$$egin{align} b_r\left(y_{br}
ight) &\coloneqq 2ullet \sqrt{R^2 - \left(\left|y_{br}
ight| + y_G
ight)^2} \ & \ lpha\left(y_{br}
ight) \coloneqq rac{180}{\pi} tan\left(rac{\left|y_{br}
ight| + y_G}{rac{b_r\left(y_{br}
ight)}{2}}
ight) \end{aligned}$$