The logo of the University of Guadalajara is centered in the background. It features a purple cross at the top, a banner with the text "UNIVERSIDAD DE GUADALAJARA", and a shield with a tree and two lions. The shield is flanked by the words "PIENSA Y" and "TRABAJA".

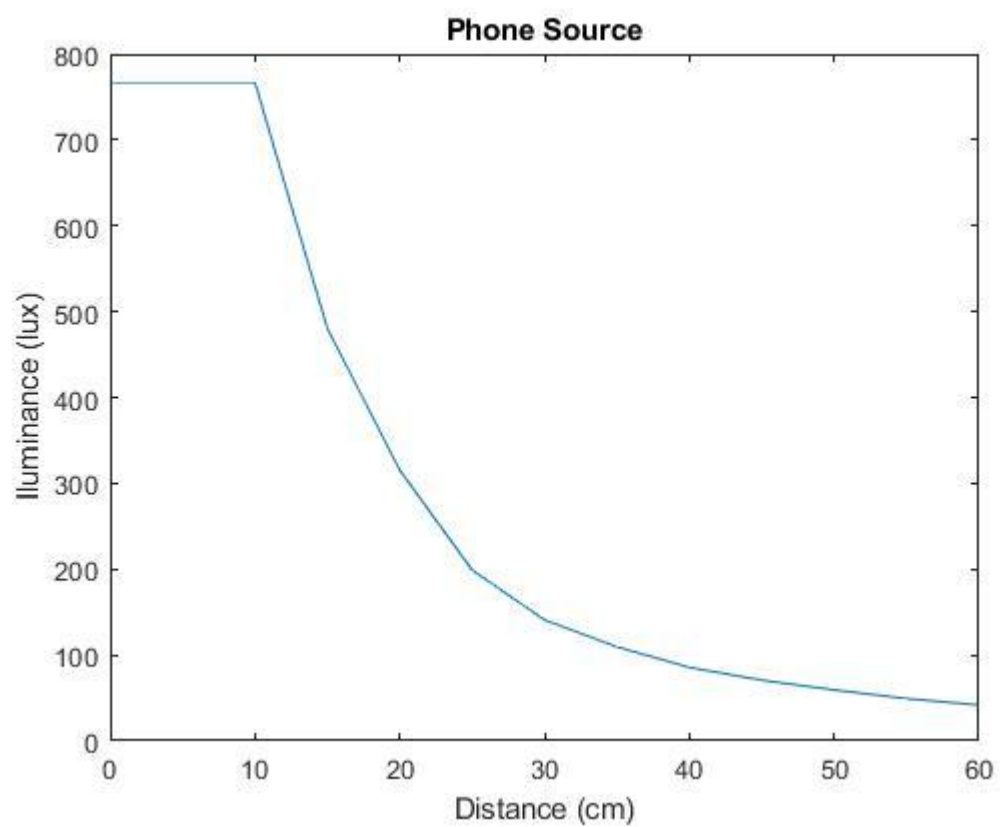
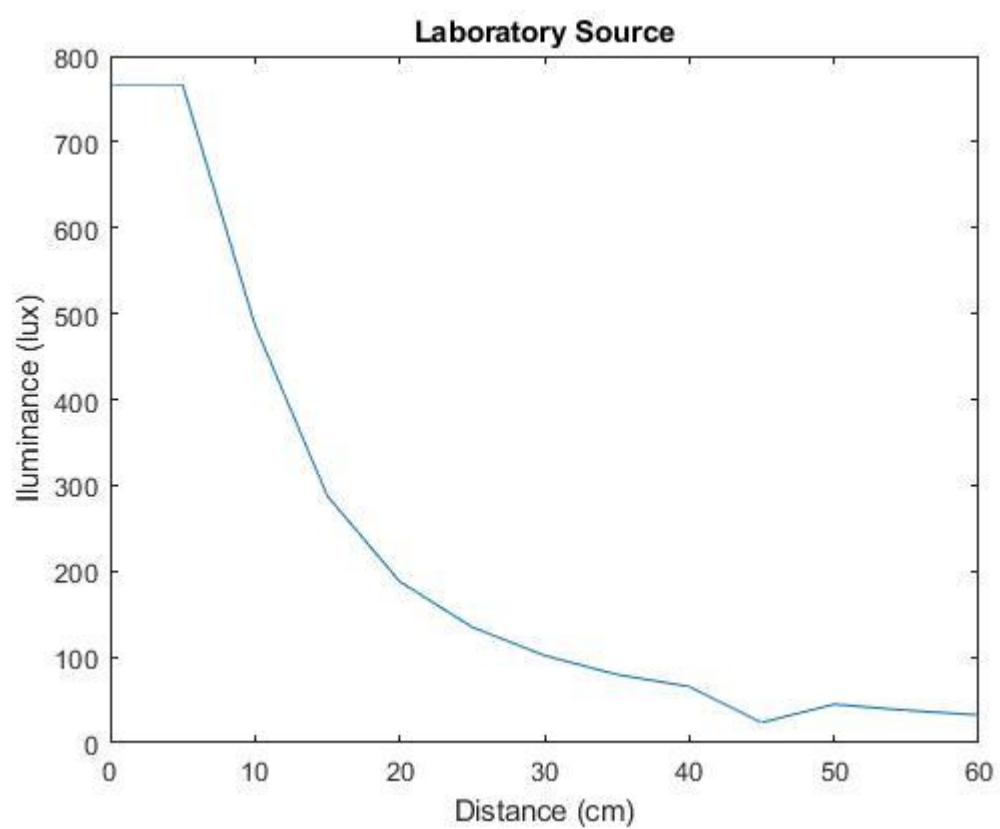
# Gráficas de intensidad luminosa vs posición

