

Reflectivity measurement

Equipment:	uscan reflectometer	
Mirror:	Reference mirror	
Person:	Tibor Agocs, Neil O'Mahony	
Date:	04/10/2007	
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
1	4.46E-03	2.02E-03	0.961	45.9	08:45:19	10/04/2007
2	4.51E-03	2.03E-03	0.964	46.2	08:45:24	10/04/2007
average	4.481E-03	2.026E-03	0.963	46.050		
standard dev	3.606E-05	5.657E-06	0.002	0.212		

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 $\cos\theta$