

7/29/64

Water, Remnants, etc.

Water column calc.
assume 700 rev 8 days

$$I = \frac{300000 e^{-ax}}{a^2} \text{ mt} \quad (\text{distance, } x \text{ in ft.})$$

$$a = 0.170 \text{ (constants)}$$

Case 1 - sunset 36' away

24' x 1.4 = 34' or 50.7 cm ^{175.2}

$$\begin{aligned} I &= \frac{300000 e^{-0.170 \times 36}}{0.170^2} = \frac{300000 e^{-6.12}}{0.0289} \\ &= 231 \times 4.54 \times 10^5 \times 6.674 \times 10^{-2} \\ &= 7 \times 10^5 \text{ mt} \end{aligned}$$

Case 2 - sunset 18' away, if elevated to center of bldg.

$$\begin{aligned} I &= \frac{300000 e^{-0.170 \times 18}}{0.170^2} = \frac{300000 e^{-3.06}}{0.0289} \\ &= 927 \times 0.0005531 = \underline{\underline{0.51 \text{ mt}}} \end{aligned}$$

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