

Voltage (V)	Current (A)	Right (cm)	Left (cm)	d (m)	d^2	e/m
200	1.5	13.2	6.1	(9.000±0.141)×10 <sup>-2</sup>	(8.100±0.255)×10 <sup>-3</sup>	(1.546±0.296)×10 <sup>11</sup>
180		12.9	6.7	(8.500±0.141)×10 <sup>-2</sup>	(7.225±0.240)×10 <sup>-3</sup>	(1.560±0.301)×10 <sup>11</sup>
160		13	7	(8.000±0.141)×10 <sup>-2</sup>	(6.400±0.226)×10 <sup>-3</sup>	(1.565±0.306)×10 <sup>11</sup>
140		12.6	7.2	(7.400±0.141)×10 <sup>-2</sup>	(5.476±0.209)×10 <sup>-3</sup>	(1.601±0.319)×10 <sup>11</sup>
120		12.4	7.3	(6.800±0.141)×10 <sup>-2</sup>	(4.624±0.192)×10 <sup>-3</sup>	(1.625±0.332)×10 <sup>11</sup>
200	1.1	14.5	5.5	(7.100±0.141)×10 <sup>-2</sup>	(5.041±0.201)×10 <sup>-3</sup>	(1.336±0.198)×10 <sup>11</sup>
180		14.2	5.7	(6.200±0.141)×10 <sup>-2</sup>	(3.844±0.175)×10 <sup>-3</sup>	(1.577±0.239)×10 <sup>11</sup>
160		13.9	5.9	(6.000±0.141)×10 <sup>-2</sup>	(3.600±0.170)×10 <sup>-3</sup>	(1.496±0.231)×10 <sup>11</sup>
140		13.6	6.2	(5.400±0.141)×10 <sup>-2</sup>	(2.916±0.153)×10 <sup>-3</sup>	(1.617±0.259)×10 <sup>11</sup>
120		13.3	6.5	(5.100±0.141)×10 <sup>-2</sup>	(2.601±0.144)×10 <sup>-3</sup>	(1.553±0.259)×10 <sup>11</sup>

### I = 1.1 A

--- e/m from data---

Average:  $(1.579 \pm 0.139) \times 10^{11}$

Error from literature value = 10.20%

--- e/m from graph ---

e/m ratio =  $(1.726 \pm 0.014) \times 10^{11}$

Error from literature value = 1.84%

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### I = 1.5 A

--- e/m from data---

Average:  $(1.516 \pm 0.107) \times 10^{11}$

Error from literature value = 13.82%

--- e/m from graph ---

e/m ratio =  $(2.225 \pm 0.085) \times 10^{11}$

Error from literature value = 26.50%

