

Reflectivity measurement - before, after vapour washing INT primary mirror

Equipment:	uscan reflectometer		
Mirror:	INT Primary mirror		
Person:	Juerg Rey, Neil O'Mahony, Tibor Agocs		
Date:	13/12/2007		
Lambda (micron):	0.67		
Incident angle (degree):	25		
BW (Bandwidth) limits:	1	0.1	

INT mirror - before vapour washing

No#	BSDF - 0°,0° detector position	BSDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
1	1.95E-02	1.15E-02	0.812	103.3	10:54:06	12-13-1907
2	1.98E-02	1.13E-02	0.812	104.2	10:54:10	12-13-1907
3	1.99E-02	1.13E-02	0.815	104.4	10:54:15	12-13-1907
4	1.27E-02	6.50E-03	0.838	82.6	10:54:30	12-13-1907
5	1.33E-02	6.51E-03	0.849	84.2	10:54:34	12-13-1907
6	1.36E-02	6.44E-03	0.837	85.6	10:54:39	12-13-1907
7	1.28E-02	5.70E-03	0.855	82.5	10:54:48	12-13-1907
8	1.31E-02	5.67E-03	0.84	84.5	10:54:53	12-13-1907
9	1.34E-02	5.73E-03	0.841	85.3	10:54:58	12-13-1907
10	1.75E-02	7.55E-03	0.819	99	10:55:17	12-13-1907
11	1.85E-02	7.50E-03	0.814	102.5	10:55:22	12-13-1907
12	1.82E-02	7.39E-03	0.812	101.8	10:55:27	12-13-1907
13	1.19E-02	5.05E-03	0.842	80.5	10:55:36	12-13-1907
14	1.22E-02	5.06E-03	0.828	82.4	10:55:41	12-13-1907
15	1.22E-02	5.06E-03	0.825	82.5	10:55:46	12-13-1907
16	2.29E-02	1.23E-02	0.793	113.6	10:55:55	12-13-1907
17	2.36E-02	1.26E-02	0.803	114.7	10:56:00	12-13-1907
18	2.38E-02	1.24E-02	0.807	115.1	10:56:05	12-13-1907
19	1.40E-02	5.47E-03	0.848	87.8	10:56:31	12-13-1907
20	1.77E-02	1.03E-02	0.802	99	10:56:38	12-13-1907
21	2.42E-02	1.65E-02	0.775	117.3	10:56:46	12-13-1907
22	2.45E-02	1.68E-02	0.772	118.4	10:56:52	12-13-1907
23	1.48E-02	5.96E-03	0.853	89.7	10:57:02	12-13-1907
24	1.50E-02	6.60E-03	0.826	91	10:57:09	12-13-1907
25	1.39E-02	4.48E-03	0.839	89.8	10:57:19	12-13-1907
26	1.77E-02	6.25E-03	0.822	101.3	10:57:32	12-13-1907
27	1.77E-02	6.20E-03	0.824	101.3	10:57:37	12-13-1907
average	1.697E-02	8.294E-03	0.822	96.456		
standard dev	4.168E-03	3.534E-03	0.022	12.324		

INT mirror - after vapour washing

No#	BSDF - 0°,0° detector position	BSDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
1	3.02E-03	4.81E-04	0.882	48.7	14:31:21	12-13-1907
2	3.01E-03	4.82E-04	0.88	48.6	14:31:25	12-13-1907
3	3.00E-03	4.82E-04	0.879	48.4	14:31:30	12-13-1907
4	1.08E-03	1.29E-04	0.884	33.3	14:31:40	12-13-1907
5	1.04E-03	1.26E-04	0.88	32.8	14:31:44	12-13-1907
6	1.04E-03	1.26E-04	0.884	32.7	14:31:48	12-13-1907

7	8.42E-04	1.06E-04	0.888	28.8	14:31:55	12-13-1907
8	8.56E-04	1.07E-04	0.885	29.1	14:31:59	12-13-1907
9	8.67E-04	1.08E-04	0.887	29.3	14:32:03	12-13-1907
10	5.27E-03	1.24E-03	0.863	57.7	14:32:48	12-13-1907
11	5.25E-03	1.23E-03	0.862	57.7	14:32:52	12-13-1907
12	5.25E-03	1.23E-03	0.862	57.7	14:32:57	12-13-1907
13	8.47E-03	1.76E-03	0.865	75.4	14:33:07	12-13-1907
14	8.45E-03	1.75E-03	0.859	75.6	14:33:12	12-13-1907
15	8.46E-03	1.75E-03	0.86	75.6	14:33:16	12-13-1907
16	1.15E-02	2.08E-03	0.85	92.5	14:33:24	12-13-1907
17	1.15E-02	2.09E-03	0.85	92.2	14:33:28	12-13-1907
18	1.15E-02	2.09E-03	0.852	91.9	14:33:33	12-13-1907
19	1.03E-03	1.86E-04	0.879	27.3	14:33:47	12-13-1907
20	1.02E-03	1.90E-04	0.879	26.8	14:33:51	12-13-1907
21	1.02E-03	1.95E-04	0.878	26.5	14:33:56	12-13-1907
22	3.76E-03	6.56E-04	0.887	52.4	14:34:03	12-13-1907
23	3.76E-03	6.56E-04	0.882	52.5	14:34:07	12-13-1907
24	3.76E-03	6.56E-04	0.886	52.4	14:34:12	12-13-1907
25	1.32E-03	1.98E-04	0.877	33	14:34:22	12-13-1907
26	1.33E-03	2.03E-04	0.878	33.1	14:34:26	12-13-1907
average	4.128E-03	7.805E-04	0.874	50.462		
standard dev	3.643E-03	7.273E-04	0.012	21.784		

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