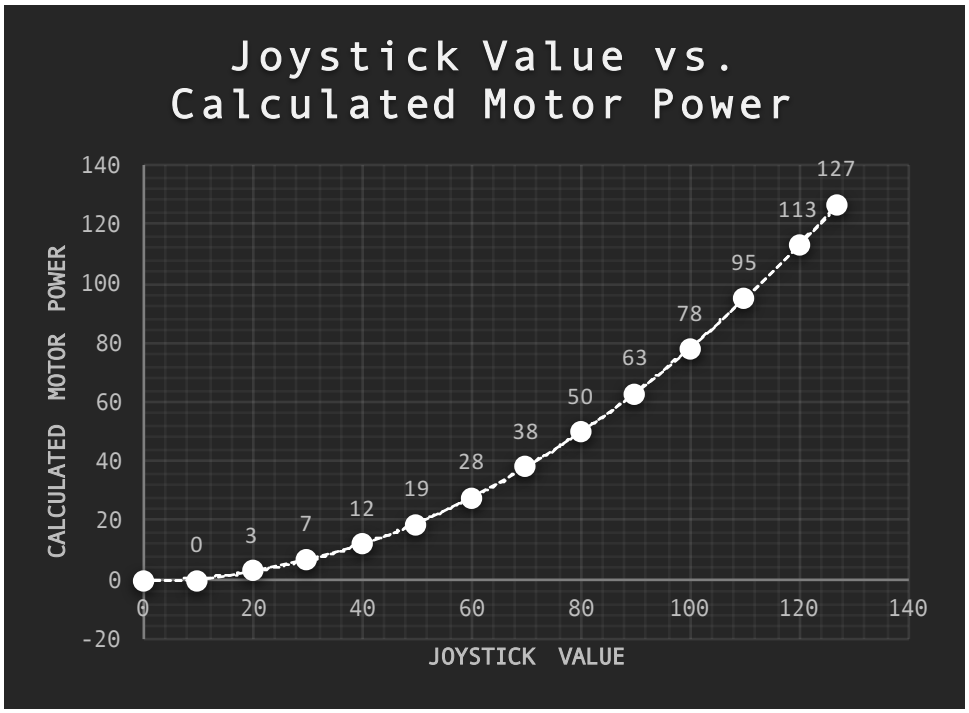
Logarithmic Drive	
Joystick Value	Calculated Motor Power
0	0
10	0
20	3
30	7
40	12
50	19
60	28
70	38
80	50
90	63
100	78
110	95
120	113
127	127



This season, as we have explained earlier, chose to use a fast drive. One of the drawbacks to having such a fast drive is the drivers ability to make precise movements at slow speeds. These precise movements are important so that we don't waste time trying to align with cones. The equation used to calculate the logarithmic motor power based on the actual joystick values was the square of the raw joystick value divided by 127. Based on data from the results table and the graph, the equation does not hinder the full range of power sent to the motor even after the logarithmic filter. The lowest is still 0 and the highest is still 127.