

EBONG PRINCE VINCENT

ELECTRICAL ELECTRONICS

181ENG04/028

ENG 232

Calculation

Radius of cam = 30mm //

$$r = 30\text{mm}$$

$$\therefore 2rc$$

$$= 2 \times 27 \times 30$$

$$= 188.50\text{mm}$$

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for $0^\circ - 90^\circ$

$$i) \Rightarrow \frac{90^\circ}{360^\circ} \times 188.5$$

$$= 47.12\text{mm} //$$

ii) for $90^\circ - 150^\circ$

$$\Rightarrow \frac{60^\circ}{360^\circ} \times 188.50\text{mm}$$

$$= 31.42\text{mm} //$$

iii) for $150^\circ - 210^\circ$

$$= \frac{60^\circ}{360^\circ} \times 188.50\text{mm}$$

$$= 31.42\text{mm}$$

iv) for $270^\circ - 360^\circ$

$$= \frac{90^\circ}{360^\circ} \times 188.50\text{mm}$$

$$= 47.12\text{mm} //$$

IP/ENGO4/028

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