

X-FOCUS

$$\frac{1}{R_{OUT}} = \left(m \frac{\lambda_2}{\lambda_1} \left(\frac{\cos^2 \theta_{obj}}{R_{obj}} + \frac{\cos^2 \theta_{ref}}{R_{ref}} \right) + \frac{\cos^2 \theta_{ill}}{R_{ill}} \right) \div \cos^2 \theta_{out}$$

$$1/R_{OUT} = \left(1.496 \frac{515}{515} \left(\frac{\cos^2 45}{10} + \frac{\cos^2 45}{10} \right) - \frac{\cos^2 45}{10} \right) \div \cos^2 40.91$$

$$1/R_{OUT} = \left(.9631 \left(\frac{.5}{10} + \frac{.5}{10} \right) - \frac{.5}{10} \right) \div .5711$$

$$1/R_{OUT} = (.9631(.1) - .05) \div .5711 = .0811$$

$$R_{OUT} = 12.33$$

$$1/R_{OUT} = \left(1.488 \frac{515}{515} \left(\frac{\cos^2 45}{10} + \frac{\cos^2 45}{10} \right) - \frac{\cos^2 45}{10} \right) \div \cos^2 39.2$$

$$1/R_{OUT} = \left(.9476 \left(\frac{.5}{10} + \frac{.5}{10} \right) - \frac{.5}{10} \right) \div .5993$$

$$(.9476(.1) - .05) \div .5993 = .0747$$

$$R_{OUT} = 13.39$$

$$1/R_{OUT} = \left(1.476 \frac{515}{515} \left(\frac{\cos^2 45}{10} + \frac{\cos^2 45}{10} \right) - \frac{\cos^2 45}{10} \right) \div \cos^2 36.87$$

$$1/R_{OUT} = \left(.9243 \left(\frac{.5}{10} + \frac{.5}{10} \right) - \frac{.5}{10} \right) \div .6400$$

$$1/R_{OUT} = (.9243(.1) - .05) \div .6400 = .0663$$

$$R_{OUT} = 15.08$$

$$1/R_{OUT} = \left(1.458 \frac{515}{515} \left(\frac{\cos^2 45}{10} + \frac{\cos^2 45}{10} \right) - \frac{\cos^2 45}{10} \right) \div \cos^2 33.41$$

$$1/R_{OUT} = (.8893(.1) - .05) \div .6968 = .0559$$

$$R_{OUT} = 17.90$$