Created by Unlicensed Version Limit xy gradually function dist = current pos sp - current pos slope = (cruise speed xy- 0.01) / target threshold xy Wel_limit = slope * sqrt(dist x* dist x + dist y * dist y) + 0.01 $\underline{\mathbb{Q}}$ el_mag_xy = sqrt(vel_sp x * vel_sp x + vel_sp y * vel_sp y) Created by Unlicensed Version vel_mag_xy <= vel_limit Yes $vel sp x = vel sp x / vel_mag_xy * vel_limit$ vel sp y = vel sp y / vel_mag_xy * vel_limit Return **Unlicensed Version**