

SMS Reflectometer measurements before and after CO2 cleaning of WHT Nasmyth flat mirror
 16 March 2015. Cleaning and report by Neil.
 Measurements usually performed in pairs to check 0.05% repeatability.

Lambda	0.67 micron	
Incident Angle	25 deg	<--SMS Summary characteristics
BW Limits	1 0.01	

Measurements before cleaning

datum #	Scattering at angles Θ, Φ			Reflect-ivity	user comm-ent	Rough-ness RMS(Å)	TIME	DATE
	Θ s->	0	50					
	Φ s->	0	180					
250	loc 1	1.56E-02	6.03E-03	0.809		94.7	11:18:42	03-16-2015
251		1.56E-02	6.04E-03	0.806		95	11:18:48	03-16-2015
252	loc 2	1.49E-02	6.16E-03	0.81		92	11:18:57	03-16-2015
253		1.48E-02	6.15E-03	0.808		92	11:19:02	03-16-2015
254	loc 3	1.63E-02	7.38E-03	0.799		96.3	11:19:14	03-16-2015
averages		1.56E-02	6.52E-03	0.806		94.3		

Measurements after cleaning

255	loc 1	1.08E-02	2.15E-03	0.828		87.9	15:08:58	03-16-2015
256		1.09E-02	2.18E-03	0.827		88.6	15:09:04	03-16-2015
257	loc 2	6.68E-03	1.27E-03	0.832		70	15:09:49	03-16-2015
258		6.69E-03	1.27E-03	0.832		70.1	15:09:54	03-16-2015
259	loc 3	7.29E-03	1.61E-03	0.826		70.4	15:11:22	03-16-2015
260		7.29E-03	1.60E-03	0.824		70.6	15:11:27	03-16-2015
261		7.29E-03	1.60E-03	0.825		70.6	15:11:34	03-16-2015
averages		8.25E-03	1.68E-03	0.829		76.1		

Improvement in Reflectivity of	2.3 %	
Improvement in Scattering by factors	1.9 (at 0,0) to	3.9
Improvement in Surface Roughness of	19%	