

SAL 130 #4)

$$L = 10 \text{ dB} \log \frac{I}{I_0}$$

$$L = 10 \text{ dB} \log \frac{2.56 \times 10^{-9} \text{ W/m}^2}{1.00 \times 10^{-12} \text{ W/m}^2}$$

$$L = 34.082 \text{ dB}$$