

Reflectivity measurement

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|--------------------------|--|-----|
| Equipment: | uscan reflectometer | |
| Mirror: | WHT Primary mirror - right & left side, telescope in AP3 | |
| Person: | Juerg Rey, Tibor Agocs | |
| Date: | 20/12/2006 | |
| Lambda (micron): | 0.67 | |
| Incident angle (degree): | 25 | |
| BW (Bandwidth) limits: | 1 | 0.1 |

| No# | BPDF - 0°,0° detector position | BPDF - 50°,180° detector position | reflectivity | rms (Ångstrom) | time | date |
|---------------------|---|--|--------------|-------------------|----------|------------|
| 3 | 4.22E-03 | 7.79E-04 | 0.818 | 56.7 | 11:37:37 | 12-20-1906 |
| 4 | 2.91E-03 | 5.10E-04 | 0.796 | 48.6 | 11:37:47 | 12-20-1906 |
| 5 | 4.99E-03 | 1.12E-03 | 0.753 | 60.7 | 11:39:01 | 12-20-1906 |
| 6 | 7.87E-03 | 1.54E-03 | 0.779 | 77.9 | 11:39:09 | 12-20-1906 |
| 7 | 1.22E-02 | 2.19E-03 | 0.767 | 100.5 | 11:39:18 | 12-20-1906 |
| 8 | 2.58E-03 | 3.45E-04 | 0.79 | 51.6 | 11:39:25 | 12-20-1906 |
| 9 | 3.07E-03 | 6.15E-04 | 0.768 | 48.7 | 11:39:32 | 12-20-1906 |
| 10 | 8.93E-03 | 1.64E-03 | 0.784 | 84.4 | 11:39:39 | 12-20-1906 |
| 11 | 5.81E-03 | 1.01E-03 | 0.834 | 67.2 | 11:39:47 | 12-20-1906 |
| 12 | 4.06E-03 | 5.97E-04 | 0.836 | 60 | 11:39:55 | 12-20-1906 |
| 13 | 5.52E-03 | 1.27E-03 | 0.825 | 60.7 | 11:40:02 | 12-20-1906 |
| 14 | 4.53E-03 | 7.81E-04 | 0.716 | 64.2 | 11:40:33 | 12-20-1906 |
| 15 | 7.63E-03 | 1.26E-03 | 0.776 | 81.4 | 11:40:40 | 12-20-1906 |
| 16 | 5.37E-03 | 1.42E-03 | 0.791 | 59.4 | 11:40:49 | 12-20-1906 |
| 17 | 5.68E-03 | 1.02E-03 | 0.781 | 67.9 | 11:40:57 | 12-20-1906 |
| 18 | 4.64E-03 | 1.05E-03 | 0.825 | 55.9 | 11:41:05 | 12-20-1906 |
| 19 | 2.78E-03 | 7.15E-04 | 0.763 | 43.7 | 11:41:13 | 12-20-1906 |
| 20 | 3.19E-03 | 7.13E-04 | 0.773 | 48 | 11:41:23 | 12-20-1906 |
| 21 | 4.29E-03 | 1.00E-03 | 0.81 | 53.8 | 11:41:34 | 12-20-1906 |
| 22 | 4.52E-03 | 9.45E-04 | 0.809 | 56.9 | 12:06:37 | 12-20-1906 |
| 23 | 4.51E-03 | 9.22E-04 | 0.809 | 57.2 | 12:06:42 | 12-20-1906 |
| 24 | 4.40E-03 | 9.40E-04 | 0.777 | 56.9 | 12:06:48 | 12-20-1906 |
| 25 | 4.21E-03 | 9.43E-04 | 0.756 | 55.8 | 12:06:55 | 12-20-1906 |
| 26 | 4.83E-03 | 9.99E-04 | 0.827 | 58.2 | 12:11:13 | 12-20-1906 |
| 27 | 4.85E-03 | 1.00E-03 | 0.839 | 58 | 12:11:19 | 12-20-1906 |
| 28 | 4.86E-03 | 1.01E-03 | 0.825 | 58.5 | 12:11:24 | 12-20-1906 |
| 29 | 4.86E-03 | 1.00E-03 | 0.827 | 58.4 | 12:11:29 | 12-20-1906 |
| 30 | 4.89E-03 | 1.01E-03 | 0.843 | 58.2 | 12:11:34 | 12-20-1906 |
| average | 5.078E-03 | 1.012E-03 | 0.796 | 61.050 | | |
| standard dev | 2.016E-03 | 3.695E-04 | 0.032 | 12.142 | | |

Notes:

RMS - Root Mean Square surface roughness in Angstrom,
 BPDF - Bidirectional scatter distribution function, it is equal to the scattered power per unit solid angle normalized by the incident power and $\cos\theta$