Reflectivity measurement - before, after vapour washing JKT primary mirror

Equipment:	uscan reflectometer	
Mirror:	JKT Primary mirror	
Person:	Juerg Rey	
Date:	03/01/2008	
Lambda (micron):	0.67	
Incident angle (degree):	25	
BW (Bandwidth) limits:	1	0.1

JKT primary mirror - before vapour washing

No#	BSDF - 0°,0° detector position	BSDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
1	7.05E-02	3.19E-02	0.621	227.5	10:38:40	01/03/2008
2	6.73E-02	3.20E-02	0.619	221.8	10:38:59	01/03/2008
3	6.98E-02	3.40E-02	0.606	228	10:39:11	01/03/2008
4	6.70E-02	3.17E-02	0.63	219.5	10:39:25	01/03/2008
5	7.50E-02	3.69E-02	0.582	241	10:39:35	01/03/2008
6	6.61E-02	3.23E-02	0.624	218.5	10:39:48	01/03/2008
7	6.64E-02	3.14E-02	0.627	219	10:40:11	01/03/2008
8	6.79E-02	2.98E-02	0.639	220.4	10:40:52	01/03/2008
9	6.82E-02	3.12E-02	0.616	224.3	10:41:10	01/03/2008
10	6.21E-02	2.75E-02	0.656	208	10:41:20	01/03/2008
11	7.00E-02	3.19E-02	0.618	227.1	10:41:29	01/03/2008
12	7.02E-02	3.47E-02	0.637	222.9	10:41:40	01/03/2008
13	6.89E-02	3.01E-02	0.649	220.3	10:41:56	01/03/2008
average	**6.841E-02**	**3.193E-02**	**0.625**	**222.946**		
standard dev	**3.000E-03**	**2.334E-03**	**0.019**	**7.510**		

JKT primary mirror - after vapour washing

No#	BSDF - 0°,0° detector position	BSDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
14	1.18E-02	1.82E-03	0.854	99.3	11:29:48	01/03/2008
15	1.11E-02	1.65E-03	0.835	99.1	11:29:58	01/03/2008
16	7.26E-03	9.03E-04	0.85	86.6	11:30:08	01/03/2008
17	2.12E-02	3.97E-03	0.82	126.1	11:30:21	01/03/2008
18	1.05E-02	1.48E-03	0.834	98.5	11:30:31	01/03/2008
19	1.13E-02	1.65E-03	0.849	99.5	11:30:41	01/03/2008
20	1.25E-02	1.77E-03	0.829	107.4	11:30:56	01/03/2008
21	6.46E-03	7.04E-04	0.855	88.2	11:31:07	01/03/2008
22	1.20E-02	1.53E-03	0.839	111.1	11:31:18	01/03/2008
23	7.05E-03	7.64E-04	0.852	92.7	11:31:33	01/03/2008
24	1.09E-02	1.55E-03	0.831	100.2	11:31:43	01/03/2008
25	9.54E-03	1.38E-03	0.857	91.6	11:31:51	01/03/2008
average	**1.096E-02**	**1.596E-03**	**0.842**	**100.025**		
standard dev	**3.811E-03**	**8.399E-04**	**0.012**	**10.895**		

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