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Pathlength 25ct

C-Star Calibration

Date	3.25.16	S/N#	CST-1115DR		raumengui 250m	MICHIGANI AND
b	ž – 1		Analog output	•		
V_{d}			0.057 V			
V_{air}			4.786 V			
V _{ref}			4.683 V			
	erature of calibration wate	r		**	21.9 °C	
	ent temperature during cal				22.4 °C	

Relationship of transmittance (Tr) to beam attenuation coefficient (c), and pathlength (x, in meters): $Tr = e^{-cx}$ To determine beam transmittance: $Tr = (V_{sig} - V_{dark}) / (V_{ref} - V_{dark})$ To determine beam attenuation coefficient: c = -1/x * In (Tr)

V_d Meter output with the beam blocked. This is the offset.

Vair Meter output in air with a clear beam path.

V_{ref} Meter output with clean water in the path.

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

Ambient temperature: meter temperature in air during the calibration.

V_{sig} Measured signal output of meter.