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Scattering Meter Calibration Sheet

3/14/2019

Wavelength: 700

S/N FLBBAP2-5503

Use the following equation to obtain either digital or analog "scaled" output values:

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

- **Scale Factor for 700 nm** = 1.642E-06 (m⁻¹sr⁻¹)/counts
- **Output** = meter output counts
- **Dark Counts** = 34 counts
- Instrument Resolution = 1.0 counts

Definitions:

- **Scale Factor:** Calibration scale factor, $\beta(\theta_c)/\text{counts}$. 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.