

Reflectivity measurement

Equipment:	uscan reflectometer	
Mirror:	WHT Primary mirror - 4 reflectivity ports, telescope in zenith position	
Person:	Juerg Rey, Tibor Agocs	
Date:	05/12/2006	
Lambda (micron):	0.67	
Incident angle (degree):	25	
BW (Bandwidth) limits:	1	0.1

No#	BSDF - 0°,0° detector position	BSDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
REFL Port1 - left seen from AP3						
1	8.74E-03	2.17E-03	0.839	74.4	10:38:50	12/05/1906
2	1.94E-02	5.52E-03	0.847	107.4	10:39:03	12/05/1906
3	5.15E-03	8.98E-04	0.881	61.5	10:39:18	12/05/1906
4	5.20E-03	1.04E-03	0.89	58.8	10:39:31	12/05/1906
REFL Port2 - upper seen from AP3						
5	2.82E-03	3.08E-04	0.856	58.1	10:41:04	12/05/1906
6	4.04E-03	6.75E-04	0.815	57.5	10:41:17	12/05/1906
7	3.08E-03	4.50E-04	0.884	51	10:41:25	12/05/1906
8	1.52E-02	4.87E-03	0.848	93.4	10:41:34	12/05/1906
REFL Port3 - righth seen from AP3						
9	4.54E-03	6.98E-04	0.862	61.3	10:43:05	12/05/1906
10	5.35E-03	8.81E-04	0.824	66.2	10:43:14	12/05/1906
11	2.42E-03	3.73E-04	0.849	45.1	10:43:22	12/05/1906
12	8.16E-03	1.26E-03	0.905	80	10:43:34	12/05/1906
REFL Port4 - lower seen from AP3						
13	4.86E-03	6.56E-04	0.879	66.7	10:44:31	12/05/1906
14	4.39E-03	7.26E-04	0.867	58.4	10:44:41	12/05/1906
15	2.24E-03	2.57E-04	0.883	49.4	10:44:53	12/05/1906
average	6.365E-03	1.386E-03	0.862	65.947		
standard dev	4.852E-03	1.621E-03	0.025	16.809		

Notes:

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