

## Reflectivity measurement

Equipment:	uscan reflectometer		
Mirror:	<b>WHT Primary mirror</b>		
Person:	Tibor Agocs		
Date:	22/05/2007		
Lambda (micron):	0.67		
Incident angle (degree):	25		
BW (Bandwidth) limits:	1	0.1	

No#	BPDF - 0°,0° detector position	BPDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
10	4.59E-03	2.99E-03	0.876	48.100	10:04:22	05-22-1907
11	4.69E-03	3.09E-03	0.875	48.700	10:04:27	05-22-1907
12	4.74E-03	3.16E-03	0.882	48.700	10:04:31	05-22-1907
13	2.68E-03	7.99E-04	0.878	39.000	10:04:40	05-22-1907
14	2.67E-03	7.97E-04	0.876	39.000	10:04:44	05-22-1907
15	2.67E-03	7.94E-04	0.879	38.900	10:04:49	05-22-1907
16	3.41E-03	2.80E-03	0.884	41.300	10:05:06	05-22-1907
17	3.41E-03	2.81E-03	0.885	41.200	10:05:11	05-22-1907
18	3.41E-03	2.80E-03	0.884	41.200	10:05:16	05-22-1907
19	3.25E-03	2.11E-03	0.870	40.600	10:05:27	05-22-1907
20	3.25E-03	2.12E-03	0.866	40.700	10:05:32	05-22-1907
21	3.25E-03	2.11E-03	0.873	40.500	10:05:37	05-22-1907
22	3.68E-03	2.33E-03	0.864	43.400	10:05:54	05-22-1907
23	3.66E-03	2.32E-03	0.863	43.300	10:05:59	05-22-1907
24	3.65E-03	2.32E-03	0.865	43.200	10:06:04	05-22-1907
25	3.62E-03	1.74E-03	0.863	43.500	10:06:11	05-22-1907
26	5.17E-03	2.74E-03	0.859	51.900	10:06:16	05-22-1907
27	5.14E-03	2.73E-03	0.860	51.700	10:06:20	05-22-1907
28	5.12E-03	2.71E-03	0.860	51.600	10:06:25	05-22-1907
<b>average</b>	<b>3.792E-03</b>	<b>2.276E-03</b>	<b>0.872</b>	<b>44.026</b>		
<b>standard dev</b>	<b>8.481E-04</b>	<b>7.577E-04</b>	<b>0.009</b>	<b>4.570</b>		

### 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  $\cos\theta$