

Let & be the distance along path ABD lais distance along ACD.

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$$Z_{ACD} = \frac{i\pi}{f_2} \left[\frac{i\pi}{f_2} \right] = \frac{1}{2} \left[\frac{i\pi l_2}{2} \right]$$

Probability of a photon agricing at CM2:
$$P_{pm2} = \left(\frac{2}{4} + \frac{2}{4} + \frac$$

(Gets)
$$P_{em2} = Sin^2 \left[\frac{K(l_1 - l_2)}{2} \right]$$