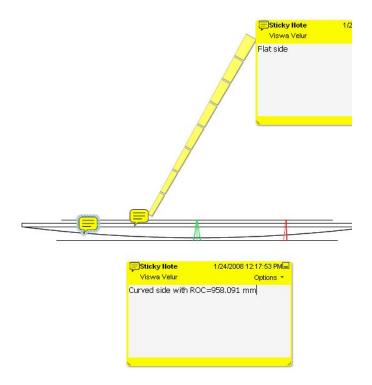
MOSAIC field-flattener specs:

Mechanical alignment issues:

- 1. Tilt tolerances when aligning = +/- 1 deg.
- 2. De-centration = \pm 1 mm

Optical properties for manufacturing the field-flattener

- 1. ROC1= 965 +/- 20 mm on side 1
- 2. ROC2 = infinity
- 3. Clear aperture size = 220 x 150 mm (we probably can accommodate one circular piece with dia. = 220mm if we need to)
- 4. Center thickness = 10 + /-0.1 mm
- 5. Material: Grade-A fine annealed fused silica (striae free)
- 6. Surface Figure (S1 & S2) = better than lambda/10 over clear aperture (RMS)
- 7. AR coating = less than 0.5% per surface for each of the 2 surfaces from 0.40 0.75 um
- 8. Surface Quality (S1 & S2) = 40-20 scratch-dig
- 9. Chamfer on lens circumference = 0.5 mm face width x 45° maximum



Filter specs:

- 1. Filter thickness = 5.08 mm (is 3 mm possible?) (+/- 0.1 mm tolerance)
- 2. F/# of the incoming beam at the filter = 2.4712
- 3. Filter clear aperture = $220 \times 150 \text{ mm}$ (+/- 0.1 mm tolerance)
- 4. Filter material = Grade A annealed fused silica (striae free)
- 5. Spectral response = same as prototype interference filter (see figure)
- 6. Surface Flatness (S1 & S2) = better than lambda/10 over clear aperture.
- 7. AR coating = less than 0.5% per surface for each of the 2 surfaces from 0.40 0.75 um
- 8. Surface Quality (S1 & S2) = 40-20 scratch-dig
- 9. Chamfer on lens circumference = 0.5 mm face width x 45° maximum

