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WET Labs

Scattering Meter Calibration Sheet

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Wavelength: 440   S/N BB9-132

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

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

- **Scale Factor for 400 nm**   =   2.167E-05 $(m^{-1}sr^{-1})$/counts
- **Output**   =   meter reading   counts
- **Dark Counts**   =   47 counts

  Instrument Resolution   =   1.8   counts   3.99E-05 $(m^{-1}sr^{-1})$

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.