

## Angular Resolution

$$MP = \theta' / \theta$$

Two Stars:  $\theta = 2 \text{ arc sec}$

Eye:  $\theta' = 1 \text{ arc min}$

$$|MP| \geq \frac{1 \text{ arc min}}{2 \text{ arc sec}} = 30$$

$$|MP| \geq 30$$

With Diffraction:

$$|MP| < .43 D_{EP} \quad (\text{mm})$$

$$D_{EP} > 70 \text{ mm}$$

or

$$D_{EP} > 2.7''$$