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Scattering Meter Calibration Sheet

8/18/2004

Customer: Emmanuel Boss

Wavelength: 660

S/N#: BBRT-142r

Job #: 408006

Tech: K.C.

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

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

Scale Factor for 660 nm =

3.91E-06 (counts)

3.20E-03 (volts)

Output

meter output (counts)

meter output (volts)

Dark Counts

70 (counts)

0.094 (volts)

Instrument Resolution

0.0504 (counts)

1.97E-06 (m⁻¹ sr⁻¹)

0.5039 (volts)

Definitions:

- Scale Factor: Calibration scale factor, β(θc)/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.