WET Labs

Scattering Meter Calibration Sheet

2/19/2019
Wavelength: 700   S/N BBFL2IRB-5498

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

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

- **Scale Factor for 700 nm**   =   3.562E-06 $(m^{-1}sr^{-1})$/counts
- **Output**   =   meter reading   counts
- **Dark Counts**   =   41 counts

  Instrument Resolution   =   1.1   counts   3.96E-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.