

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

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

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

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

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