$$N = 1899 \text{ pixels}$$

$$N_{cal} = 1580 \text{ pixels}$$

$$\Delta x = \frac{h}{N_{cal}} = \frac{52 \text{ cm}}{1580 \text{ pixels}}$$

$$\Delta x \approx 0.033 \text{ cm/pixel}$$

$$L = N \Delta x = (1899)(0.033)$$

$$= 62.67 \text{ cm}$$

$$\Delta k = \frac{2\pi}{L} = \frac{2\pi}{62.67 \text{ cm}} \approx 0.100 \text{ cm}^{-1}$$

$$K = (810 - \sim 790)(\sim 0.100 \text{ cm}^{-1})$$

$$K \approx 2 \text{ cm}^{-1}$$

$$\lambda = \frac{2\pi}{L}$$

