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|---------------------|---|---|
| refractive index | $n := 1.458$ | |
| wedge angle, deg | $\theta_w := 0.5$ | |
| wedge angle, rad | $\theta_{\text{wrad}} := \theta_w \cdot \frac{\pi}{180}$ | $\theta_{\text{wrad}} = 8.727 \times 10^{-3}$ |
| incident angle, deg | $\theta_{\text{in}} := 56$ | |
| internal angle 1 | $\theta_1 := \text{asin}\left(\frac{\sin\left(56 \cdot \frac{\pi}{180}\right)}{n}\right)$ | $\theta_1 = 0.605$ |
| output angle, deg | $\theta_o := \text{asin}\left(n \cdot \sin(\theta_1 - \theta_{\text{wrad}})\right) \cdot \frac{180}{\pi}$ | $\theta_o = 54.939$ |
| deviation, deg | $\Delta\theta := \theta_{\text{in}} - \theta_w - \theta_o$ | $\Delta\theta = 0.561$ |