

v3 has new grids and angled fiber..

photocathode to cathode wires distance is 703 mils = 1.79 cm

drift region (cathode grid to anode grid) = 6340 mils = 16.1 cm

anode grid to anode is 305 mils = 0.77 cm

wire grids are 1 mil wire (25.4 micron) on 80 mil (0.20 cm) spacing

$$\rho = 2 \pi r / s (= \text{gap between wires}) = 3.1416/79 = 0.040$$

$$(1+\rho)/(1-\rho) = 1.083$$

$$\text{Drift Voltage/Cathode Voltage} > 1.08 \times 6340/703 = 9.8$$

$$\text{Drift Voltage/Anode Voltage} = 800/915 \text{ (see W. Jaskierny Electronics)} \Rightarrow$$

$$\text{Anode Voltage/Cathode Voltage} > 9.8 \times 915/800 = 11.2$$

