PO Box 518
620 Applegate St.
Philomath, OR 97370

(541) 929-5650
Fax (541) 929-5277
www.wetlabs.com

# WET Labs

# Scattering Meter Calibration Sheet

10/20/2016
Wavelength: 650                                                                S/N BB3-1502

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

$$\beta(\theta_c) \ m^{-1} \ sr^{-1} = \textcolor{red}{\textbf{Scale Factor}} \ x \ (\textbf{Output - Dark Counts})$$

- **Scale Factor for 650 nm**    =         3.569E-06  $(m^{-1}sr^{-1})$/counts
- **Output**                     =     meter reading   counts
- **Dark Counts**                =              46  counts

  Instrument Resolution      =        1.1       counts       3.80E-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.