

Length of the horizontal pair of plate (l)= 1.8
Distance of the screen from the edges of the plates(L)= 11
Seperation between the plates(d)= 0.6
horizontal component of earth(He)= 0.380434

sl no	Applied voltage(V)	Initial Deflect	Final Deflection	Actual Deflection(λ)	L1	L2	Compass Deflection(θ)		Mean θ	Magnetic Field	H^2	e/m *10^7
							θ_1	θ_2				
1	3.2	0.4	0.7	0.3	24	24	29	29	29	0.2109793379201	0.044512281	1.8154109
2	4.4	0.4	0.8	0.4	22	22	35	35	35	0.266522178019	0.071034071	2.0855928
3	5.6	0.4	0.9	0.5	19	19	48	48	48	0.4228013798889	0.178761007	1.3184656
4	6.7	0.4	1	0.6	18.5	18.4	51	52	51.5	0.4786264129118	0.229083243	1.4771217
5	-2	0.4	0.1	-0.3	23.5	23.5	23	26	24.5	0.1734528440531	0.030085889	1.6786956
6	-4.1	0.4	0	-0.4	19.5	19.5	36	38	37	0.2868326456953	0.082272967	1.6779161
7	-5.8	0.4	-0.2	-0.6	17.5	17.5	46	47	46.5	0.4011561496471	0.160926256	1.8202703
8	-5.1	0.4	-0.1	-0.5	18	18.1	44	44	44	0.3676081625602	0.135135761	1.5883765

Mean value of e/m = 1.682731204

Actual Value=

1.7

Error= 0.017268795748356