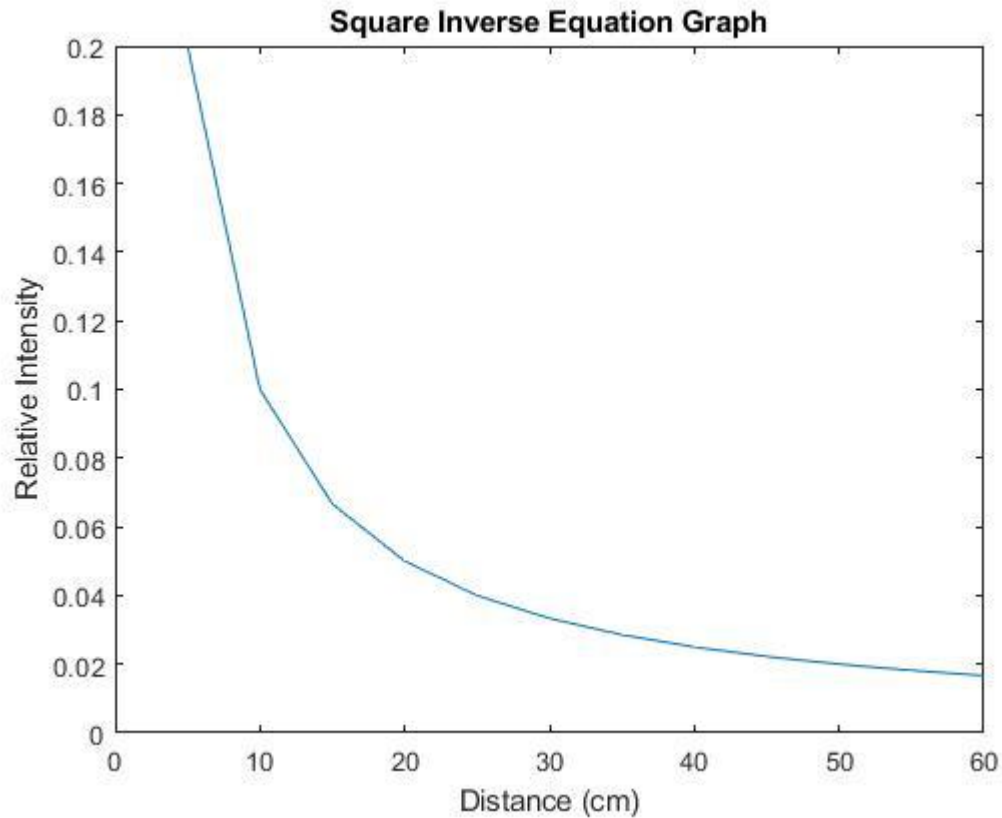
Laboratorio de Caracterización Óptica

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Docente: Almaguer Gómez Citlalli

## Gráficas





## Código

```

1 - clear all; close all hidden; clc;
2
3 - D=[0 5 10 15 20 25 30 35 40 45 50 55 60];
4 - Iluminancia=[767.1 767.1 486.6 287.6 187.9 134.8 101.8 79.5 65.5 23.7 44.9 37.9 32.4];
5 - Iluminancia2=[767.1 767.1 767.1 480.5 315.3 199.0 140.8 109.5 85.6 70.7 59.3 49.2 41.7];
6 - I=1./(D.^1);
7 - E=I./(D.^2);
8
9 - figure(1)
10 - plot(D,Iluminancia); hold on;
11 - title('Laboratory Source');
12 - ylabel('Iluminance (lux)'); xlabel('Distance (cm)');
13
14 - figure(2)
15 - plot(D,Iluminancia2); hold on;
16 - title('Phone Source');
17 - ylabel('Iluminance (lux)'); xlabel('Distance (cm)');
18
19 - figure(3)
20 - plot(D,I); hold on;
21 - title('Square Inverse Equation Graph');
22 - ylabel('Relative Intensity'); xlabel('Distance (cm)');
23
24
25
26

```