```
countsfar1 = Import["20141122_single_slit_far.csv"];
      countsfar1;
      ListPlot[countsfar1, AxesLabel → {Distance (mm), Counts}];
 ln[5]:= \theta = (x - x0) / R;
      \alpha = \pi * a * Sin[\theta] / \lambda;
      \beta = \pi * d * \sin[\theta] / \lambda;
     i_2 = \frac{i0}{4} * (\operatorname{Sinc}[\alpha])^2;
      x0 = 5.8;
      a = 0.085;
      d = 0.343;
      R = 500;
      \lambda = .000546;
In[18]:= fitfar1 = NonlinearModelFit[countsfar1, i2, {i0}, x];
      plotfar1 = Plot[fitfar1[x], {x, -10, 10}];
      plotfarb = Plot[0.21642509498661616 (575.4539524532704 + 0.0023980364459083407)]
           \operatorname{Sinc}\left[489.0757794050044 \operatorname{Sin}\left[\frac{1}{500} \left(-5.8 + \mathbf{x}\right)\right]\right]^{2}, \left\{\mathbf{x}, 0, 10\right\}, \operatorname{PlotStyle} \rightarrow \operatorname{Red}\right];
      Show[ListPlot[countsfar1], plotfarb, AxesLabel → {Distance [mm], Counts}]
      Counts
      140
      120
       80
Out[21]=
       40
```