

Date_____Room Temp. _____BP (Barometric Pressure)_____Department_____
Group Number_____Student Number_____Name_____Grade_____

**APP02. Verification of Malus's Law Using a
Smartphone**

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(1) Record the illuminance

Angle increment of second polarizer (θ)	0°	10°	20°	30°	40°
$\cos^2\theta$					
Illuminance(LUX)					

Angle increment of second polarizer (θ)	50°	60°	70°	80°	90°
$\cos^2\theta$					
Illuminance(LUX)					

(2) Create $\cos^2\theta$ vs. illuminance chart in Excel and calculate R-squared value

$R^2 =$ _____