$$a_0 := 1 + \tan\left(\frac{-\pi}{4}\right)^2$$

$$q := y_A - \tan\left(\frac{-\pi}{4}\right) \cdot x_A$$

$$b_0 := 2 \cdot \tan\left(\frac{-\pi}{4}\right) \cdot q$$

$$c_0 := q^2 - h^2$$

$$x_1 := \frac{-b_0 + \sqrt[2]{b_0^2 - 4 \cdot a_0 \cdot c_0}}{2 \cdot a_0} = 272.753 \ mm$$

$$x_2 := \frac{-b_0 - \sqrt[2]{b_0^2 - 4 \cdot a_0 \cdot c_0}}{2 \cdot a_0} = -169.253 \ mm$$

$$x_S := x_1$$

$$y_S := \tan\left(\frac{-\pi}{4}\right) \cdot x_1 + q = -169.253 \ mm$$

$$h_s := \sqrt[2]{(x_S - x_A)^2 + (y_S - y_A)^2} = 312.899 \ mm$$

$$NU := h_s - \frac{d_1}{2} = 209.399 \ mm$$

$$NV := \frac{NU}{3} \cdot \frac{a + 2 \cdot b}{a + b} = 88.224 \ mm$$

$$UV := NU - NV = 121.175 \ mm$$