Refractive index = 1.5

Beam 1 of 10: incident angle $\theta_1 = 8.0$, out angle $\theta_4 = 42.84516914957982$

Beam 2 of 10: incident angle $\theta_1 = 13.0$, out angle $\theta_4 = 39.589754998369955$

Beam 3 of 10: incident angle $\theta_1 = 18.0$, out angle $\theta_4 = 36.36741298202984$

Beam 4 of 10: incident angle $\theta_1 = 23.0$, out angle $\theta_4 = 33.194554757048095$

Beam 5 of 10: incident angle $\theta_1 = 28.0$, out angle $\theta_4 = 30.08861490386353$

Beam 6 of 10: incident angle $\theta_1 = 33.0$, out angle $\theta_4 = 27.068421973244632$

Beam 7 of 10: incident angle $\theta_1 = 38.0$, out angle $\theta_4 = 24.154549279910817$

Beam 8 of 10: incident angle $\theta_1 = 43.0$, out angle $\theta_4 = 21.369623976415024$

Beam 9 of 10: incident angle $\theta_1 = 48.0$, out angle $\theta_4 = 18.738555525596478$

Beam 10 of 10: incident angle $\theta_1 = 53.0$, out angle $\theta_4 = 16.288622919304277$