

Reflectivity measurement - reference mirror

Equipment:	uscan reflectometer	
Mirror:	reference mirror	
Person:	Tibor Agocs	
Date:	28/11/2006	
Lambda (micron):	0.67	
Incident angle (degree):	25	
BW (Bandwidth) limits:	1	0.1

28/11/2006 before cleaning

No#	BPDF - 0°,0° detector position	BPDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
1	1.60E-03	5.67E-04	0.925	28.7	10:31:02	11-28-1906
2	1.17E-03	5.19E-04	0.851	25.1	10:31:16	11-28-1906
3	3.01E-03	1.16E-03	0.873	40.1	10:31:27	11-28-1906
4	4.28E-03	1.38E-03	1.034	44.9	10:31:36	11-28-1906
5	3.16E-03	6.99E-04	0.766	48.1	10:31:47	11-28-1906
average	2.644E-03	8.647E-04	0.890	37.380		
standard dev	1.258E-03	3.835E-04	0.099	10.062		

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 $\cos\theta$