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Phaseshift:

$$\Delta\varphi = \eta k \cdot \Delta d = 2\pi \frac{d}{\lambda} \sin(\vartheta) = 2\pi \eta \frac{2d}{\lambda} \cos(\beta) = 2\pi \frac{2d}{\lambda} \sqrt{\eta^2 - \sin^2(\alpha)} = 2\pi n \quad (1)$$