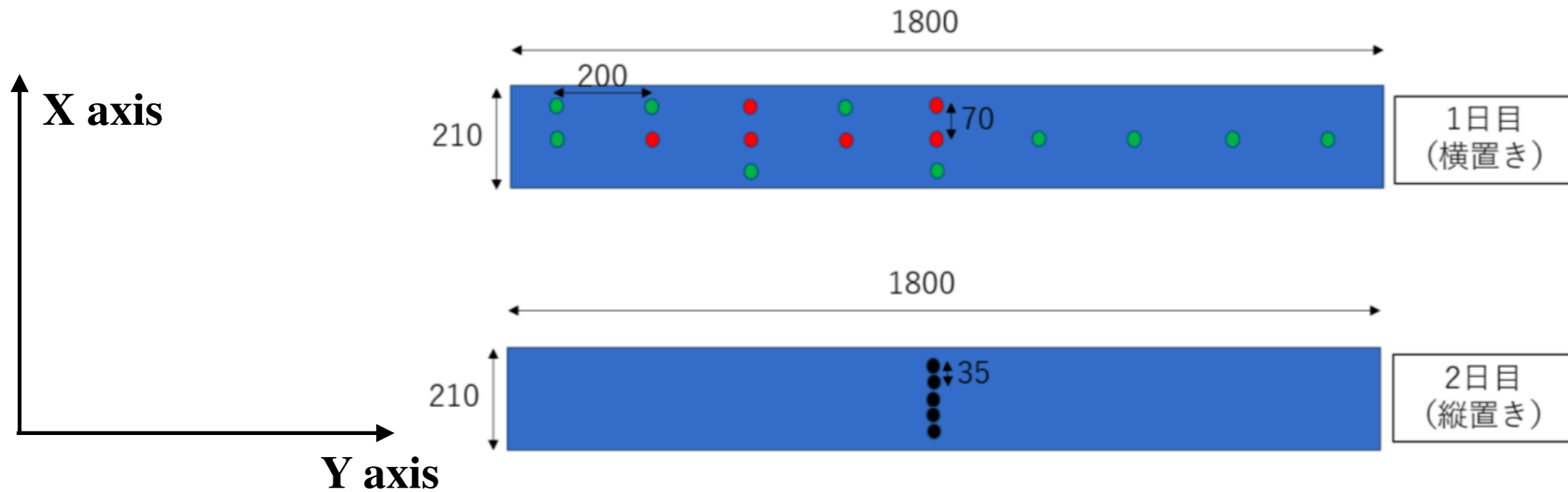


Water Cherenkov Detector Test Result

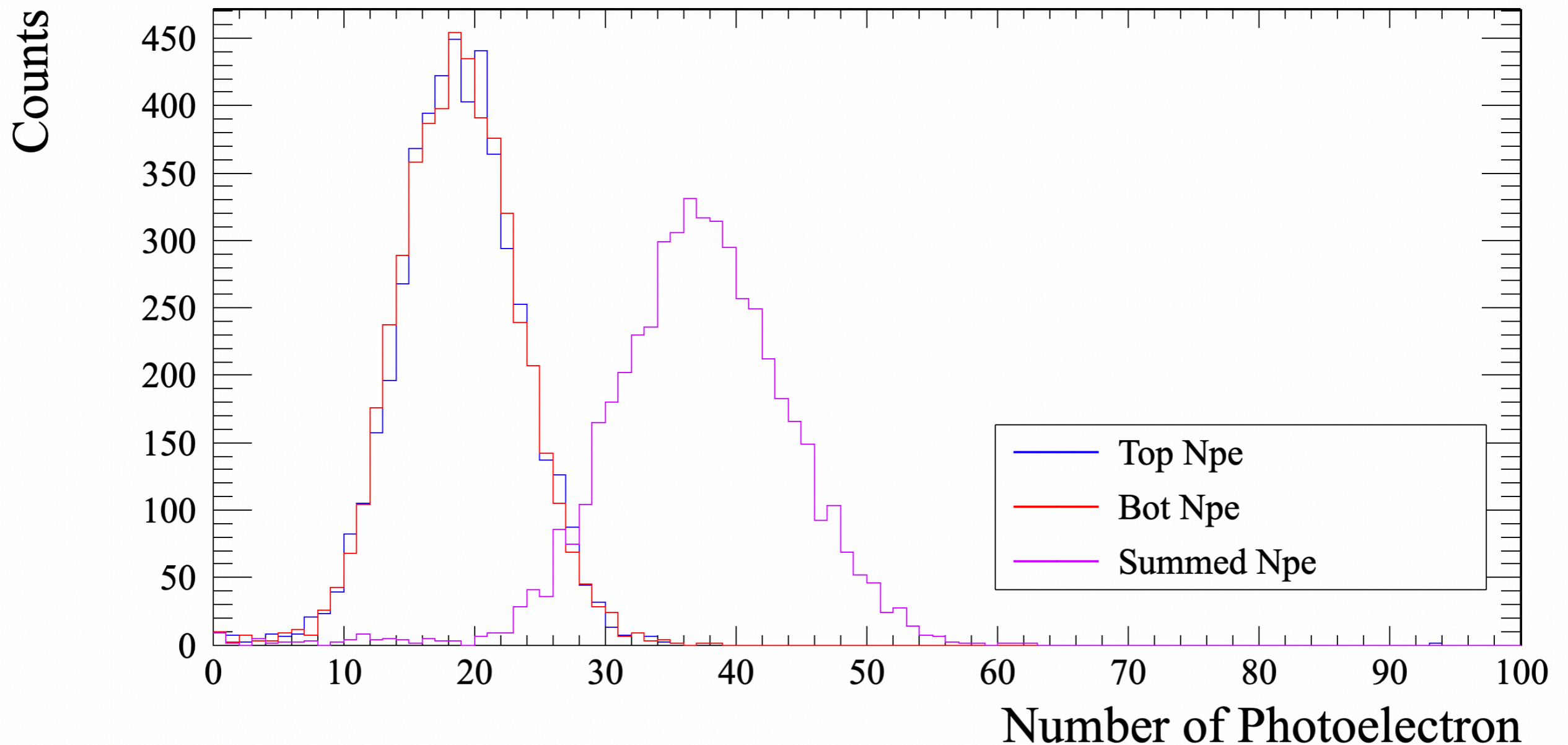
Sungwook Choi

Simulation for ELPH Test



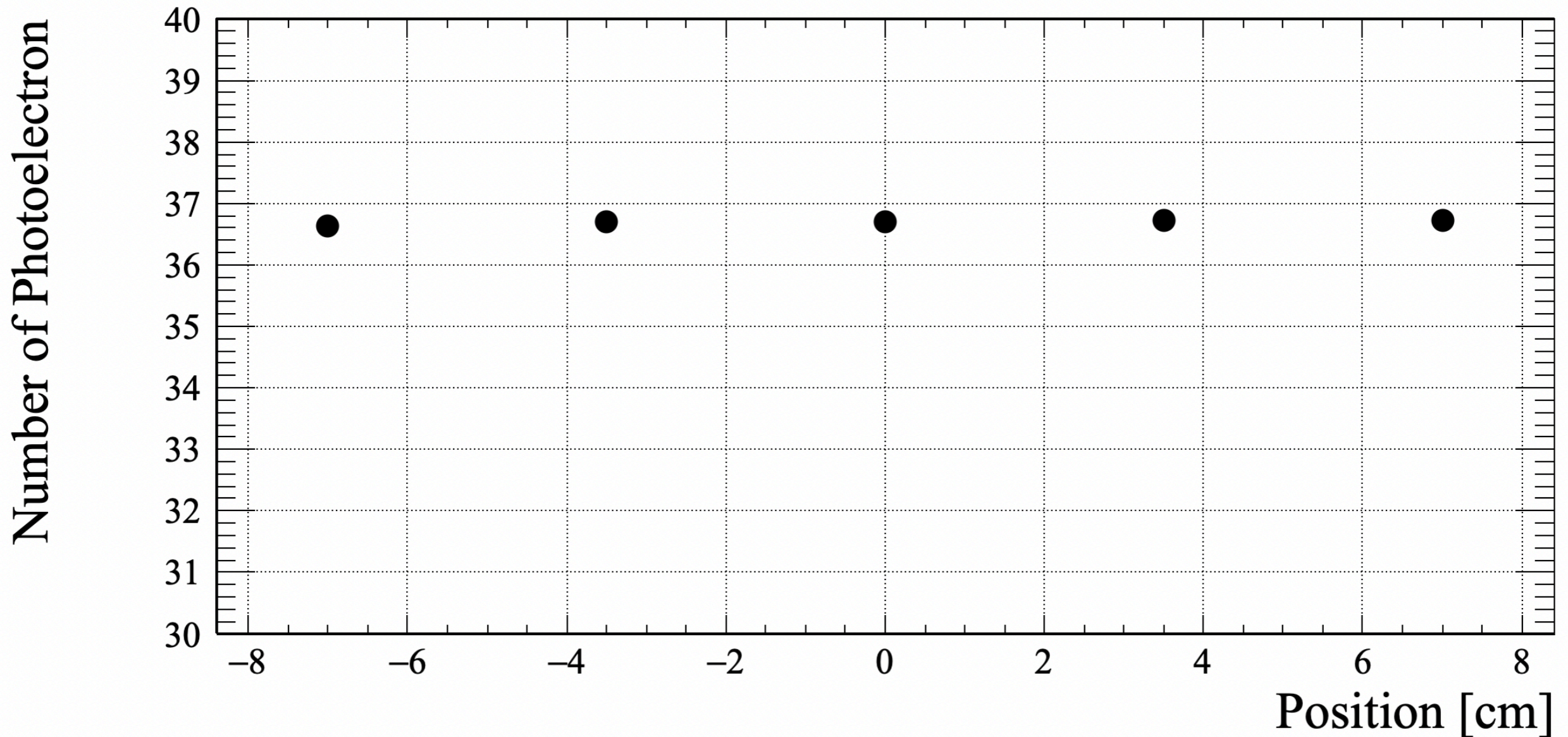
- Incident Beam : 460 MeV Positron
- Green Dots : Position Dependance
- Red Dots : Angular Dependance (0° , 5° , 10° 15°)
- Black Dots : Angular and Position Dependance. (0° , 5° , 10° 15°)

