

Reflectivity measurement

Equipment:	uscan reflectometer	
Mirror:	Reference mirror	
Person:	Tibor Agocs	
Date:	22/06/2007	
Lambda (micron):	0.67	
Incident angle (degree):	25	
BW (Bandwidth) limits:	1	0.1

No#	BSDF - 0°,0° detector position	BSDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
1	1.37E-03	1.26E-03	0.917	25.700	08:50:38	06-22-1907
2	1.51E-03	1.27E-03	0.956	26.400	08:50:43	06-22-1907
3	1.50E-03	1.29E-03	0.956	26.300	08:50:48	06-22-1907
4	4.14E-03	2.06E-03	0.933	44.700	08:50:56	06-22-1907
5	4.06E-03	2.19E-03	0.922	44.300	08:51:01	06-22-1907
6	3.97E-03	2.47E-03	0.918	43.800	08:51:06	06-22-1907
7	2.39E-03	7.39E-04	0.943	35.400	08:51:39	06-22-1907
8	2.36E-03	7.48E-04	0.937	35.100	08:51:43	06-22-1907
9	2.31E-03	7.45E-04	0.934	34.700	08:51:48	06-22-1907
average	2.622E-03	1.420E-03	0.935	35.156		
standard dev	1.142E-03	6.660E-04	0.015	7.860		

Notes:

RMS - Root Mean Square surface roughness in Angstrom,

BSDF - Bidirectional scatter distribution function, it is equal to the scattered power per unit solid angle normalized by the incident power and $\cos\theta$