



$R = 30\text{mm}$
 $L = 50\text{mm}$
 $2\pi R = 2 \times 3.142 \times 30 = 188.52\text{mm}$
 $0-90^\circ = \frac{90}{360} \times 188.52 = 47.1\text{mm}$
 $0-150^\circ = \frac{150}{360} \times 188.52 = 78.5\text{mm}$
 $0-210^\circ = \frac{210}{360} \times 188.52 = 110\text{mm}$
 $0-270^\circ = \frac{270}{360} \times 188.52 = 141.4\text{mm}$
 $0-360^\circ = \frac{360}{360} \times 188.52 = 188.52\text{mm}$

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