Npe Distribution



- Incident Beam : 460 MeV Positron ($\beta \sim 1$)
- 36.7 MNpe is obtained (18 MNpes for each PMT)

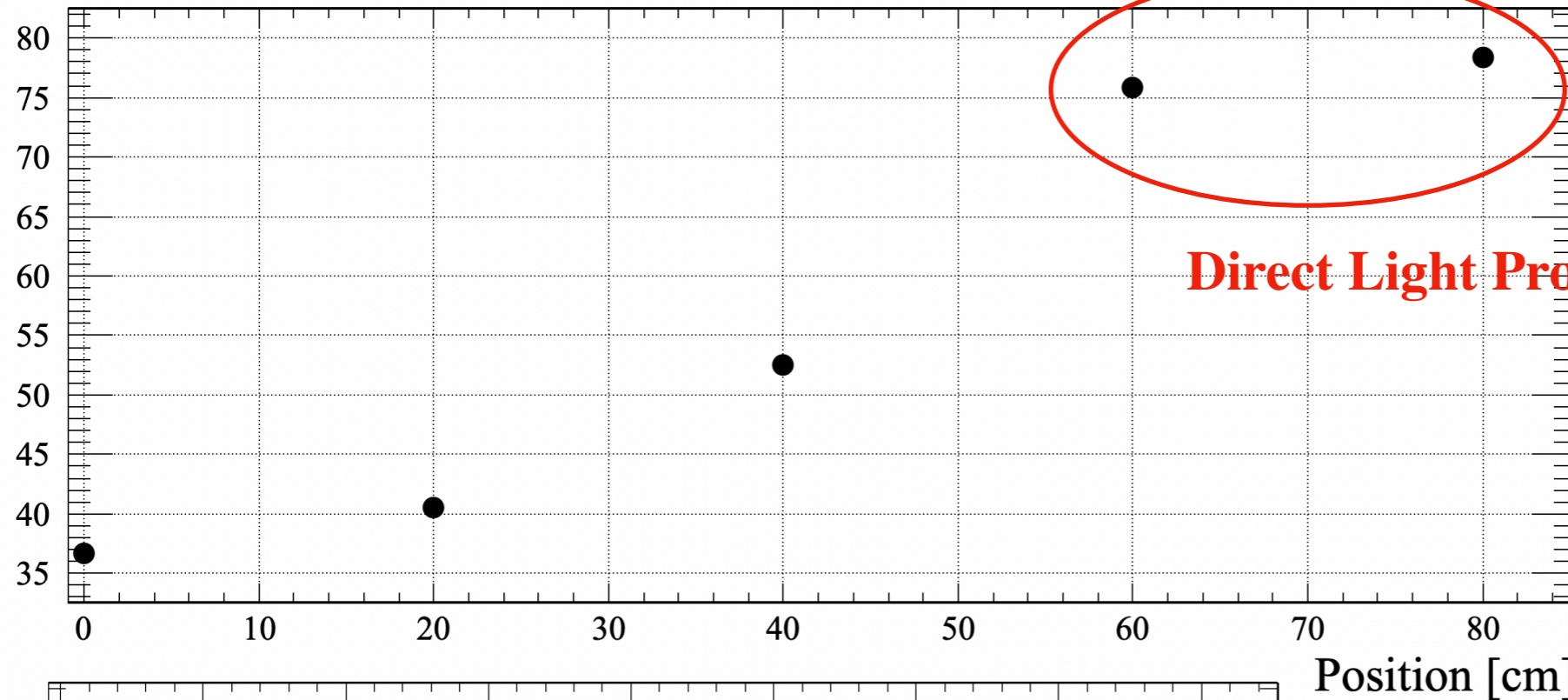
Position Dependancy



- X axis Position dependancy
