PO Box 518 620 Applegate St. Philomath, OR 97370



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

## **Scattering Meter Calibration Sheet**

10/20/2016

Wavelength: 470 S/N BB3-1502

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

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

• Scale Factor for 470 nm = 1.066E-05 (m<sup>-1</sup>sr<sup>-1</sup>)/counts

Output = meter reading counts

Dark Counts= 50 counts

Instrument Resolution = 1.4 counts 1.50E-05 (m<sup>-1</sup>sr<sup>-1</sup>)

## 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.

BB3-1502 Revision S 10/4/07