

Reflectivity measurement

Equipment:	uscan reflectometer		
Mirror:	Reference mirror		
Person:	Tibor Agocs		
Date:	29/10/2007		
Lambda (micron):	0.67		
Incident angle (degree):	25		
BW (Bandwidth) limits:	1	0.1	

reference mirror

No#	BPDF - 0°,0° detector position	BPDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
53	1.69E-03	1.26E-03	0.96	27.9	10:50:33	10-29-2007
54	1.71E-03	1.26E-03	0.962	28	10:50:37	10-29-2007
55	1.73E-03	1.26E-03	0.969	28	10:50:41	10-29-2007
56	3.52E-03	2.20E-03	0.956	40.3	10:50:50	10-29-2007
57	3.52E-03	2.21E-03	0.958	40.3	10:50:55	10-29-2007
58	3.52E-03	2.22E-03	0.965	40.2	10:50:59	10-29-2007
average	2.614E-03	1.734E-03	0.962	34.117		
standard dev	9.894E-04	5.207E-04	0.005	6.737		

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 $\cos\theta$