I_{in} - wyściowe $\quad \alpha = \frac{\pi}{2N}$

$$I_{k+1} = I_k \cos^2 \alpha$$

$$I_{out} = I_{in} \cos^{2N}\left(\frac{\pi}{2N}\right)$$

dla $N \to \infty$

$$I_{out} = I_{in}\left(1 - \left(\frac{\pi}{2N}\right)^2\right)^{2N} = I_{in}\left(1 - \frac{\pi^2}{2N}\right) = I_{in}$$

$$I_{out} = I_{in}$$

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