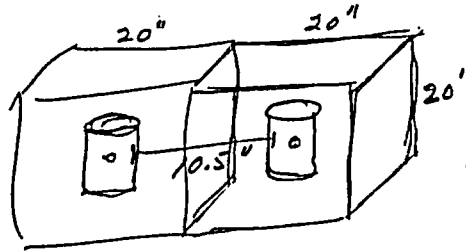
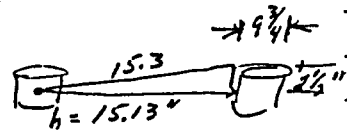


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10.5
11
11.5



$$\frac{20 - 9.75}{9.75} = \frac{\sin \theta}{10} \quad (2.5)^2 = 6.25$$

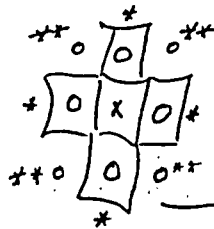
$$\frac{10.25}{9.75} = \frac{\sin \theta}{10} \quad (15.13)^2 = 229$$

$$\sqrt{235} = 15.3$$

Actual E & E $20 - 9.75 = 10.25$

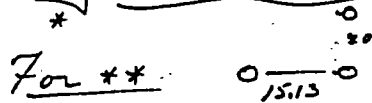
C & edge $= 10.25 + \frac{4.88}{2} = 15.13 (h) \quad \sin \theta = \frac{2.5}{15.3} = .163$

$$r_1 = 2 \frac{d}{h} \sin \theta = 2$$



$$= 2 \frac{9.75}{15.13} \times .163 = .210$$

For $\frac{1}{4}$, $r = .840$



$$\frac{15.13^2 - 229}{20^2} = \frac{400}{629} = 25.1$$

$$\frac{\sin \theta}{25.1} = \frac{2.5}{25.2} = .099$$

$$\frac{2.5^2}{25.1^2} = \frac{6.25}{635} = 25.2$$

$$r_1 = 2 \frac{9.75}{25.1} \cdot .099 = .077$$

$$r_4 = 4(.077) = .308$$

$$\text{Total } r = .84 + .31 = 1.15 / 4\pi = 9.2\%$$

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