Caden Robers 11/07 5N-01 34 The Ratio E/M 6 2A, 8.8V, we observe a green luminescent ring of radius 3cm. As we decrease D.C. Outfut voitage on the larger supply, the ring decreases in size, and vice versal with increasing voltage. Decreasing magnetic field voltage increases Size of thering. Experiment 1 we are doing this experiment to graphically venify - 8100CU Plate voltage is set at 2000, and coil current is 2A with 8.8V, this produces a 3cm radius ring. When we drop plate voltage to 1000, the decrease coil current to 1.53A to keep a ring of the same radius. We measure at 150V and 80V to complete the graph. 50V OA 0.5ATA 1SA 222 SA 22 354 443 We observe a 1/2 slope of 43.325 and plugging this in to 2 - slope 1/3.325 (0.03)2(2737:10-7) -1.7588.1011, which is the currently accepted value of 1.7588.1011 (vilumb/kg. 

