https://phoenix-documentation.readthedocs.io/en/latest/ch16_ClosedLoop.html#calculating-feed-forward-gain-kf			
775pro Motor Used CTRE Magnetic Encoder Used			
12.6.2. Motion Magic Closed-Loop Walkthrough – Collect Sensor Data – Java	Enter User Data		
113300 units per 100ms	Returned Data		
27.66113281 Rev per 100ms 4096 Feedback Native Units			
16597 RPM			
Sanity check (Motor RPM)			
18730 Motor RPM	Sport 57 lower chain to Up	oper 10 turn Pot	
1 Gear Box ~ratio* * at the encoder	80 : 1 X 28 : 22	X 10	
18730 ~ mesured RPM	80 1.272727	7273 10 1018.181818	
12.6.3. Motion Magic Closed-Loop Walkthrough – Calculate F-Gain – Java			
0.009029126214 F-gain = (100% X 1023) / units per 100ms			
1023 =~1024			
12.6.4. Motion Magic Closed-Loop Walkthrough – Initial Cruise-Velocity/Acceleration – Java			
Initial Cruise-Velocity (arbitrarily% * units per 100ms)			
0.4 % of the top speed.			
45320 Initial Cruise Velocity			
Initial acceleration value (arbitrarily acceleration is in terms of change in velocity per second			
1 Sec			
45320 Initial acceleration			
12.6.5. Motion Magic Closed-Loop Walkthrough – P-Gain – Java			
60304 Given an error			
10% % of motor output can start typically at 10%			
0.001696404882 P-gain = (% motor output X 1023) / (error)			
Sanity check (error * P-gain) / % motor = 1023			
1023 =~1023			
*Tune P-Gain			
0.01 Final P-gain Value			
12.6.6. Motion Magic Closed-Loop Walkthrough – D-Gain – Java			
10 D-gain can start typically at 10 X P-gain			
0.1 D-Gain			
12.6.7. Motion Magic Closed-Loop Walkthrough – I-Gain – Java			
0.001 I-gain if required start ~.001			