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## **Scattering Meter Calibration Sheet**

2/25/2016
Wavelength: 440

S/N BB2FLB-1408

Use the following equation to obtain "scaled" output values:

$\beta(\theta_c) \text{ m}^{-1} \text{ sr}^{-1} = \text{Scale Factor } \times \text{(Output - Dark Counts)}$					
• Scale Factor for 440 nm	=	1.226E-05	(m <sup>-1</sup> sr <sup>-1</sup> )/c	ounts	
Output	=	meter reading	counts		
Dark Counts	= 47 counts				
Instrument Resolution	=	1.2	counts	1.52E-05 (m <sup>-1</sup> sr <sup>-1</sup> )	

Definitions:

- Scale Factor: Calibration scale factor,  $\beta(\theta_c)$ /counts. Refer to User's Guide for derivation.
- Output: Measured signal output of the scattering meter.
- Dark Counts: Signal obtained by covering detector with black tape and submersing sensor in water.

Instrument Resolution: Standard deviation of 1 minute of collected data.