 - Almost consistent along x axis

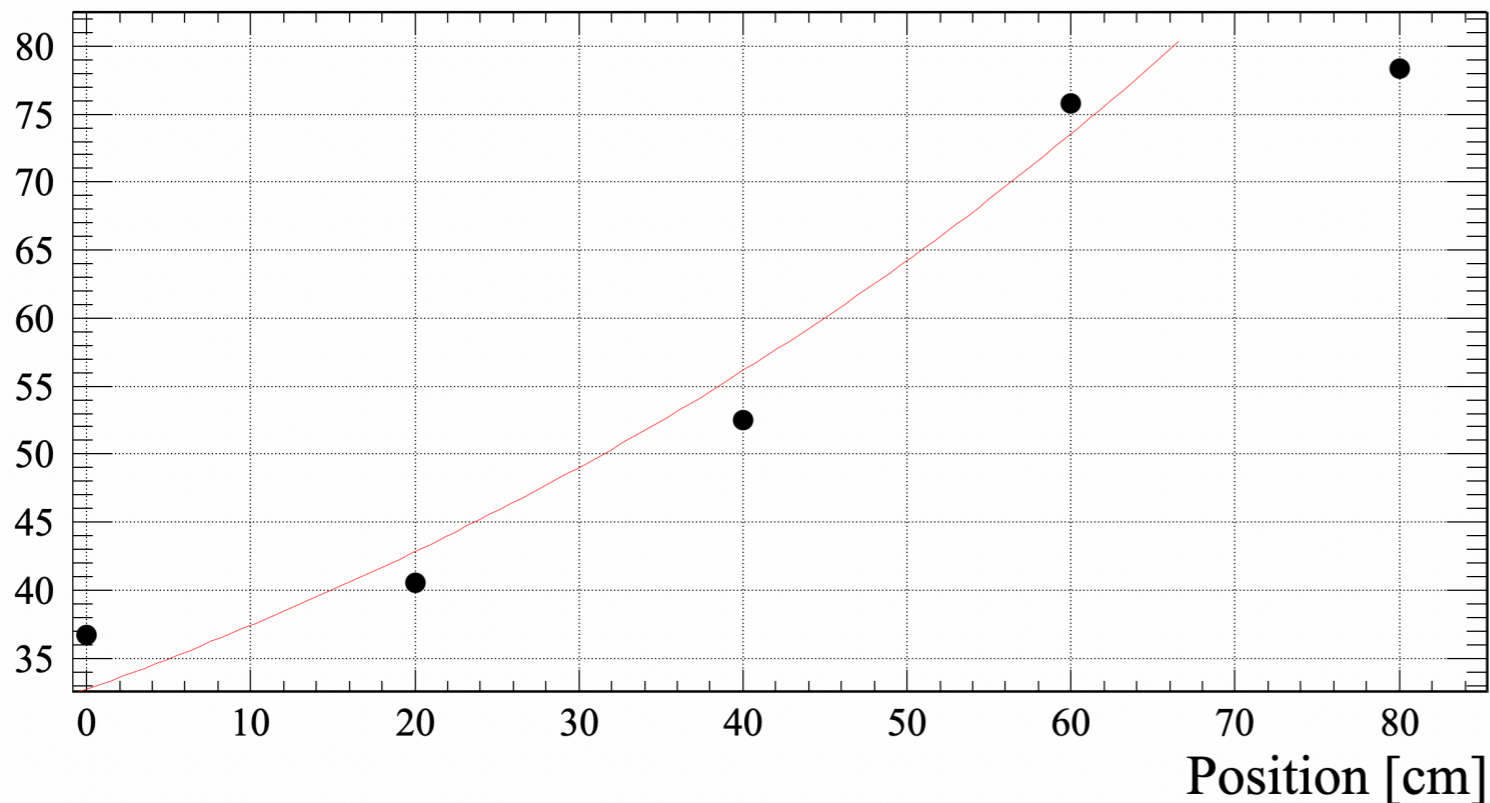
Position Dependancy

Counts



Direct Light Propagation to PMT

Counts



- Y axis Position dependancy
- Slope of Exponential Fit : 0.0135 (~74. cm)

Position Dependancy

