How many times brighter is the sky glow today compared to an ideal (magnitude = 6) night sky?

A perfect sky is dark, so with no light pollution it should be magnitude 6. Our sky, however, is brighter because of light pollution. As we increase sky glow, the sky gets brighter and we lose more stars.

To find out how much brighter the sky glow is now, estimate the magnitude of the area and compare it to the scale.

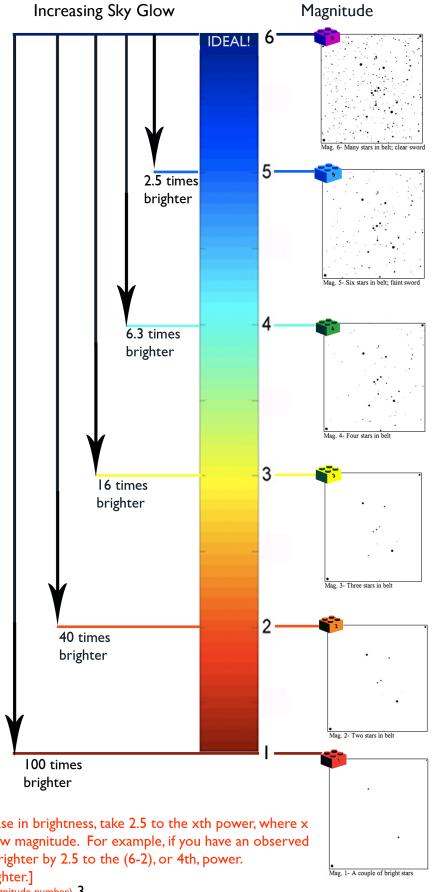


- 9. What Orion star chart matches this area's sky? About 4 or slightly less
- 10. What is the average magnitude for this area?

About 4

- 11 By how many magnitudes has the sky changed (from ideal)?
 - About 2
- 12. How many times brighter is the night sky now because of sky glow?

About 6.3 or more



[NOTE: To determine the increase in brightness, take 2.5 to the xth power, where x is ideal magnitude minus your new magnitude. For example, if you have an observed magnitude of 2, then the sky is brighter by 2.5 to the (6-2), or 4th, power.

That is, $2.5^{(6-2)}$, or 40 times brighter.]

(your new magnitude number) 3