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$W = 7314 \text{ J}$
 $W = F_x d$
 $F_x = \frac{W}{d}$
 $= \frac{7314}{77} = 94.99 \text{ N}$

$F = 124 \text{ N}$
 $d = 77 \text{ m}$
 $\cos \theta = \frac{F_x}{F}$
 $\theta = \cos^{-1} \left(\frac{94.99}{124} \right)$
 $\theta = 40^\circ$

May 9-10:24 AM