

**Reflectivity measurement -  
WHT Primary reflectivity measurement when T/S at Zenith**

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

**WHT Primary mirror**

No#	BSDF - 0°,0° detector position	BSDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date	comment
19	1.12E-02	5.38E-03	0.769	81.1	09:30:39	07-22-2008	Port 1
20	1.12E-02	5.37E-03	0.776	80.7	09:30:44	07-22-2008	
21	1.12E-02	5.38E-03	0.79	79.9	09:30:49	07-22-2008	
22	1.22E-02	5.00E-03	0.827	82.6	09:30:58	07-22-2008	
23	1.22E-02	5.03E-03	0.828	82.5	09:31:03	07-22-2008	
24	1.22E-02	5.04E-03	0.826	82.7	09:31:08	07-22-2008	
25	1.19E-02	6.08E-03	0.761	83.7	09:32:01	07-22-2008	Port 2
26	1.18E-02	6.07E-03	0.791	81.8	09:32:06	07-22-2008	
27	1.18E-02	6.07E-03	0.792	81.8	09:32:11	07-22-2008	
28	1.10E-02	4.33E-03	0.833	78.4	09:32:21	07-22-2008	
29	1.10E-02	4.34E-03	0.803	79.7	09:32:26	07-22-2008	
30	1.09E-02	4.35E-03	0.821	78.7	09:32:31	07-22-2008	
31	9.88E-03	5.28E-03	0.771	75.7	09:33:16	07-22-2008	Port 3
32	9.84E-03	5.29E-03	0.828	72.9	09:33:21	07-22-2008	
33	9.89E-03	5.31E-03	0.776	75.5	09:33:26	07-22-2008	
34	1.05E-02	4.54E-03	0.832	76.2	09:33:36	07-22-2008	
35	1.06E-02	4.55E-03	0.824	76.7	09:33:41	07-22-2008	
36	1.06E-02	4.57E-03	0.829	76.5	09:33:46	07-22-2008	
37	1.27E-02	5.39E-03	0.803	85.3	09:34:30	07-22-2008	Port 4
38	1.27E-02	5.48E-03	0.817	84.4	09:34:35	07-22-2008	
39	1.28E-02	5.52E-03	0.812	84.9	09:34:40	07-22-2008	
40	1.03E-02	5.42E-03	0.827	74.7	09:34:49	07-22-2008	
41	1.03E-02	5.42E-03	0.837	74.2	09:34:54	07-22-2008	
<b>average</b>	<b>1.124E-02</b>	<b>5.183E-03</b>	<b>0.808</b>	<b>79.591</b>			
<b>standard dev</b>	<b>9.415E-04</b>	<b>5.345E-04</b>	<b>0.024</b>	<b>3.709</b>			

Notes:

RMS - Root Mean Square surface roughness in Angstrom,  
BSDF - Bidirectional scatter distribution function, it is equal to the scattered power per unit solid