

Reflectivity measurement - reference mirror

Equipment:	uscan reflectometer	
Mirror:	reference mirror	
Person:	Tibor Agocs	
Date:	29/11/2006	
Lambda (micron):	0.67	
Incident angle (degree):	25	
BW (Bandwidth) limits:	1	0.1

29/11/2006 before cleaning

No#	BPDF - 0°,0° detector position	BPDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
1	7.94E-03	3.73E-03	0.943	61.8	09:36:32	11-29-1906
2	3.40E-03	3.05E-03	0.948	39.8	09:36:43	11-29-1906
3	7.80E-03	3.13E-03	0.933	62.3	09:36:54	11-29-1906
average	6.381E-03	3.303E-03	0.941	54.633		
standard dev	2.580E-03	3.715E-04	0.008	12.848		

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 $\cos\theta$