These are all in amps measured from the photodiode. This is the amount of light which passes through the polarizer, through the tube with the substance inside but no sample, and into the photodiode which sits opposite the laser and has no slit and thus captures the entire beam’s power.

flux\_i\_air\_vertical = 0.0005400 \* 100e-6

flux\_i\_air\_horizontal = 0.002304 \* 100e-6

flux\_i\_water\_vertical = 0.0005135 \* 100e-6

flux\_i\_water\_horizontal = 0.0017000 \* 100e-6

flux\_i\_mineral\_oil\_vertical = 0.000556 \* 100e-6

flux\_i\_mineral\_oil\_horizontal = 0.002330 \* 100e-6

amps per volt during measurements (multiply the data by this to get amps)

sensitivity = 100 \* 1e-9

Slit dimensions and distance (to be used to get a BRDF in terms of fractional flux per solid angle)

These are in inches.

distance\_from\_sample\_to\_photodiode = 5.435

photodiode\_height = 0.450

photodiode\_width = 0.075