Merijumu datu apstrade 1.laboratorijas darbs

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Darba merki

Iemacities apstradat merijumu datus

Iemacities veidot atskaites ar matlab report generator

Iemacities izmantot polyfit, polyval un citas funkcijas grafiku zimesana

Dotais grafiks

http://

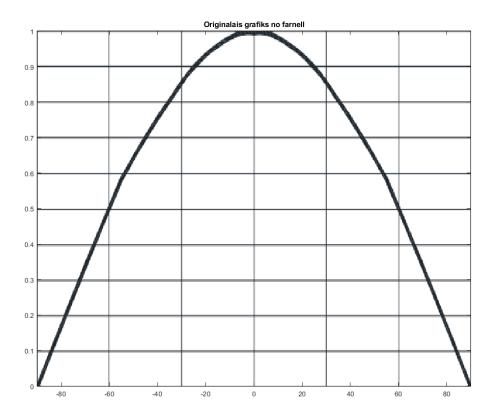
www.farnell.com/datasheet-

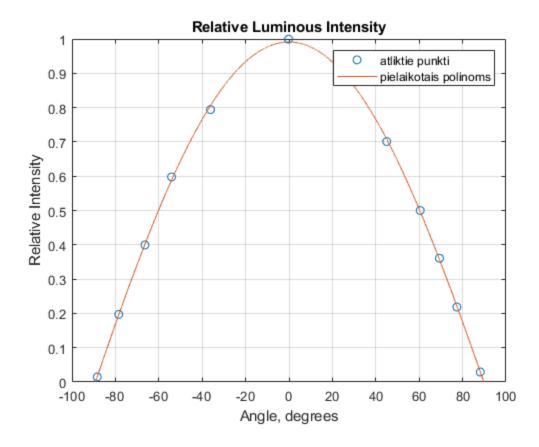
<u>s/2047854.pdf?</u> ga=2.28300345.469827753.1581723424-1639765143.1581723424&_gac=1.128082302.1581723424.Cjw CAiAp5nyBRABEiwApTwjXjyobXYhqOwEiidK-5u6Iq4GH4fIAJ1rHTbEIXCul3kjUx58gisfLhoCcH8QAvD_BwE

FIG.6 FAR FIELD PATTERN

Darba programma

```
A = imread('grafiks_nogriezts.png');
figure(1),image([-90,90],[1,0],A);
set(gca,'Ydir','normal')
title('Originalais grafiks no farnell');
[x,y] = ginput(12);
x1 = -90:0.01:90;
C = polyfit(x,y,4);
y1 = polyval(C,x1);
figure(2),plot(x,y,'o',x1,y1);
ylim([0 1]);
grid on;
title('Relative Luminous Intensity');
xlabel('Angle, degrees');
ylabel('Relative Intensity');
figure(2),legend('atliktie punkti','pielaikotais polinoms');
```





Secinajumi

Darba merki ir izpilditi, iemacijos apstradat datus un lietot pamata funkcijas grafiku zimesana, piemeram, plot, ginput, imread, figure utt.. Problemas sagadaja grafika zimesana ar pielaikoto polinomu, jo nez kapec reizem tika uzplotots grafiks, bet y ass sakas no -0.2, nevis no 0 ka tas noteikts, kaut gan grafika likne zem 0 negaja. Tas tika salabots ar ylim funkciju, kas ierobezoja y vajadzigajas robezas no 0 lidz 1. Rezultata pielaikota polinoma grafiks sakrita ar originalo likni no datasheeta.

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