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Phaseshift:

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