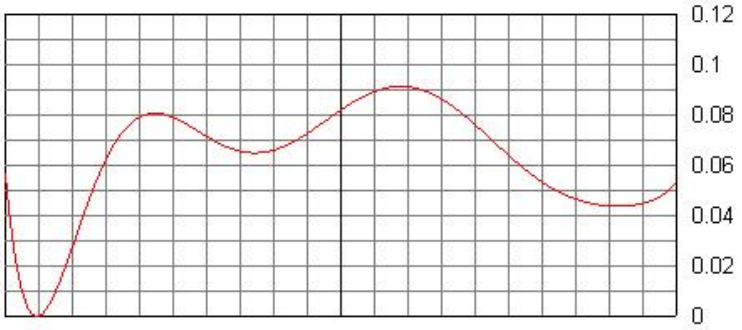
Wavefront Error in Waves at 550 nm



Zernike Coefficients

	X	Y		
Z0	3.94		Removed	Piston
Z1, Z2	4.4	-0.0714	Removed	Tilt
Z3	-0.00159			Defocus
Z4, Z5	-0.0581	-0.0322		Astigmatism
Z6, Z7	-0.0118	0.00732		Coma
Z8	0.0158			Sph. Ab.
Z9, Z10	0.0186	0.0326		
Z11, Z12	-0.00156	0.014		
Z13, Z14	-0.0117	-0.00405		
Z15	0.0316			
Z16, Z17	-0.00879	0.0177		
Z18, Z19	0.0286	-0.00155		
Z20, Z21	-0.0184	-0.00231		
Z22, Z23	-0.0255	0.014		
Z24	0.011			

Wavefront Error in Waves at 550 nm



Other Data

Interferogram Wavelength = 550 nm
Target Conic Constant = 0
Mirror Diameter = 152.4 mm
Best Fit Conic Constant = 2.193e13
Mirror RoC = 1.524e8 mm
Total Fringe Points = 181
RMS Zernike Fit Error = 0.02474 waves
Number of Fringes = 17
Fringe Spacing = 0.5 waves