

Name: _____

Date: _____

Partner: _____

Basic Constants →

Analysis

What did you plot?

_____ vs. _____

Record your “linest” results:

Slope: _____ ± _____

Intercept: _____ ± _____

W	cm
H	cm
R	Ω
P_{bulb}	8.5 W
$V_{\text{background (average)}}$	mV
D_{aperture}	cm
D_{bulb}	cm
L_{track}	cm
Screen position	cm
Screen to bulb	cm
x_{source}	cm

Efficiency Calculations near $r = 100$ cm: →

- Why do you think your result for n wasn't exactly -2.0 ?
- _____
- _____
- _____
- _____
- _____

Ω_{aperture}	
P_{aperture}	W
r	cm
$\Omega_{\text{PV cell}}$	
$P_{\text{into PV cell}}$	μW
$P_{\text{out to resistor}}$	μW
η	
η	%