




data :=  E:\.\010814acgh.prn

olddata :=  E:\.\010814acgh.prn

flag := 0

surfdata :=  E:\.\Lens2srf.prn

oldflag := 0

Decenter data

$$\text{data}^{(0)} := \text{data}^{(0)} + \text{newdecenter}$$

$$\text{olddata}^{(0)} := \text{olddata}^{(0)} + \text{olddecenter}$$

- Surface Parameters _____
- Function describing probe trace _____
- Calc surface touch points _____
- Fit touchpoints to function _____
- Sag eqn _____
- Genfit function setup _____
- Calc Surface Function _____

$$\text{meassurf} = \begin{pmatrix} 3.191697 \times 10^0 \\ -2.058323 \times 10^{-1} \\ 4.994566 \times 10^{-10} \\ -9.535593 \times 10^{-13} \\ 0.000000 \times 10^0 \\ 0.000000 \times 10^0 \end{pmatrix}$$

CURRENT

TOL ≡ .002

$$\text{oldmeassurf} = \begin{pmatrix} 3.191352 \times 10^0 \\ -2.043429 \times 10^{-1} \\ 5.200307 \times 10^{-10} \\ -1.022543 \times 10^{-12} \\ 0.000000 \times 10^0 \\ 0.000000 \times 10^0 \end{pmatrix}$$

Previous

measrad = 313.3129 mm This is the measured vertex radius of the part oldrad = 313.3469 mm

measconic = -0.2058 This is the measured conic of the part oldconic = -0.2043

The last 4 entries in these vectors are the 4th, 6th, 8th and 10th order coefficients normalize to the aperture.

Calc residuals from function _____

Input the surface parameters to compare with the data (R, K). To compare with the nominal values, make R=rad, K=conic. To compare with the measured R & K, make R=measrad, K=measconic. Otherwise, just type in numbers for R & K.

R := rad + .0·mm

K := conic + .000

R = 312.5800 mm

K = -0.249000

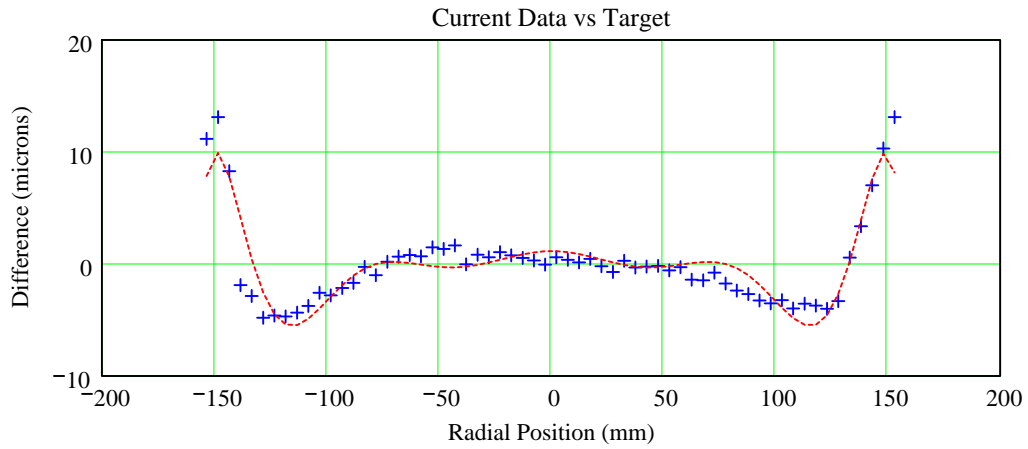
Measurement of Profile

8/22/01

Conjugate distances

Calculate error from target

This plot shows the deviation of the current data from the target sphere (tilt removed):

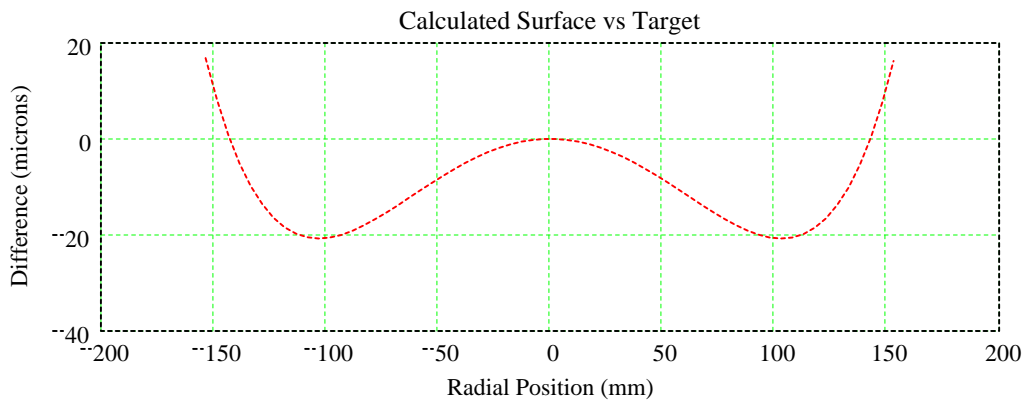


PtoV(DIF2) = 17.9262 μ

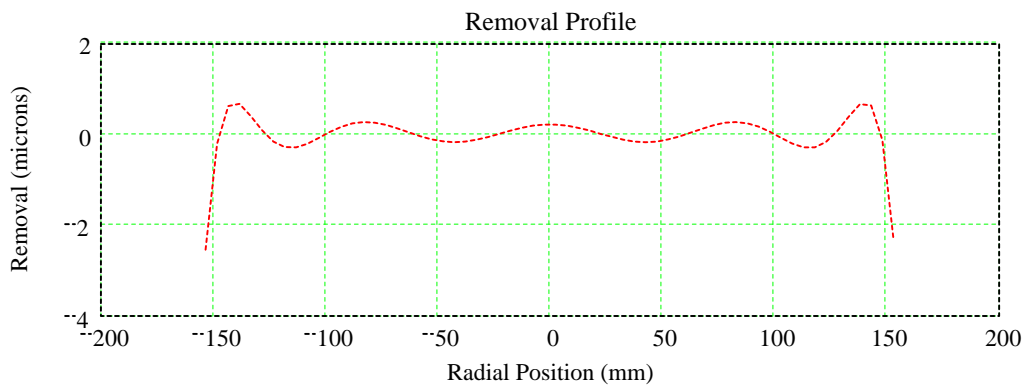
RMS(DIF2) = 3.9674 μ

newdecenter \equiv -0.15

This plot compares the current asphere fit to the data with the target asphere:



This plot is the difference of the new data and the old data, a measure of removal:



olddecenter \equiv -0.1