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C-Star Calibration

Date April 30, 2008

S/N#

CST-1117DR

Pathlength 25 cm

Analog meter

0.063 V 4.774 V

Temperature of calibration water 4.671 V

Ambient temperature during calibration

air

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21.1 °C 25.1 °C

Relationship of transmittance (Tr) to beam attenuation coefficient (c), and pathlength (x): $Tr = e^{-cx}$

To determine beam transmittance: **Tr = (V**slg - V_{dark}) / (V_{ref} - V_{dark})

To determine beam attenuation coefficient: c = -1/x * In (Tr)

Meter output with the beam blocked. This is the offset. Meter output in air with a clear beam path.

< air

Meter output with clean water in the path.

Temperature of calibration water: temperature of clean water used to obtain V_{ref}.

Ambient temperature: meter temperature in air during the calibration.

Measured signal output of meter.