

Reflectivity measurement - reference mirror

Equipment:	uscan reflectometer	
Mirror:	reference mirror	
Person:	Tibor Agocs	
Date:	30/11/2006	
Lambda (micron):	0.67	
Incident angle (degree):	25	
BW (Bandwidth) limits:	1	0.1

30/11/2006 before

No#	BPDF - 0°,0° detector position	BPDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
1	2.66E-03	1.22E-03	0.964	35.5	10:18:17	11-30-1906
2	2.31E-03	1.71E-03	0.945	32.8	10:18:26	11-30-1906
3	6.22E-03	1.74E-03	0.931	58.3	10:18:35	11-30-1906
average	3.731E-03	1.556E-03	0.947	42.200		
standard dev	2.161E-03	2.933E-04	0.017	14.008		

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 $\cos\theta$