Panel: _____

Single cell dimensions _____ (meas) cm x _____ (meas) cm
= [ ] (calc) cm^2 area

Connections between cells? How many cells? _____

cell: 

Draw a diagram:

Panel: _____

Single cell dimensions _____ (meas) cm x _____ (meas) cm
= [ ] (calc) cm^2 area

Cell connections? How many cells? _____
diagram:

Lamp name: _____

Rated input power _____ (info) watts(W) Actual input power _____ (meas) W

Rated brightness _____ (info) lumens (lm) Light irradiance _____ (meas) W/m^2

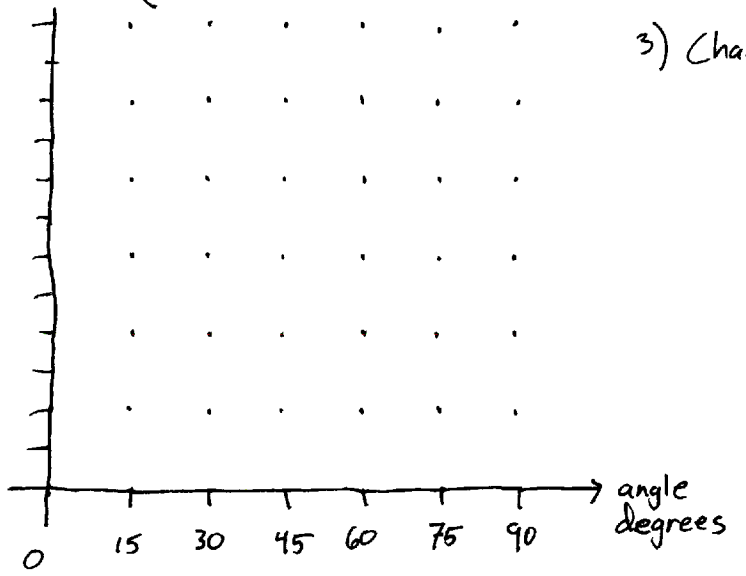
Lamp to panel distance _____ (meas) inches → X 2.54 = _____ (calc) cm

Panel temperature _____ (meas) °C (# cells in panel: _____)

Open circuit voltage _____ (meas) volts(V) → [ ] (calc) volts/cell

Short circuit current vs. angle (measure)

I_{s-c} (mA)



1) Measure flat, short-circuit current, (the max) (0°)
2) Decide your y-axis scale
3) Change angle and plot points

(single cell area _____ cm^2)

$$\frac{I_{\text{short-circuit, max}}}{\text{cell area}} = \frac{\text{_____ mA}}{\text{_____ } cm^2} = \text{_____ (calc)} \ mA/cm^2$$

Lamp name: _____

Rated input power _____ (info) W Actual input power _____ (meas) W

Rated brightness _____ (info) lm Light irradiance _____ (meas) W/m^2

Lamp to panel distance _____ (meas) in × 2.54 = _____ (calc) cm

Panel temperature _____ °C

Open circuit voltage _____ (meas) V → _____ (calc) V/cell

Flat (0°) short-circuit current _____ (meas) mA

☐ block panel slowly from one direction

☐ block slowly from 90° direction