$$S_{3ACn}\left(y_{br}\right) := 2 \cdot \int_{-\left\langle h - y_G \right\rangle}^{H + y_G} y \cdot \left(\sqrt{R^2 - \left\langle y - y_G \right\rangle^2} - r \right) \mathrm{d}y$$

$$+ 2 \cdot \int_{-\left\langle \left\langle h - y_G \right\rangle + r \cdot \tan\left(30\ \mathit{deg}\right) \right\rangle}^{-\left\langle h - y_G \right\rangle} y \cdot \left(\sqrt{R^2 - \left\langle \left| y \right| + y_G \right\rangle^2} - r + \frac{\left| y \right| - \left\langle h - y_G \right\rangle}{\tan\left(30\ \mathit{deg}\right)} \right) \mathrm{d}y$$

$$+ 2 \cdot \int_{-y_{br}}^{-\left\langle \left\langle h - y_G \right\rangle + r \cdot \tan\left(30\ \mathit{deg}\right) \right\rangle} y \cdot \left(\sqrt{R^2 - \left\langle \left| y \right| + y_G \right\rangle^2} \right) \mathrm{d}y$$