

## Scattering Meter Calibration Sheet

3/23/2016

Wavelength: 412

S/N BB9-279

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

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

• **Scale Factor for 412 nm** = 2.969E-05 (m<sup>-1</sup>sr<sup>-1</sup>)/counts

• **Output** = meter reading counts

• **Dark counts** = 53 counts

Instrument Resolution = 1.8 counts 5.25E-05 (m<sup>-1</sup>sr<sup>-1</sup>)

Definitions:

- **Scale Factor:** Calibration scale factor,  $\beta(\theta_c)/\text{counts}$ . 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.

## Scattering Meter Calibration Sheet

3/23/2016

Wavelength: 440

S/N BB9-279

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

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

• **Scale Factor for 440 nm** = 1.226E-05 (m<sup>-1</sup>sr<sup>-1</sup>)/counts

• **Output** = meter reading counts

• **Dark Counts** = 58 counts

Instrument Resolution = 1.4 counts 1.72E-05 (m<sup>-1</sup>sr<sup>-1</sup>)

### Definitions:

- **Scale Factor:** Calibration scale factor,  $\beta(\theta_c)/\text{counts}$ . 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.

## Scattering Meter Calibration Sheet

3/23/2016

Wavelength: 488

S/N BB9-279

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

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

- **Scale Factor for 488 nm** = 1.210E-05 (m<sup>-1</sup>sr<sup>-1</sup>)/counts
- **Output** = meter reading counts
- **Dark counts** = 54 counts

Instrument Resolution = 1.1 counts 1.33E-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.

## Scattering Meter Calibration Sheet

3/23/2016

Wavelength: 510

S/N BB9-279

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

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

- **Scale Factor for 510 nm** = 8.293E-06 (m<sup>-1</sup>sr<sup>-1</sup>)/counts
- **Output** = meter reading counts
- **Dark counts** = 60 counts

Instrument Resolution = 1.3 counts 1.09E-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.



## Scattering Meter Calibration Sheet

3/23/2016

Wavelength: 532

S/N BB9-279

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

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

• **Scale Factor for 532 nm** = 8.098E-06 (m<sup>-1</sup>sr<sup>-1</sup>)/counts

• **Output** = meter reading counts

• **Dark Counts** = 57 counts

Instrument Resolution = 1.0 counts 8.12E-06 (m<sup>-1</sup>sr<sup>-1</sup>)

Definitions:

- **Scale Factor:** Calibration scale factor,  $\beta(\theta_c)/\text{counts}$ . 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.

## Scattering Meter Calibration Sheet

3/23/2016

Wavelength: 595

S/N BB9-279

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

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

- **Scale Factor for 595 nm** = 5.758E-06 (m<sup>-1</sup>sr<sup>-1</sup>)/counts
- **Output** = meter reading counts
- **Dark counts** = 57 counts

Instrument Resolution = 1.1 counts 6.22E-06 (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.



## Scattering Meter Calibration Sheet

3/23/2016

Wavelength: 660

S/N BB9-279

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

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

- **Scale Factor for 660 nm** = 3.576E-06 (m<sup>-1</sup>sr<sup>-1</sup>)/counts
- **Output** = meter reading counts
- **Dark Counts** = 57 counts

Instrument Resolution = 1.4 counts 5.01E-06 (m<sup>-1</sup>sr<sup>-1</sup>)

### Definitions:

- **Scale Factor:** Calibration scale factor,  $\beta(\theta_c)/\text{counts}$ . 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.



## Scattering Meter Calibration Sheet

3/23/2016

Wavelength:676

S/N#: BB9-279

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

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

- **Scale Factor for 676 nm** = 4.128E-06 (m<sup>-1</sup>sr<sup>-1</sup>)/counts
- **Output** = meter reading counts
- **Dark counts** = 54 counts

Instrument Resolution = 1.0 counts 4.21E-06 (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.





## Scattering Meter Calibration Sheet

3/23/2016

Wavelength: 715

S/N BB9-279

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

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

• **Scale Factor for 715nm** = 3.426E-06 (m<sup>-1</sup>sr<sup>-1</sup>)/counts

• **Output** = meter reading counts

• **Dark Counts** = 56 counts

Instrument Resolution = 1.2 counts 4.15E-06 (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.