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Scattering Meter Calibration Sheet

12/17/2014 Wavelength: 700

S/N FLNTU-873

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

| $\beta(\theta_c) \text{ m}^{-1} \text{ sr}^{-1} = \text{Scale Factor } \times \text{(Output - Dark Counts)}$ | | | |
|--|---|--|---|
| Scale Factor for 700 nm | = | 3.599E-06 (m ⁻¹ sr ⁻¹)/counts | 2.911E-03 (m ⁻¹ sr ⁻¹)/volts |
| • Output | = | meter output counts | meter output volts |
| Dark Counts | = | 58 counts | 0.195 volts |
| Instrument Resolution | = | 1.0 counts 0.7762 mV | 3.60E-06 (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.