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Scattering Meter Calibration Sheet

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Wavelength: 510 S/N BB9-132

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

$\beta(\theta_c) \text{ m}^{-1} \text{ sr}^{-1} = \text{Scale Factor } x \text{ (Output - Dark Counts)}$

• Scale Factor for 510 nm = 1.767E-05 (m⁻¹sr⁻¹)/counts

Output = meter reading counts

• Dark counts = 52 counts

Instrument Resolution = 0.9 counts 1.54E-05 (m⁻¹sr⁻¹)

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.