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SOLUTION. Length and Moment Arm: The length of the differential element is $dL = \sqrt{2 dx^2 + dy^2} = \sqrt{2} dx$. Here, $dy = 2x dx$. Centroid: Due to symmetry $\bar{x} = 0$. Applying Eq. 9-7 and performing the integration, we have $\bar{y} = \frac{1}{L} \int_0^L y dL$. $L = 2 \text{ ft}$; $\bar{y} = \frac{2}{3} \text{ ft}$; $\bar{x} = 0$.

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