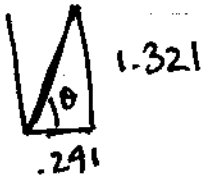


$$\frac{F}{L}_{net} = .241 \times 10^{-3} \hat{x} + 1.321 \times 10^{-3} \hat{y}$$

$$\left| \frac{F}{L} \right| = \sqrt{(.241)^2 + (1.321)^2} \times 10^{-3} = 1.343 \times 10^{-3} \frac{N}{m}$$



$$\theta = \tan^{-1} \left(\frac{1.321}{.241} \right) = 79.66^\circ$$

above positive
x axis