Reflectivity measurement - reference mirror

Equipment:	uscan reflectometer	
Mirror:	**reference mirror**	
Person:	Tibor Agocs	
Date:	22/07/2008	
Lambda (micron):	0.67	
Incident angle (degree):	25	
BW (Bandwidth) limits:	1	0.1

Reference mirror

No#	BSDF - 0°,0° detector position	BSDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
1	3.35E-03	3.38E-03	0.921	40.2	08:47:25	07-22-2008
2	3.24E-03	3.40E-03	0.938	39.2	08:47:30	07-22-2008
3	3.26E-03	3.39E-03	0.941	39.2	08:47:35	07-22-2008
4	2.56E-03	1.98E-03	0.885	35.7	08:47:47	07-22-2008
5	2.53E-03	1.97E-03	0.899	35.3	08:47:52	07-22-2008
6	2.52E-03	1.95E-03	0.912	34.9	08:47:57	07-22-2008
7	4.16E-03	2.06E-03	0.957	44.2	08:48:10	07-22-2008
9	4.23E-03	2.21E-03	0.976	44.1	08:48:20	07-22-2008
10	8.91E-03	2.62E-03	0.942	68.8	08:48:33	07-22-2008
11	8.93E-03	2.62E-03	0.95	68.6	08:48:38	07-22-2008
12	8.91E-03	2.62E-03	0.96	68.1	08:48:42	07-22-2008
13	3.05E-03	1.16E-03	0.966	38.5	08:48:52	07-22-2008
14	3.08E-03	1.16E-03	0.933	39.4	08:48:57	07-22-2008
15	3.09E-03	1.16E-03	0.903	40.1	08:49:01	07-22-2008
17	1.99E-03	1.05E-03	0.953	30.6	08:49:22	07-22-2008
18	2.66E-03	1.58E-03	0.951	35.2	08:49:28	07-22-2008
average	**4.154E-03**	**2.143E-03**	**0.937**	**43.881**		
standard dev	**2.430E-03**	**8.116E-04**	**0.026**	**12.682**		

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