

### Star Count Data Sheet

Date of observation \_\_\_\_\_ (mm/dd/yyyy) (example: 08/20/2006)

Latitude \_\_\_\_\_ (xx.xx in degrees) (example: 45.00°)

Longitude \_\_\_\_\_ (xxx.xx in degrees) (example: 110.70°)

Elevation \_\_\_\_\_ (in meters)

Cloud cover \_\_\_\_\_ (estimate cloud cover and round to the nearest 0%, 25%, 50%, 75% or 100%)

Air pollution index \_\_\_\_\_

Distance from security/street light \_\_\_\_\_ (in meters)

#### Star Count Viewing Tube

Length (l) \_\_\_\_\_ cm

Diameter (d) \_\_\_\_\_ cm

Radius (r) \_\_\_\_\_ cm

#### Record Observations

Star Count 1 \_\_\_\_\_

Star Count 2 \_\_\_\_\_

Star Count 3 \_\_\_\_\_

Star Count 4 \_\_\_\_\_

Star Count 5 \_\_\_\_\_

Star Count 6 \_\_\_\_\_

Star Count 7 \_\_\_\_\_

Star Count 8 \_\_\_\_\_

Star Count 9 \_\_\_\_\_

Star Count 10 \_\_\_\_\_

TOTAL \_\_\_\_\_

AVERAGE \_\_\_\_\_

#### Calculate Star Count

$$\text{Star Count} = \frac{2l^2}{r^2} \times \text{AVERAGE}$$

$$\text{Star Count} = \frac{2 \times l \times l}{r \times r} \times \text{AVERAGE}$$

$$\text{Star Count} = \frac{2 \times \_ \times \_}{\_ \times \_} \times \_$$

$$\text{Star Count} = \_$$

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