

Inside Yardside

$$L = \sqrt{474.8^2 + 219.9^2} = 523.3$$

$$W = 1.04 \text{ b/c}$$

$$R = 544.2$$

$$H_v = H = H$$

$$h = 252.9$$

$$d = 474.8$$

$$T_v = 19000$$

$$H = -\left(\frac{W \cdot h \cdot d}{2L}\right) + \left(\frac{d \cdot T_v}{L}\right) \left(1 - \left(\frac{W \cdot d}{2 \cdot T_v}\right)^2\right)^{1/2}$$

$$H = -119.3 + 17783.5(0.9946)$$

$$H = -119.3 + 17781.7$$

$$H = 17662.4$$

$$V_v = \sin 24.85 T_v = 8236.7816$$

$$V_1 = 7692.516$$

$$T_1 = \sqrt{V_1^2 + H^2} = 19264.916$$

$$T_v = \sqrt{V_v^2 + H^2} = 1948816$$

Outside

$$L = \sqrt{565.8^2 + 46.5^2} = 567.7$$

$$W = 1.04$$

$$R = 590.4$$

$$H_v =$$

$$h = 46.5$$

$$d = 565.8$$

$$T_v = 19000$$

$$H = -\left(\frac{W \cdot h \cdot d}{2L}\right) + \left(\frac{d \cdot T_v}{L}\right) \left(1 - \left(\frac{W \cdot d}{2 \cdot T_v}\right)^2\right)^{1/2}$$

$$-696 + 19534.4(1 - .99)$$

$$H = 19526.3$$

$$\text{main } L = 523.3$$

$$W = 0.46$$

$$R = 24471.9$$

$$T_v = 8900$$

$$d = 474.8$$

$$h = 252.9$$

$$H = \left(\frac{W \cdot h \cdot d}{2L}\right) + \left(\frac{d \cdot T_v}{L}\right) \left(1 - \left(\frac{W \cdot d}{2 \cdot T_v}\right)^2\right)^{1/2}$$

$$52.77 + 8075(1 - .699)$$

$$V_v = \sin 4.7(19000) = 1605$$

$$V_1 = 1014.59$$

$$T_1 = \sqrt{V_1^2 + H^2} = 19552.64$$

$$V_1 = H \cdot R/2$$

$$V_1 = 4208$$

$$8127$$

$$\text{Pay load} = 10887 - 1200 = 968716$$