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Scattering Meter Calibration Sheet

07/30/05 Customer: MBARI
Wavelength: 470 S/N#: BB2F-227 Job #: 506030 Tech: cw

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

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

• Scale Factor for 470 nm	=	2.48E-05 (counts)
• Output	=	meter reading (counts)
• Dark Counts	=	54 (counts)
Instrument Resolution	=	0.3 (counts) 3.24E-01 (m ⁻¹ sr ⁻¹)

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.