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# Scattering Meter Calibration Sheet

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Wavelength: 650 S/N BB2FLMBA-1133

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

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

| | | | | |
|---|---|---|---|---|
| • **Scale Factor for 650 nm** | = | 3.949E-06 | $(m^{-1}sr^{-1})$/counts | |
| • **Output** | = | meter reading | counts | |
| • **Dark Counts** | = | 46 | counts | |
| Instrument Resolution | = | 1.3 | counts | 4.97E-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.

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