



Scattering Meter Calibration Sheet

11/04/05

Customer: Moss Landing Marine Lab

Wavelength: 700

S/N#: BB2FB-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 700 nm** = 3.58E-06 (counts)
- **Output** = meter reading (counts)
- **Dark Counts** = 47 (counts)

Instrument Resolution = 0.2 (counts) 1.84E-01 ($\text{m}^{-1} \text{sr}^{-1}$)

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.